AIRBAG SYSTEM

PRECAUTION

CAUTION:

- **The vehicle is equipped with a Supplemental Restraint System (SRS). It consists of a driver airbag, front passenger airbag, driver side knee airbag, side airbag, curtain shield airbag and front seat belt pretensioner. Failure to carry out service operations in the correct sequence could cause the SRS to unexpectedly deploy during servicing, possibly leading to a serious accident. Further, if a mistake is made in servicing the SRS, it is possible that the SRS may fail to operate when required. Before performing servicing (including removal or installation of parts, inspection or replacement), be sure to read the following items carefully, then follow the correct procedures indicated in the repair manual.**
- **Wait at least 90 seconds after the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery before starting the operation.**
  (The SRS is equipped with a backup power source, so that if work is started within 90 seconds after disconnecting the negative (-) terminal cable of the battery, the SRS may be deployed).
- **Do not expose the steering pad, front passenger airbag assembly, driver side knee airbag assembly, center airbag sensor assembly, front airbag sensor, front seat inner belt assembly, seat position sensor, occupant classification ECU, front seat airbag assembly, side airbag sensor, curtain shield airbag assembly, rear airbag sensor or front seat outer belt assembly directly to hot air or flames.**

NOTICE:

- **Malfunction symptoms of the SRS are difficult to confirm, so DTCs are the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect DTCs before disconnecting the battery.**
- **Even in the case of a minor collision when the SRS does not deploy, the steering pad, front passenger airbag assembly, driver side knee airbag assembly, center airbag sensor assembly, front airbag sensor, front seat inner belt assembly, seat position sensor, occupant classification ECU, front seat airbag assembly, side airbag sensor, curtain shield airbag assembly, rear airbag sensor and front seat outer belt assembly should be inspected.**
- **Before repair work, remove the airbag sensor if any kind of shock is likely to occur to the airbag sensor during the operation.**
- **Never use SRS parts from another vehicle. When replacing parts, replace them with new ones.**

- **Never disassemble or repair any of the following parts in order to reuse them. If any of these parts have been dropped, or a defect is found (e.g. cracks, dents or any other defects) in any of the housings, brackets or connectors, then replace the part with a new one.**
  (a) Steering Pad
  (b) Front Passenger Airbag Assembly
  (c) Driver Side Knee Airbag Assembly
  (d) Front Seat Airbag Assembly
  (e) Curtain Shield Airbag Assembly
  (f) Center Airbag Sensor Assembly
  (g) Front Airbag Sensor
  (h) Front Seat Inner Belt Assembly
  (i) Seat Position Sensor
  (j) Occupant Classification ECU
  (k) Side Airbag Sensor
  (l) Rear Airbag Sensor
  (m) Front Seat Outer Belt Assembly
- **Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting the electrical circuits.**
- **Information labels are attached near the SRS components. Follow the instructions in the caution.**
- **After work on the SRS is completed, perform the SRS warning light check (See page RS-25).**
- **When the negative (-) terminal cable is disconnected from the battery, the memory will be cleared. Because of this, be sure to make a record of the contents memorized in each system before starting work. When work is finished, adjust each system as it was before. Never attempt to avoid erasing vehicle system memories by using a backup power supply from outside the vehicle.**
- **If the vehicle is equipped with a mobile communication system, refer to the precaution in the INTRODUCTION section.**
- **When disconnecting the negative (-) battery cable, initialize the following systems after the cable is reconnected.**

System Name	See procedure
Lighting System	LI-17
Sliding Roof Control System	RF-4 and RF-22
Power Window Control System	WS-12
Power Back Door Control System	ED-33

HINT:
In the airbag system, the center airbag sensor assembly, front airbag sensors LH and RH, side airbag sensors LH and RH, rear airbag sensors 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 a vehicle equipped with a side airbag and curtain shield airbag (fitting adjustment)

(b) When connecting or disconnecting the airbag sensor connectors, ensure that each sensor is installed in the vehicle.

(c) Do not use the airbag sensors which have been dropped during the operation or transportation.

(d) Do not disassemble the airbag sensors.

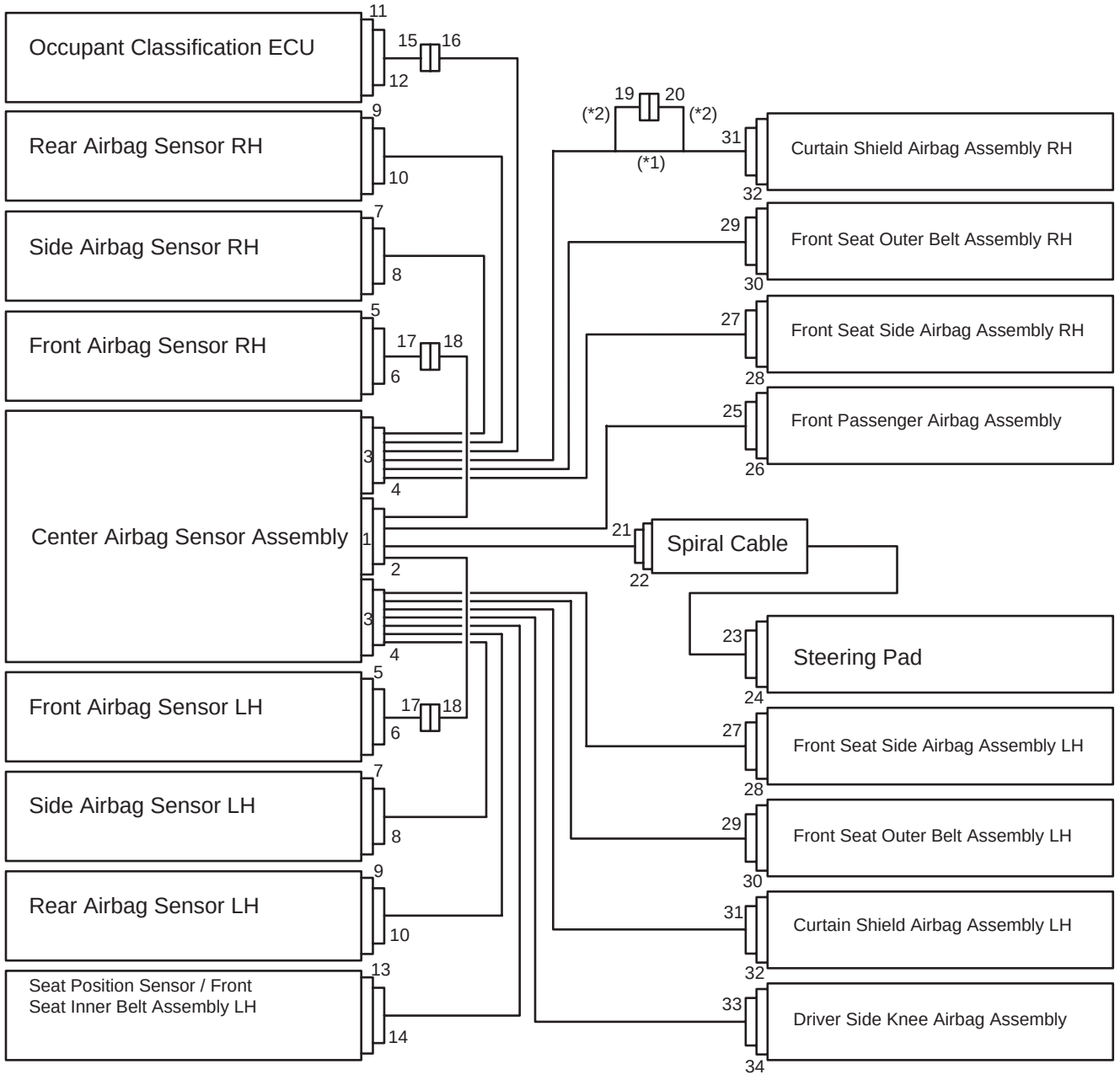
2. INSPECTION PROCEDURE FOR VEHICLE INVOLVED IN ACCIDENT

(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 CONNECTORS

(a) SRS connectors are located as shown in the following illustration.



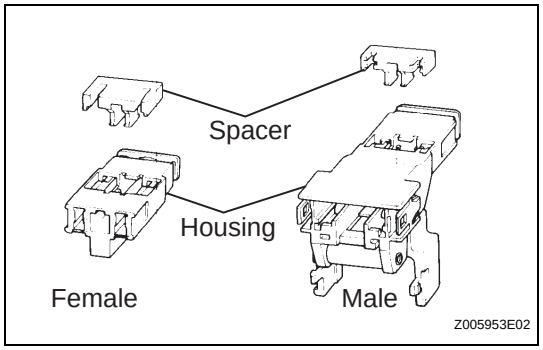
*1: w/o Rear Seat Entertainment System

*2: w/ Rear Seat Entertainment System

C110378E03

No.	Connector Type	Application
(1)	Terminal Twin-Lock Mechanism	Connectors 2, 4, 6, 8, 10, 15, 16, 17, 18, 19, 20, 21, 27, 28

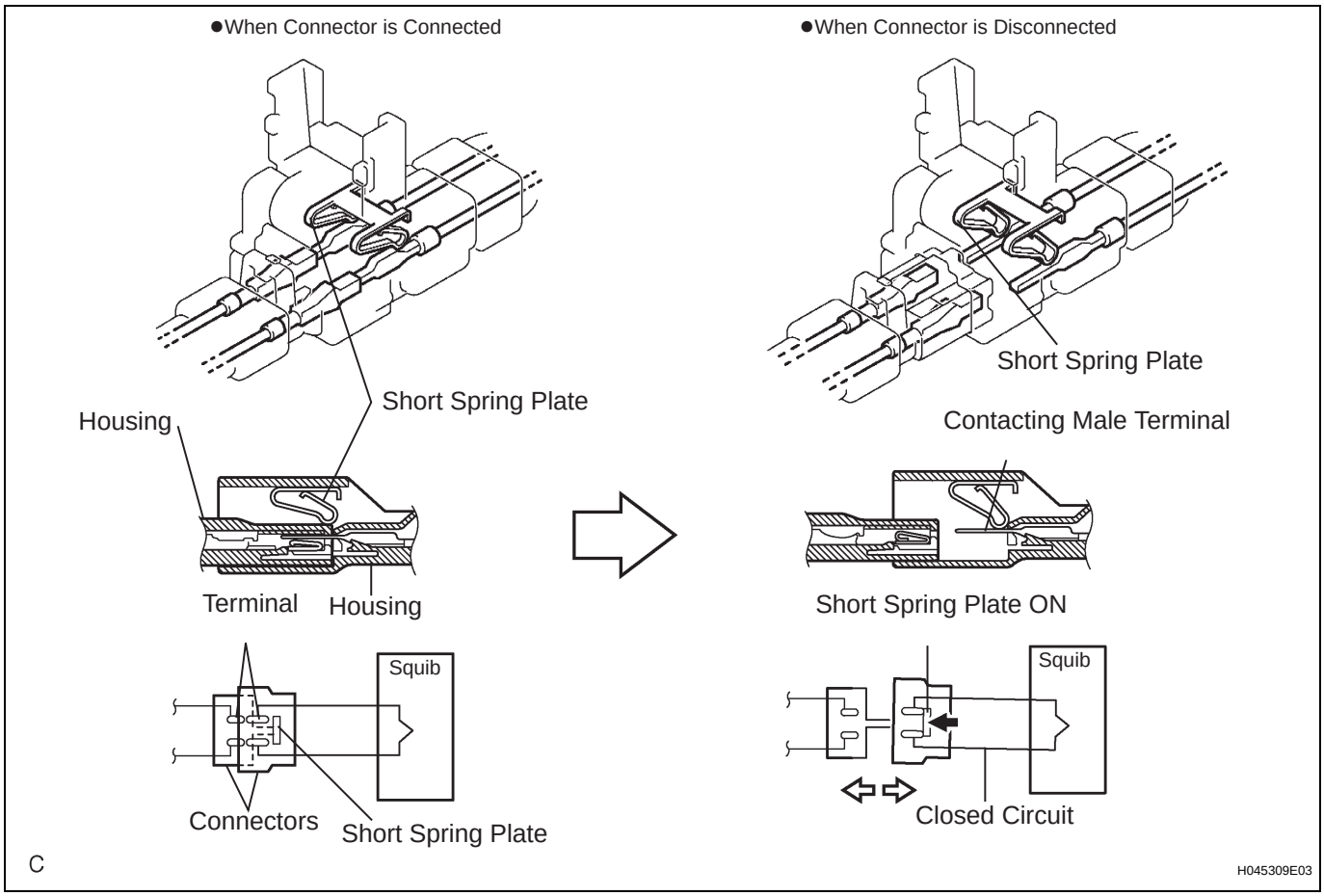
No.	Connector Type	Application
(2)	Activation Prevention Mechanism	Connectors 2, 4, 19, 22, 24, 26, 28, 30, 32, 34
(3)	Electrical Connection Check Mechanism	Connectors 1, 2, 3, 4
(4)	Half Connection Prevention Mechanism	Connectors 6, 8, 10, 17, 20, 21, 27
(5)	Connector Lock Mechanism	Connectors 23, 25, 29, 31, 33

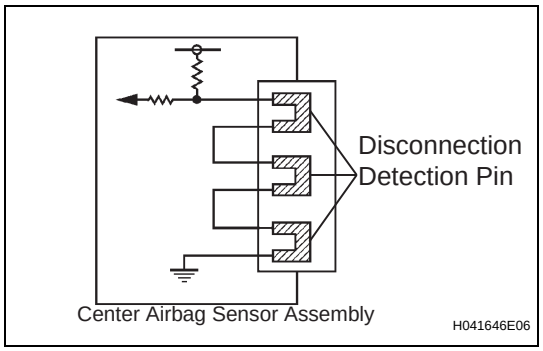


(b) All connectors in the SRS, except the seat position airbag sensor connector, are colored yellow to distinguish them from other connectors. These connectors have special functions, and are specially designed for the SRS. All SRS connectors use durable gold-plated terminals, and are placed in the locations shown on the previous page to ensure high reliability.

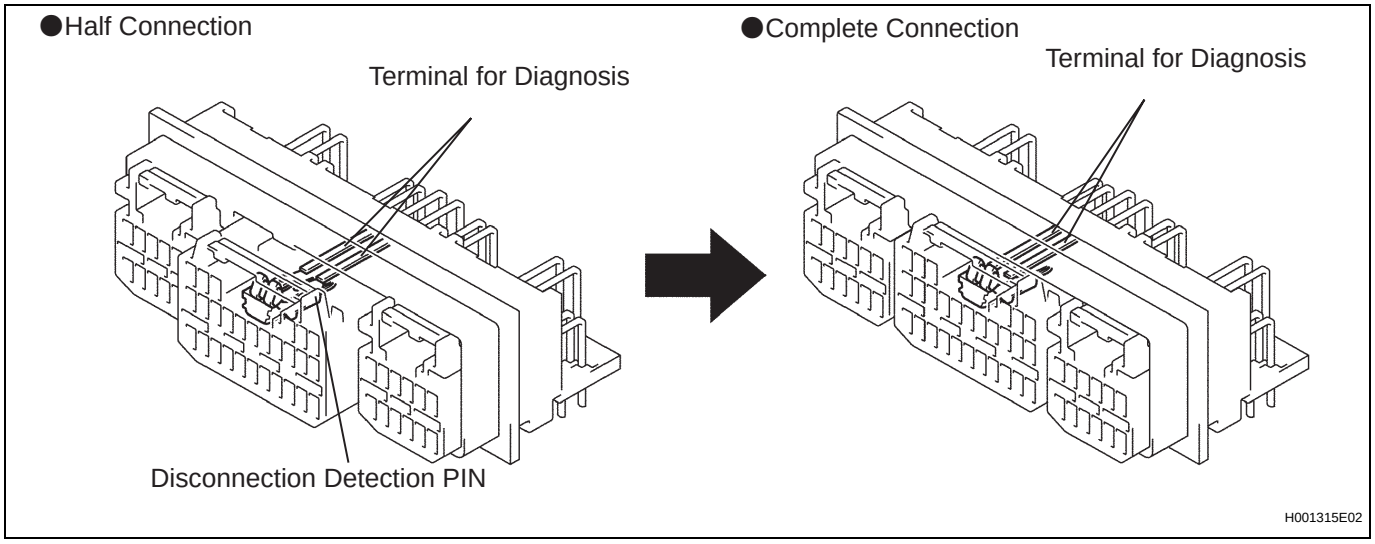
(1) Terminal twin-lock mechanism:
All connectors with a terminal twin-lock mechanism have a two-piece component consisting of a housing and a spacer. This design enables the terminal to be locked securely by two locking devices (the retainer and the lance) to prevent terminals from coming out.

(2) Activation prevention mechanism:
All connectors with an activation prevention mechanism contain a short spring plate. When these connectors are disconnected, the short spring plate creates a short circuit by automatically connecting the positive (+) and negative (-) terminals of the squib.

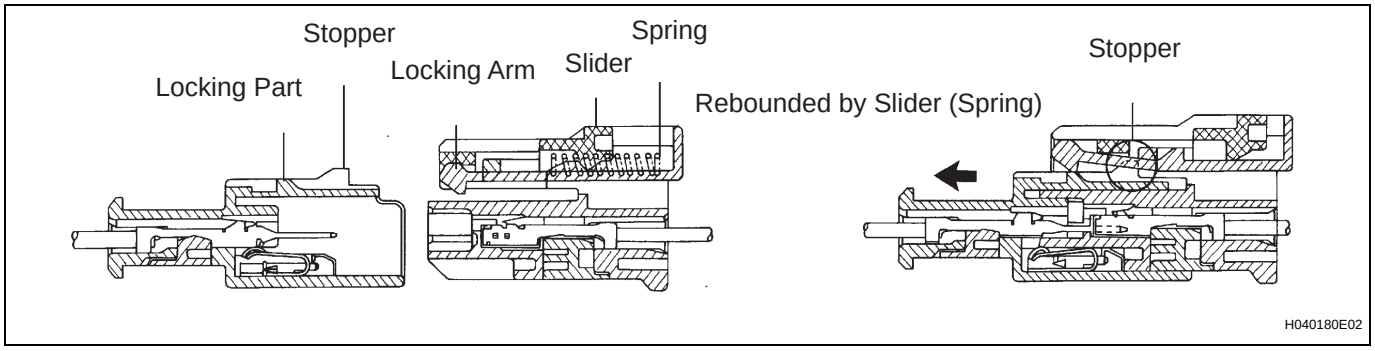




(3) Electrical connection check mechanism:
This mechanism electrically checks that the connectors are connected correctly and completely. The electrical connection check mechanism is designed so that the disconnection detection pin connects with the diagnosis terminals when the connector housing lock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

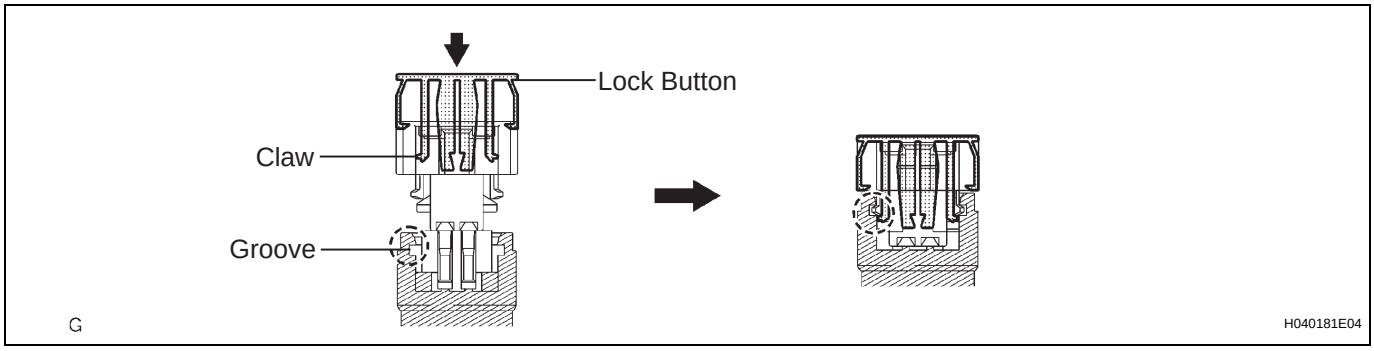


(4) Half connection prevention mechanism:
If the connector is not completely connected, the connector is disconnected due to the spring operation so that no continuity exists.



RS

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



RS

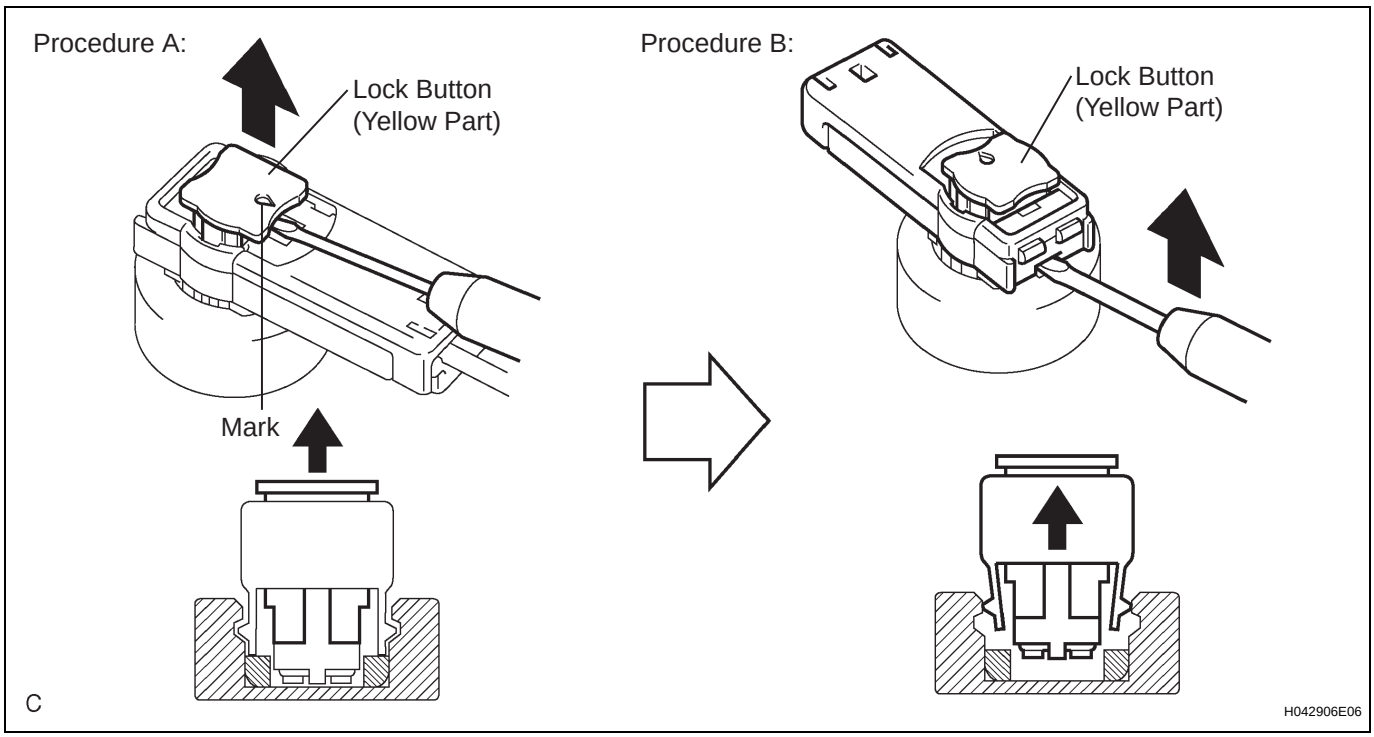
4. DISCONNECTION OF CONNECTORS FOR STEERING PAD, FRONT PASSENGER AIRBAG ASSEMBLY, DRIVER SIDE KNEE AIRBAG ASSEMBLY, CURTAIN SHIELD AIRBAG ASSEMBLY AND FRONT SEAT OUTER BELT ASSEMBLY

HINT:

Tape up the screwdriver tip before use.

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

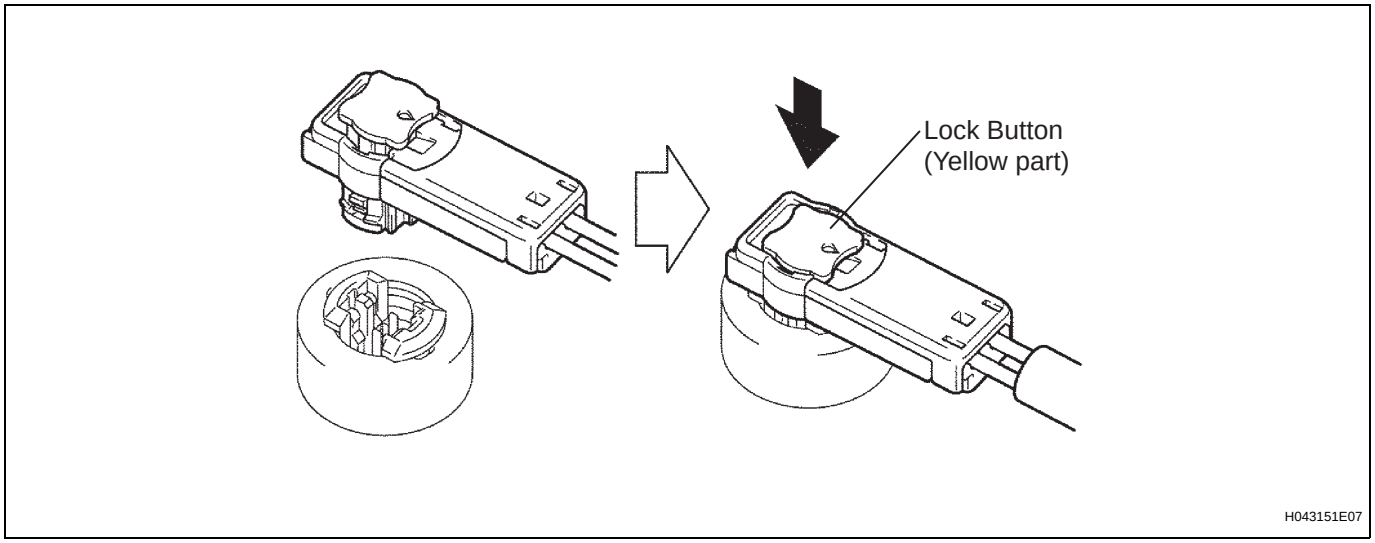
(b) Insert the screwdriver tip between the connector and the base, and then raise the connector (Procedure B).



5. CONNECTION OF CONNECTORS FOR STEERING PAD, FRONT PASSENGER AIRBAG ASSEMBLY (SQUIB SIDE), DRIVER SIDE KNEE AIRBAG ASSEMBLY, CURTAIN SHIELD AIRBAG ASSEMBLY AND FRONT SEAT OUTER BELT ASSEMBLY

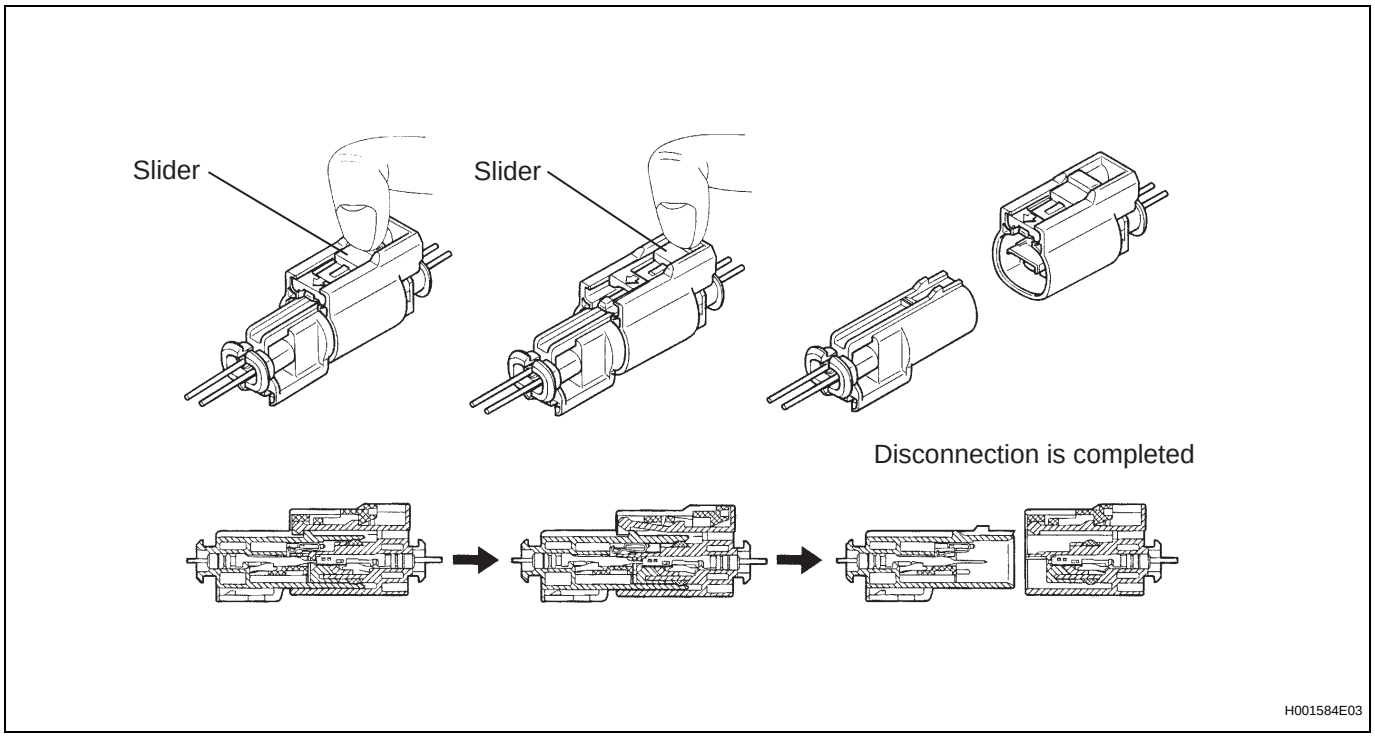
(a) Connect the connector.

(b) Push down securely on the lock button (yellow part) of the connector. (When locking, a click sound can be heard.)



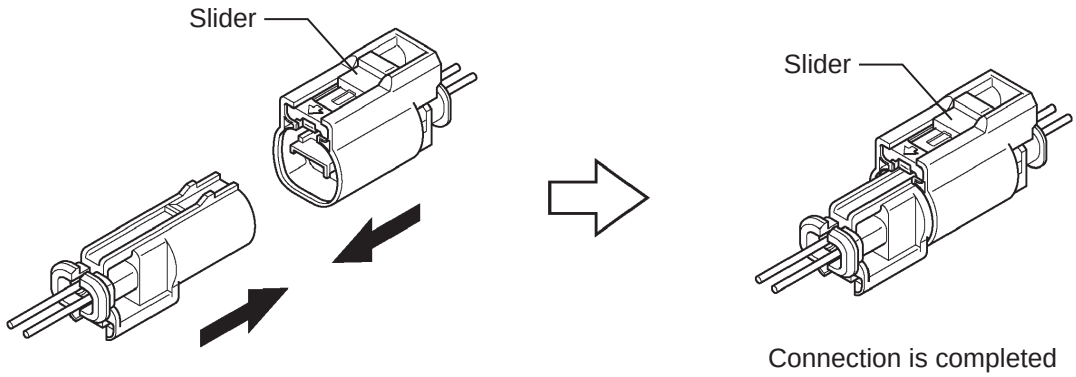
6. DISCONNECTION OF CONNECTOR FOR FRONT SEAT SIDE AIRBAG ASSEMBLY

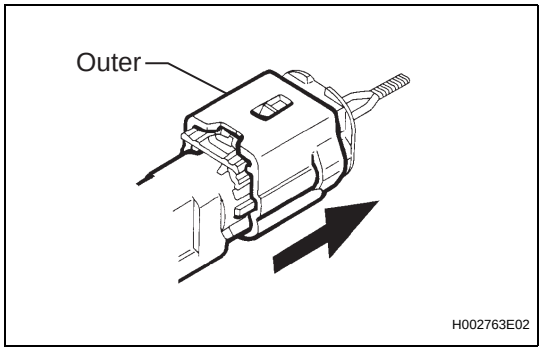
(a) Place a finger on the slider, slide the slider to release the lock, and then disconnect the connector.



7. CONNECTION OF CONNECTOR 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 will side. Be sure not to touch the slider while connecting, as it may result in an insecure fit.

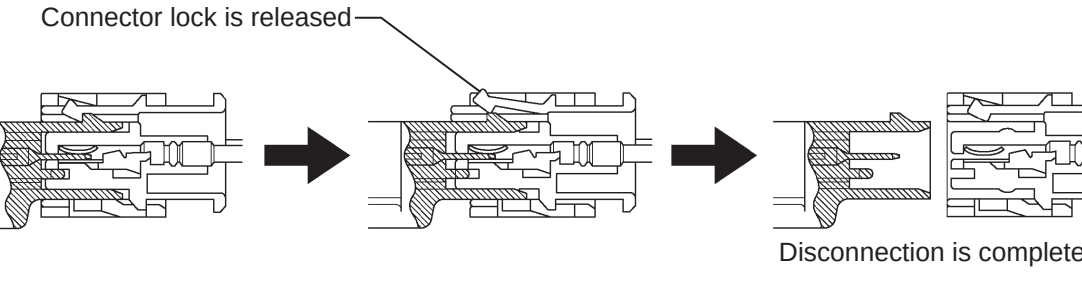




8. DISCONNECTION OF CONNECTORS FOR FRONT AIRBAG SENSOR, SIDE AIRBAG SENSOR AND REAR AIRBAG SENSOR

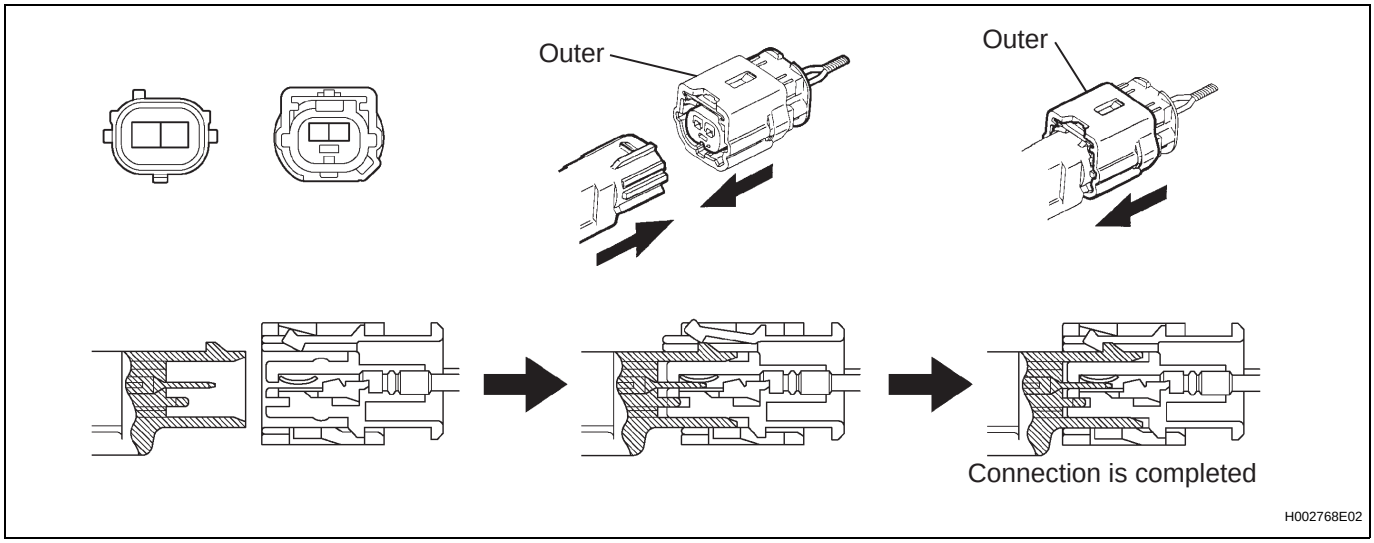
(a) While holding both the sides of the outer connector locking sleeve, slide the outer in the direction shown by the arrow.

(b) When the connector lock is released, the connectors are disconnected.
HINT:
Be sure to hold both outer flank sides. Holding the top and bottom will make disconnection difficult.

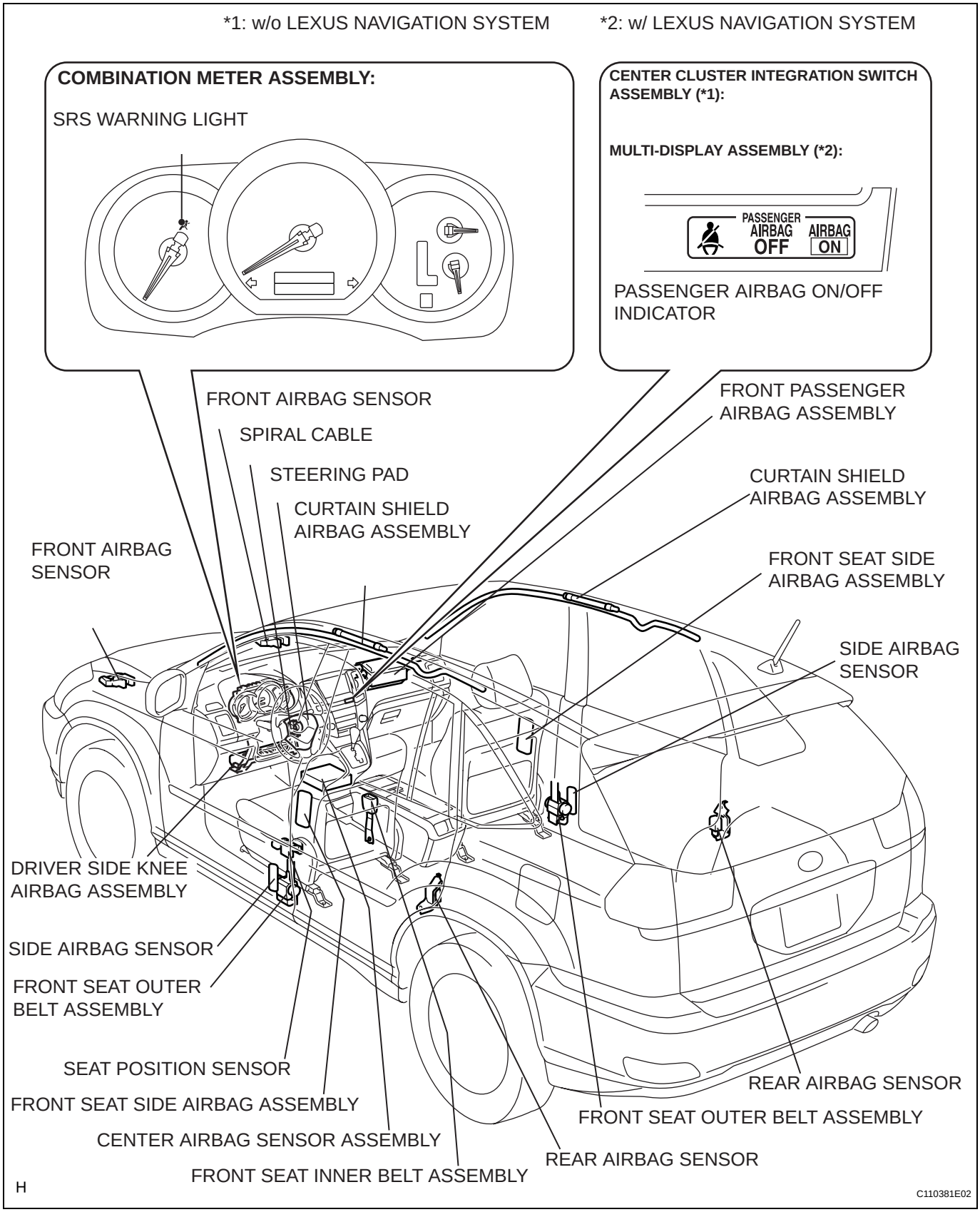


9. CONNECTION OF CONNECTORS FOR FRONT AIRBAG SENSOR, SIDE AIRBAG SENSOR AND REAR AIRBAG SENSOR

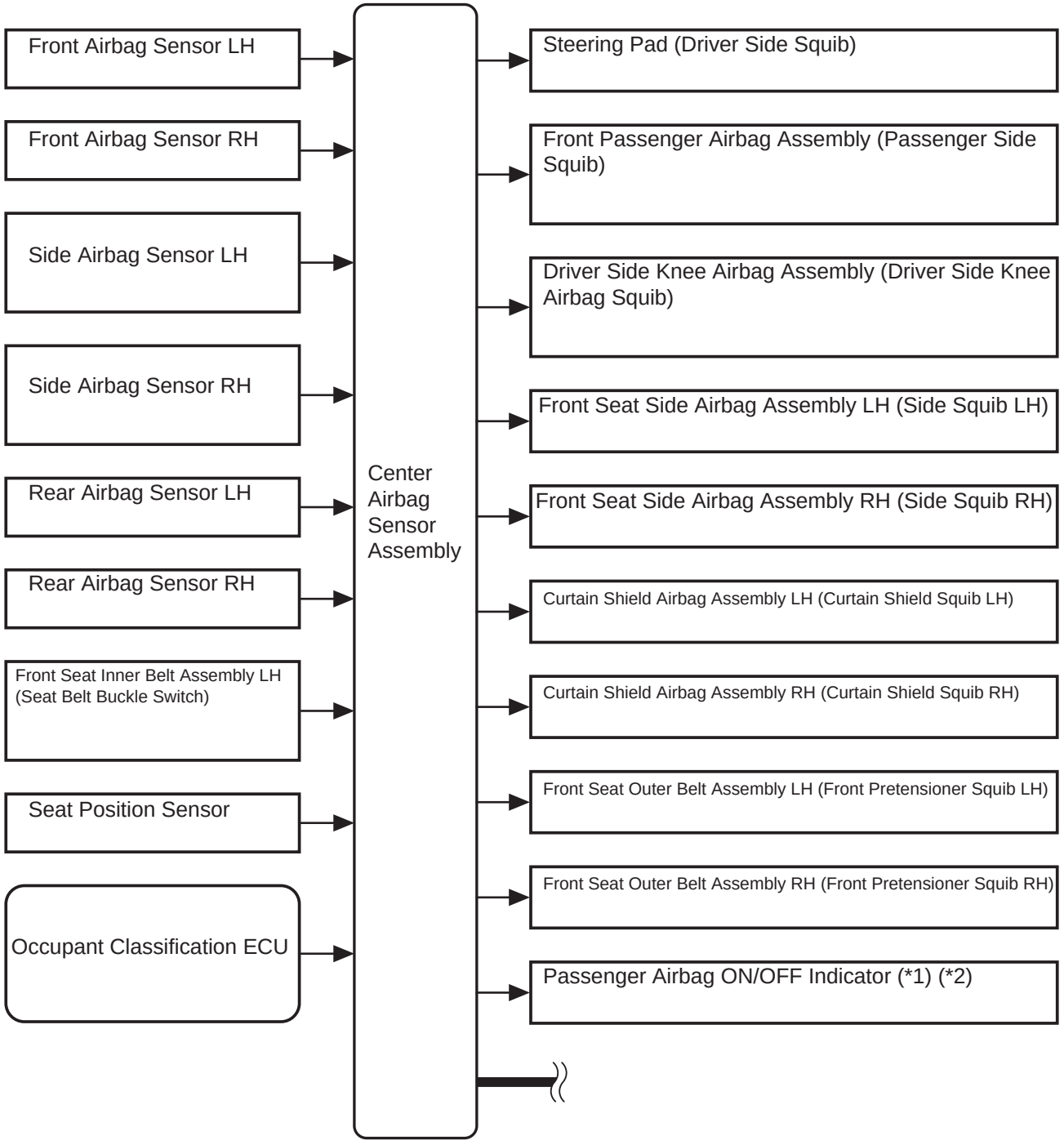
(a) Connect the connector as shown in the illustration (When locking, make sure that the outer returns to its original position and a click sound can be heard).
HINT:
When connecting, the outer will slide. Be sure not to hold the outer while connecting, as it may result in an insecure fit.


Outer
Outer
Connection is completed
H002768E02

PARTS LOCATION



SYSTEM DIAGRAM



: BEAN

*1: Center Cluster Integration Switch Assembly (w/o LEXUS Navigation System)

*2: Multi-display Assembly (w/ LEXUS Navigation System)

P

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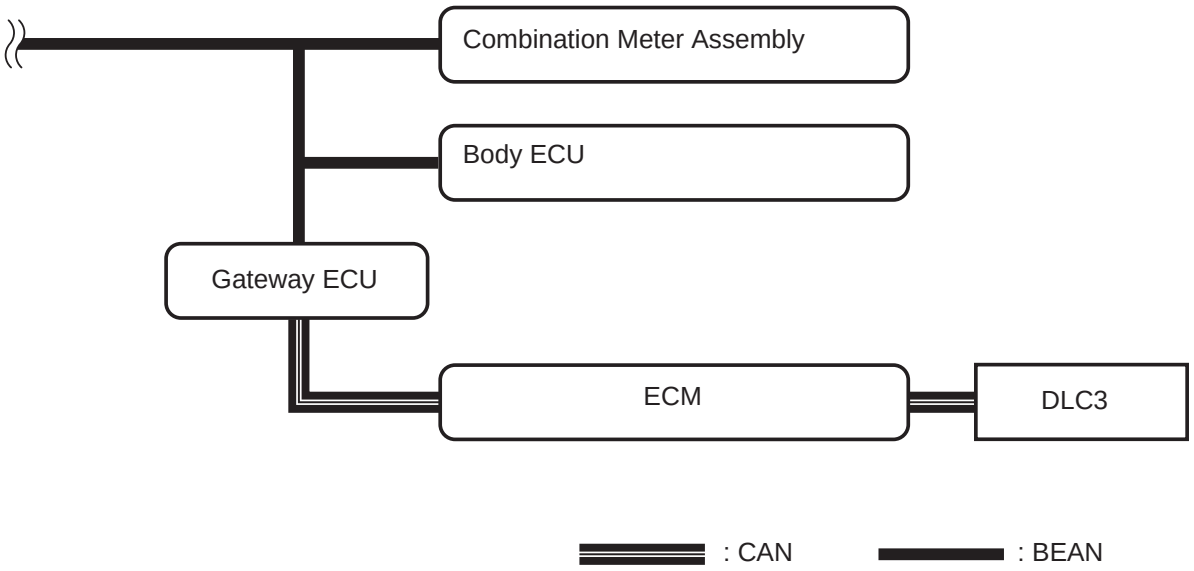
RS



Transmitting ECU (Transmitter)	Receiving ECU	Signals	Communication method
Combination Meter Assembly	Center Airbag Sensor Assembly	• Vehicle speed signal	BEAN
Center Airbag Sensor Assembly	Combination Meter Assembly	• Driver seat buckle switch signal • Passenger seat buckle switch signal • Diagnosis signal (DTC) • SRS warning light blink demand signal • SRS warning light ON demand signal • Passenger seat occupant detection signal	BEAN
Center Airbag Sensor Assembly	Body ECU	• Driver seat buckle switch signal	BEAN
ECM	Center Airbag Sensor Assembly	• E/G speed signal • Test mode signal • Throttle opening angle information signal • Stop signal • Shift position signal	CAN-BEAN

SYSTEM DESCRIPTION

1. GENERAL

(a) In conjunction with 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. This system is a 3-sensor type airbag system to detect the impact during a frontal collision using the center airbag sensor assembly 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 impact absorbing structure for a side collision, the front seat airbag and curtain shield airbag were designed to help reduce shock to the driver, front passenger, and rear outer passengers in the event of a side collision or rollover.

(d) RSCA (Roll Sensing of Curtain Shield Airbags) is used in order to deploy the curtain shield airbags and the seat belt pretensioner for the driver and front passenger, in the event that the vehicle rolls over.

(e) The 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 the rear airbag sensors have been installed at the bottom of the rear pillars respectively.

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

(g) The center airbag sensor assembly sends the airbag deployment signal to the ECM through BEAN (Body Electronics Area Network) and CAN (Controller Area Network) to operate the fuel pump control.

(h) The center airbag sensor assembly sends the airbag deployment signal to the body ECU via a discrete line to operate collision door lock release control.

2. CONSTRUCTION AND OPERATION

(a) FRONT AIRBAG SENSOR

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

(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 respectively.

(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 respectively.

(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 ASSEMBLY

(1) General

- The center airbag sensor assembly is installed on the center floor under the console box.
- The center airbag sensor assembly consists of the deceleration sensor, safing sensor, electronic safing sensor, ignition control circuit and diagnostic circuit.

- The center airbag sensor assembly receives signals from the deceleration sensor and safing sensor built into the center airbag sensor assembly and front airbag sensor. Then the center airbag sensor assembly determines whether or not the driver airbag, front passenger airbag, driver side knee airbag and front seat belt pretensioners should be activated, and diagnoses system malfunctions.
- The center airbag sensor assembly causes the front seat airbag and the curtain shield airbags to deploy when receiving signals from the side airbag sensor.
- The center airbag sensor assembly receives signals from the deceleration sensor and the electronic safing sensor built into the center airbag sensor assembly and the rear airbag sensor, and determines whether or not the side airbag, rear side airbag and curtain shield airbags should be activated, and diagnoses system malfunctions.
- The center airbag sensor assembly sends the airbag deployment signal to the ECM through BEAN and CAN to operate fuel pump control.
- The center airbag sensor assembly sends the airbag deployment signal to the body ECU through a discrete line to operate collision door lock release control.

(2) Deceleration sensor and ignition control circuit

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

(3) Safing sensor

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

(5) Backup power source
- The backup power source consists of a power supply capacitor and a DC-DC converter. If 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 combination meter assembly 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.

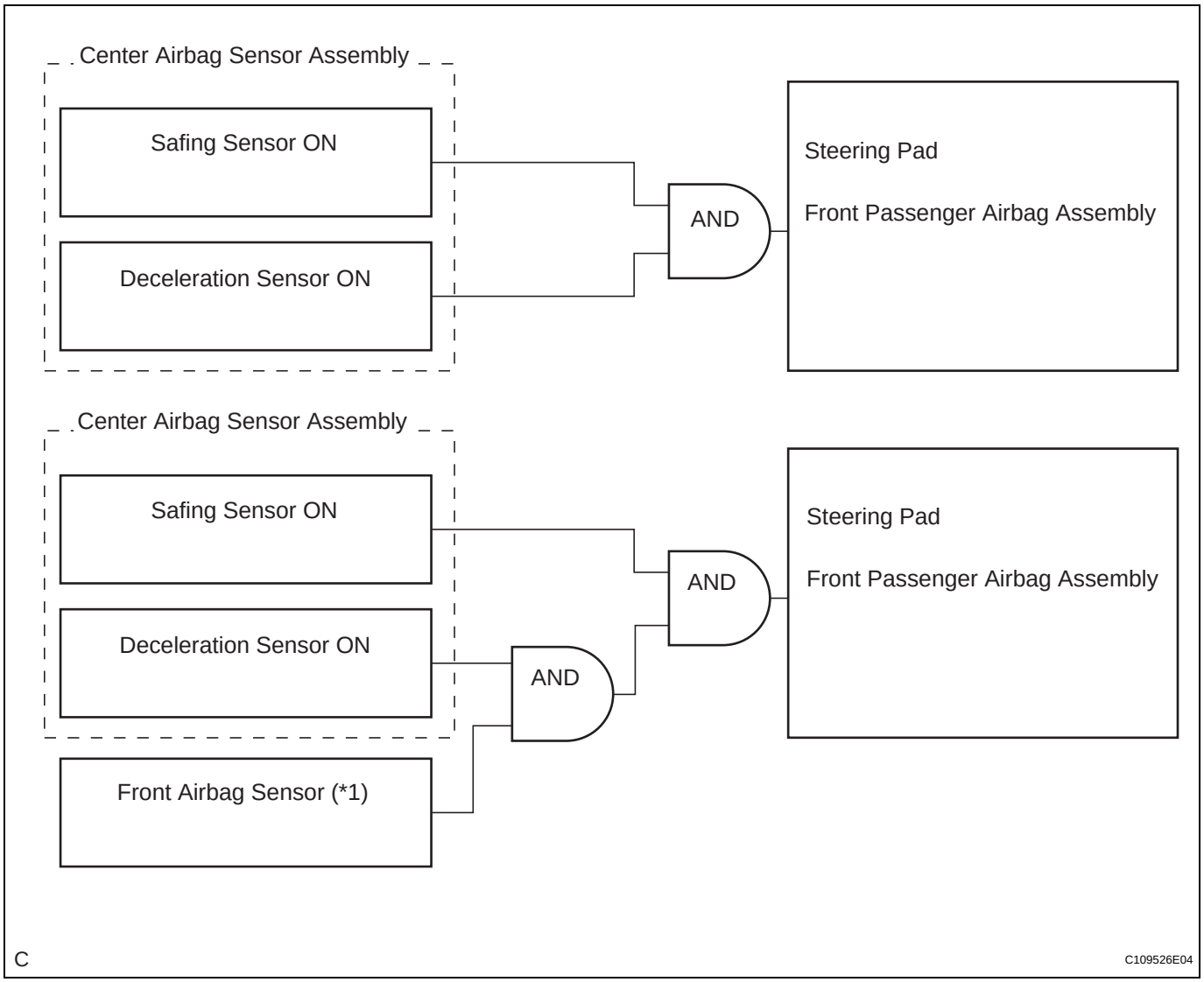
(e) SRS WARNING LIGHT

(1) The SRS warning light is located on the combination meter assembly. It comes on to inform the driver of system trouble when a malfunction is detected in self-diagnosis of the center airbag sensor assembly. Under normal operating conditions when the ignition switch is turned to the ON position, 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 assembly 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.

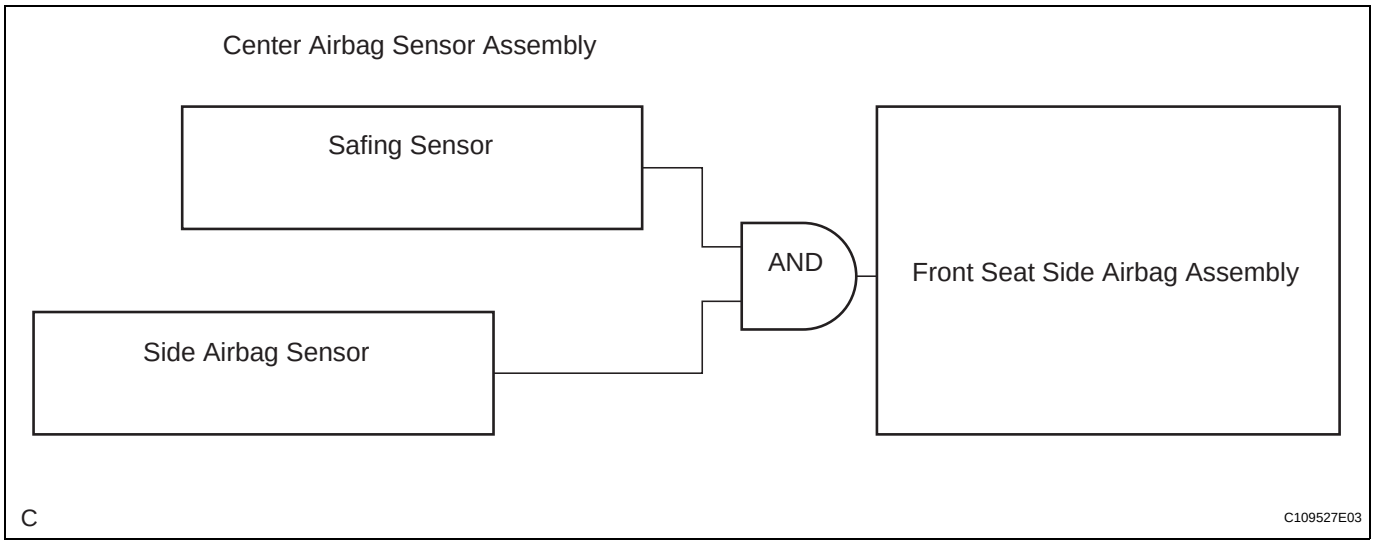
(a) The center airbag sensor assembly determines whether or not ignition is necessary based on signals from the deceleration sensor and the front airbag sensor (*1). If the safing sensor and deceleration sensor turn on simultaneously, current flows to the squibs to deploy the SRS as shown in the illustration below.



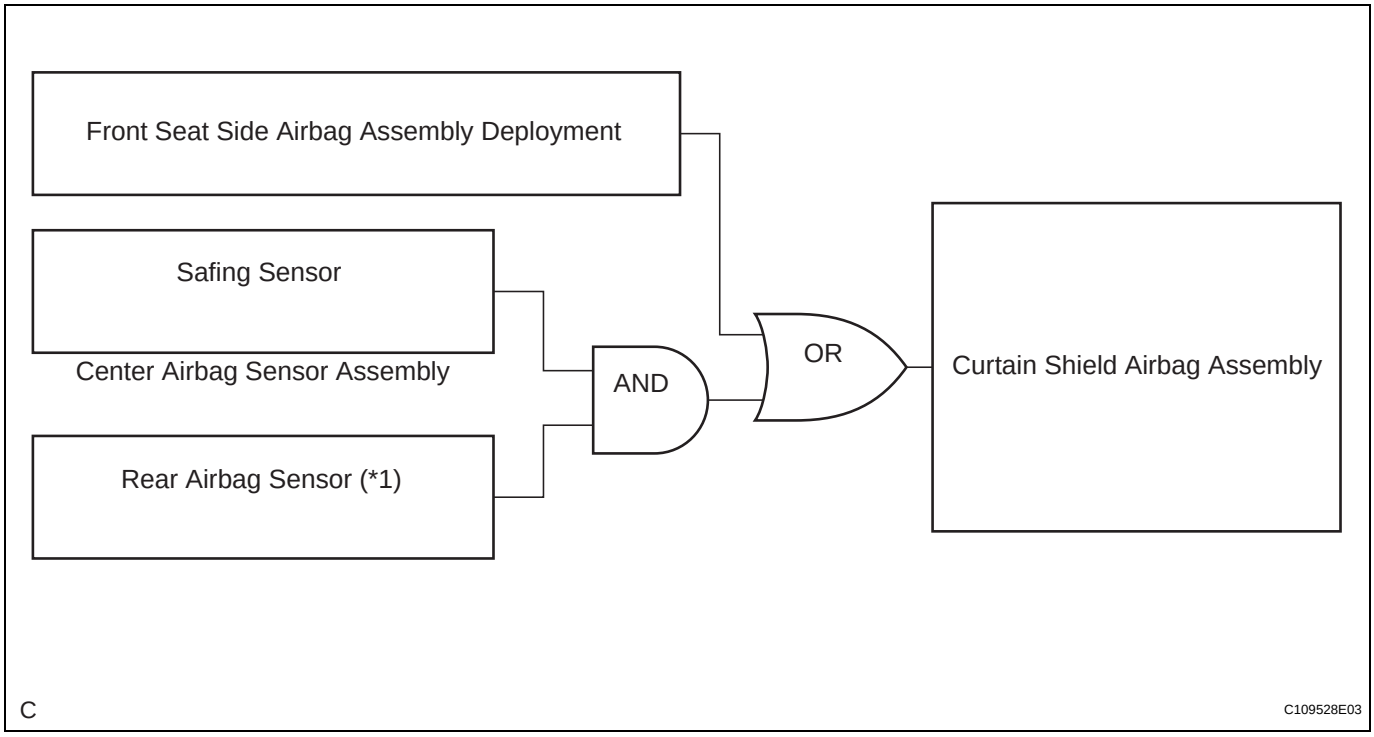
HINT:

*1: In case of a front 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 assembly determines whether or not ignition is necessary based on signals from the side airbag sensor. If the safing sensor and side airbag sensor turn on simultaneously, current flows to the squib to deploy the SRS as shown in the illustration below.

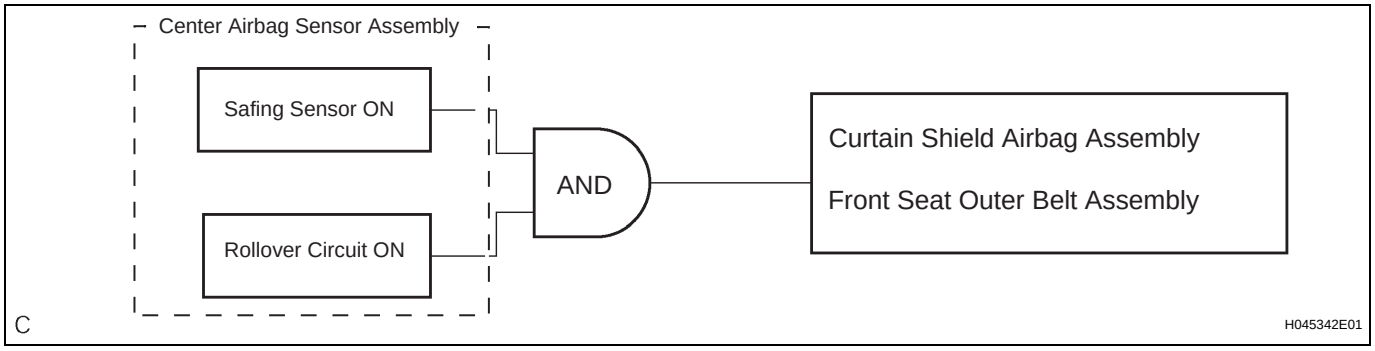


(c) The center airbag sensor assembly determines whether or not ignition is necessary based on signals from the rear airbag sensor. If the safing sensor and rear airbag sensor turn on simultaneously, current flows to the squib to deploy the SRS as shown in the illustration below (*1).



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

(d) The vehicle is equipped with the function to activate the SRS in case of vehicle rollover. A circuit to detect vehicle rollover is built into the center airbag sensor assembly. When the conditions for vehicle rollover are met, the SRS is activated as shown in the illustration below.



HOW TO PROCEED WITH TROUBLESHOOTING

The intelligent tester can be used in steps 2, 3, 5, 7, 9 and 10.

1	VEHICLE BROUGHT TO WORKSHOP

NEXT

2	CHECK MULTIPLEX COMMUNICATION SYSTEM

RS

(a) Check for DTC output.

- **DTC IS OUTPUT: CHECK MULTIPLEX COMMUNICATION CIRCUIT**
- **DTC IS NOT OUTPUT: Go to step 3**

3	CHECK CAN COMMUNICATION SYSTEM

(a) Check for DTC output.

- **DTC IS OUTPUT: CHECK CAN COMMUNICATION CIRCUIT**
- **DTC IS NOT OUTPUT: Go to step 4**

4	WARNING LIGHT CHECK

NEXT

5	CHECK DTC (Present and Past DTCs)

- **DTC IS OUTPUT (INCLUDING NORMAL SYSTEM CODE): Go to step 6**
- **DTC IS NOT OUTPUT: PROBLEM SYMPTOMS TABLE**

6	DTC CHART

NEXT

7	CIRCUIT INSPECTION

NEXT

8	REPAIR

NEXT

9	CLEAR DTC (Present and Past DTCs)

NEXT

10	CHECK DTC (Present and Past DTCs)

- DTC IS NOT OUTPUT: Go to step 11
- DTC IS OUTPUT: Go to step 6

11	CONFIRMATION TEST

NEXT

END

PROBLEM SYMPTOMS TABLE

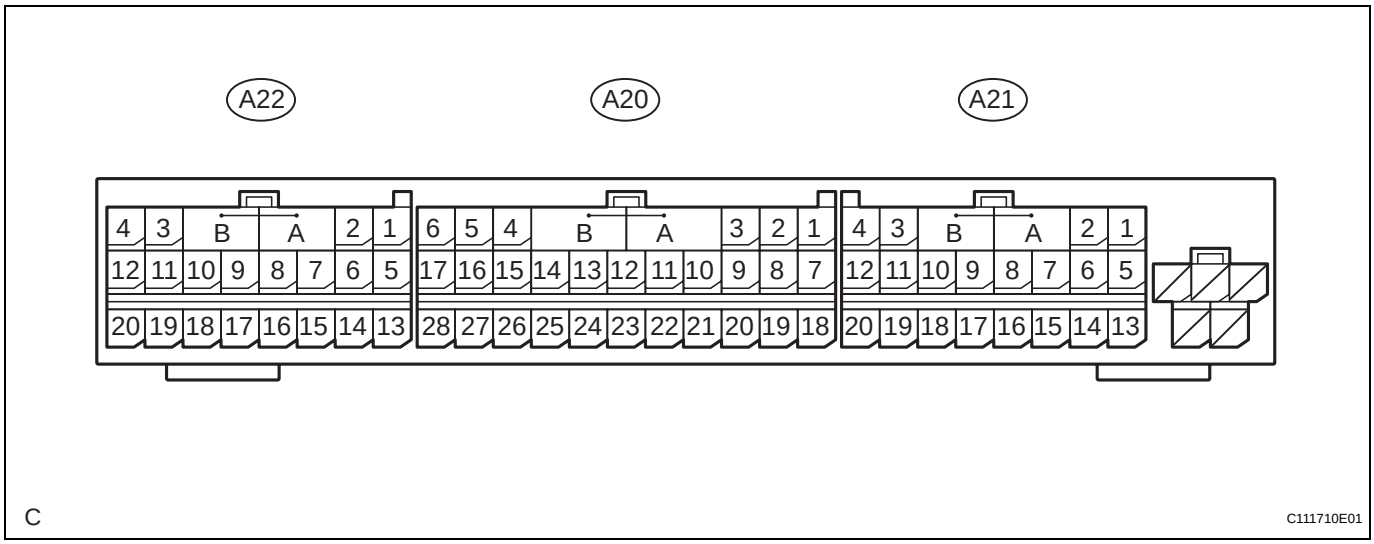
HINT:
Proceed with troubleshooting of each circuit in the table below.

AIRBAG SYSTEM

Symptom	Suspected area	See page
When the ignition switch is in the ON position, the SRS warning light sometimes comes on after approximately 6 seconds.	SRS Warning Light Remains ON	RS-290
SRS warning light always comes on even when DTC is not output.	SRS Warning Light Remains ON	RS-290
With the ignition switch is in the ON position, the SRS warning light does not come on.	SRS Warning Light does not Come ON	RS-292
Although the SRS warning light operates normal, DTC or a normal system code is not displayed.	Diagnosis Circuit	RS-32
Although terminals TC and CG are not connected, DTC or normal system code is displayed	Diagnosis Circuit	RS-32

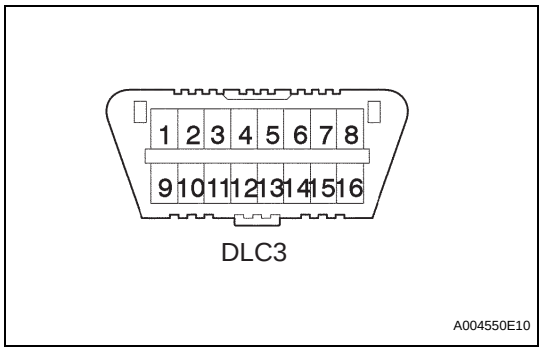
TERMINALS OF ECU

1. CENTER AIRBAG SENSOR ASSEMBLY



Terminal No.	Terminal Symbol	Terminal Description
A	-	Half Connection Detection Mechanism
B	-	Half Connection Detection Mechanism
A20-1	P-AB	Passenger Airbag ON/OFF Indicator
A20-4	GSW	Body ECU
A20-5	IG2	IGN Fuse
A20-7	P2-	Front Passenger Airbag Assembly (Passenger Side Squib 2nd Step)
A20-8	P2+	Front Passenger Airbag Assembly (Passenger Side Squib 2nd Step)
A20-9	+SR	Front Airbag Sensor RH
A20-10	P+	Front Passenger Airbag Assembly (Passenger Side Squib)
A20-11	P-	Front Passenger Airbag Assembly (Passenger Side Squib)
A20-12	SIL	DLC3
A20-13	D-	Steering Pad (Driver Side Squib)
A20-14	D+	Steering Pad (Driver Side Squib)
A20-15	+SL	Front Airbag Sensor LH
A20-16	D2+	Steering Pad (Driver Side Squib 2nd Step)
A20-17	D2-	Steering Pad (Driver Side Squib 2nd Step)
A20-20	-SR	Front Airbag Sensor RH
A20-22	MPX2	Combination Meter Assembly
A20-24	MPX1	Body ECU
A20-25	PAON	Passenger Airbag ON/OFF Indicator
A20-26	-SL	Front Airbag Sensor LH
A20-27	E1	Ground
A20-28	E2	Ground
A21-1	FSR+	Occupant Classification ECU
A21-2	FSR-	Occupant Classification ECU
A21-4	CSR-	Rear Airbag Sensor RH
A21-5	SFR+	Front Seat Airbag Assembly (Side Squib RH)
A21-6	SFR-	Front Seat Airbag Assembly (Side Squib RH)

Terminal No.	Terminal Symbol	Terminal Description
A21-7	ICR-	Curtain Shield Airbag Assembly RH (Curtain Shield Squib RH)
A21-8	ICR+	Curtain Shield Airbag Assembly RH (Curtain Shield Squib RH
A21-9	PR+	Front Seat Outer Belt Assembly RH (Front Pretensioner Squib RH)
A21-10	PR-	Front Seat Outer Belt Assembly RH (Front Pretensioner Squib RH)
A21-13	SSR-	Side Airbag Sensor RH
A21-15	ESR	Side Airbag Sensor RH
A21-16	SSR+	Side Airbag Sensor RH
A21-17	VUPR	Side Airbag Sensor RH
A21-18	CSR+	Rear Airbag Sensor RH
A21-19	VUCR	Rear Airbag Sensor RH
A21-20	ESCR	Rear Airbag Sensor RH
A22-1	CSL-	Rear Airbag Sensor LH
A22-2	LBE-	Front Seat Inner Belt Assembly LH (Seat Belt Buckle Switch LH)
A22-3	LSP-	Seat Position Airbag Sensor
A22-4	LSP+	Seat Position Airbag Sensor
A22-5	DK+	Driver Side Knee Airbag Assembly (Driver Side Knee Airbag Squib)
A22-6	DK-	Driver Side Knee Airbag Assembly (Driver Side Knee Airbag Squib)
A22-7	PL-	Front Seat Outer Belt Assembly LH (Front Pretensioner Squib LH)
A22-8	PL+	Front Seat Outer Belt Assembly LH (Front Pretensioner Squib LH)
A22-9	ICL+	Curtain Shield Airbag Assembly LH (Curtain Shield Squib LH)
A22-10	ICL-	Curtain Shield Airbag Assembly LH (Curtain Shield Squib LH)
A22-11	SFL-	Front Seat Airbag Assembly (Side Squib LH)
A22-12	SFL+	Front Seat Airbag Assembly (Side Squib LH)
A22-13	ESCL	Rear Airbag Sensor LH
A22-14	VUCL	Rear Airbag Sensor LH
A22-15	CSL+	Rear Airbag Sensor LH
A22-16	VUPL	Side Airbag Sensor LH
A22-17	SSL+	Side Airbag Sensor LH
A22-18	ESL	Side Airbag Sensor LH
A22-19	LBE+	Front Seat Inner Belt Assembly LH (Seat Belt Buckle Switch LH)
A22-20	SSL-	Side Airbag Sensor LH



DIAGNOSIS SYSTEM

1. CHECK DLC3

(a) The multiplex network body ECU uses ISO 9141-2 BEAN for its communication protocol. The terminal arrangement of the DLC3 complies with SAE J1962 and matches the ISO 9141-2 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 67 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	3 MΩ 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	3 MΩ or higher

RS

HINT:

If the display shows a communication error message when connecting the cable of the intelligent tester to the DLC3, turning the ignition switch to the ON position and operating the intelligent tester, there is a problem on the vehicle side or tool side.

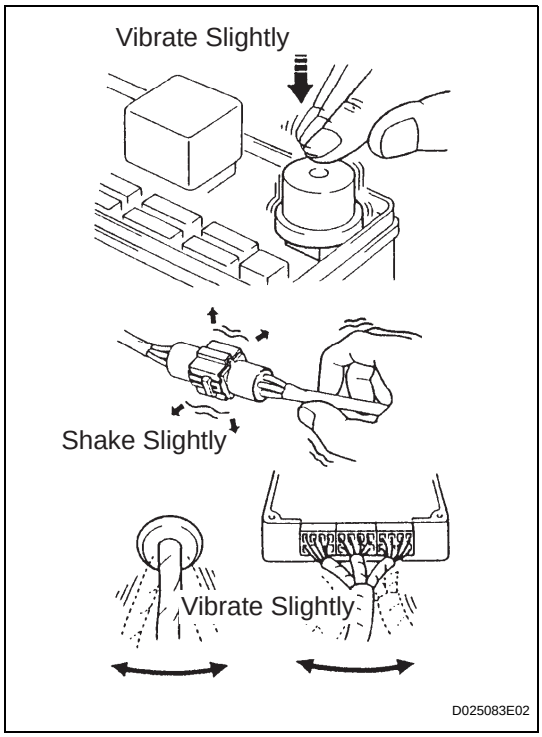
- If communication is normal when the tool is connected to another vehicle, inspect the DLC3 on the original vehicle.
- If communication is still not possible when the tool is connected to another vehicle, the problem is probably in the tool itself. Consult the Service Department listed in the tool's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

2. 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. Then the same or similar conditions and environment in which the problem occurred in the customer's vehicle should be simulated. No matter how experienced or skilled a technician may be, if he proceeds to troubleshoot without confirming the problem symptoms, he will likely overlook something important and make a wrong guess at some points in the repair operation.

This leads to a standstill in troubleshooting.



(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 to the ON position).
(1) Slightly vibrate the part of the sensor considered to be 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.

3. FUNCTION OF SRS WARNING LIGHT

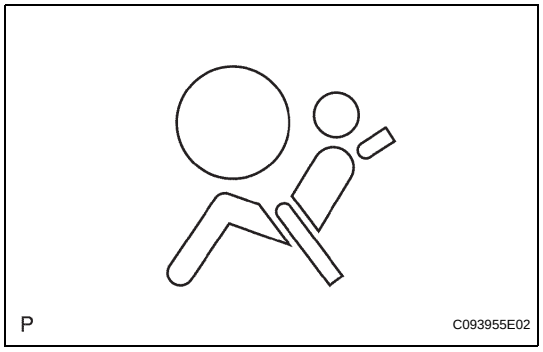
(a) Primary check.
(1) Turn the ignition switch to the LOCK position. After 2 seconds or more, turn the ignition switch to the ON position. The SRS warning light comes on for approximately 6 seconds and the diagnosis of the SRS airbag system (including the seat belt pretensioner and front passenger occupant classification system) is performed.
HINT:
If trouble is detected during the primary check, the SRS warning light remains on even after the primary check period (for approximately 6 seconds) has elapsed.

(b) Constant check.
(1) After the primary check, the center airbag sensor assembly constantly monitors the airbag system for trouble.
HINT:
If trouble is detected during the constant check, the center airbag sensor assembly functions as follows:
- The SRS warning light comes on.
- The SRS warning light goes off, and then comes on. 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 for the primary check period (for approximately 6 seconds after the ignition switch is turned to the ON position).

(2) When the airbag system has trouble:
- The SRS warning light remains on even 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 does not come on when turning the Ignition switch from the LOCK to the ON position.

HINT:
The center airbag sensor assembly keeps the SRS warning light on if the airbag has been deployed.



4. SRS WARNING LIGHT CHECK

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

(b) Check that the SRS warning light goes off approximately 6 seconds after the ignition switch is turned to the ON position (constant check).
HINT:
When any of the following symptoms occur, refer to the "Problem Symptoms Table" (See page RS-23).
- The SRS warning light comes on occasionally, after the primary check period has elapsed.
- The SRS warning light comes on, but a DTC is not output.
- When the ignition switch is turned to ON position, the SRS warning light does not come on.

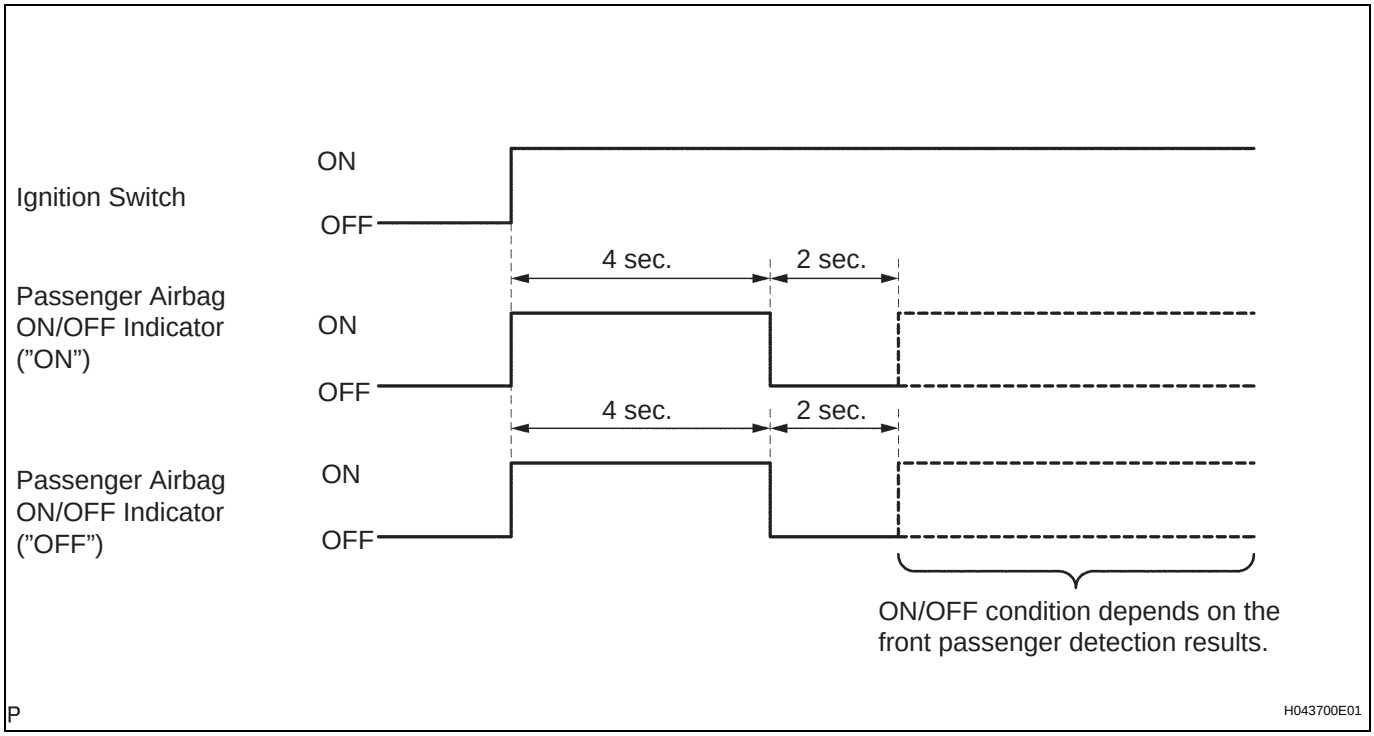
5. FUNCTION OF PASSENGER AIRBAG ON/OFF INDICATOR

(a) Initial check
(1) Turn the ignition switch to the ON position.
(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 to the ON position, the passenger airbag ON/OFF indicator will be ON/OFF depending on the conditions listed below.

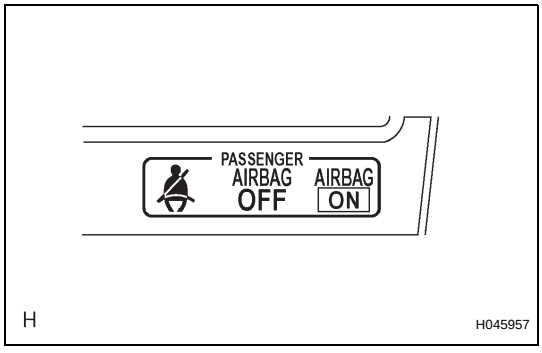
Condition	"ON" indicator	"OFF" indicator
Vacant	OFF	OFF
Adult is seated.	ON	OFF
Child is seated.	OFF	ON
Child restraint system is set.	OFF	ON
Front passenger occupant classification failure	OFF	ON

HINT:

- The passenger airbag ON/OFF indicator is based on the timing chart below in order to check the indicator light circuit.



- When the front passenger occupant classification system has trouble, both the SRS warning light and the passenger airbag ON/OFF indicator come on. In this case, check the DTCs in the "AIRBAG SYSTEM" first. Then troubleshoot the occupant classification system if DTC B1150/23 is detected and troubleshoot the passenger airbag ON/OFF indicator if DTC B1152/28 is detected.



6. CHECK PASSENGER AIRBAG ON/OFF INDICATOR CHECK

(a) Turn the ignition switch to the ON position.

(b) Check that the passenger airbag ON/OFF indicator ("ON" and "OFF") comes on for approximately 4 seconds, then goes off for approximately 2 seconds.

HINT:

Refer to the table in the previous step regarding the passenger airbag ON/ OFF indicator when the ignition switch is turned to the ON position and approximately 6 seconds pass.

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 assembly 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.

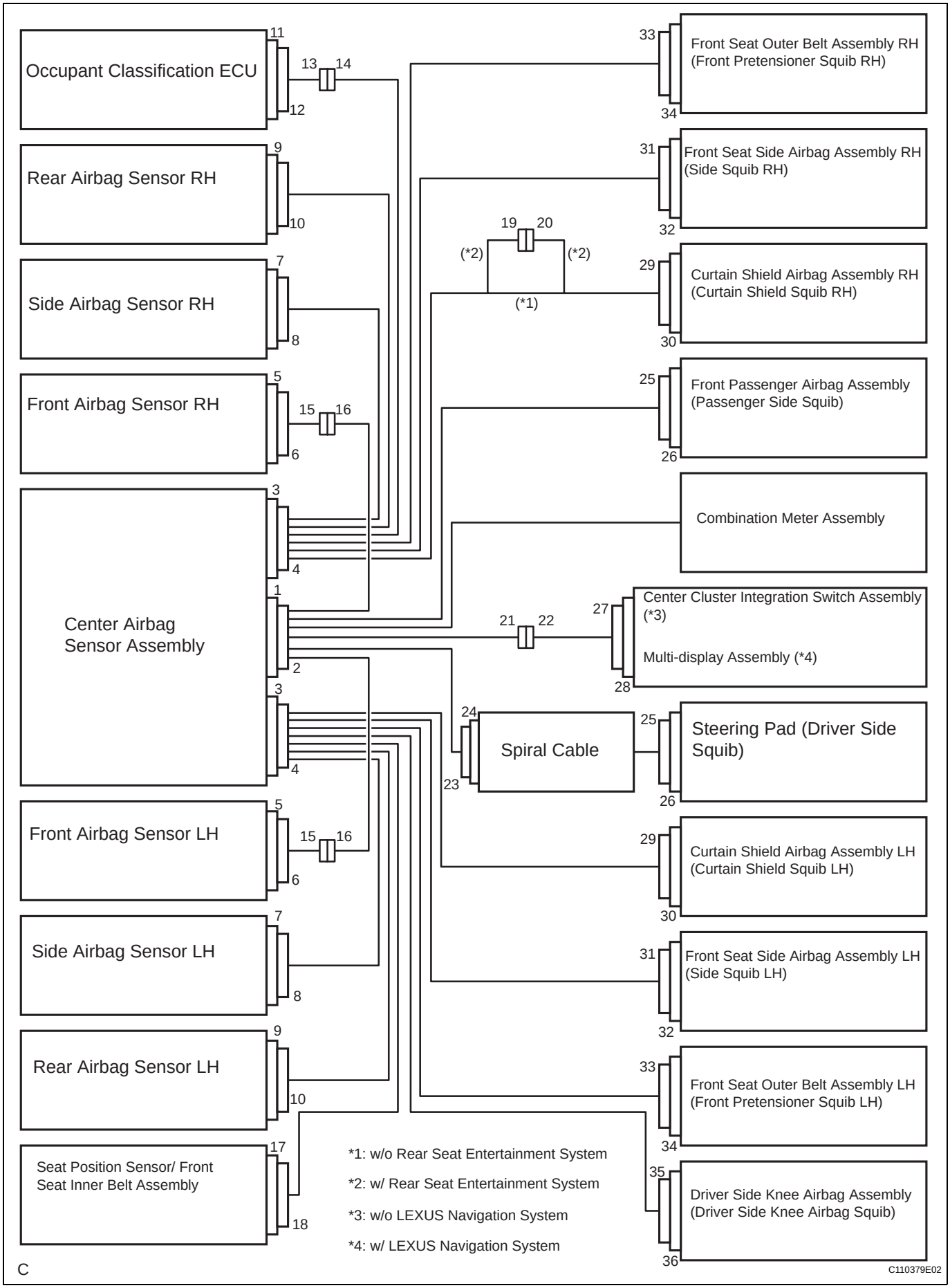
(2) Refer to the illustrations on the next 2 pages for connectors used in the activation prevention mechanism and its release method.

CAUTION:

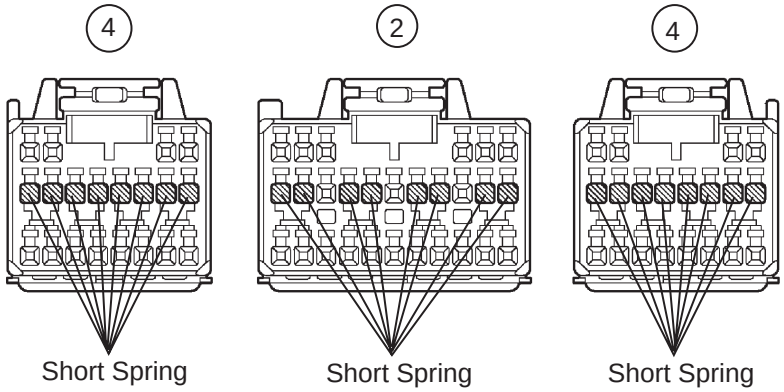
Never release the activation prevention mechanism on the squib connector even when inspecting with the squib disconnected.

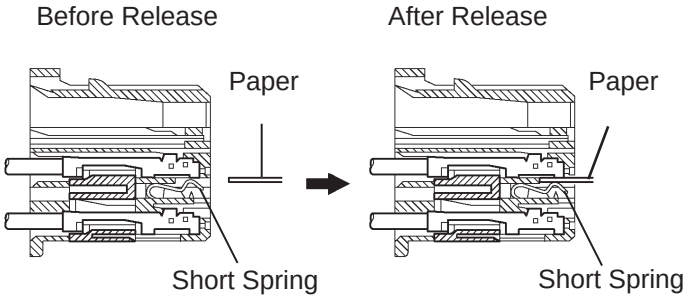
NOTICE:

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

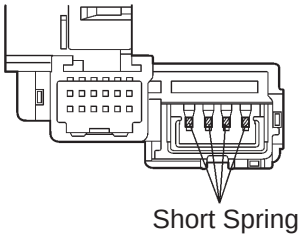

Occupant Classification ECU
11
13
14
12
Rear Airbag Sensor RH
9
10
Side Airbag Sensor RH
7
8
Front Airbag Sensor RH
5
15
16
6
Center Airbag Sensor Assembly
3
4
1
2
3
4
Front Airbag Sensor LH
5
15
16
6
Side Airbag Sensor LH
7
8
Rear Airbag Sensor LH
9
10
Seat Position Sensor/ Front Seat Inner Belt Assembly
17
18
19
20
(*2)
(*2)
(*1)
21
22
24
23
Spiral Cable
27
28
Center Cluster Integration Switch Assembly (*3)
Multi-display Assembly (*4)
33
34
Front Seat Outer Belt Assembly RH (Front Pretensioner Squib RH)
31
32
Front Seat Side Airbag Assembly RH (Side Squib RH)
29
30
Curtain Shield Airbag Assembly RH (Curtain Shield Squib RH)
25
26
Front Passenger Airbag Assembly (Passenger Side Squib)
Combination Meter Assembly
25
26
Steering Pad (Driver Side Squib)
29
30
Curtain Shield Airbag Assembly LH (Curtain Shield Squib LH)
31
32
Front Seat Side Airbag Assembly LH (Side Squib LH)
33
34
Front Seat Outer Belt Assembly LH (Front Pretensioner Squib LH)
35
36
Driver Side Knee Airbag Assembly (Driver Side Knee Airbag Squib)
*1: w/o Rear Seat Entertainment System
*2: w/ Rear Seat Entertainment System
*3: w/o LEXUS Navigation System
*4: w/ LEXUS Navigation System
C
C110379E02

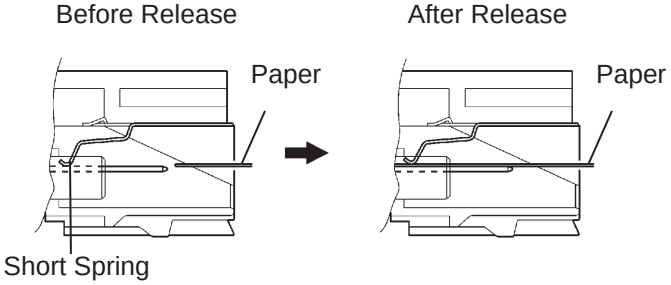
Center Airbag Sensor Assembly



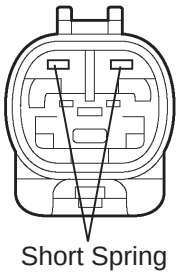


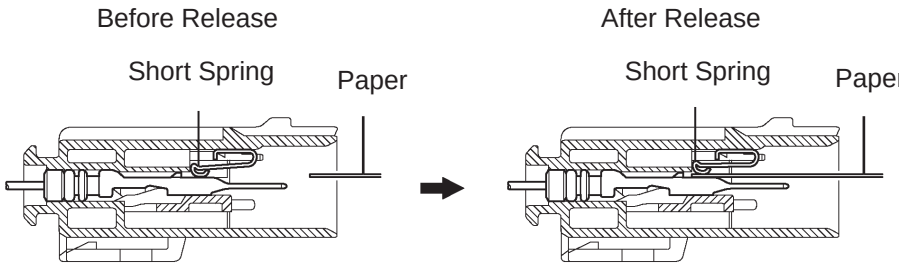
Connector 24





Connector 19 31





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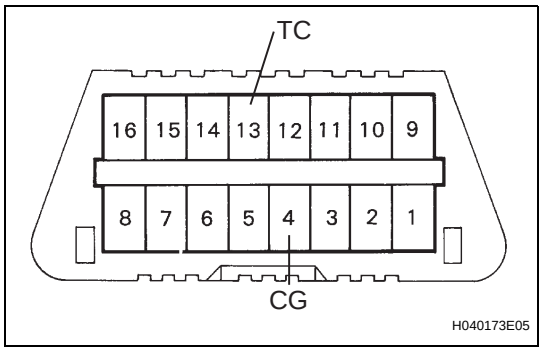


DTC CHECK / CLEAR

1. DTC CHECK (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 TC and 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 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.

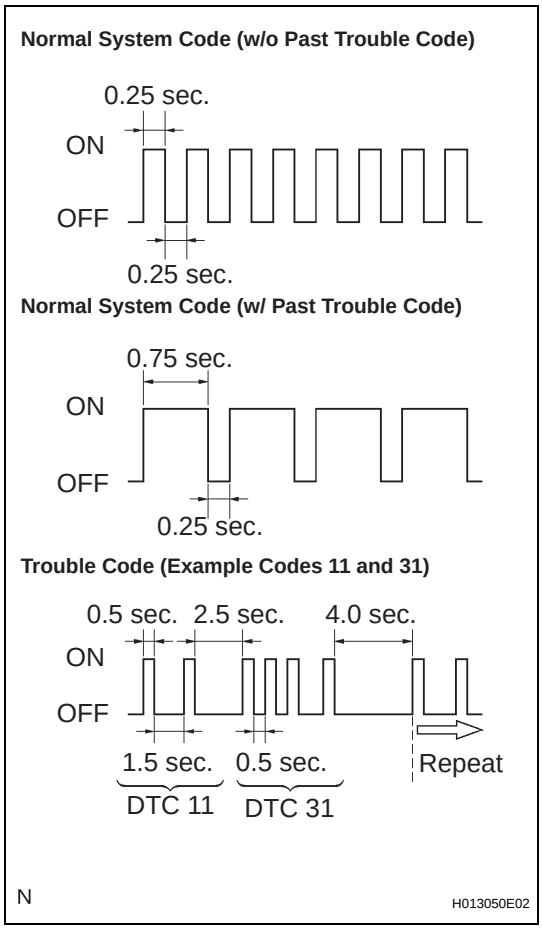
(1) Read the blinking patterns of the DTCs. As examples, the blinking patterns for the normal system code and trouble codes 11 and 31 are shown in the illustration.

- Normal system code indication (w/o past trouble code)
  The light blinks twice per second.
- Normal system code indication (w/ past trouble code)
  When the past trouble code is stored in the center airbag sensor assembly, the light blinks only once per second.
- Trouble code indication
  The first two blinkings indicate the first DTC. The second blinking occurs after a 1.5-second pause.

If there are more than 1 code, there will be a 2.5-second pause between each code. After all codes are shown, there will be a 4.0-second pause, and they all will be repeated.

HINT:

- If 2 or more malfunctions are found, the indication begins with the smaller numbered code.
- If DTCs are indicated without connecting the terminals, proceed to the "Diagnosis Circuit" (See page RS-292).



2. DTC CLEAR (USING SST CHECK WIRE)

(a) Clear the DTCs.

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

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

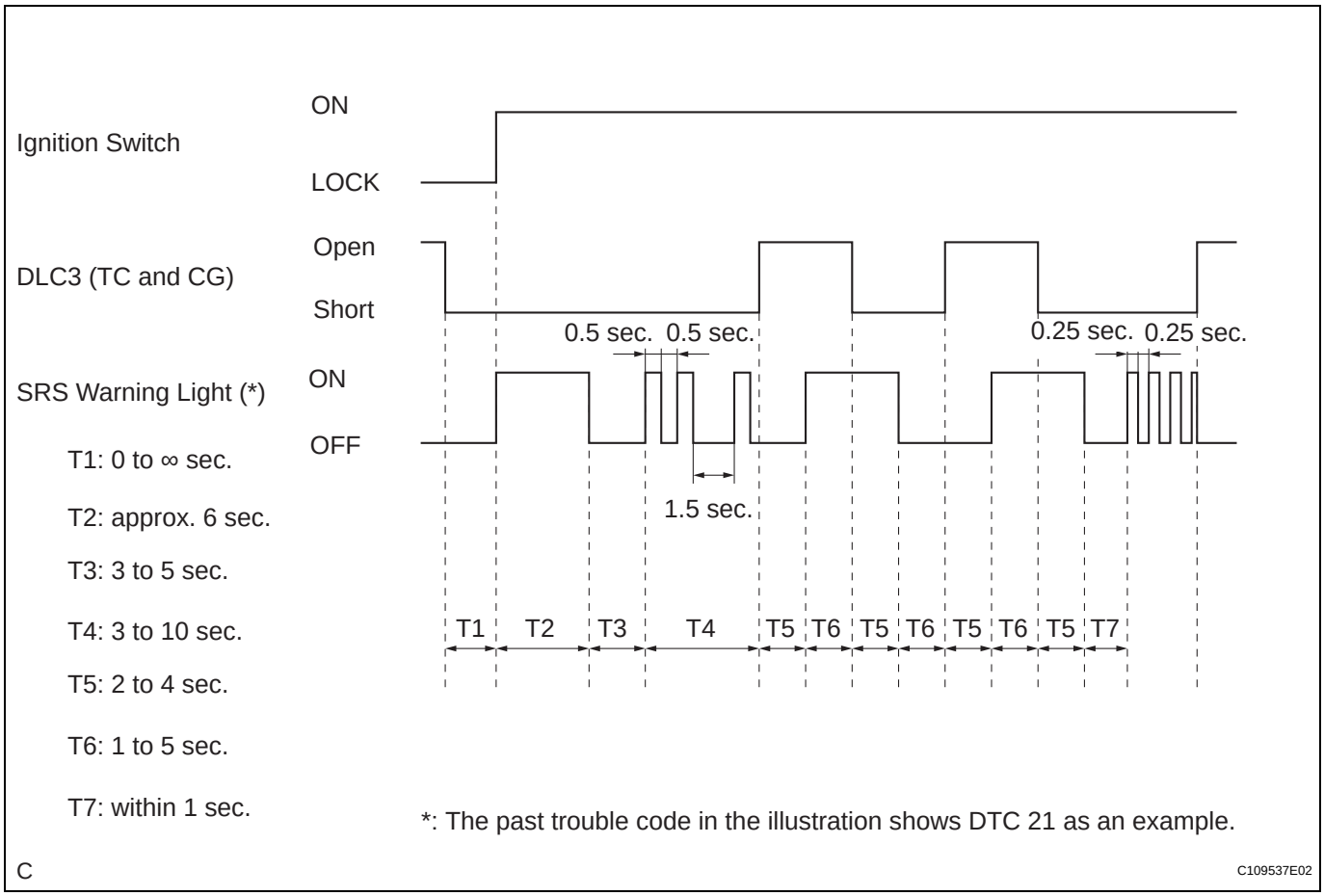
(3) Disconnect terminal TC of the DLC3 within 3 to 10 seconds after the DTCs are output, and check if the SRS warning light comes on after 3 seconds.

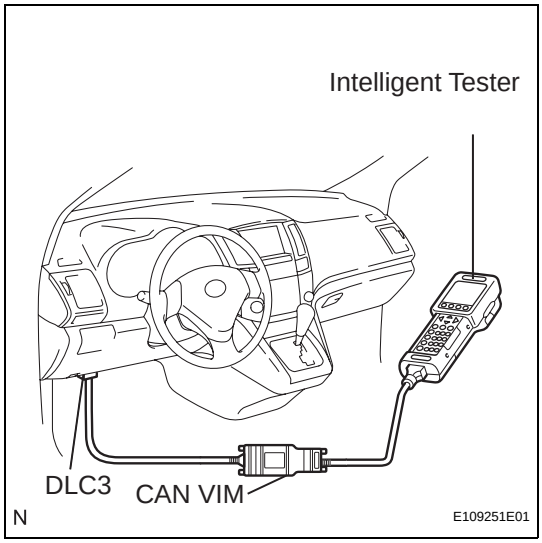
(4) Within 2 to 4 seconds after the SRS warning light comes on, connect terminals TC and CG of the DLC3.

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

(6) The SRS warning light comes on again within 2 to 4 seconds after disconnecting terminal TC. Then, reconnect terminals TC and CG of the DLC3 within 2 to 4 seconds after the SRS warning light comes on.

(7) Check if the SRS warning light goes off within 2 to 4 seconds after connecting terminals TC and CG of the DLC3. 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.





3. DTC CHECK

(a) Check the DTCs.
(1) Connect the intelligent tester to the DLC3.
(2) Turn the ignition switch to the ON position.
(3) Check the DTCs by following the prompts on the tester screen.
HINT:
Refer to the intelligent tester operator's manual for further details.

(b) Clear the DTCs.
(1) Connect the intelligent tester to the DLC3.
(2) Turn the ignition switch to the ON position.
(3) Clear the DTCs by following the prompts on the tester screen.
HINT:
Refer to the intelligent tester operator's manual for further details.

DIAGNOSTIC TROUBLE CODE CHART

1. DTCS FOR SUPPLEMENTAL RESTRAINT SYSTEM

If a malfunction 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).

HINT:

- When the SRS warning light remains on and the DTC output is the normal system code, a voltage source drop is likely to occur. This malfunction is not stored in memory by the center airbag sensor assembly. If the power source voltage returns to normal, the SRS warning light will automatically go off.
- When 2 or more codes are indicated, the code with the lower number appears first.
- If a code is not listed on the display chart, the center airbag sensor assembly may have failed.
- In the case of any malfunction concerning an open circuit, short to ground, or short to B+ due to a squib, other trouble codes may not be detected. In this case, repair the malfunction currently indicated and then perform malfunction diagnosis again.
- When DTC B1150/23 is detected as a result of troubleshooting for the Supplemental Restraint System, perform troubleshooting for the occupant detection system as shown in the chart below.

AIRBAG SYSTEM

DTC No.	Detection Item	Trouble Area	SRS Warning Light	See page
B0100/13	Short in Driver Side Squib Circuit	1. Steering pad (Driver side squib) 2. Spiral cable 3. Center airbag sensor assembly 4. Instrument panel wire	ON	RS-41
B0101/14	Open in Driver Side Squib Circuit	1. Steering pad (Driver side squib) 2. Spiral cable 3. Center airbag sensor assembly 4. Instrument panel wire	ON	RS-46
B0102/11	Short to GND in Driver Side Squib Circuit	1. Steering pad (Driver side squib) 2. Spiral cable 3. Center airbag sensor assembly 4. Instrument panel wire	ON	RS-50
B0103/12	Short to B+ in Driver Side Squib Circuit	1. Steering pad (Driver side squib) 2. Spiral cable 3. Center airbag sensor assembly 4. Instrument panel wire	ON	RS-54
B0105/53	Short in Front Passenger Side Squib Circuit	1. Front passenger airbag assembly (Front passenger side squib) 2. Center airbag sensor assembly 3. Instrument panel wire	ON	RS-58

DTC No.	Detection Item	Trouble Area	SRS Warning Light	See page
B0106/54	Open in Front Passenger Side Squib Circuit	1. Front passenger airbag assembly (Front passenger side squib) 2. Center airbag sensor assembly 3. Instrument panel wire	ON	RS-62
B0107/51	Short to GND in Front Passenger Side Squib Circuit	1. Front passenger airbag assembly (Front passenger side squib) 2. Center airbag sensor assembly 3. Instrument panel wire	ON	RS-65
B0108/52	Short to B+ in Front Passenger Side Squib Circuit	1. Front passenger airbag assembly (Front passenger side squib) 2. Center airbag sensor assembly 3. Instrument panel wire	ON	RS-68
B0110/43	Short in Side Squib RH Circuit	1. Front seat airbag assembly RH (Side squib RH) 2. Center airbag sensor assembly 3. Floor wire	Blink	RS-71
B0111/44	Open in Side Squib RH Circuit	1. Front seat airbag assembly RH (Side squib RH) 2. Center airbag sensor assembly 3. Floor wire	Blink	RS-74
B0112/41	Short to GND in Side Squib RH Circuit	1. Front seat airbag assembly RH (Side squib RH) 2. Center airbag sensor assembly 3. Floor wire	Blink	RS-77
B0113/42	Short to B+ in Side Squib RH Circuit	1. Front seat airbag assembly RH (Side squib RH) 2. Center airbag sensor assembly 3. Floor wire	Blink	RS-80
B0115/47	Short in Side Squib LH Circuit	1. Front seat airbag assembly LH (Side squib LH) 2. Center airbag sensor assembly 3. Floor wire No.2	Blink	RS-83
B0116/48	Open in Side Squib LH Circuit	1. Front seat airbag assembly LH (Side squib LH) 2. Center airbag sensor assembly 3. Floor wire No.2	Blink	RS-86
B0117/45	Short to GND in Side Squib LH Circuit	1. Front seat airbag assembly LH (Side squib LH) 2. Center airbag sensor assembly 3. Floor wire No.2	Blink	RS-89

DTC No.	Detection Item	Trouble Area	SRS Warning Light	See page
B0118/46	Short to B+ in Side Squib LH Circuit	1. Front seat airbag assembly LH (Side squib LH) 2. Center airbag sensor assembly 3. Floor wire No.2	Blink	RS-92
B0126/27	Seat Belt Buckle Switch LH Circuit Malfunction	1. Front seat inner belt assembly LH (Seat belt buckle switch LH) 2. Center airbag sensor assembly 3. Floor wire No.2	ON	RS-95
B0130/63	Short in Front Pretensioner Squib RH Circuit	1. Front seat outer belt assembly RH (Seat belt buckle switch RH) 2. Center airbag sensor assembly 3. Floor wire	Blink	RS-100
B0131/64	Open in Front Pretensioner Squib RH Circuit	1. Front seat outer belt assembly RH (Seat belt buckle switch RH) 2. Center airbag sensor assembly 3. Floor wire	Blink	RS-104
B0132/61	Short to GND in Front Pretensioner Squib RH Circuit	1. Front seat outer belt assembly RH (Seat belt buckle switch RH) 2. Center airbag sensor assembly 3. Floor wire	Blink	RS-107
B0133/62	Short to B+ in Front Pretensioner Squib RH Circuit	1. Front seat outer belt assembly RH (Seat belt buckle switch RH) 2. Center airbag sensor assembly 3. Floor wire	Blink	RS-110
B0135/73	Short in Front Pretensioner Squib LH Circuit	1. Front seat outer belt assembly LH (Seat belt buckle switch LH) 2. Center airbag sensor assembly 3. Floor wire No.2	Blink	RS-113
B0136/74	Open in Front Pretensioner Squib LH Circuit	1. Front seat outer belt assembly LH (Seat belt buckle switch LH) 2. Center airbag sensor assembly 3. Floor wire No.2	Blink	RS-117
B0137/71	Short to GND in Front Pretensioner Squib LH Circuit	1. Front seat outer belt assembly LH (Seat belt buckle switch LH) 2. Center airbag sensor assembly 3. Floor wire No.2	Blink	RS-120
B0138/72	Short to B+ in Front Pretensioner Squib LH Circuit	1. Front seat outer belt assembly LH (Seat belt buckle switch LH) 2. Center airbag sensor assembly 3. Floor wire No.2	Blink	RS-123
B1100/31	Center Airbag Sensor Assembly Malfunction	1. Center airbag sensor assembly 2. Engine room main wire 3. Instrument panel wire	ON	RS-126

DTC No.	Detection Item	Trouble Area	SRS Warning Light	See page
B1135/24	Half Connection in Center Airbag Sensor Assembly Connectors	1. Electrical connection check mechanism 2. Center airbag sensor assembly	ON	RS-136
B1140/32	Side Airbag Sensor Assembly RH Circuit Malfunction	1. Side airbag sensor RH 2. Center airbag sensor assembly 3. Floor wire	Blink	RS-138
B1141/33	Side Airbag Sensor Assembly LH Circuit Malfunction	1. Side airbag sensor LH 2. Center airbag sensor assembly 3. Floor wire No.2	Blink	RS-143
B1148/36	Front Airbag Sensor RH Circuit Malfunction	1. Front airbag sensor RH 2. Center airbag sensor assembly 3. Engine room main wire 4. Instrument panel wire	ON	RS-148
B1149/37	Front Airbag Sensor LH Circuit Malfunction	1. Front airbag sensor LH 2. Center airbag sensor assembly 3. Engine room main wire 4. Instrument panel wire	ON	RS-152
B1150/23	Occupant Classification System Malfunction	1. Occupant classification ECU 2. Center airbag sensor assembly 3. Floor wire 4. Front seat wire RH	ON	RS-156
B1152/28	Passenger Airbag ON/OFF Indicator Circuit Malfunction	1. Center cluster integration switch assembly (w/o LEXUS Navigation system) 2. Multi-display assembly (w/ LEXUS Navigation system) 3. Center airbag sensor assembly 4. Instrument panel wire 5. Instrument panel wire No.2	ON	RS-164
B1153/25	Seat Position Airbag Sensor Circuit Malfunction	1. Seat position sensor 2. Center airbag sensor assembly 3. Floor wire No.2	ON	RS-184
B1154/38	Rear Airbag Sensor RH Circuit Malfunction	1. Rear airbag sensor RH 2. Center airbag sensor assembly 3. Floor wire	Blink	RS-189
B1155/39	Rear Airbag Sensor LH Circuit Malfunction	1. Rear airbag sensor LH 2. Center airbag sensor assembly 3. Floor wire No.2	Blink	RS-194
B1160/83	Short in Curtain Shield Squib RH Circuit	1. Curtain shield airbag assembly RH (Curtain shield squib RH) 2. Center airbag sensor assembly 3. Floor wire 4. Roof wire No.2	Blink	RS-199

DTC No.	Detection Item	Trouble Area	SRS Warning Light	See page
B1161/84	Open in Curtain Shield Squib RH Circuit	1. Curtain shield airbag assembly RH (Curtain shield squib RH) 2. Center airbag sensor assembly 3. Floor wire 4. Roof wire No.2	Blink	RS-207
B1162/81	Short to GND in Curtain Shield Squib RH Circuit	1. Curtain shield airbag assembly RH (Curtain shield squib RH) 2. Center airbag sensor assembly 3. Floor wire 4. Roof wire No.2	Blink	RS-214
B1163/82	Short to B+ in Curtain Shield Squib RH Circuit	1. Curtain shield airbag assembly RH (Curtain shield squib RH) 2. Center airbag sensor assembly 3. Floor wire 4. Roof wire No.2	Blink	RS-221
B1165/87	Short in Curtain Shield Squib LH Circuit	1. Curtain shield airbag assembly LH (Curtain shield squib LH) 2. Center airbag sensor assembly 3. Floor wire No.2	Blink	RS-228
B1166/88	Open in Curtain Shield Squib LH Circuit	1. Curtain shield airbag assembly LH (Curtain shield squib LH) 2. Center airbag sensor assembly 3. Floor wire No.2	Blink	RS-232
B1167/85	Short to GND in Curtain Shield Squib LH Circuit	1. Curtain shield airbag assembly LH (Curtain shield squib LH) 2. Center airbag sensor assembly 3. Floor wire No.2	Blink	RS-235
B1168/86	Short to B+ in Curtain Shield Squib LH Circuit	1. Curtain shield airbag assembly LH (Curtain shield squib LH) 2. Center airbag sensor assembly 3. Floor wire No.2	Blink	RS-238
B1180/17	Short in Driver Side Squib 2nd Step Circuit	1. Steering pad (Driver side squib 2nd step) 2. Spiral cable 3. Center airbag sensor assembly 4. Instrument panel wire	ON	RS-241
B1181/18	Open in Driver Side Squib 2nd Step Circuit	1. Steering pad (Driver side squib 2nd step) 2. Spiral cable 3. Center airbag sensor assembly 4. Instrument panel wire	ON	RS-246
B1182/19	Short to GND in Driver Side Squib 2nd Step Circuit	1. Steering pad (Driver side squib 2nd step) 2. Spiral cable 3. Center airbag sensor assembly 4. Instrument panel wire	ON	RS-250

DTC No.	Detection Item	Trouble Area	SRS Warning Light	See page
B1183/22	Short to B+ in Driver Side Squib 2nd Step Circuit	1. Steering pad (Driver side squib 2nd step) 2. Spiral cable 3. Center airbag sensor assembly 4. Instrument panel wire	ON	RS-254
B1185/57	Short in Front Passenger Side Squib 2nd Step Circuit	1. Front passenger airbag assembly (Front passenger side squib 2nd step) 2. Center airbag sensor assembly 3. Instrument panel wire	ON	RS-258
B1186/58	Open in Front Passenger Side Squib 2nd Step Circuit	1. Front passenger airbag assembly (Front passenger side squib 2nd step) 2. Center airbag sensor assembly 3. Instrument panel wire	ON	RS-262
B1187/55	Short to GND in Front Passenger Side Squib 2nd Step Circuit	1. Front passenger airbag assembly (Front passenger side squib 2nd step) 2. Center airbag sensor assembly 3. Instrument panel wire	ON	RS-265
B1188/56	Short to B+ in Front Passenger Side Squib 2nd Step Circuit	1. Front passenger airbag assembly (Front passenger side squib 2nd step) 2. Center airbag sensor assembly 3. Instrument panel wire	ON	RS-268
B1650/49	Short in Driver Side Knee Airbag Squib Circuit	1. Driver side knee airbag assembly (Driver side knee airbag squib) 2. Center airbag sensor assembly 3. Floor wire No.2	ON	RS-271
B1651/49	Open in Driver Side Knee Airbag Squib Circuit	1. Driver side knee airbag assembly (Driver side knee airbag squib) 2. Center airbag sensor assembly 3. Floor wire No.2	ON	RS-275
B1652/49	Short to GND in Driver Side Knee Airbag Squib Circuit	1. Driver side knee airbag assembly (Driver side knee airbag squib) 2. Center airbag sensor assembly 3. Floor wire No.2	ON	RS-278
B1653/49	Short to B+ in Driver Side Knee Airbag Squib Circuit	1. Driver side knee airbag assembly (Driver side knee airbag squib) 2. Center airbag sensor assembly 3. Floor wire No.2	ON	RS-281

DTC	B0100/13	Short in Driver Side Squib Circuit

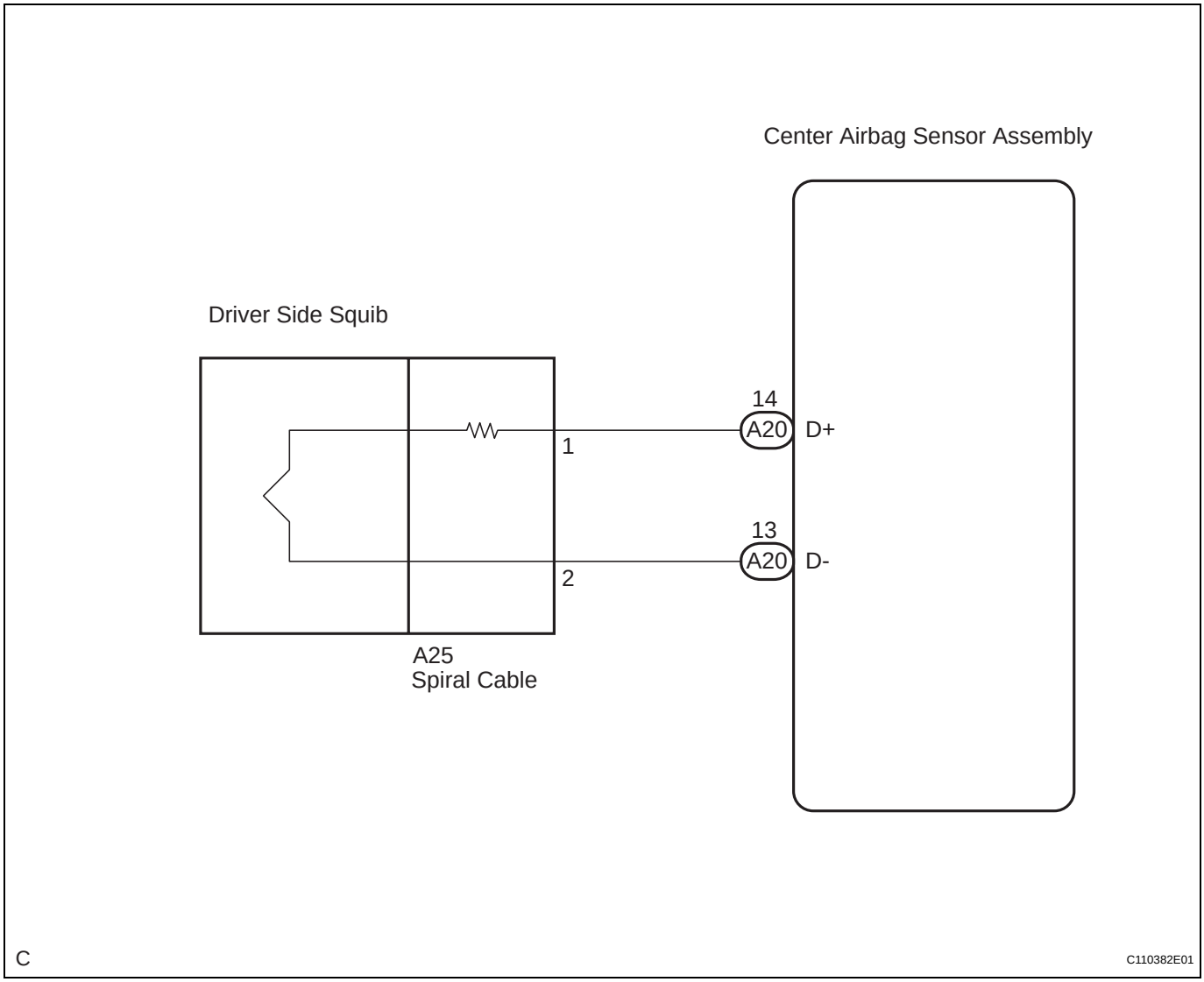
DESCRIPTION

The driver side squib circuit consists of the center airbag sensor assembly, the spiral cable and the steering pad. The circuit instructs the SRS to deploy when deployment conditions are met. DTC B0100/13 is recorded when a short circuit is detected in the driver side squib circuit.

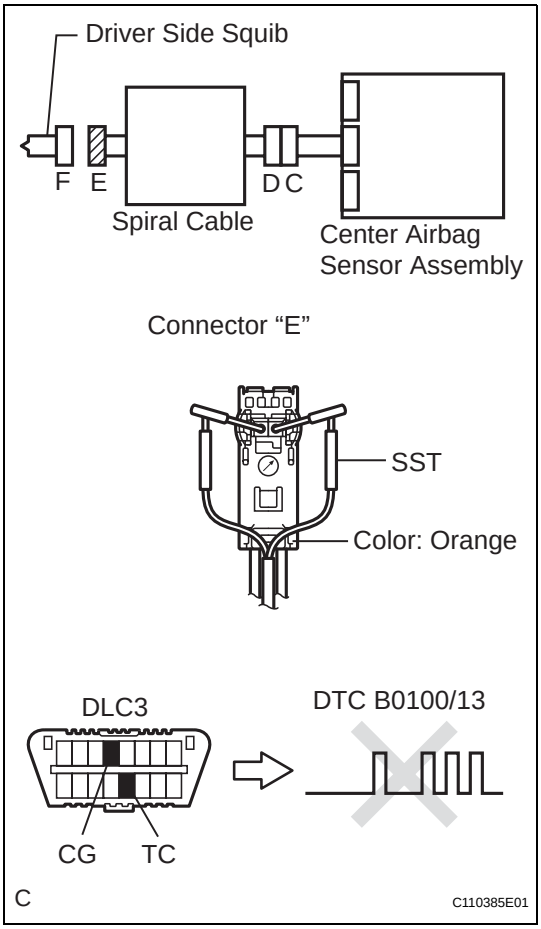
DTC No.	DTC Detecting Condition	Trouble Area
B0100/13	• Short circuit between D+ wire harness and D- wire harness of driver side squib • Driver side squib malfunction • Spiral cable malfunction • Center airbag sensor assembly malfunction	• Steering pad (Driver side squib) • Spiral cable • Center airbag sensor assembly • Instrument panel wire

RS

WIRING DIAGRAM



1	CHECK STEERING PAD (DRIVER SIDE SQUIB)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the steering pad.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the spiral cable.
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 the SST into the terminals of the connector when connecting. Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0100/13 is not output.
HINT:
Codes other than DTC B0100/13 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK

REPLACE STEERING PAD

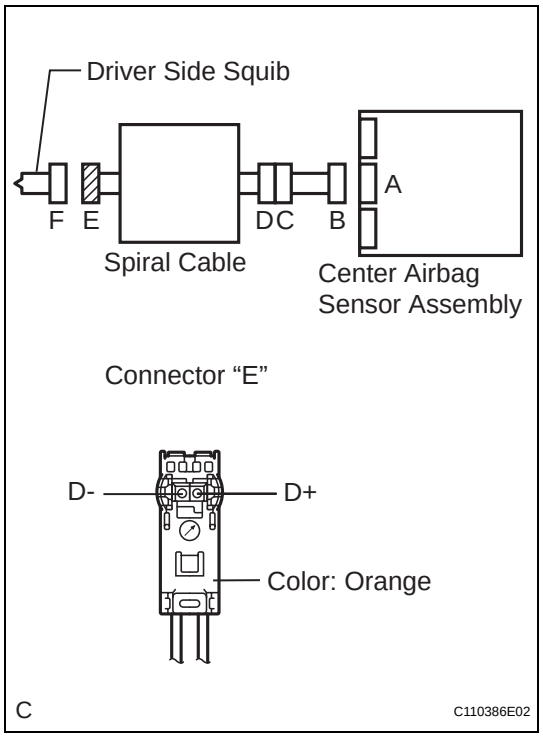
2	CHECK CONNECTORS

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the SST (resistance 2.1 Ω) from the spiral cable.
(d) Check that the spiral cable connectors (on the steering pad side) are not damaged.
OK:
The lock button is not disengaged, and the claw of the lock is not deformed or damaged.

NG → REPLACE SPIRAL CABLE

OK

3 CHECK DRIVER SIDE SQUIB CIRCUIT



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Release the activation prevention mechanism built into connector "B" (See page RS-25).
(c) Measure the resistance according to the value(s) in the table below.

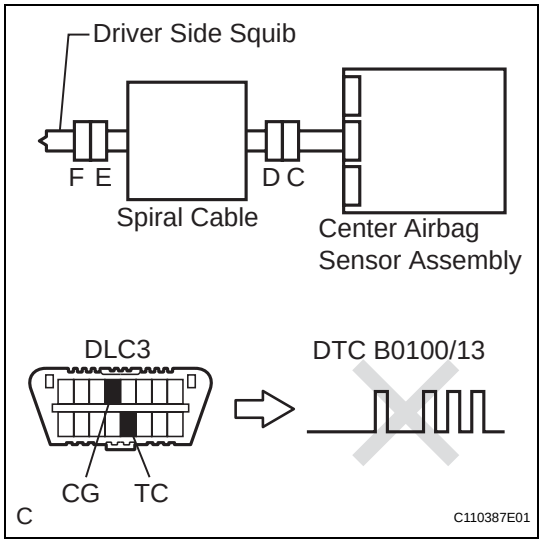
Resistance

Tester connection	Condition	Specified condition
D+ - D-	Always	1 MΩ or higher

NG → Go to step 5

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the steering pad and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0100/13 is not output.

HINT:

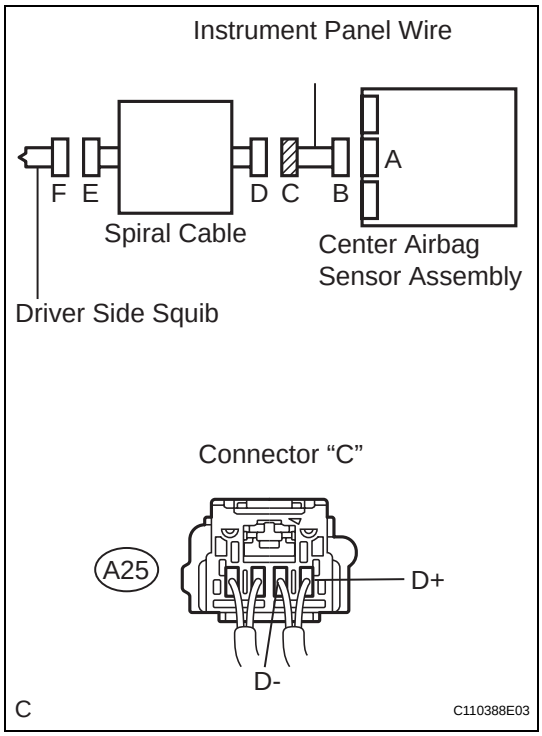
Codes other than code B0100/13 may be output at this time, but they are not related to this check.

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

5	CHECK INSTRUMENT PANEL WIRE



(a) Disconnect the instrument panel wire connector from the spiral cable.
HINT:
The activation prevention mechanism of connector "B" has already been released.

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

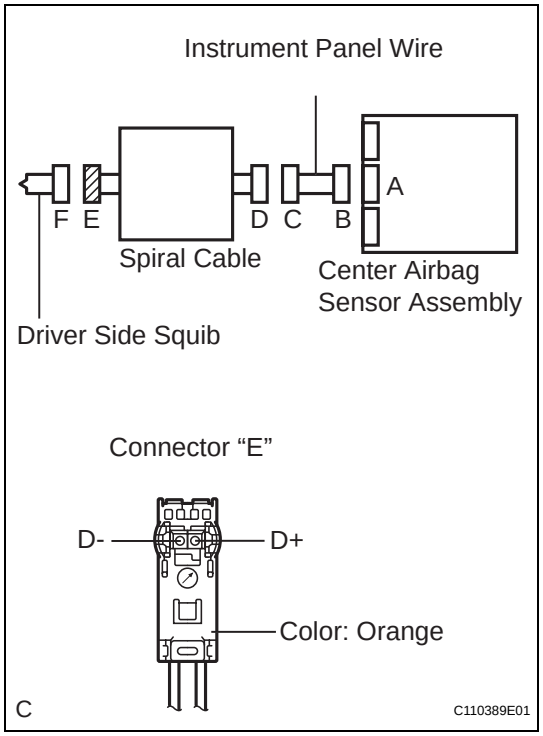
Resistance

Tester connection	Condition	Specified condition
A25-1 (D+) - A25-2 (D-)	Always	1 MΩ or higher

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

OK

6	CHECK SPIRAL CABLE



(a) Release the activation prevention mechanism built into connector "D" (See page RS-25).
(b) Measure the resistance according to the value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
D+ - D-	Always	1 MΩ or higher

NG → REPLACE SPIRAL CABLE

OK

USE SIMULATION METHOD TO CHECK

RS

DTC	B0101/14	Open in Driver Side Squib Circuit

DESCRIPTION

The driver side squib circuit consists of the center airbag sensor assembly, the spiral cable and the steering pad.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0101/14 is recorded when an open circuit is detected in the driver side squib circuit.

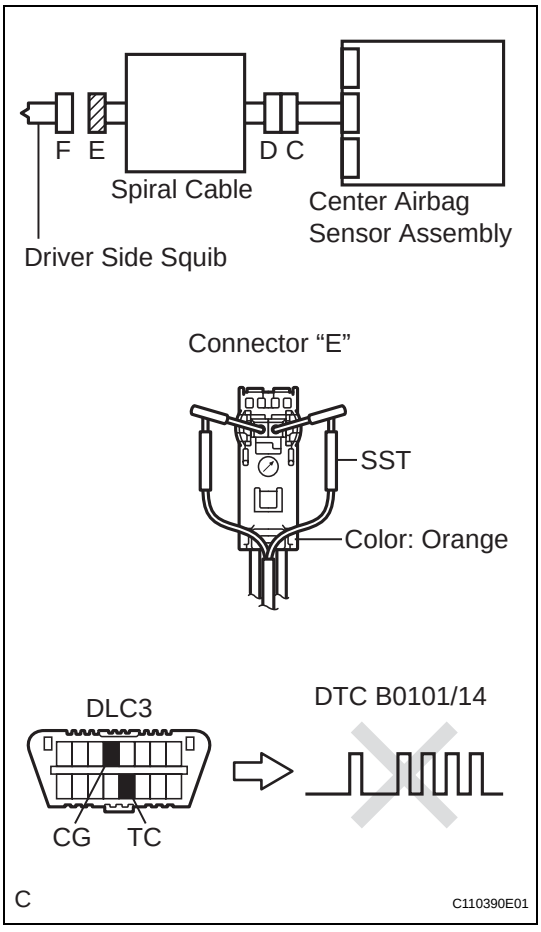
DTC No.	DTC Detecting Condition	Trouble Area
B0101/14	• Open circuit in D+ wire harness or D- wire harness of driver side squib • Driver side squib malfunction • Spiral cable malfunction • Center airbag sensor assembly malfunction	• Steering pad (Driver side squib) • Spiral cable • Center airbag sensor assembly • Instrument panel wire

RS

WIRING DIAGRAM

See page RS-41.

1	CHECK STEERING PAD (DRIVER SIDE SQUIB)



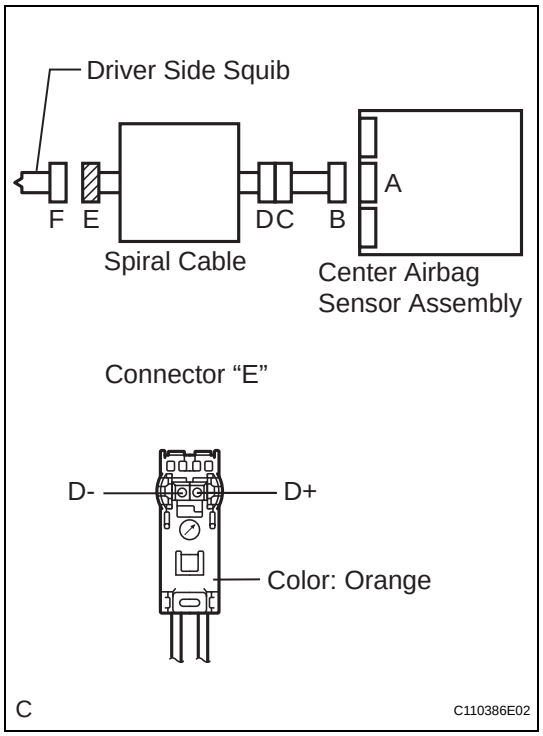
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the steering pad.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the spiral cable.
CAUTION:
Never connect 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 the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0101/14 is not output.
HINT:
Codes other than DTC B0101/14 may be output at this time, but they are not related to this check.

NG	Go to step 2

OK

REPLACE SPIRAL CABLE

2 CHECK DRIVER SIDE SQUIB CIRCUIT



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

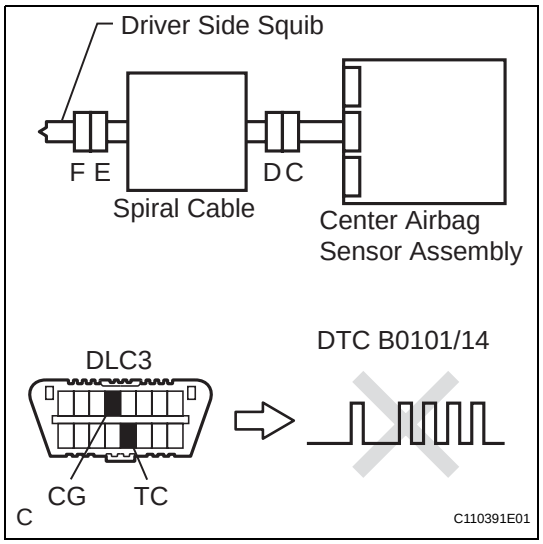
Resistance

Tester connection	Condition	Specified condition
D+ - D-	Always	Below 1 Ω

NG → **Go to step 4**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the steering pad and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0101/14 is not output.

HINT:

Codes other than code B0101/14 may be output at this time, but they are not related to this check.

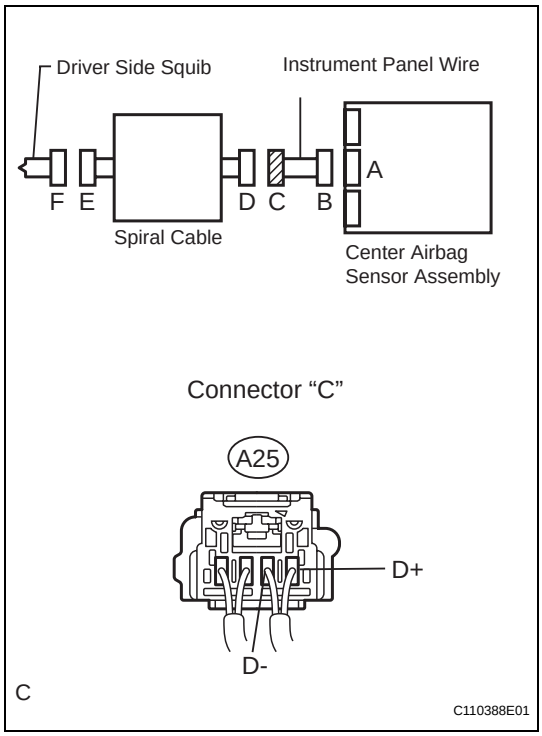
NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

RS

OK

USE SIMULATION METHOD TO CHECK

4	CHECK INSTRUMENT PANEL WIRE



(a) Disconnect the instrument panel wire connector from the spiral cable.
(b) Measure the resistance according to the value(s) in the table below.

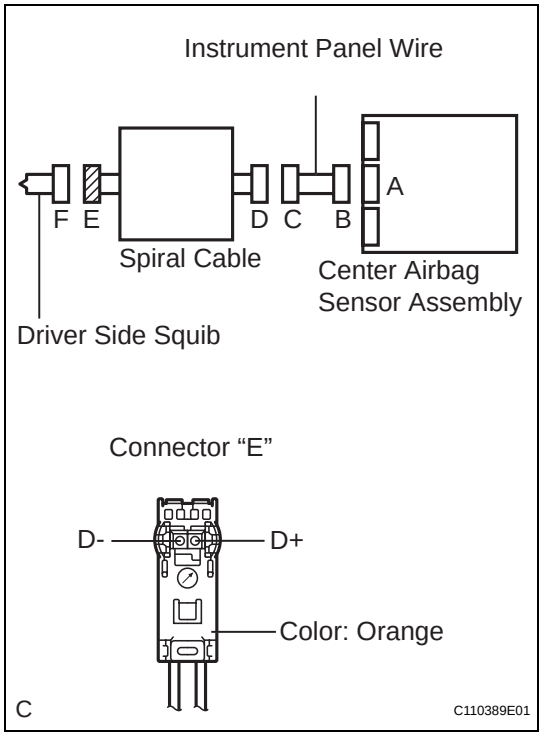
Resistance

Tester connection	Condition	Specified condition
A25-1 (D+) - A25-2 (D-)	Always	Below 1 Ω

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

OK

5	CHECK SPIRAL CABLE



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

Resistance

Tester connection	Condition	Specified condition
D+ - D-	Always	Below 1 Ω

NG → **REPLACE SPIRAL CABLE**

OK

USE SIMULATION METHOD TO CHECK

RS

DTC	B0102/11	Short to GND in Driver Side Squib Circuit

DESCRIPTION

The driver side squib circuit consists of the center airbag sensor assembly, the spiral cable and the steering pad.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0102/11 is recorded when a short to ground is detected in the driver side squib circuit.

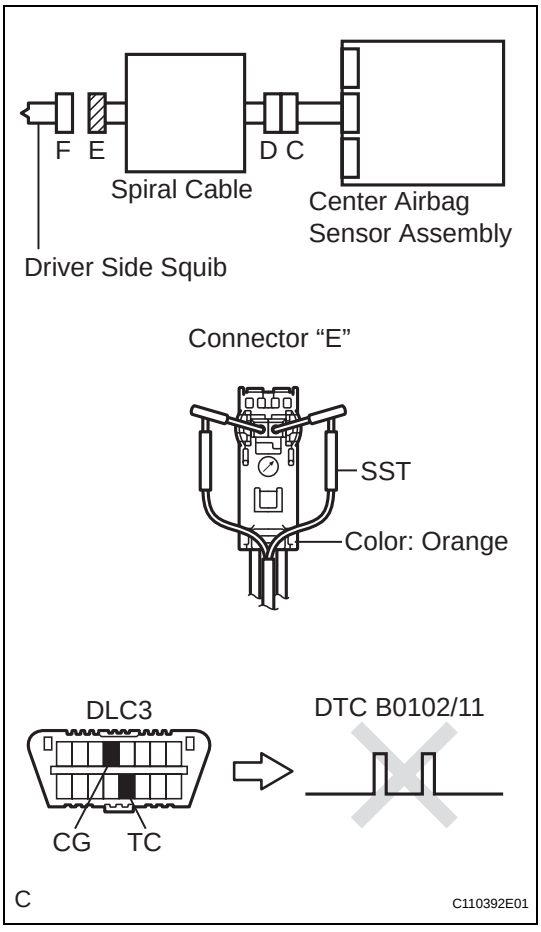
DTC No.	DTC Detecting Condition	Trouble Area
B0102/11	• Short circuit in driver side squib wire harness (to ground) • Driver side squib malfunction • Spiral cable malfunction • Center airbag sensor assembly malfunction	• Steering pad (Driver side squib) • Spiral cable • Center airbag sensor assembly • Instrument panel wire

RS

WIRING DIAGRAM

See page RS-41.

1	CHECK STEERING PAD (DRIVER SIDE SQUIB)



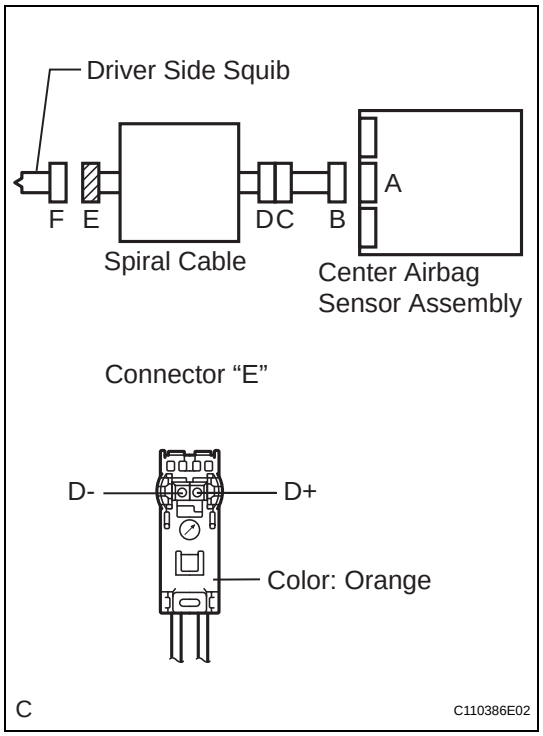
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the steering pad.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the spiral cable.
CAUTION:
Never connect 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 the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0102/11 is not output.
HINT:
Codes other than DTC B0102/11 may be output at this time, but they are not related to this check.

NG	Go to step 2

OK

REPLACE SPIRAL CABLE

2 CHECK DRIVER SIDE SQUIB CIRCUIT



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

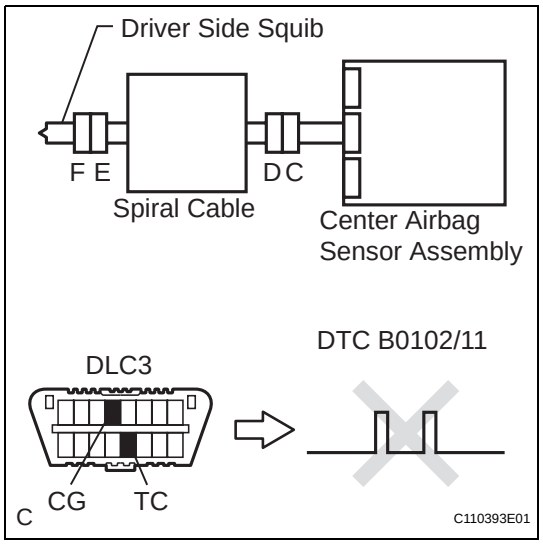
Resistance

Tester connection	Condition	Specified condition
D+ - Body ground	Always	1 MΩ or higher
D- - Body ground	Always	1 MΩ or higher

NG → **Go to step 4**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the steering pad and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0102/11 is not output.

HINT:

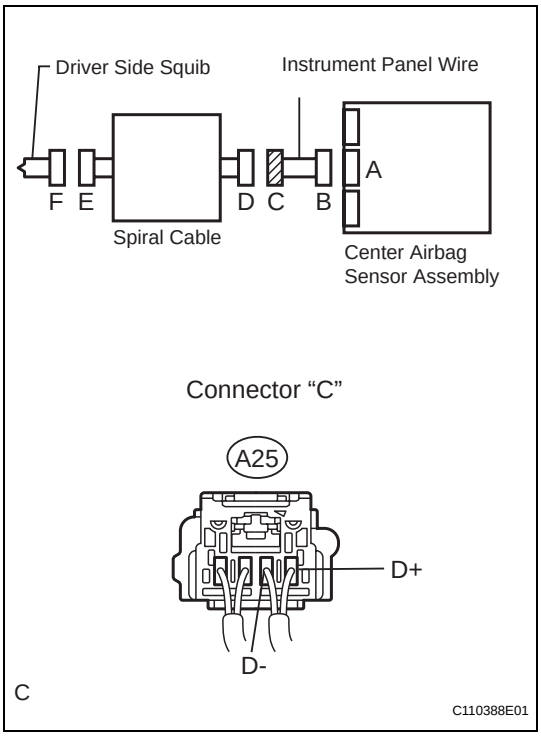
Codes other than code B0102/11 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

4 CHECK INSTRUMENT PANEL WIRE



(a) Disconnect the instrument panel wire connector from the spiral cable.
(b) Measure the resistance according to the value(s) in the table below.

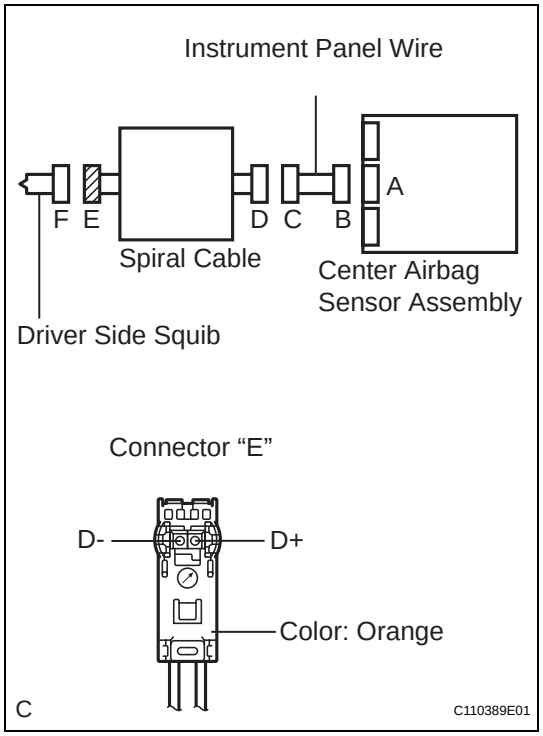
Resistance

Tester connection	Condition	Specified condition
A25-1 (D+) - Body ground	Always	1 MΩ or higher
A25-2 (D-) - Body ground	Always	1 MΩ or higher

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

OK

5	CHECK SPIRAL CABLE



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

Resistance

Tester connection	Condition	Specified condition
D+ - Body ground	Always	1 MΩ or higher
D- - Body ground	Always	1 MΩ or higher

NG → **REPLACE SPIRAL CABLE**

OK

USE SIMULATION METHOD TO CHECK

RS

DTC	B0103/12	Short to B+ in Driver Side Squib Circuit

DESCRIPTION

The driver side squib circuit consists of the center airbag sensor assembly, the spiral cable and the steering pad.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0103/12 is recorded when a short to B+ is detected in the driver side squib circuit.

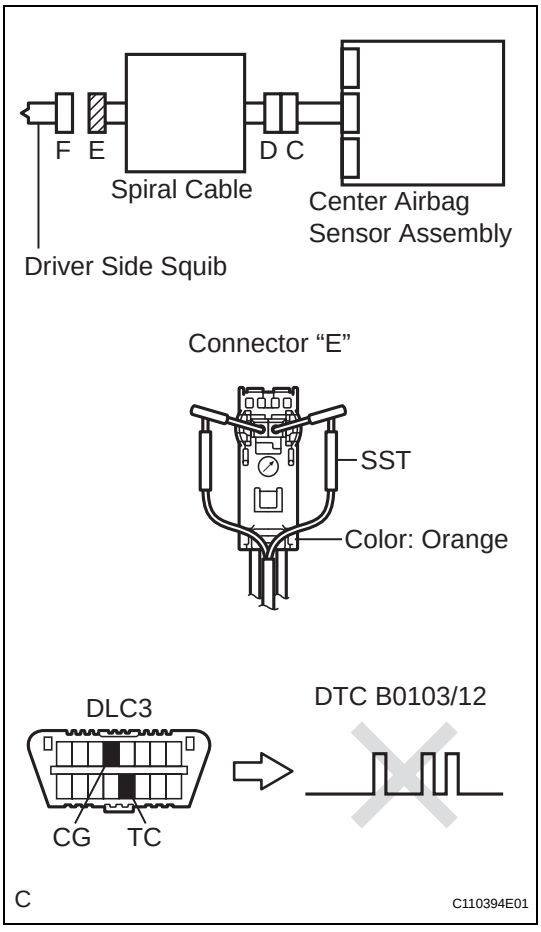
DTC No.	DTC Detecting Condition	Trouble Area
B0103/12	• Short circuit in driver side squib wire harness (to B+) • Driver side squib malfunction • Spiral cable malfunction • Center airbag sensor assembly malfunction	• Steering pad (Driver side squib) • Spiral cable • Center airbag sensor assembly • Instrument panel wire

RS

WIRING DIAGRAM

See page RS-41.

1	CHECK STEERING PAD (DRIVER SIDE SQUIB)



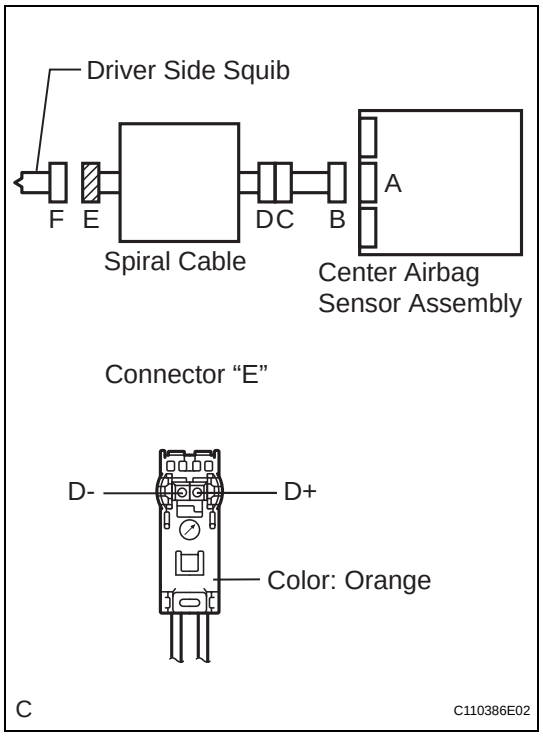
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the steering pad.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the spiral cable.
CAUTION:
Never connect 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 the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0103/12 is not output.
HINT:
Codes other than DTC B0103/12 may be output at this time, but they are not related to this check.

NG	Go to step 2

OK

REPLACE SPIRAL CABLE

2 CHECK DRIVER SIDE SQUIB CIRCUIT



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

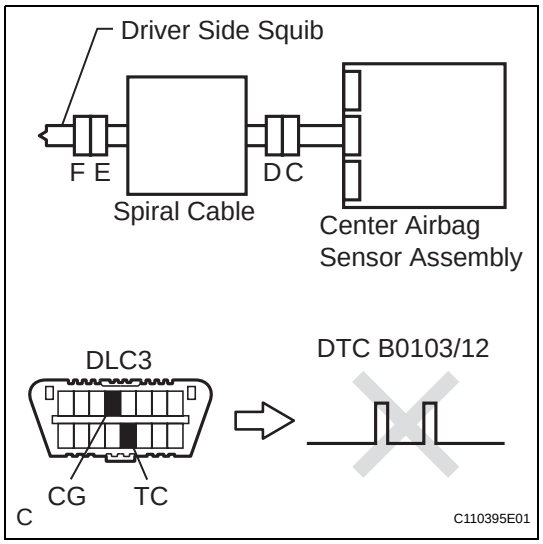
Voltage

Tester connection	Condition	Specified condition
D+ - Body ground	Ignition switch ON	Below 1 V
D- - Body ground	Ignition switch ON	Below 1 V

NG → **Go to step 4**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the steering pad and the center airbag sensor assembly.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (See page RS-32).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (See page RS-32).

OK:

DTC B0103/12 is not output.

HINT:

Codes other than code B0103/12 may be output at this time, but they are not related to this check.

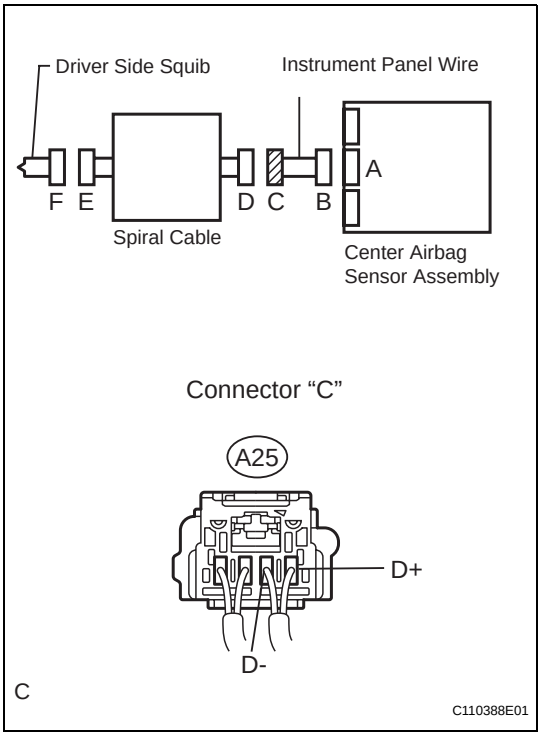
NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

4	CHECK INSTRUMENT PANEL WIRE

RS



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

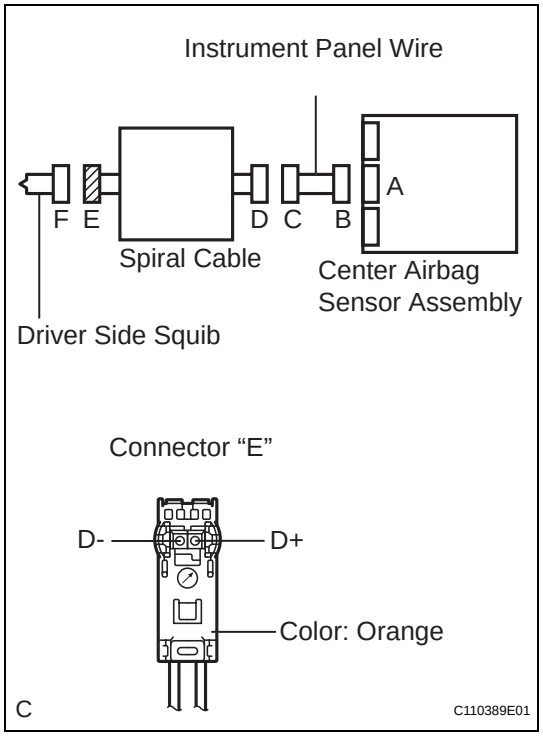
Voltage

Tester connection	Condition	Specified condition
A25-1 (D+) - Body ground	Ignition switch ON	Below 1 V
A25-2 (D-) - Body ground	Ignition switch ON	Below 1 V

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

5	CHECK SPIRAL CABLE



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

Voltage

Tester connection	Condition	Specified condition
D+ - Body ground	Ignition switch ON	Below 1 V
D- - Body ground	Ignition switch ON	Below 1 V

NG → **REPLACE SPIRAL CABLE**

OK

USE SIMULATION METHOD TO CHECK

RS

DTC	B0105/53	Short in Front Passenger Side Squib Circuit

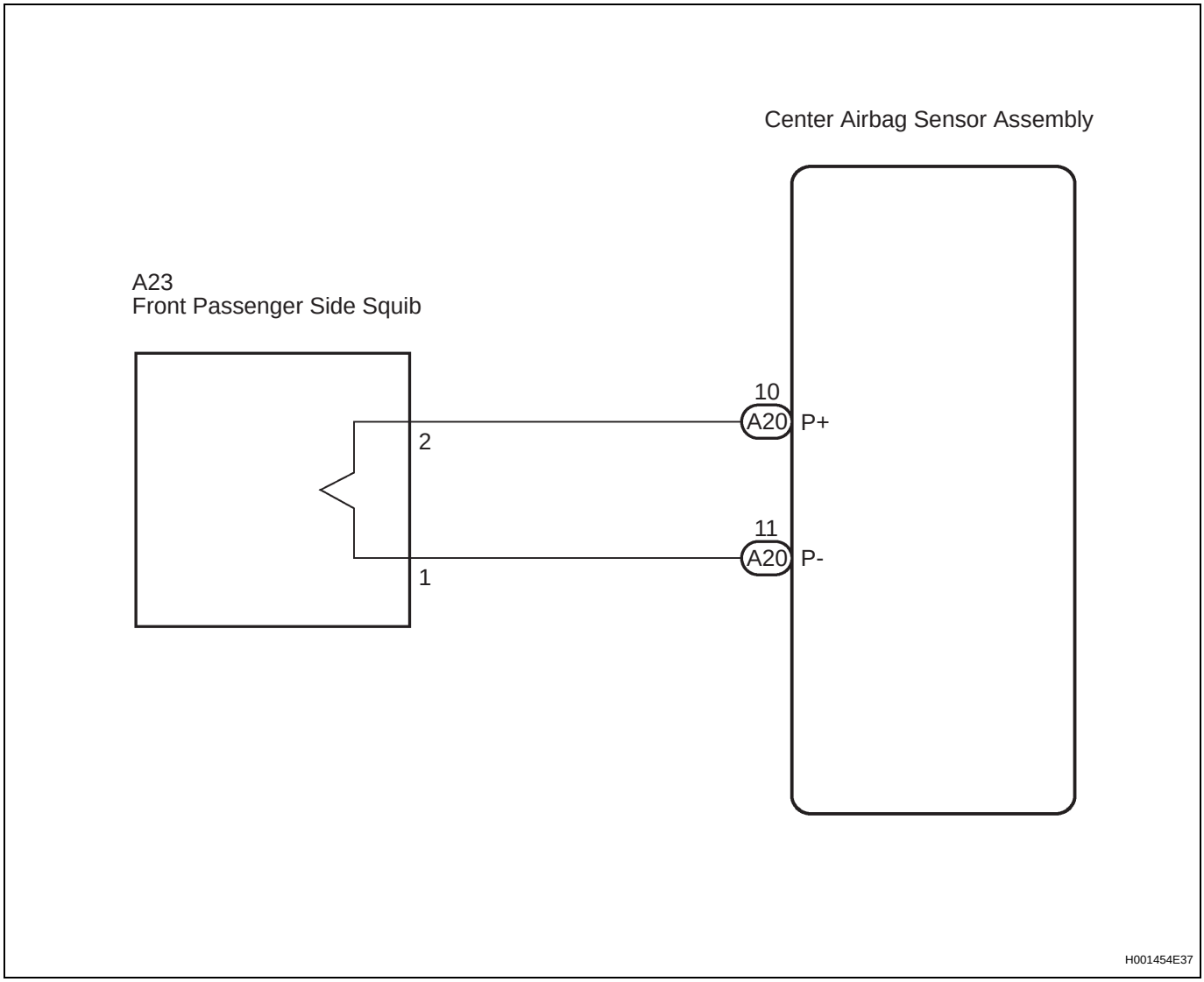
DESCRIPTION

The front passenger side squib circuit consists of the center airbag sensor assembly and the front passenger airbag assembly.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0105/53 is recorded when a short circuit is detected in the front passenger side squib circuit.

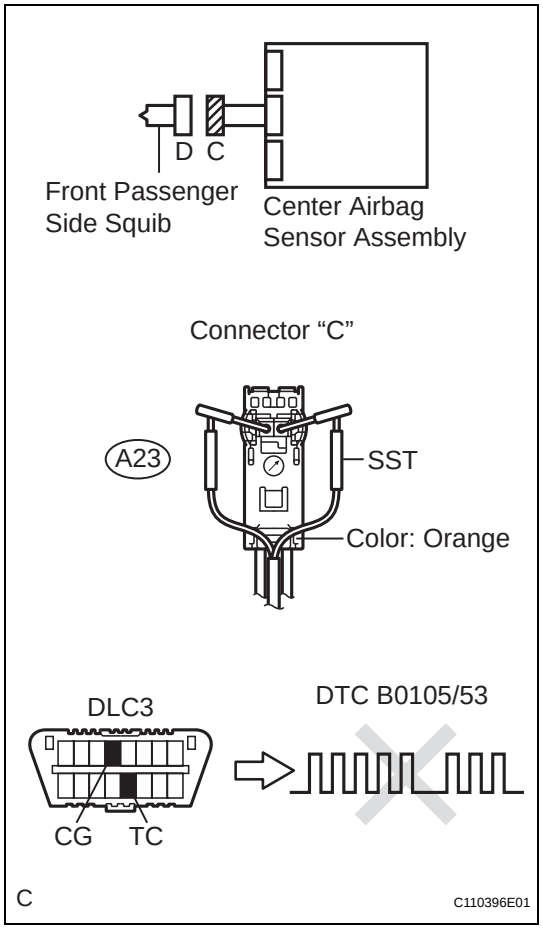
DTC No.	DTC Detecting Condition	Trouble Area
B0105/53	• Short circuit between P+ wire harness and P- wire harness of front passenger side squib • Front passenger side squib malfunction • Center airbag sensor assembly malfunction	• Front passenger airbag assembly (Front passenger side squib) • Center airbag sensor assembly • Instrument panel wire

RS

WIRING DIAGRAM



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



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front passenger airbag assembly.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the instrument panel wire.
CAUTION:
Never connect a tester to the front passenger airbag assembly (Front passenger side squib) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0105/53 is not output.
HINT:
Codes other than DTC B0105/53 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK

REPLACE FRONT PASSENGER AIRBAG ASSEMBLY

2	CHECK CONNECTORS

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

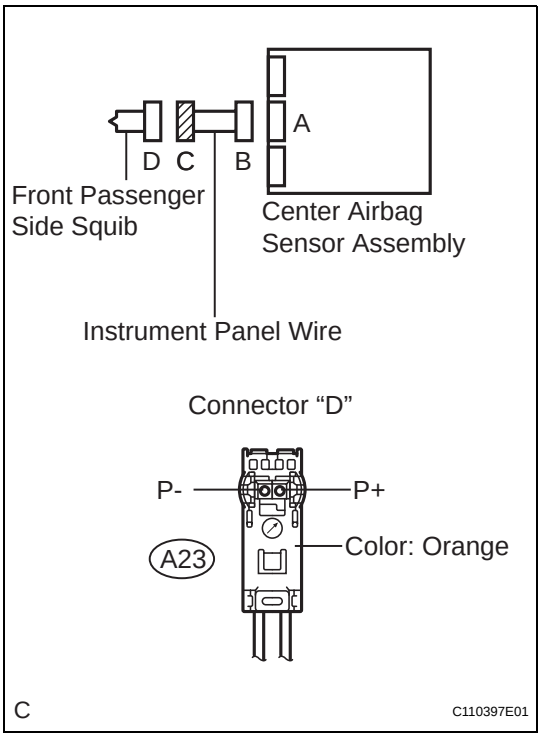
OK:

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

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

OK

3 CHECK INSTRUMENT PANEL WIRE (FRONT PASSENGER SIDE SQUIB CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Release the activation prevention mechanism built into connector "B" (See page RS-25).
(c) Measure the resistance according to the value(s) in the table below.

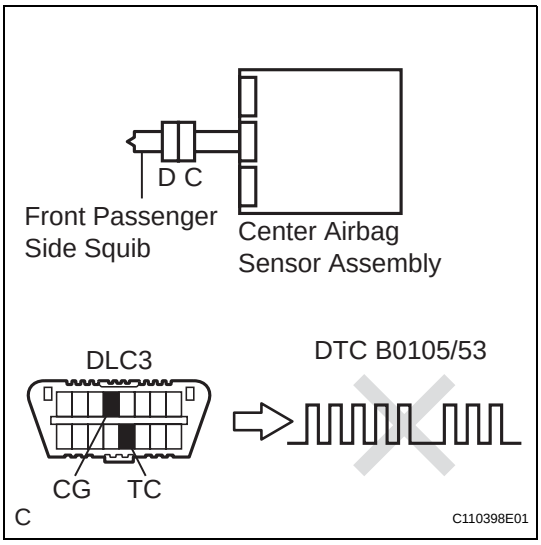
Resistance

Tester connection	Condition	Specified condition
A23-2 (P+) - A23-1 (P-)	Always	1 MΩ or higher

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

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front passenger airbag assembly and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0105/53 is not output.

HINT:

Codes other than code B0105/53 may be output at this time, but they are not related to this check.

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

DTC	B0106/54	Open in Front Passenger Side Squib Circuit

DESCRIPTION

The front passenger side squib circuit consists of the center airbag sensor assembly and the front passenger airbag assembly.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0106/54 is recorded when an open circuit is detected in the front passenger side squib circuit.

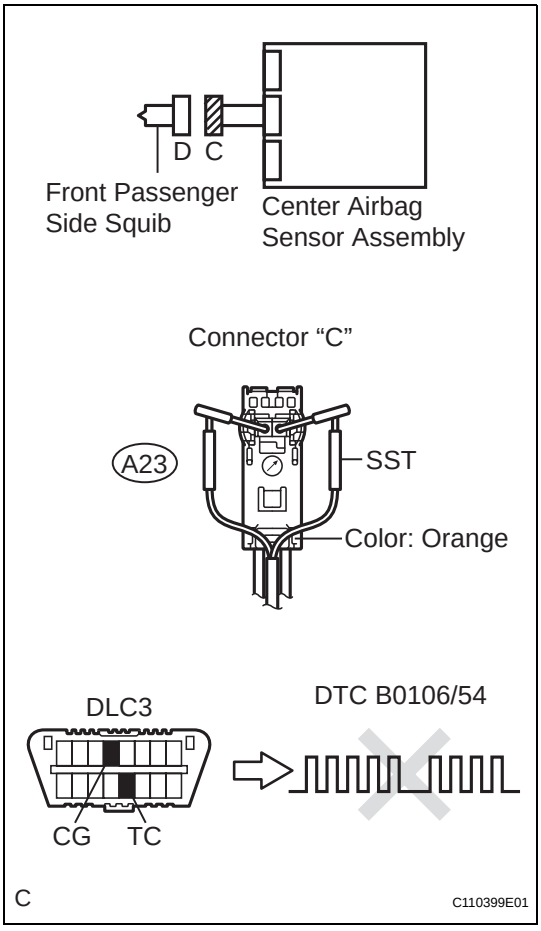
DTC No.	DTC Detecting Condition	Trouble Area
B0106/54	• Open circuit in P+ wire harness or P- wire harness of front passenger side squib • Front passenger side squib malfunction • Center airbag sensor assembly malfunction	• Front passenger airbag assembly (Front passenger side squib) • Center airbag sensor assembly • Instrument panel wire

RS

WIRING DIAGRAM

See page RS-58.

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



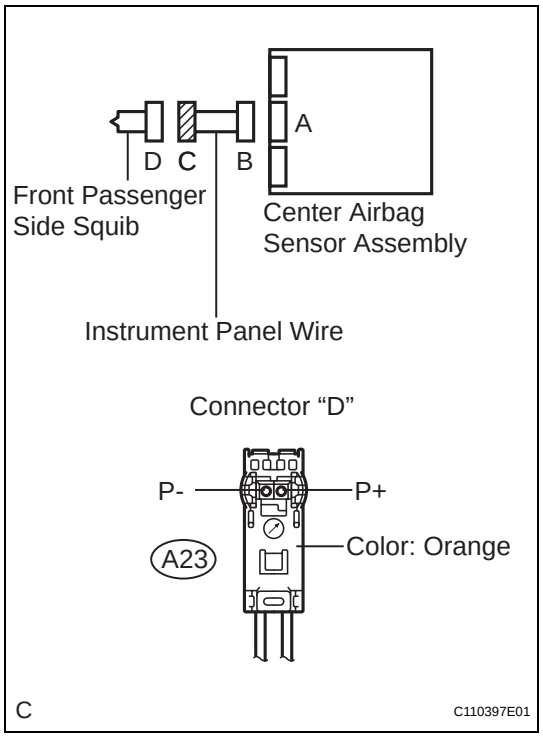
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front passenger airbag assembly.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the instrument panel wire.
CAUTION:
Never connect a tester to the front passenger airbag assembly (Front passenger side squib) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0106/54 is not output.
HINT:
Codes other than DTC B0106/54 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE FRONT PASSENGER AIRBAG ASSEMBLY

2 CHECK INSTRUMENT PANEL WIRE (FRONT PASSENGER SIDE SQUIB CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

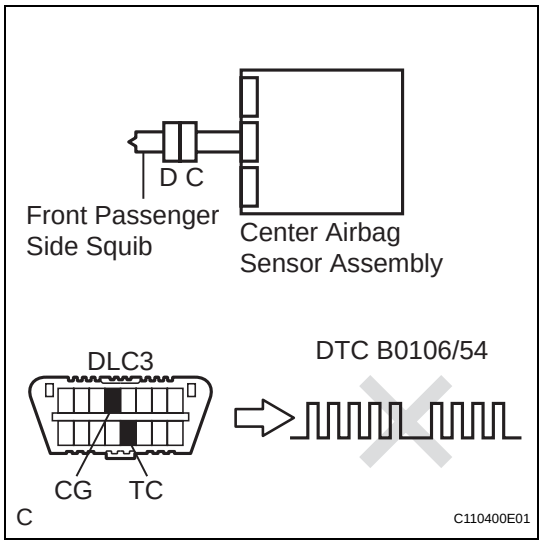
Resistance

Tester connection	Condition	Specified condition
A23-2 (P+) - A23-1 (P-)	Always	Below 1 Ω

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

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front passenger airbag assembly and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0106/54 is not output.

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

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

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

DESCRIPTION

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

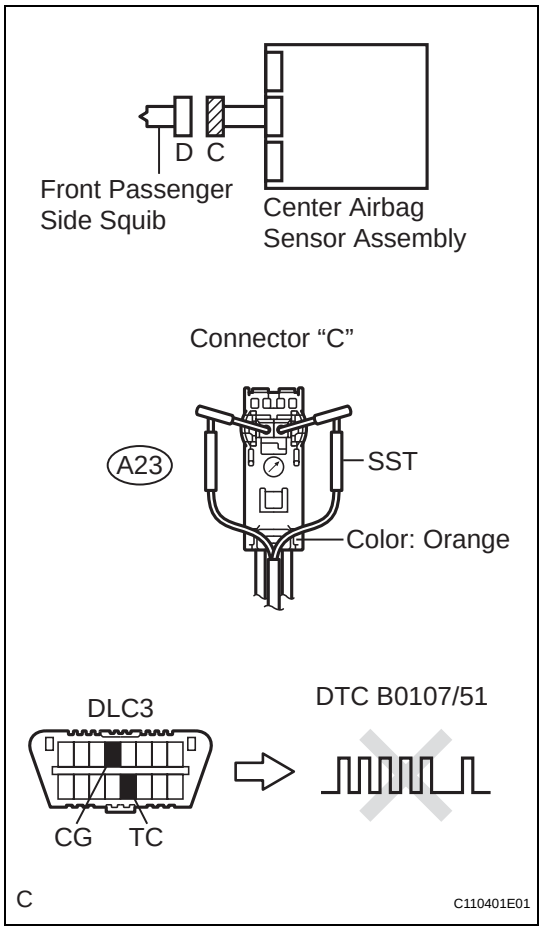
DTC No.	DTC Detecting Condition	Trouble Area
B0107/51	• Short circuit in front passenger side squib wire harness (to ground) • Front passenger side squib malfunction • Center airbag sensor assembly malfunction	• Front passenger airbag assembly (Front passenger side squib) • Center airbag sensor assembly • Instrument panel wire

RS

WIRING DIAGRAM

See page RS-58.

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



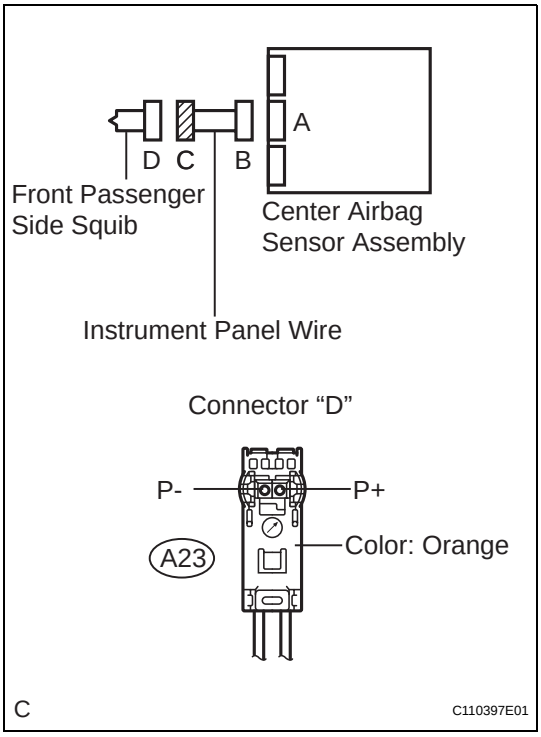
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front passenger airbag assembly.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the instrument panel wire.
CAUTION:
Never connect a tester to the front paasenger airbag assembly (Front passenger side squib) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0107/51 is not output.
HINT:
Codes other than DTC B0107/51 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE FRONT PASSENGER AIRBAG ASSEMBLY

2 CHECK INSTRUMENT PANEL WIRE (FRONT PASSENGER SIDE SQUIB CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

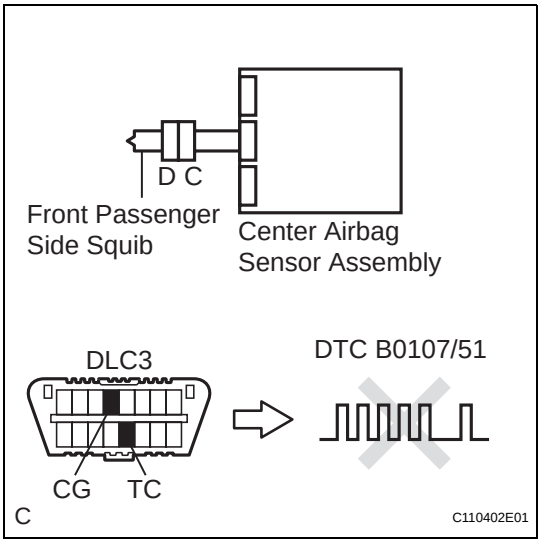
Resistance

Tester connection	Condition	Specified condition
A23-2 (P+) - Body ground	Always	1 MΩ or higher
A23-1 (P-) - Body ground	Always	1 MΩ or higher

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

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front passenger airbag assembly and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0107/51 is not output.

HINT:

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

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

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

DESCRIPTION

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

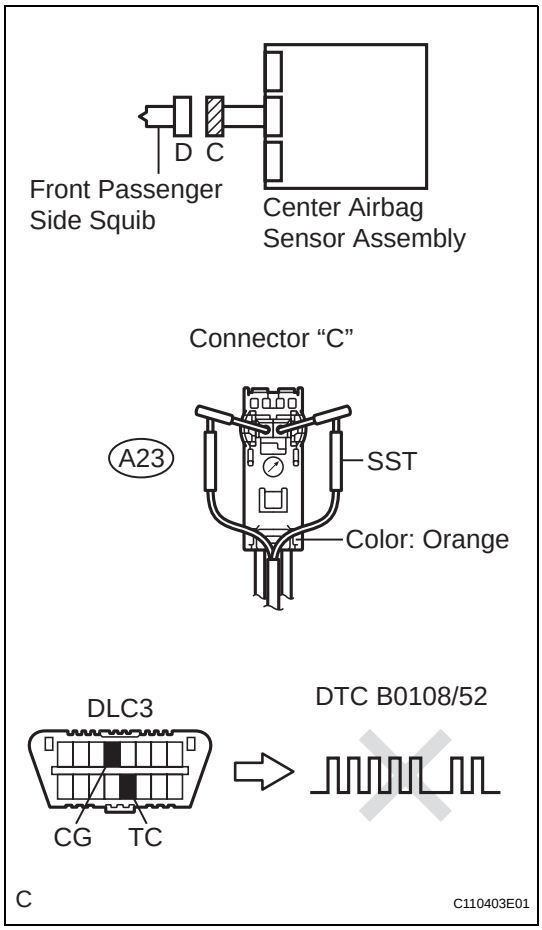
DTC No.	DTC Detecting Condition	Trouble Area
B0108/52	• Short circuit in front passenger side squib wire harness (to B+) • Front passenger side squib malfunction • Center airbag sensor assembly malfunction	• Front passenger airbag assembly (Front passenger side squib) • Center airbag sensor assembly • Instrument panel wire

RS

WIRING DIAGRAM

See page RS-58.

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



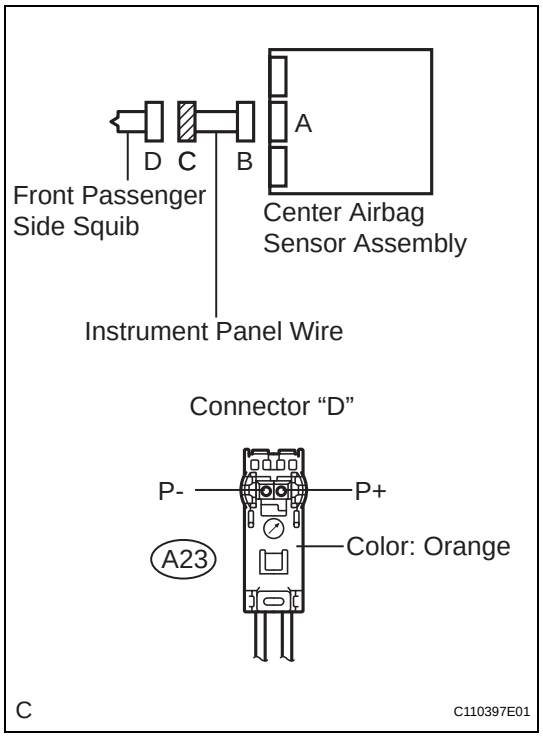
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front passenger airbag assembly.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the instrument panel wire.
CAUTION:
Never connect a tester to the front passenger airbag assembly (Front passenger side squib) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0108/52 is not output.
HINT:
Codes other than DTC B0108/52 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE FRONT PASSENGER AIRBAG ASSEMBLY

2 CHECK INSTRUMENT PANEL WIRE (FRONT PASSENGER SIDE SQUIB CIRCUIT)



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

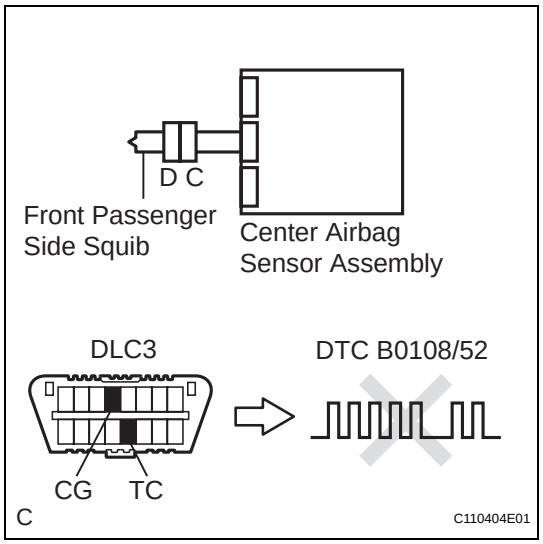
Voltage

Tester connection	Condition	Specified condition
A23-2 (P+) - Body ground	Ignition switch ON	Below 1 V
A23-1 (P-) - Body ground	Ignition switch ON	Below 1 V

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

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the front passenger airbag assembly and the center airbag sensor assembly.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (See page RS-32).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (See page RS-32).

OK:

DTC B0108/52 is not output.

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

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

DTC	B0110/43	Short in Side Squib RH Circuit

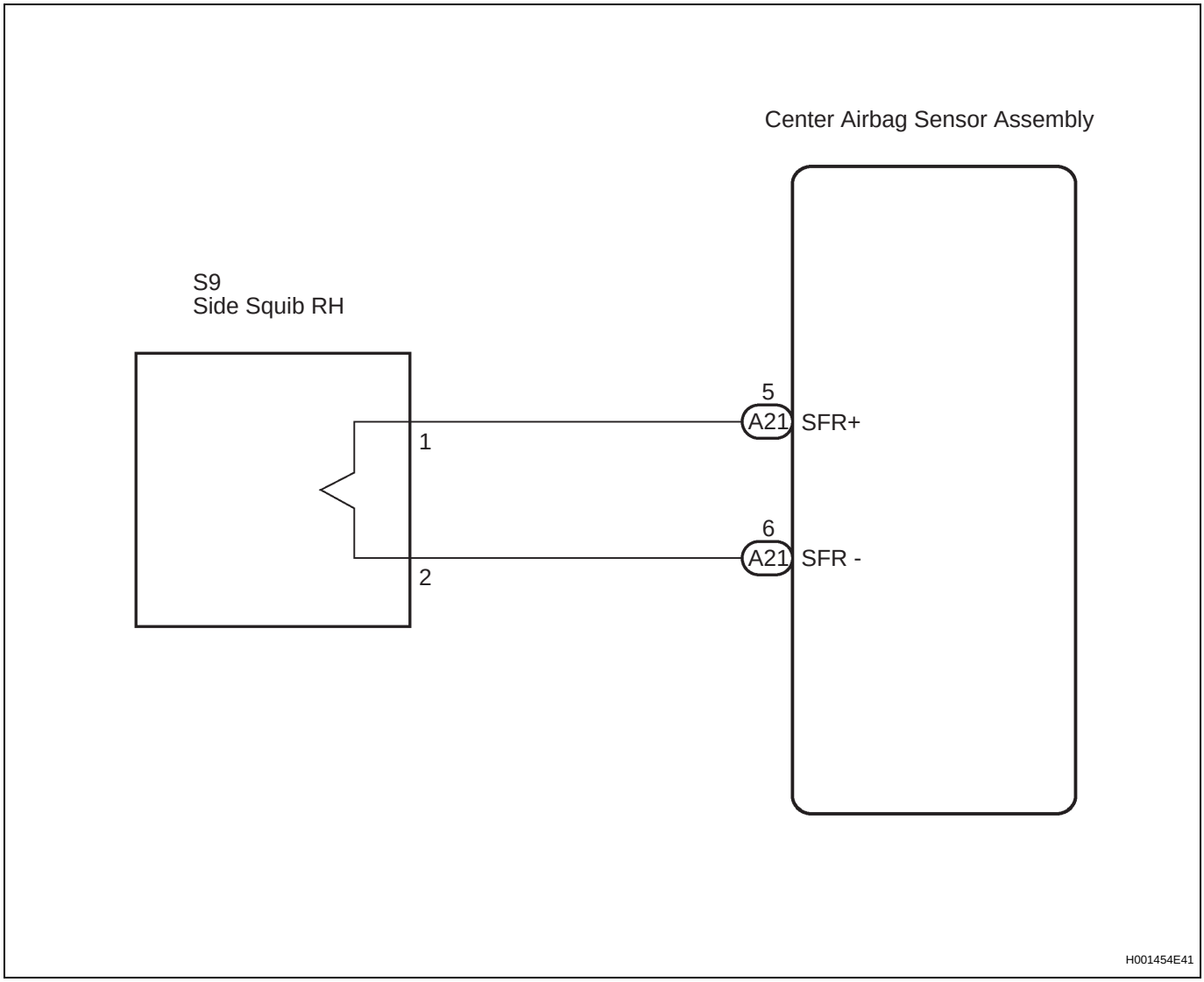
DESCRIPTION

The side squib RH circuit consists of the center airbag sensor assembly and the front seat side airbag assembly RH (side squib RH).
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0110/43 is recorded when a short circuit is detected in the side squib RH circuit.

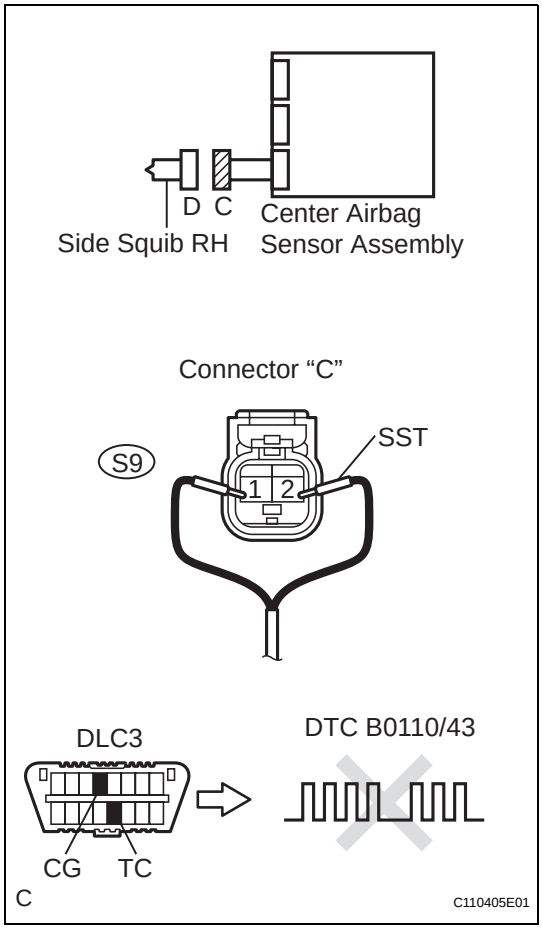
DTC No.	DTC Detecting Condition	Trouble Area
B0110/43	• Short circuit between SFR+ wire harness and SFR- wire harness of side squib RH • Side squib RH malfunction • Center airbag sensor assembly malfunction	• Front seat side airbag assembly RH (Side squib RH) • Center airbag sensor assembly • Floor wire

RS

WIRING DIAGRAM



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



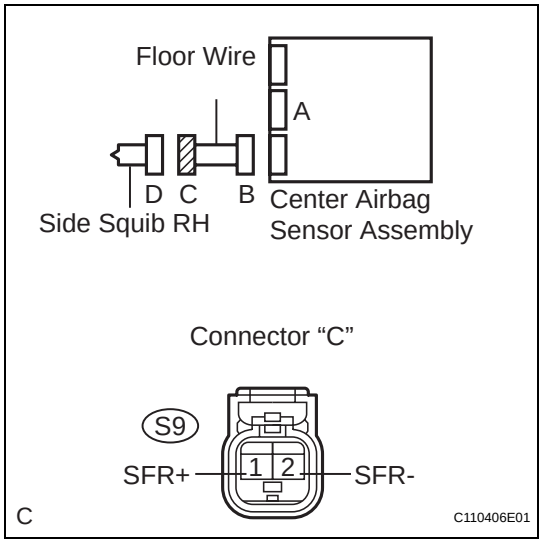
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat side airbag assembly RH.
(d) Connect the black wire side of SST (resistance 2.1 Ω) to the floor wire.
CAUTION:
Never connect a tester to the front seat side airbag assembly RH (Side squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0110/43 is not output.
HINT:
Codes other than DTC B0110/43 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK

REPLACE FRONT SEAT SIDE AIRBAG ASSEMBLY RH

2 CHECK FLOOR WIRE (SIDE SQUIB RH CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Release the activation prevention mechanism built into connector "B" (See page RS-25).
(c) Measure the resistance according to the value(s) in the table below.

Resistance

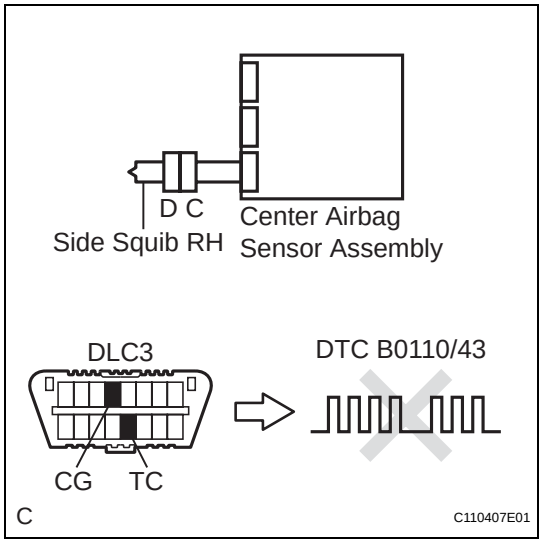
Tester connection	Condition	Specified condition
S9-1 (SFR+) - S9-2 (SFR-)	Always	1 MΩ or higher

RS

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front seat side airbag assembly RH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0110/43 is not output.

HINT:

Codes other than code B0110/43 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

DTC	B0111/44	Open in Side Squib RH Circuit

DESCRIPTION

The side squib RH circuit consists of the center airbag sensor assembly and the front seat side airbag assembly RH (side squib RH).
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0111/44 is recorded when an open circuit is detected in the side squib RH circuit.

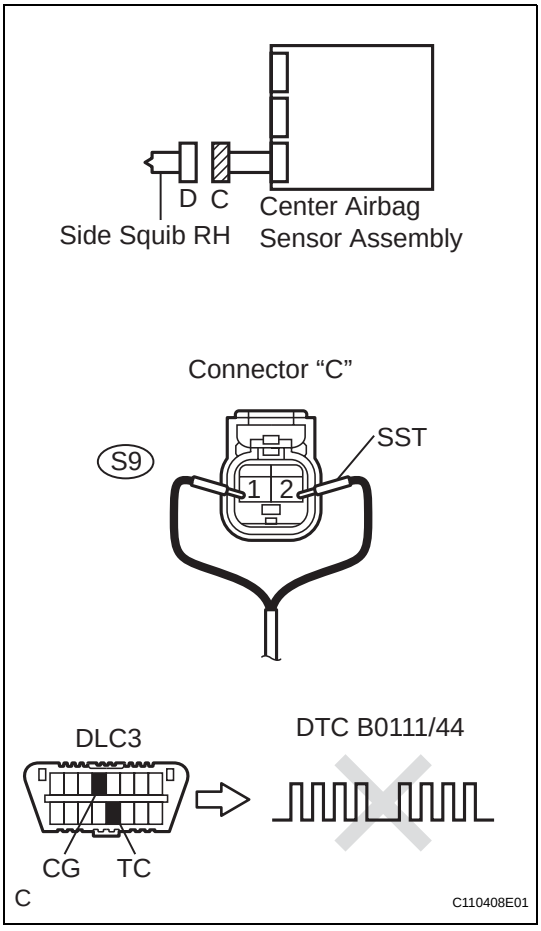
DTC No.	DTC Detecting Condition	Trouble Area
B0111/44	• Open circuit in SFR+ wire harness or SFR- wire harness of side squib RH • Side squib RH malfunction • Center airbag sensor assembly malfunction	• Front seat side airbag assembly RH (Side squib RH) • Center airbag sensor assembly • Floor wire

RS

WIRING DIAGRAM

See page RS-71.

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



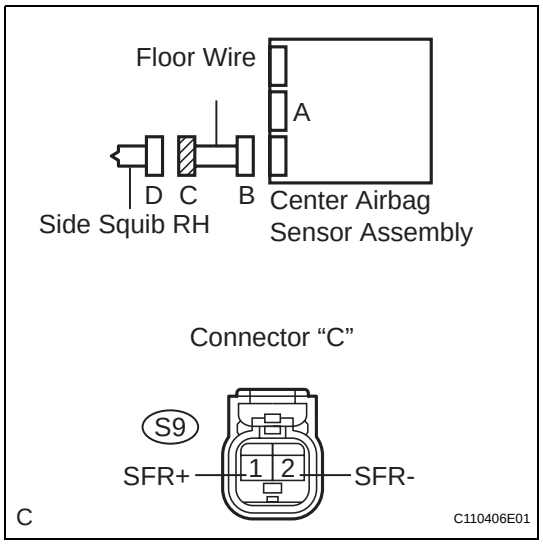
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat side airbag assembly RH.
(d) Connect the black wire side of SST (resistance 2.1 Ω) to the floor wire.
CAUTION:
Never connect a tester to the front seat side airbag assembly RH (Side squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0111/44 is not output.
HINT:
Codes other than DTC B0111/44 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE FRONT SEAT SIDE AIRBAG ASSEMBLY RH

2 CHECK FLOOR WIRE (SIDE SQUIB RH CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

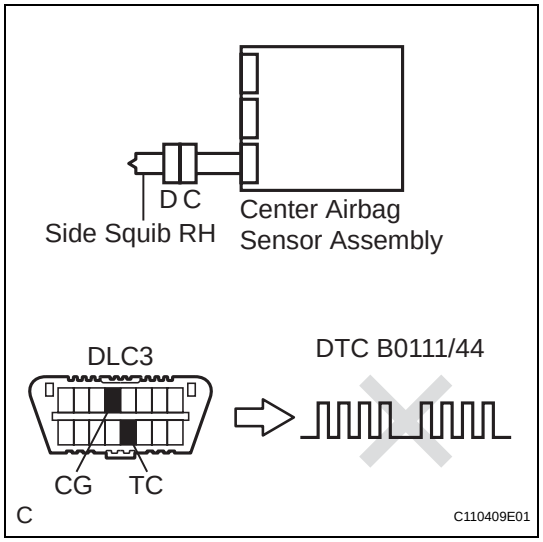
Resistance

Tester connection	Condition	Specified condition
S9-1 (SFR+) - S9-2 (SFR-)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front seat side airbag assembly RH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0111/44 is not output.

HINT:

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

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

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

DESCRIPTION

The side squib RH circuit consists of the center airbag sensor assembly and the front seat side airbag assembly RH (side squib RH).
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0112/41 is recorded when a short to ground is detected in the side squib RH circuit.

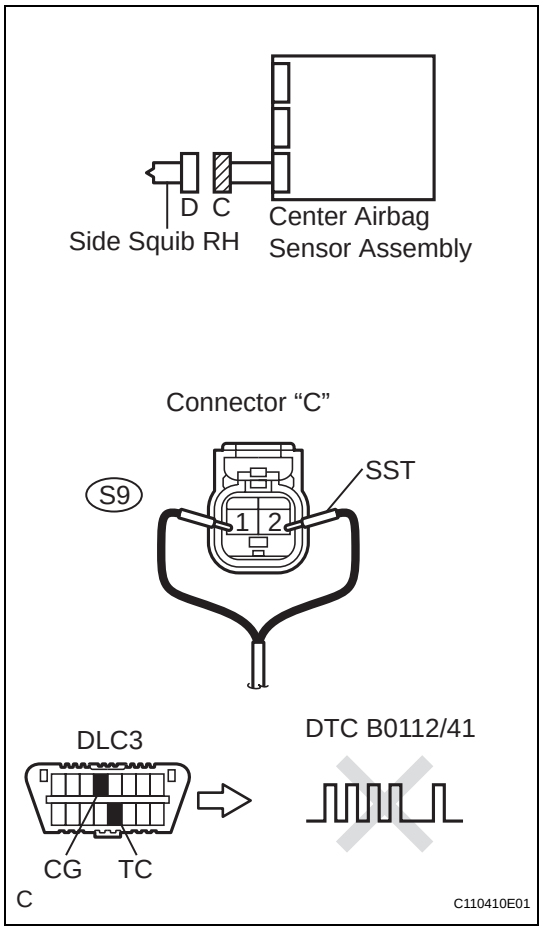
DTC No.	DTC Detecting Condition	Trouble Area
B0112/41	• Short circuit in side squib RH wire harness (to ground) • Side squib RH malfunction • Center airbag sensor assembly malfunction	• Front seat side airbag assembly RH (Side squib RH) • Center airbag sensor assembly • Floor wire

RS

WIRING DIAGRAM

See page RS-71.

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



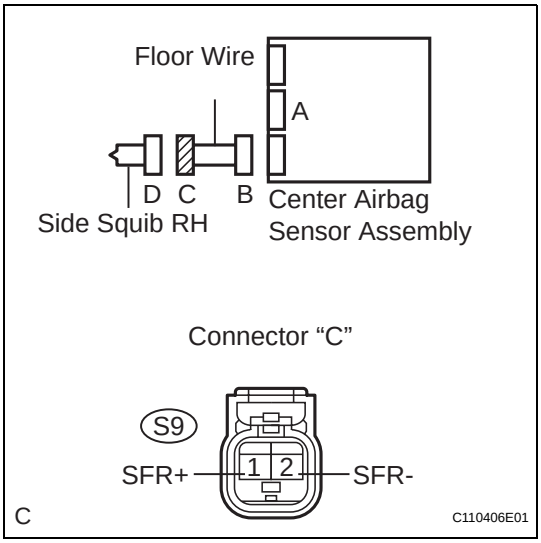
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat side airbag assembly RH.
(d) Connect the black wire side of SST (resistance 2.1 Ω) to the floor wire.
CAUTION:
Never connect a tester to the front seat side airbag assembly RH (Side squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0112/41 is not output.
HINT:
Codes other than DTC B0112/41 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE FRONT SEAT SIDE AIRBAG ASSEMBLY RH

2 CHECK FLOOR WIRE (SIDE SQUIB RH CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

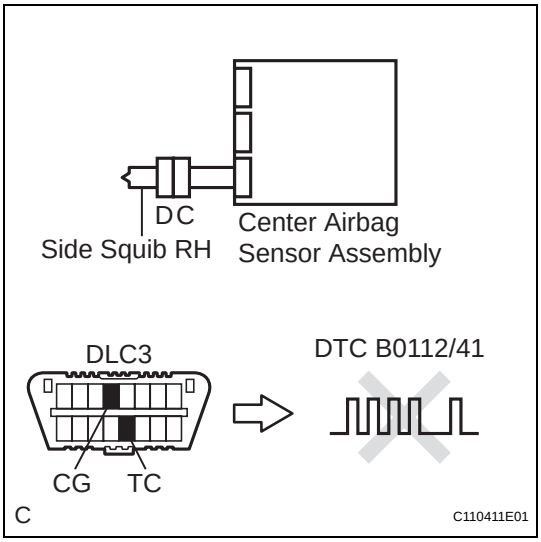
Resistance

Tester connection	Condition	Specified condition
S9-1 (SFR+) - Body ground	Always	1 MΩ or higher
S9-2 (SFR-) - Body ground	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front seat side airbag assembly RH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0112/41 is not output.

HINT:

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

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

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

DESCRIPTION

The side squib RH circuit consists of the center airbag sensor assembly and the front seat side airbag assembly RH (side squib RH).
This circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0113/42 is recorded when a short to B+ is detected in the side squib RH circuit.

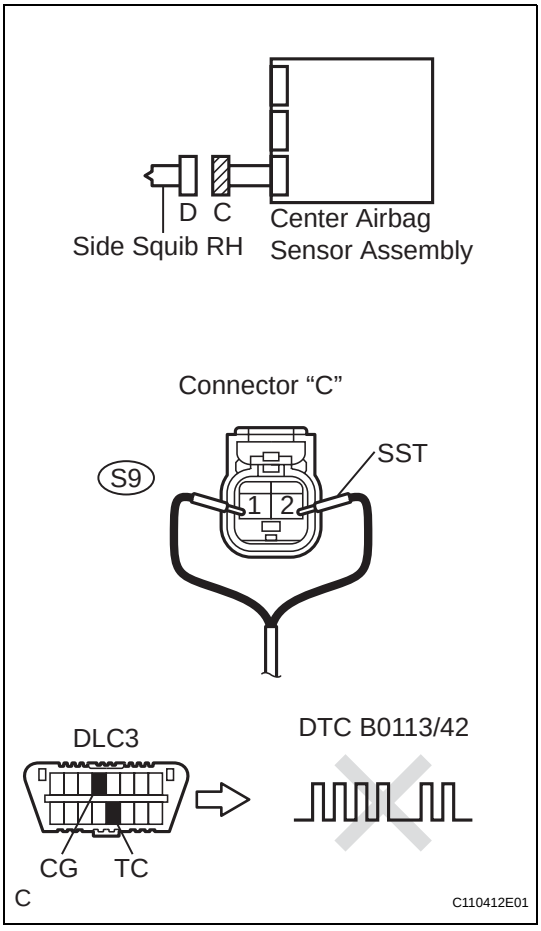
DTC No.	DTC Detecting Condition	Trouble Area
B0113/42	• Short circuit in side squib RH wire harness (to B+) • Side squib RH malfunction • Center airbag sensor assembly malfunction	• Front seat side airbag assembly RH (Side squib RH) • Center airbag sensor assembly • Floor wire

RS

WIRING DIAGRAM

See page RS-71.

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



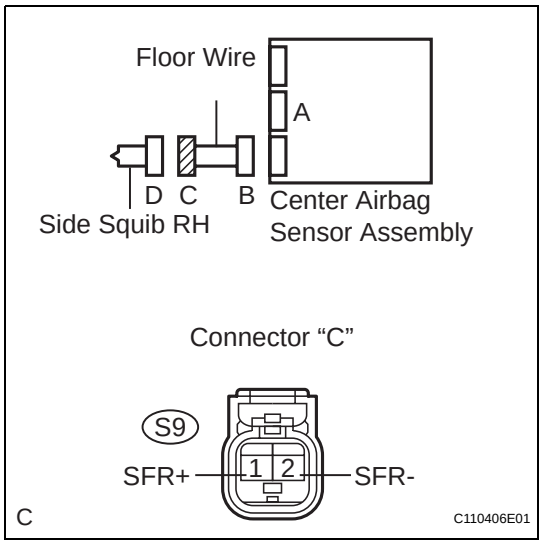
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat side airbag assembly RH.
(d) Connect the black wire side of SST (resistance 2.1 Ω) to the floor wire.
CAUTION:
Never connect a tester to the front seat side airbag assembly RH (Side squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0113/42 is not output.
HINT:
Codes other than DTC B0113/42 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE FRONT SEAT SIDE AIRBAG ASSEMBLY RH

2 CHECK FLOOR WIRE (SIDE SQUIB RH CIRCUIT)



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

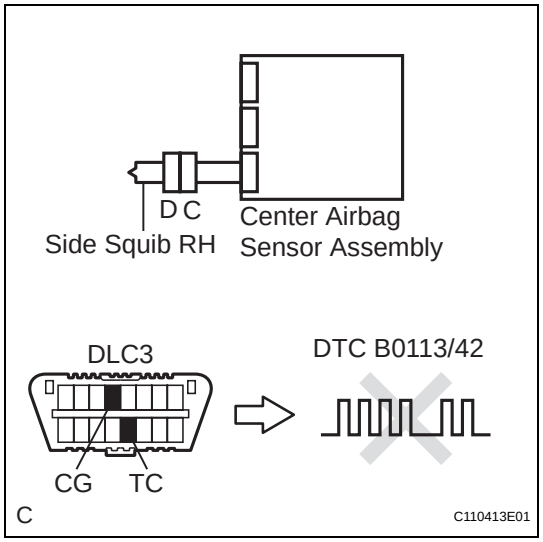
Voltage

Tester connection	Condition	Specified condition
S9-1 (SFR+) - Body ground	Ignition switch ON	Below 1 V
S9-2 (SFR-) - Body ground	Ignition switch ON	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the front seat side airbag assembly RH and the center airbag sensor assembly.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (See page RS-32).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (See page RS-32).

OK:

DTC B0113/42 is not output.

HINT:

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

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

DTC	B0115/47	Short in Side Squib LH Circuit

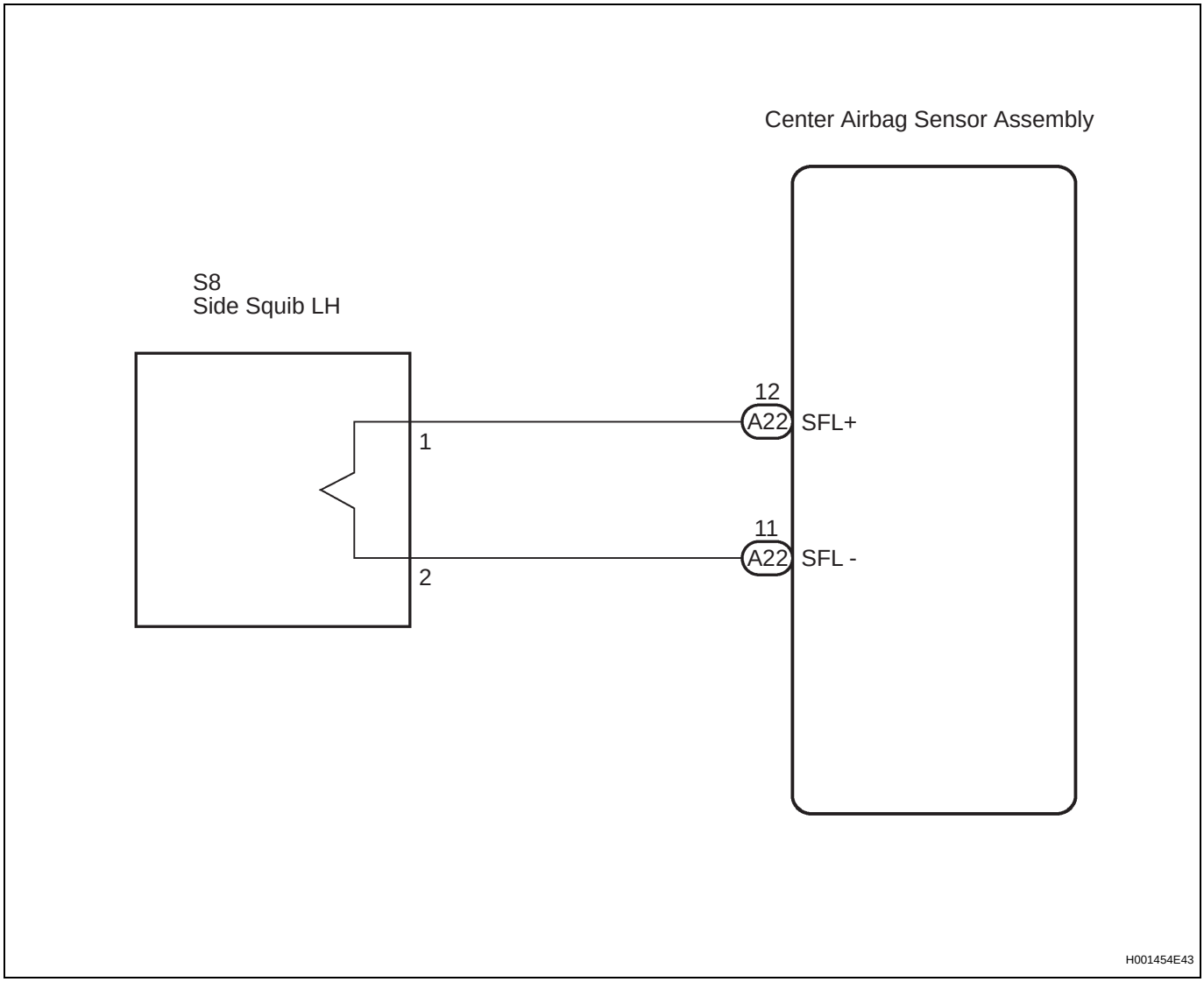
DESCRIPTION

The side squib LH circuit consists of the center airbag sensor assembly and the front seat side airbag assembly LH (side squib LH).
This circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0115/47 is recorded when a short circuit is detected in the side squib LH circuit.

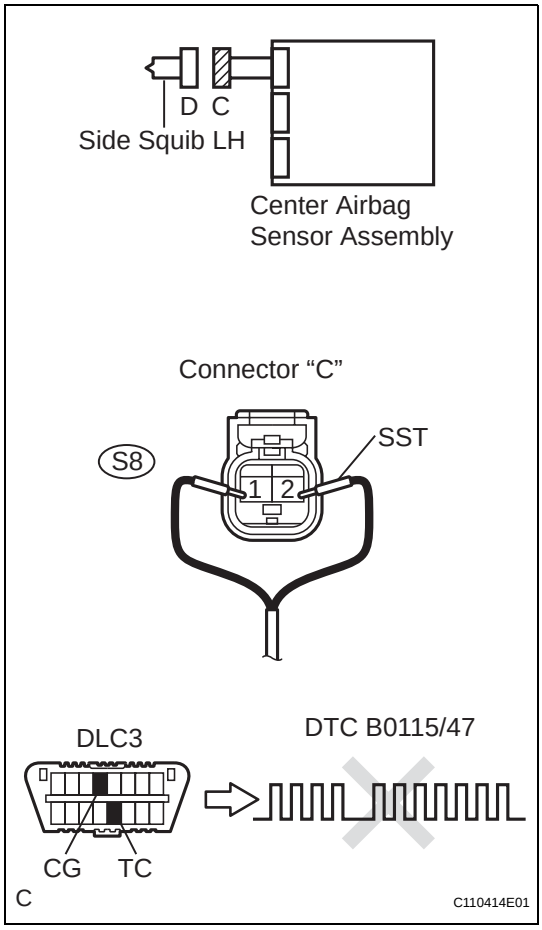
DTC No.	DTC Detecting Condition	Trouble Area
B0115/47	• Short circuit between SFL+ wire harness and SFL- wire harness of side squib LH • Side squib LH malfunction • Center airbag sensor assembly malfunction	• Front seat side airbag assembly LH (Side squib LH) • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM



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



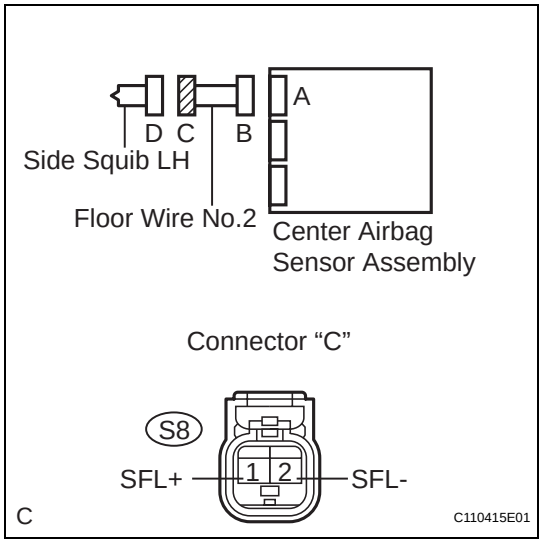
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat side airbag assembly LH.
(d) Connect the black wire side of SST (resistance 2.1 Ω) to the floor wire No.2.
CAUTION:
Never connect a tester to the front seat side airbag assembly LH (Side squib LH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0115/47 is not output.
HINT:
Codes other than DTC B0115/47 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK

REPLACE FRONT SEAT AIRBAG ASSEMBLY LH

2 CHECK FLOOR WIRE NO.2 (SIDE SQUIB LH CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Release the activation prevention mechanism built into connector "B" (See page RS-25).
(c) Measure the resistance according to the value(s) in the table below.

Resistance

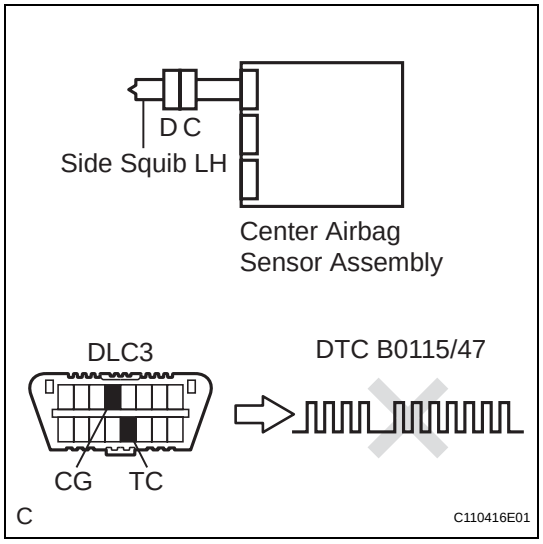
Tester connection	Condition	Specified condition
S8-1 (SFL+) - S8-2 (SFL-)	Always	1 MΩ or higher

RS

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front seat side airbag assembly LH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0115/47 is not output.

HINT:

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

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

DTC	B0116/48	Open in Side Squib LH Circuit

DESCRIPTION

The side squib LH circuit consists of the center airbag sensor assembly and the front seat side airbag assembly LH (side squib LH).
This circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0116/48 is recorded when an open circuit is detected in the side squib LH circuit.

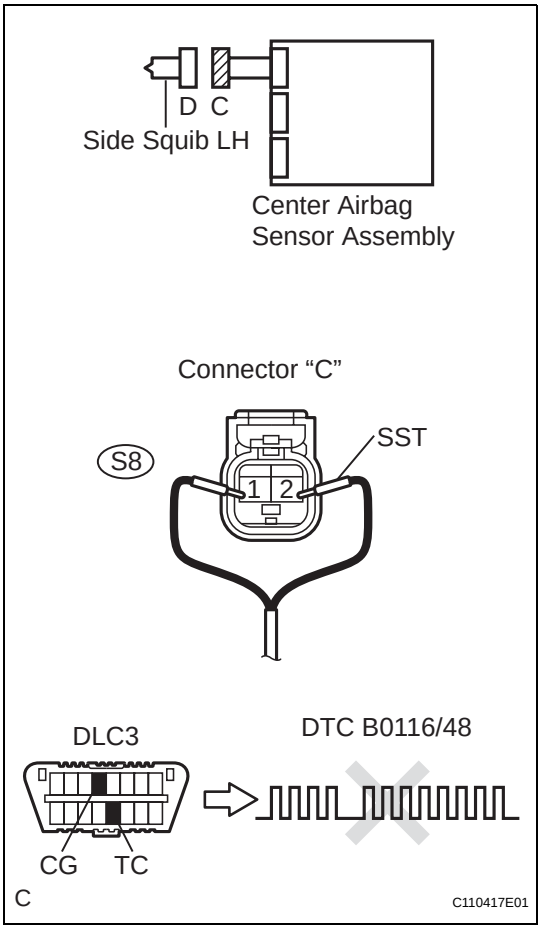
DTC No.	DTC Detecting Condition	Trouble Area
B0116/48	• Open circuit in SFL+ wire harness or SFL- wire harness of side squib LH • Side squib LH malfunction • Center airbag sensor assembly malfunction	• Front seat side airbag assembly LH (Side squib LH) • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM

See page RS-83.

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



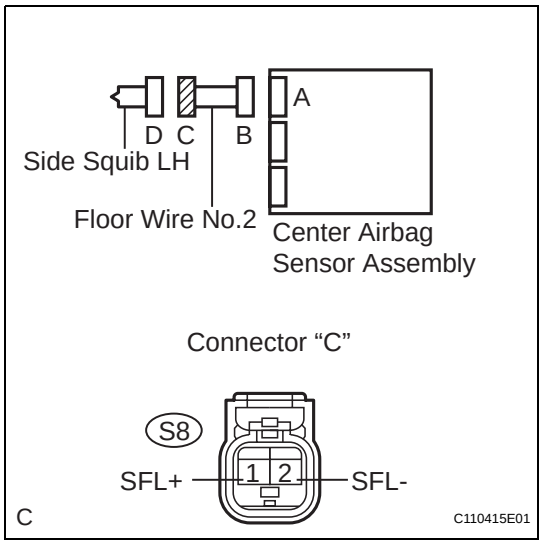
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat side airbag assembly LH.
(d) Connect the black wire side of SST (resistance 2.1 Ω) to the floor wire No.2.
CAUTION:
Never connect a tester to the front seat side airbag assembly LH (Side squib LH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0116/48 is not output.
HINT:
Codes other than DTC B0116/48 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE FRONT SEAT SIDE AIRBAG ASSEMBLY LH

2 CHECK FLOOR WIRE NO.2 (SIDE SQUIB LH CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

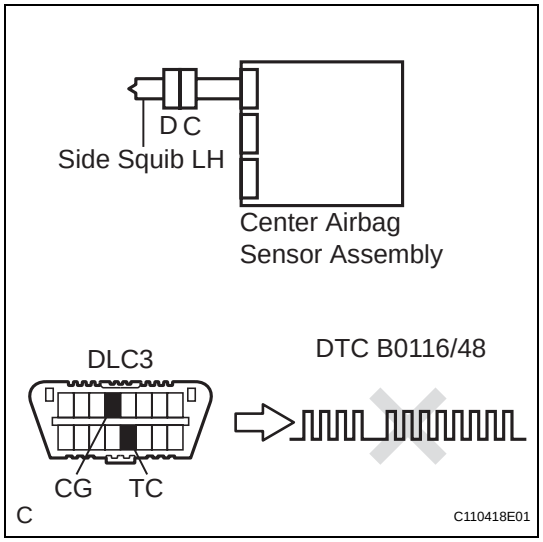
Resistance

Tester connection	Condition	Specified condition
S8-1 (SFL+) - S8-2 (SFL-)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front seat side airbag assembly LH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0116/48 is not output.

HINT:

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

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

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

DESCRIPTION

The side squib LH circuit consists of the center airbag sensor assembly and the front seat side airbag assembly LH (side squib LH).
This circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0117/45 is recorded when a short to ground is detected in the side squib LH circuit.

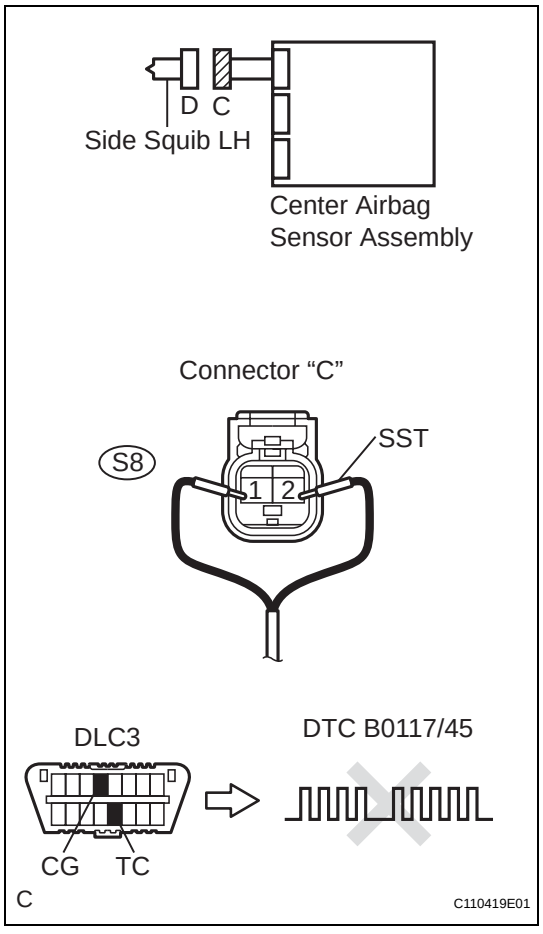
DTC No.	DTC Detecting Condition	Trouble Area
B0117/45	• Short circuit in side squib LH wire harness (to ground) • Side squib LH malfunction • Center airbag sensor assembly malfunction	• Front seat side airbag assembly LH (Side squib LH) • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM

See page RS-83.

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



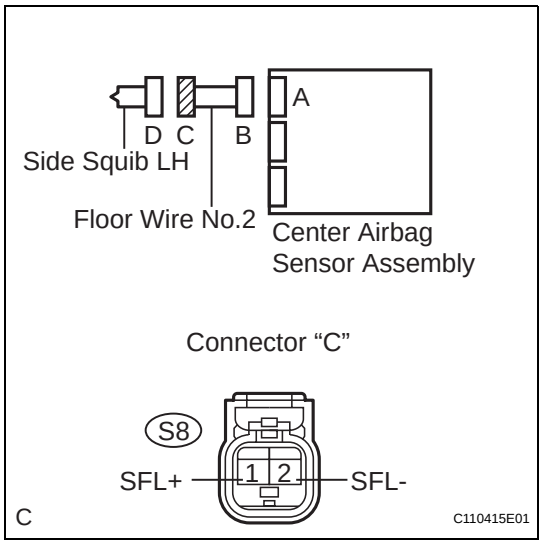
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat side airbag assembly LH.
(d) Connect the black wire side of SST (resistance 2.1 Ω) to the floor wire No.2.
CAUTION:
Never connect a tester to the front seat side airbag assembly LH (Side squib LH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0117/45 is not output.
HINT:
Codes other than DTC B0117/45 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE FRONT SEAT SIDE AIRBAG ASSEMBLY LH

2 CHECK FLOOR WIRE NO.2 (SIDE SQUIB LH CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

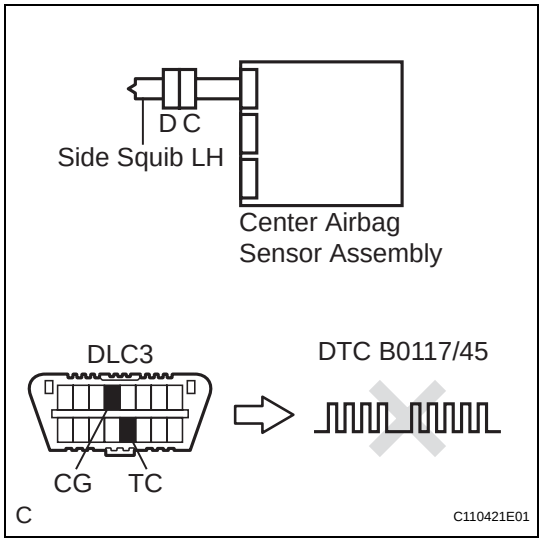
Resistance

Tester connection	Condition	Specified condition
S8-1 (SFL+) - Body ground	Always	1 MΩ or higher
S8-2 (SFL-) - Body ground	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front seat side airbag assembly LH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0117/45 is not output.

HINT:

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

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

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

DESCRIPTION

The side squib LH circuit consists of the center airbag sensor assembly and the front seat side airbag assembly LH (side squib LH).
This circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0118/46 is recorded when a short to B+ is detected in the side squib LH circuit.

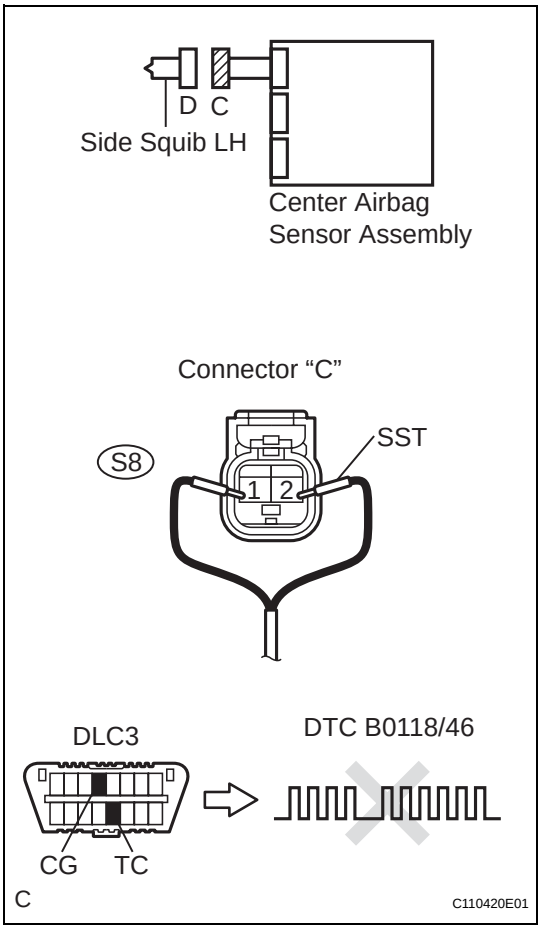
DTC No.	DTC Detecting Condition	Trouble Area
B0118/46	• Short circuit in side squib LH wire harness (to B+) • Side squib LH malfunction • Center airbag sensor assembly malfunction	• Front seat side airbag assembly LH (Side squib LH) • Center airbag sensor assembly • Floor wire No.2

RS

DESCRIPTION

See page RS-83.

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



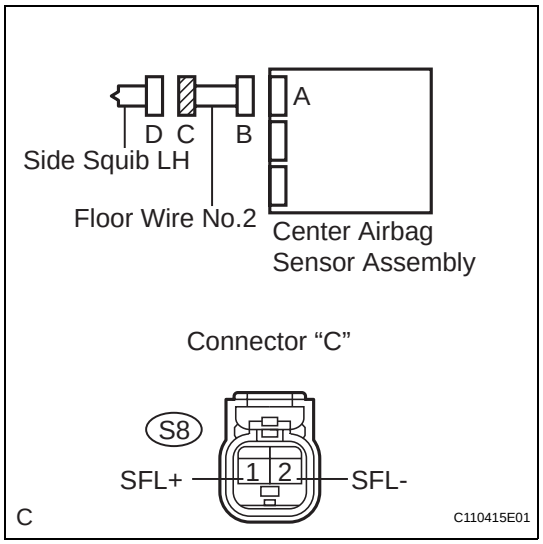
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat side airbag assembly LH.
(d) Connect the black wire side of SST (resistance 2.1 Ω) to the floor wire No.2.
CAUTION:
Never connect a tester to the front seat side airbag assembly LH (Side squib LH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0118/46 is not output.
HINT:
Codes other than DTC B0118/46 may be output at this time, but they are not related to this check.

NG	Go to step 2

OK

REPLACE FRONT SEAT SIDE AIRBAG ASSEMBLY LH

2 CHECK FLOOR WIRE NO.2 (SIDE SQUIB LH CIRCUIT)



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

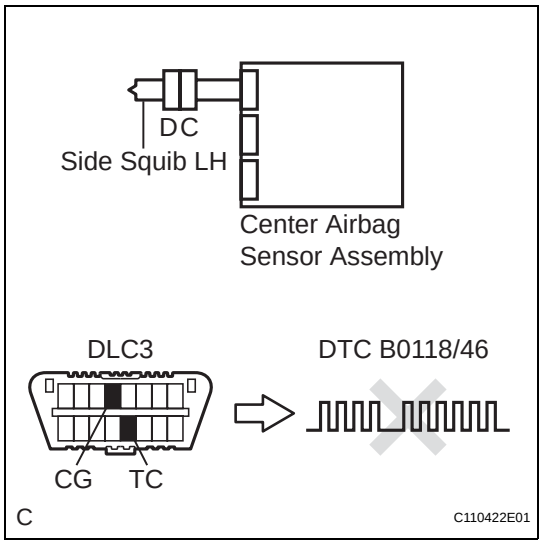
Voltage

Tester connection	Condition	Specified condition
S8-1 (SFL+) - Body ground	Ignition switch ON	Below 1 V
S8-2 (SFL-) - Body ground	Ignition switch ON	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the front seat side airbag assembly LH and the center airbag sensor assembly.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (See page RS-32).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (See page RS-32).

OK:

DTC B0118/46 is not output.

HINT:

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

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

RS

OK

USE SIMULATION METHOD TO CHECK

DTC	B0126/27	Seat Belt Buckle Switch LH Circuit Malfunction

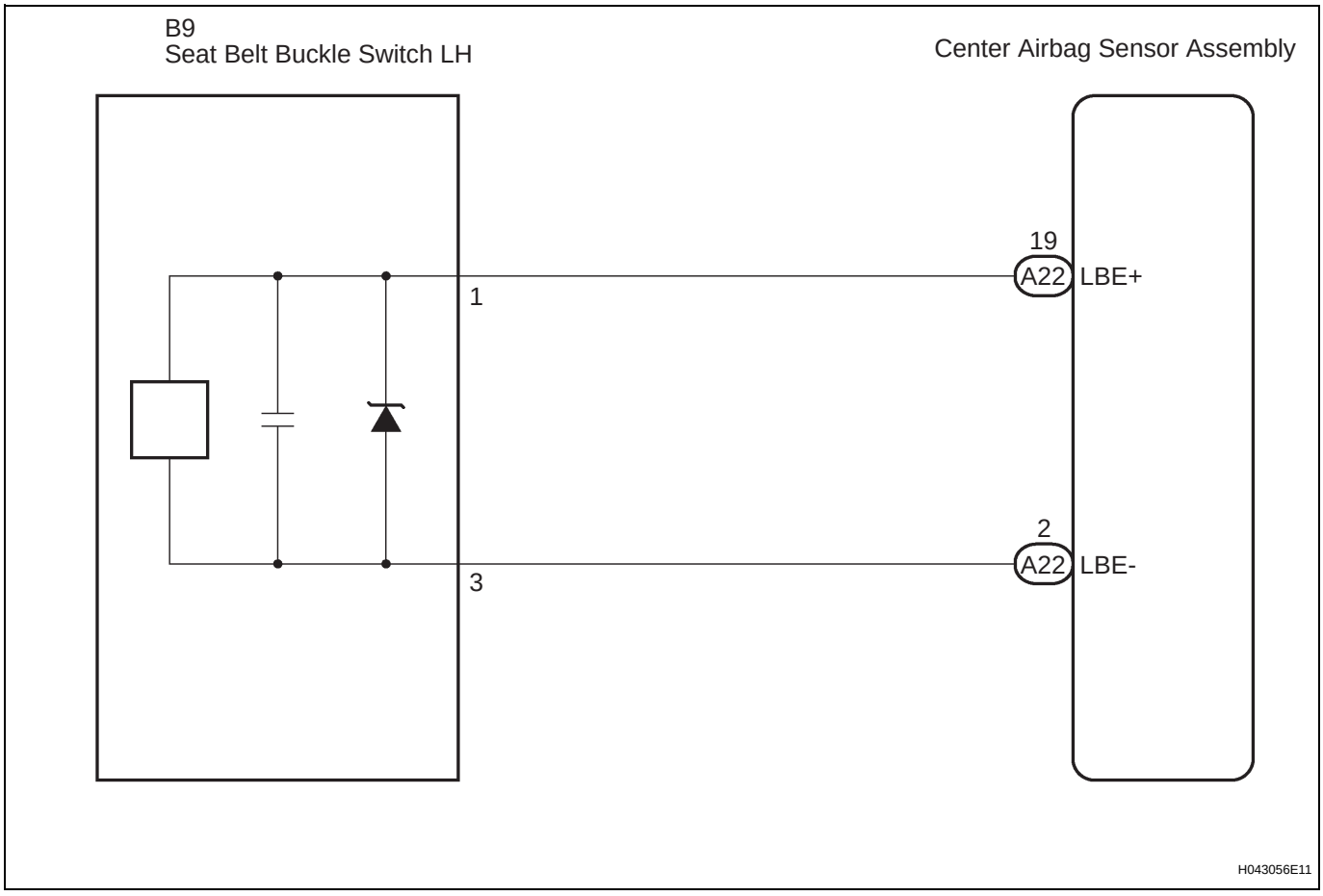
DESCRIPTION

The seat belt buckle switch LH circuit consists of the center airbag sensor assembly and the front seat inner belt assembly LH (seat belt buckle switch LH).
DTC B0126/27 is recorded when a malfunction is detected in the seat belt buckle switch LH circuit.

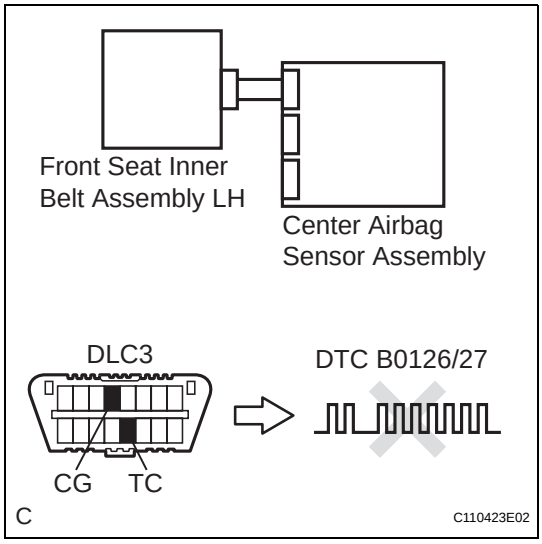
DTC No.	DTC Detecting Condition	Trouble Area
B0126/27	• Short circuit in front seat inner belt assembly LH wire harness (to B+) • Short circuit in front seat inner belt assembly LH wire harness (to ground) • Open circuit in LBE+ wire harness or LBE- wire harness of front seat inner belt assembly LH • Front seat inner belt assembly LH malfunction • Center airbag sensor assembly malfunction	• Front seat inner belt assembly LH (Seat belt buckle switch LH) • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM



1	CHECK DTC



(a) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(b) Clear the DTCs stored in memory (See page RS-32).
(c) Turn the ignition switch to the LOCK position.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Check the DTCs (See page RS-32).

OK:

DTC B0126/27 is not output.

HINT:

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

NG → **Go to step 2**

OK

USE SIMULATION METHOD TO CHECK

2	CHECK CONNECTION OF CONNECTORS

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

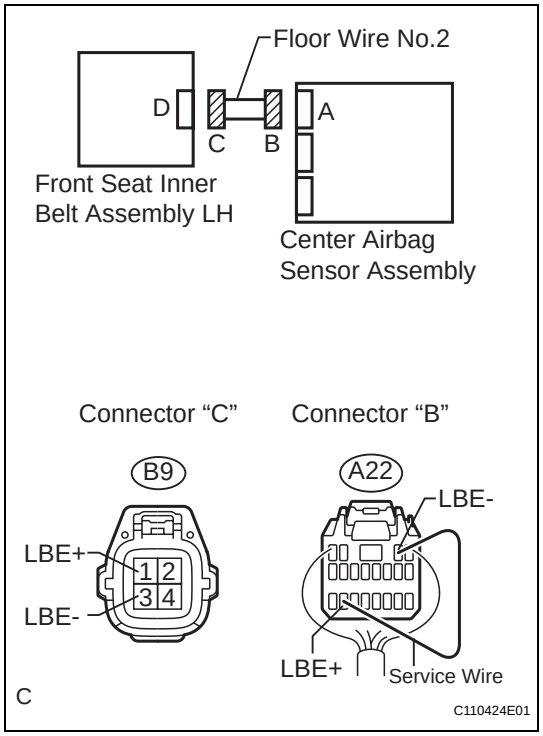
OK:

The connectors are connected.

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

OK

3 CHECK FLOOR WIRE NO.2 (OPEN)



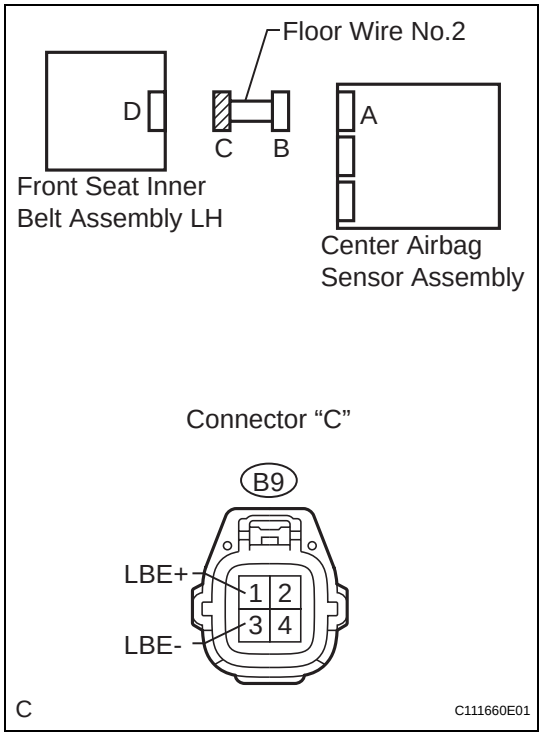
(a) Disconnect the connectors from the center airbag sensor assembly and the front seat inner belt assembly LH.
(b) Using a service wire, connect A22-19 (LBE+) and A22-2 (LBE-) of connector "B".
HINT:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(c) Measure the voltage according to the value(s) in the table below.
Voltage

Tester connection	Condition	Specified condition
B9-1 (LBE+) - B9-3 (LBE-)	Always	Below 1 V

NG → REPAIR OR REPLACE FLOOR WIRE NO.2

OK

4 CHECK FLOOR WIRE NO.2 (SHORT TO B+)



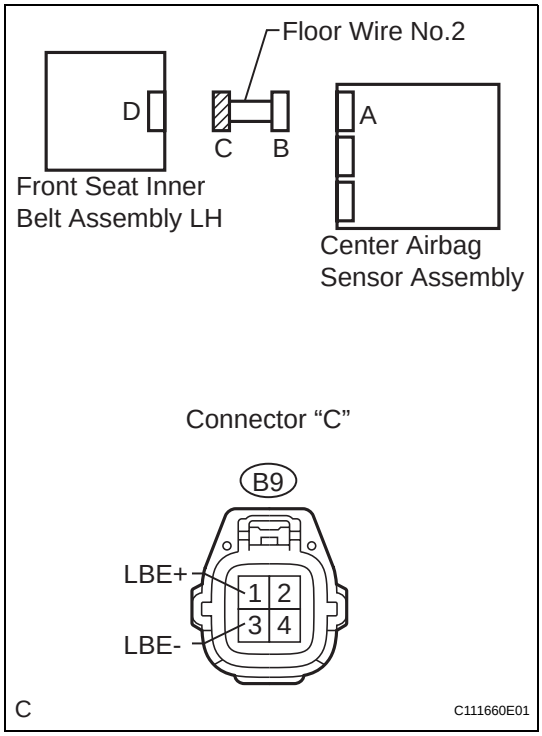
(a) Disconnect the service wire from connector "B".
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position.
(d) Measure the voltage according to the value(s) in the table below.
Voltage

Tester connection	Condition	Specified condition
B9-1 (LBE+) - Body ground	Ignition switch ON	Below 1 V
B9-3 (LBE-) - Body ground	Ignition switch ON	Below 1 V

NG → REPAIR OR REPLACE FLOOR WIRE NO.2

OK

5 CHECK FLOOR WIRE NO.2 (SHORT TO GROUND)



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

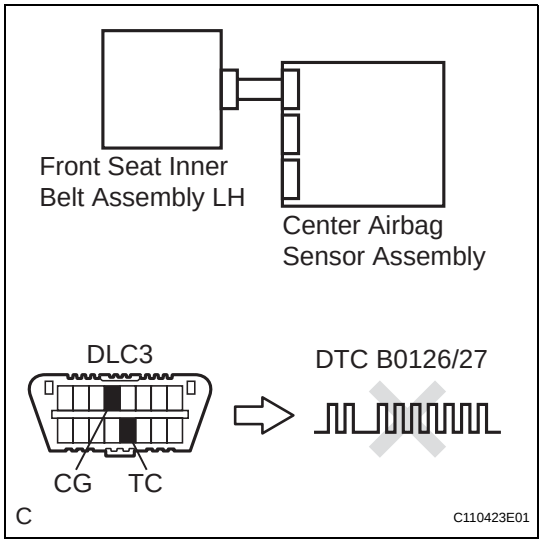
Resistance

Tester connection	Condition	Specified condition
B9-1 (LBE+) - Body ground	Always	1 MΩ or higher
B9-3 (LBE-) - Body ground	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

6 CHECK FRONT SEAT INNER BELT ASSEMBLY LH



(a) Connect the connectors to the front seat inner belt assembly LH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0126/27 is not output.

HINT:

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

NG → **Go to step 7**

OK

USE SIMULATION METHOD TO CHECK

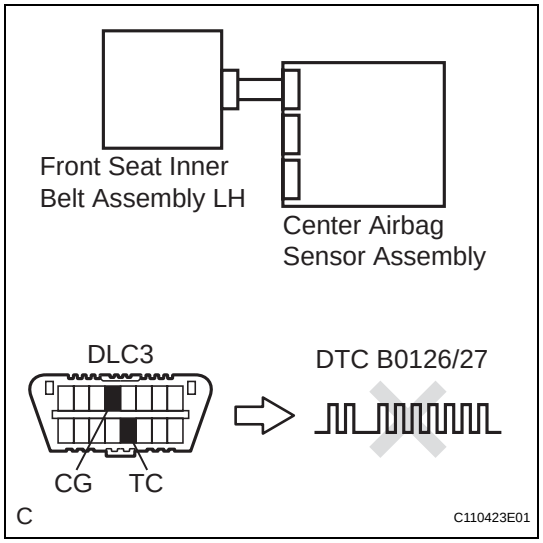
7	REPLACE FRONT SEAT INNER BELT ASSEMBLY LH

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Replace the front seat inner belt assembly LH (See page SB-15).
HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

RS

8	CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(b) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(c) Clear the DTCs stored in memory (See page RS-32).
(d) Turn the ignition switch to the LOCK position.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Check the DTCs (See page RS-32).
OK:
DTC B0126/27 is not output.
HINT:
Codes other than code B0126/27 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

END

DTC	B0130/63	Short in Front Pretensioner Squib RH Circuit

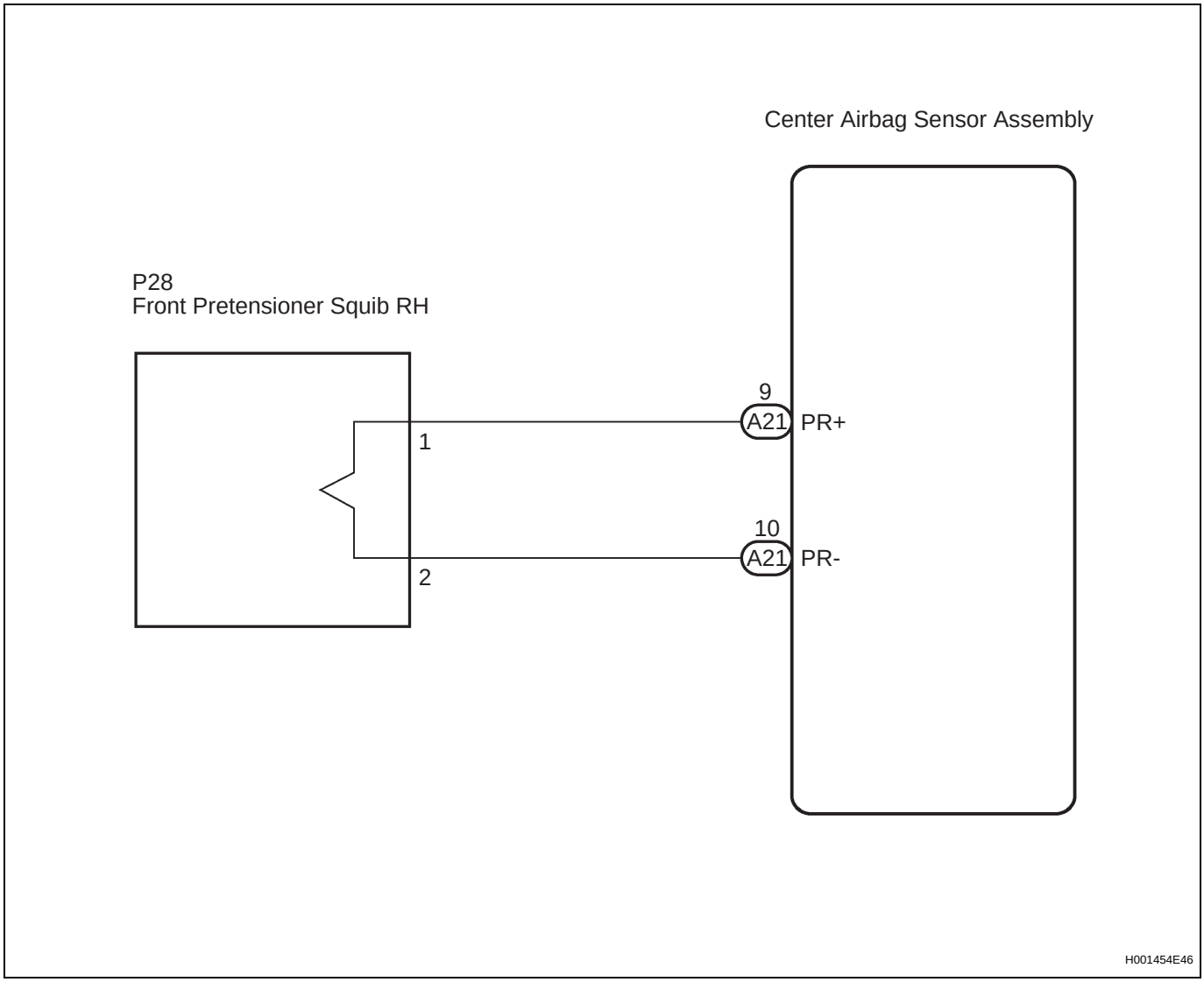
DESCRIPTION

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

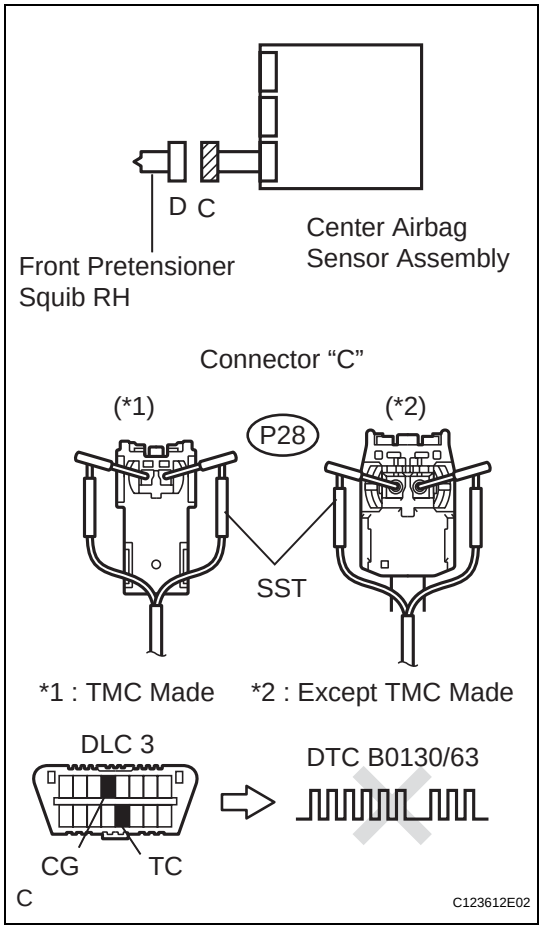
DTC No.	DTC Detecting Condition	Trouble Area
B0130/63	• Short circuit between PR+ wire harness and PR- wire harness of front pretensioner squib RH • Front pretensioner squib RH malfunction • Center airbag sensor assembly malfunction	• Front seat outer belt assembly RH (Front pretensioner squib RH) • Center airbag sensor assembly • Floor wire

RS

WIRING DIAGRAM



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



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat outer belt assembly RH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire.
CAUTION:
Never connect a tester to the front seat outer belt assembly RH (Front pretensioner squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0130/63 is not output.
HINT:
Codes other than DTC B0130/63 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK

REPLACE FRONT SEAT OUTER BELT ASSEMBLY RH

2	CHECK CONNECTORS

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the SST (resistance 2.1 Ω) from the floor wire.
(d) Check that the floor wire connectors (on the front seat outer belt assembly RH side) are not damaged.

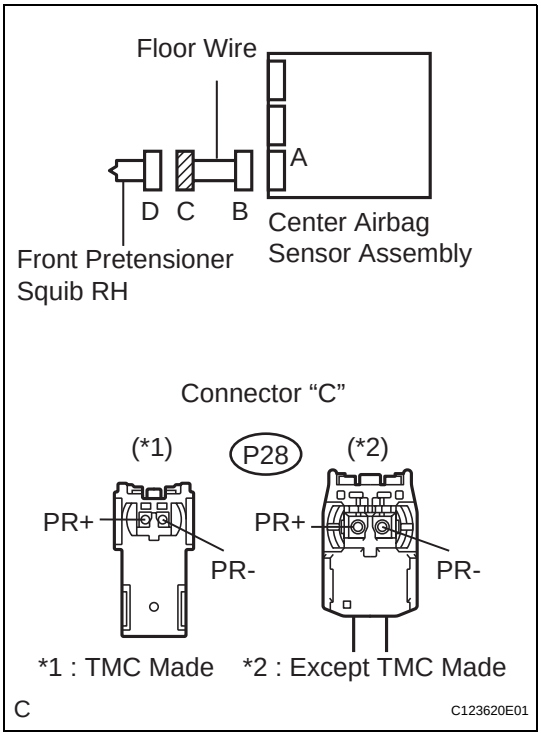
OK:

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

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

3 CHECK FLOOR WIRE (FRONT PRETENSIONER SQUIB RH CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Release the activation prevention mechanism built into connector "B" (See page RS-25).
(c) Measure the resistance according to the value(s) in the table below.

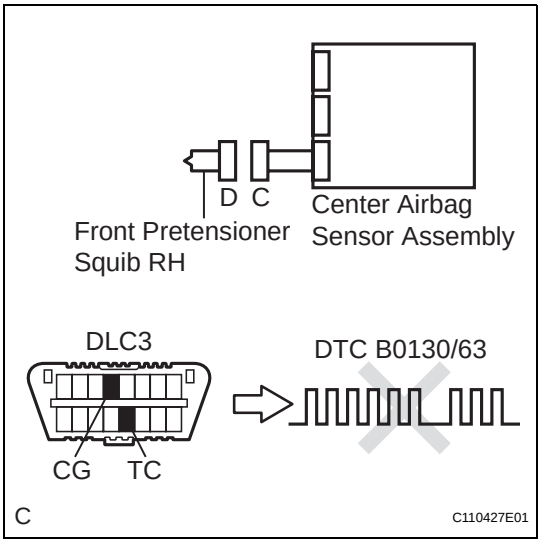
Resistance

Tester connection	Condition	Specified condition
P28-1 (PR+) - P28-2 (PR-)	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front seat outer belt assembly RH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0130/63 is not output.

HINT:

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

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

DTC B0131/64 Open in Front Pretensioner Squib RH Circuit

DESCRIPTION

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

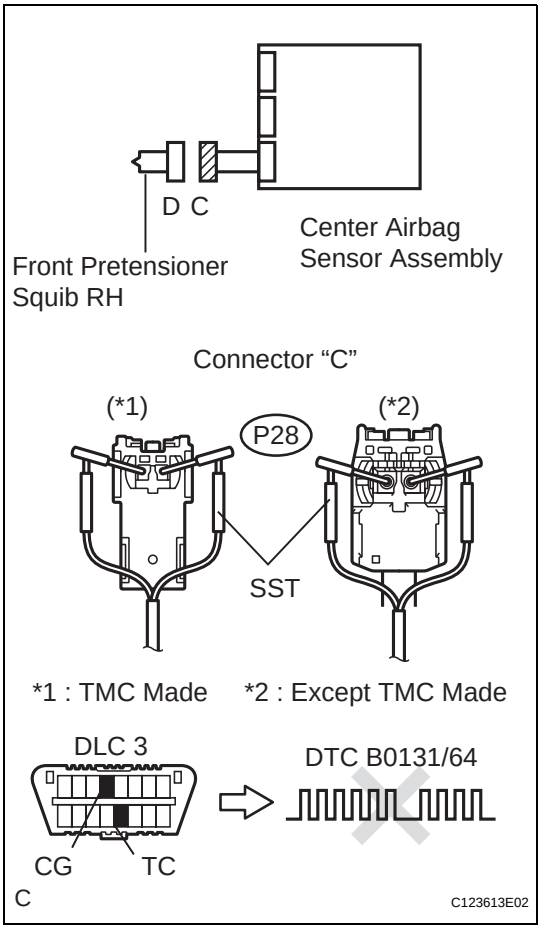
DTC No.	DTC Detecting Condition	Trouble Area
B0131/64	• Open circuit in PR+ wire harness or PR- wire harness of front pretensioner squib RH • Front pretensioner squib RH malfunction • Center airbag sensor assembly malfunction	• Front seat outer belt assembly RH (Front pretensioner squib RH) • Center airbag sensor assembly • Floor wire

RS

WIRING DIAGRAM

See page RS-100.

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



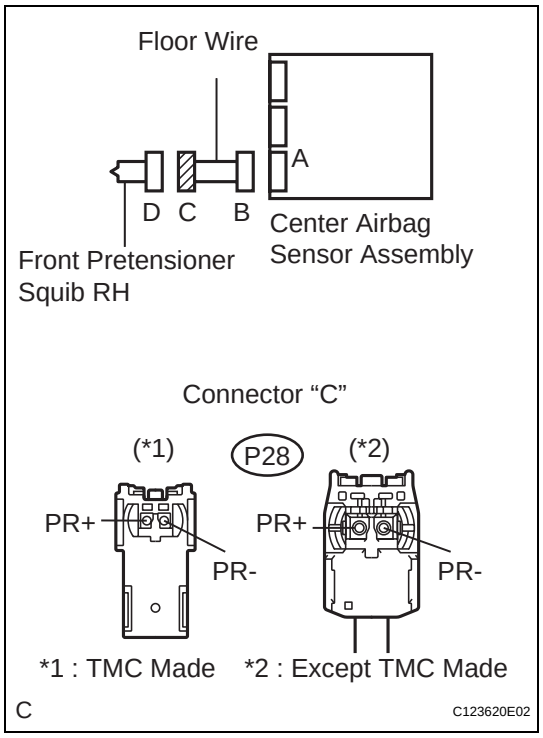
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat outer belt assembly RH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire.
CAUTION:
Never connect a tester to the front seat outer belt assembly RH (Front pretensioner squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0131/64 is not output.
HINT:
Codes other than DTC B0131/64 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE FRONT SEAT OUTER BELT ASSEMBLY RH

2 CHECK FLOOR WIRE (FRONT PRETENSIONER SQUIB RH CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

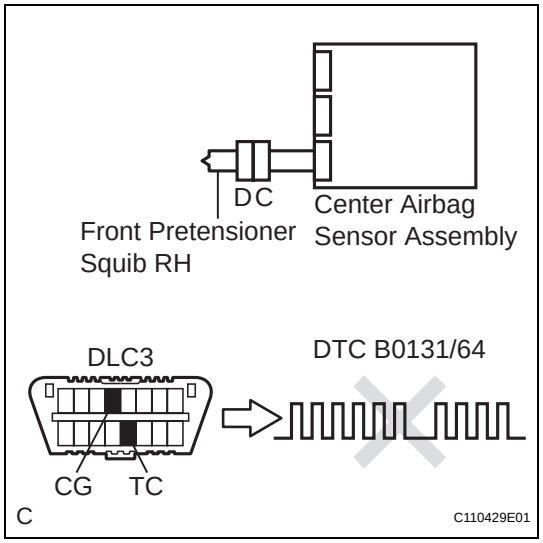
Resistance

Tester connection	Condition	Specified condition
P28-1 (PR+) - P28-2 (PR-)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front seat outer belt assembly RH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0131/64 is not output.

HINT:

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

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

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

DESCRIPTION

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

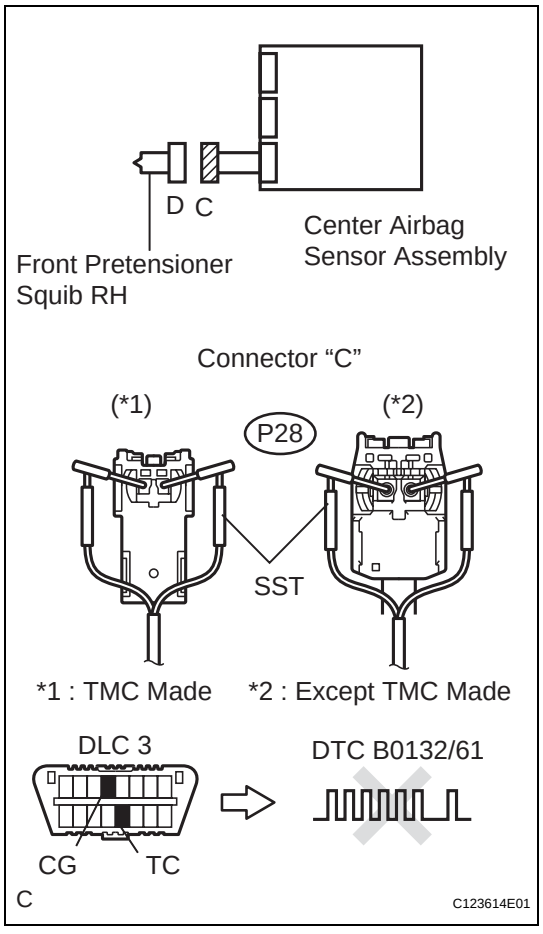
DTC No.	DTC Detecting Condition	Trouble Area
B0132/61	• Short circuit in front pretensioner squib RH wire harness (to ground) • Front pretensioner squib RH malfunction • Center airbag sensor assembly malfunction	• Front seat outer belt assembly RH (Front pretensioner squib RH) • Center airbag sensor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

RS

WIRING DIAGRAM

See page RS-100.

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



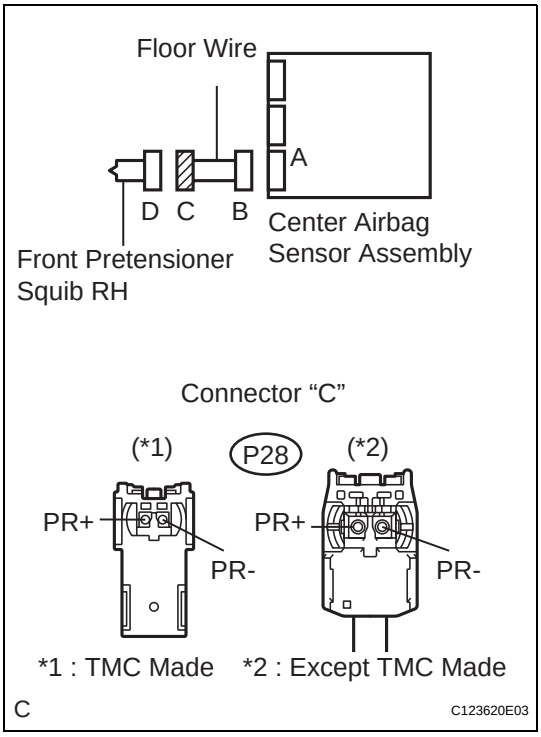
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat outer belt assembly RH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire.
CAUTION:
Never connect a tester to the front seat outer belt assembly RH (Front pretensioner squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0132/61 is not output.
HINT:
Codes other than DTC B0132/61 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE FRONT SEAT OUTER BELT ASSEMBLY RH

2 CHECK FLOOR WIRE (FRONT PRETENSIONER SQUIB RH CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

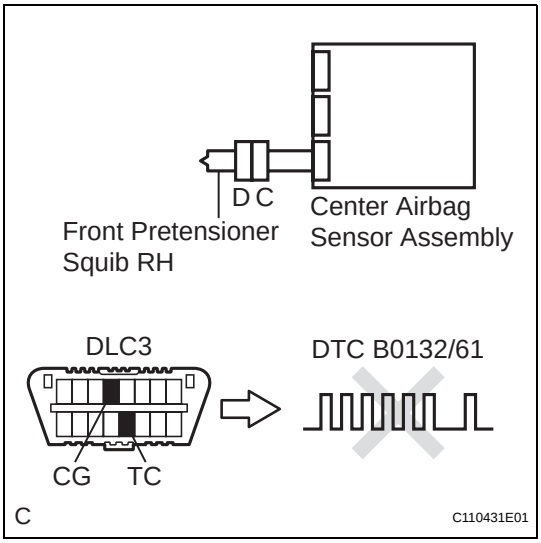
Resistance

Tester connection	Condition	Specified condition
P28-1 (PR+) - Body ground	Always	1 MΩ or higher
P28-2 (PR-) - Body ground	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front seat outer belt assembly RH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0132/61 is not output.

HINT:

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

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

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

DESCRIPTION

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

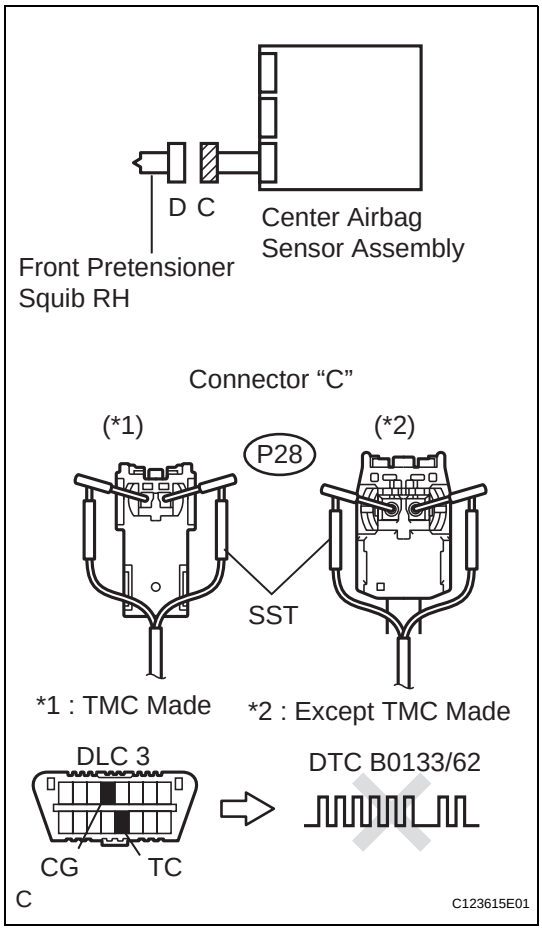
DTC No.	DTC Detecting Condition	Trouble Area
B0133/62	• Short circuit in front pretensioner squib RH wire harness (to B+) • Front pretensioner squib RH malfunction • Center airbag sensor assembly malfunction	• Front seat outer belt assembly RH (Front pretensioner squib RH) • Center airbag sensor assembly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

RS

WIRING DIAGRAM

See page RS-100.

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



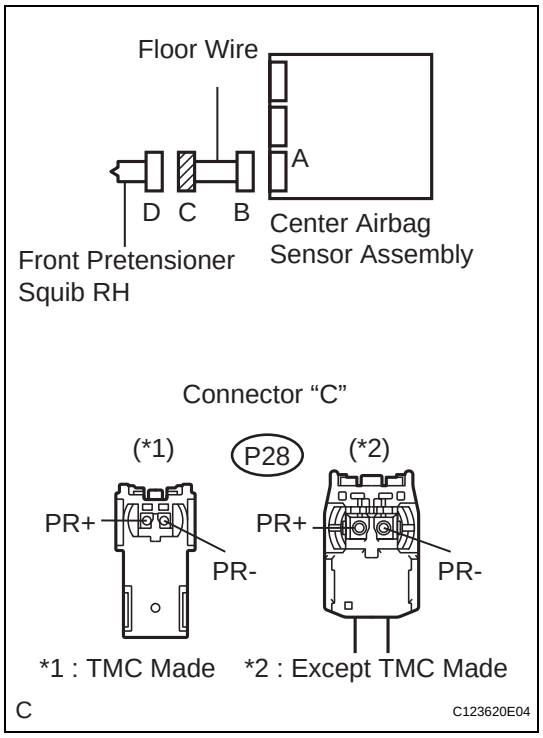
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat outer belt assembly RH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire.
CAUTION:
Never connect a tester to the front seat outer belt assembly RH (Front pretensioner squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0133/62 is not output.
HINT:
Codes other than DTC B0133/62 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE FRONT SEAT OUTER BELT ASSEMBLY RH

2 CHECK FLOOR WIRE (FRONT PRETENSIONER SQUIB RH CIRCUIT)



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

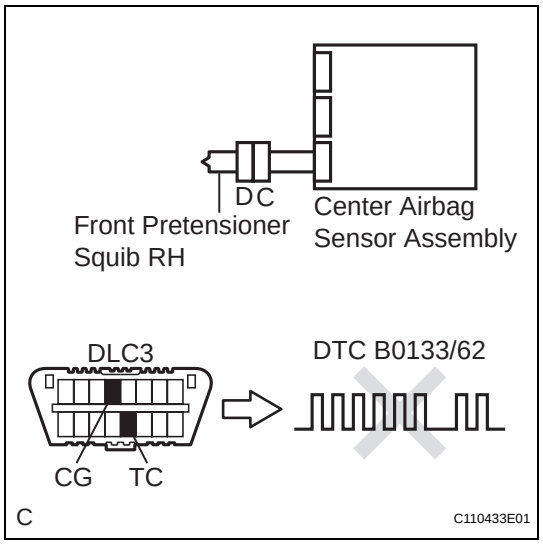
Voltage

Tester connection	Condition	Specified condition
P28-1 (PR+) - Body ground	Ignition switch ON	Below 1 V
P28-2 (PR-) - Body ground	Ignition switch ON	Below 1 V

NG → REPAIR OR REPLACE FLOOR WIRE

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the front seat outer belt assembly and the center airbag sensor assembly.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (See page RS-32).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (See page RS-32).

OK:

DTC B0133/62 is not output.

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

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

OK

USE SIMULATION METHOD TO CHECK

DTC	B0135/73	Short in Front Pretensioner Squib LH Circuit

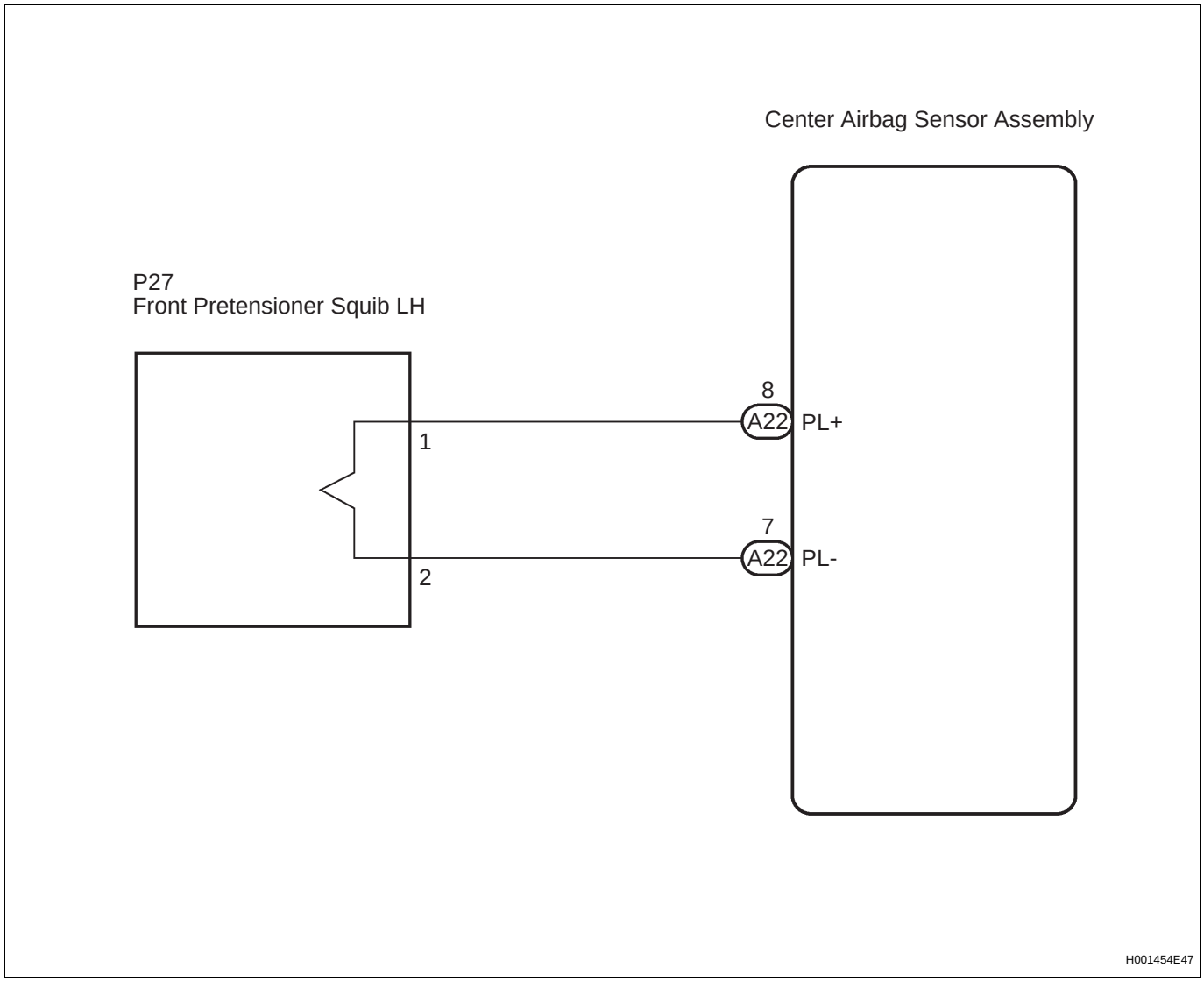
DESCRIPTION

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

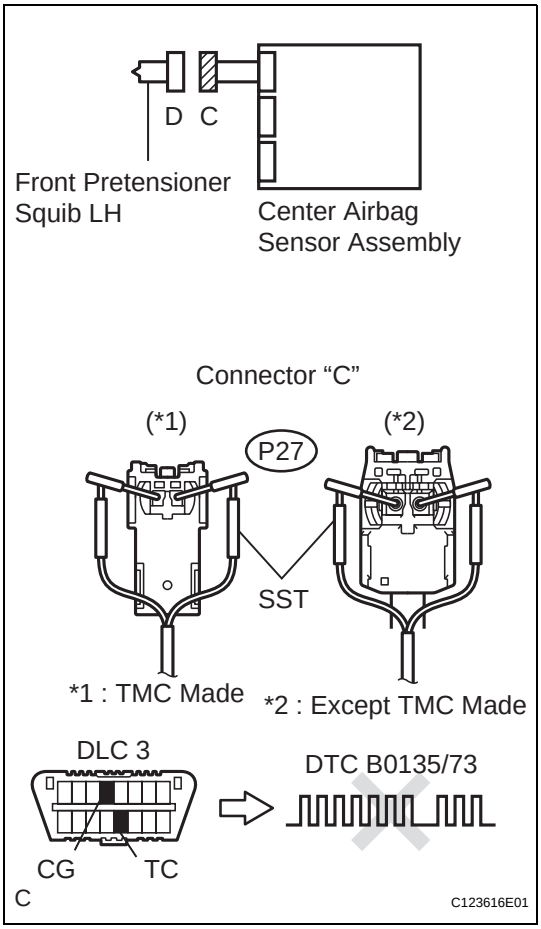
DTC No.	DTC Detecting Condition	Trouble Area
B0135/73	• Short circuit between PL+ wire harness and PL- wire harness of front pretensioner squib LH • Front pretensioner squib LH malfunction • Center airbag sensor assembly malfunction	• Front seat outer belt assembly LH (Front pretensioner squib LH) • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM



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



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat outer belt assembly LH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire No.2.
CAUTION:
Never connect a tester to the front seat outer belt assembly LH (Front pretensioner squib LH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0135/73 is not output.
HINT:
Codes other than DTC B0135/73 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK

REPLACE FRONT SEAT OUTER BELT ASSEMBLY LH

2	CHECK CONNECTORS

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the SST (resistance 2.1 Ω) from the floor wire No.2.
(d) Check that the floor wire No.2 connector (on the front seat outer belt assembly LH side) is not damaged.

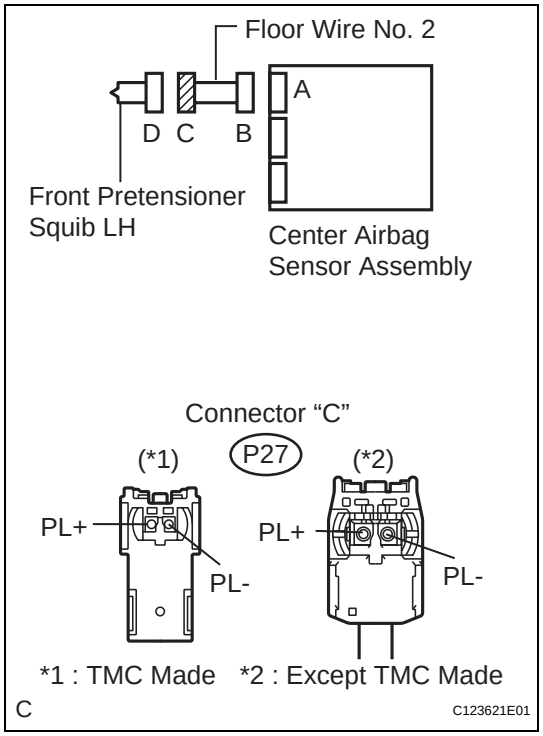
OK:

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

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

3 CHECK FLOOR WIRE NO.2 (FRONT PRETENSIONER SQUIB LH)



(a) Disconnect the connector from the center airbag sensor assembly.

(b) Release the activation prevention mechanism built into connector "B" (See page RS-25).

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

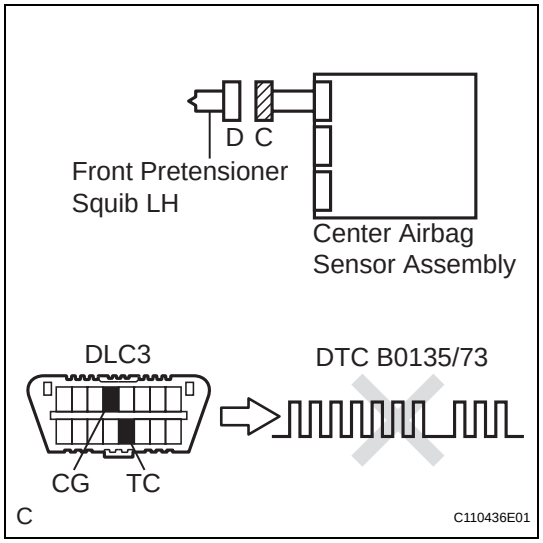
Resistance

Tester connection	Condition	Specified condition
P27-1 (PL+) - P27-2 (PL-)	Always	1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front seat outer belt assembly LH and the center airbag sensor assembly.

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

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

(d) Clear the DTCs stored in memory (See page RS-32).

(e) Turn the ignition switch to the LOCK position.

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

(g) Check the DTCs (See page RS-32).

OK:

DTC B0135/73 is not output.

HINT:

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

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

DTC	B0136/74	Open in Front Pretensioner Squib LH Circuit

DESCRIPTION

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

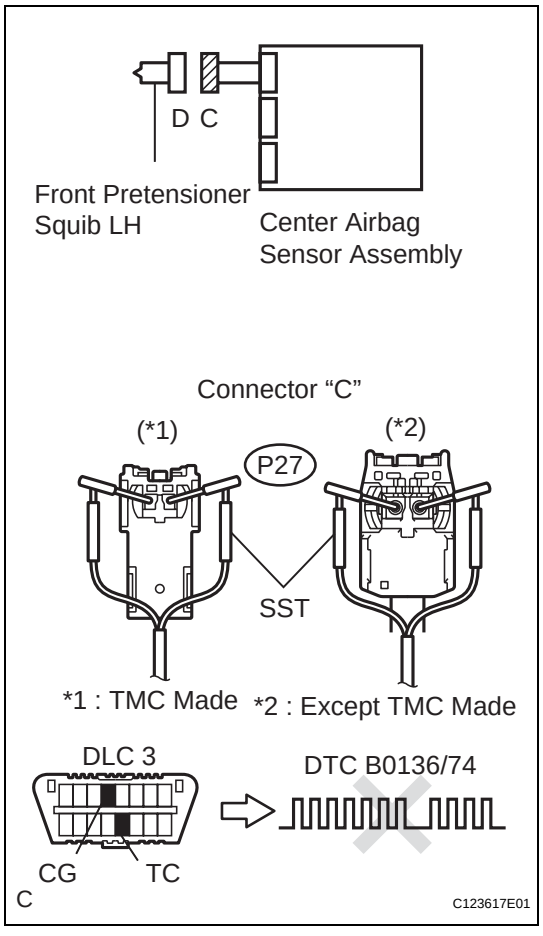
DTC No.	DTC Detecting Condition	Trouble Area
B0136/74	• Open circuit in PL+ wire harness or PL- wire harness of front pretensioner squib LH • Front pretensioner squib LH malfunction • Center airbag sensor assembly malfunction	• Front seat outer belt assembly LH (Front pretensioner squib LH) • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM

See page RS-113.

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



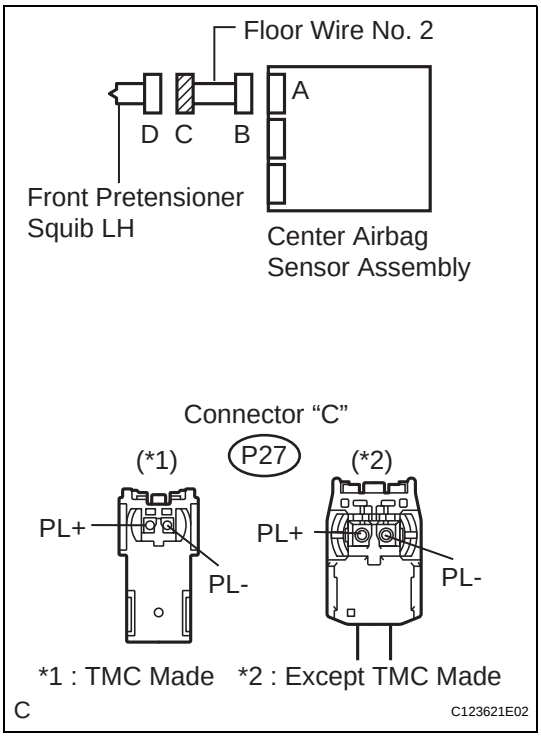
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat outer belt assembly LH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire No.2.
CAUTION:
Never connect a tester to the front seat outer belt assembly LH (Front pretensioner squib LH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0136/74 is not output.
HINT:
Codes other than DTC B0136/74 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE FRONT SEAT OUTER BELT ASSEMBLY LH

2 CHECK FLOOR WIRE NO.2 (FRONT PRETENSIONER SQUIB LH CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

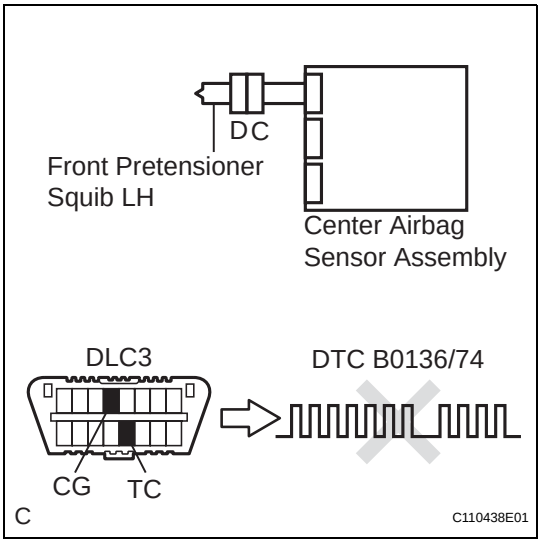
Resistance

Tester connection	Condition	Specified condition
P27-1 (PL+) - P27-2 (PL-)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front seat outer belt assembly LH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0136/74 is not output.

HINT:

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

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

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

DESCRIPTION

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

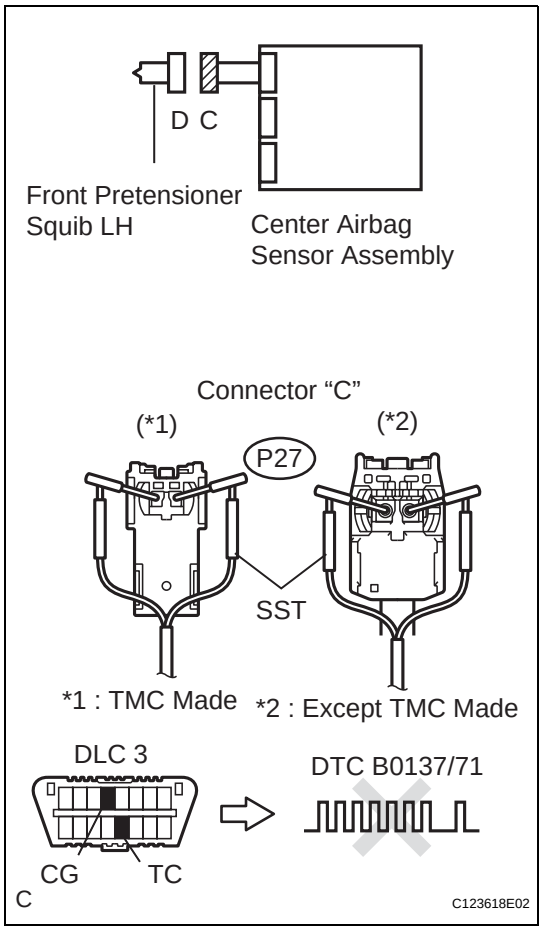
DTC No.	DTC Detecting Condition	Trouble Area
B0137/71	• Short circuit in front pretensioner squib LH wire harness (to ground) • Front pretensioner squib LH malfunction • Center airbag sensor assembly malfunction	• Front seat outer belt assembly LH (Front pretensioner squib LH) • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM

See page RS-113.

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



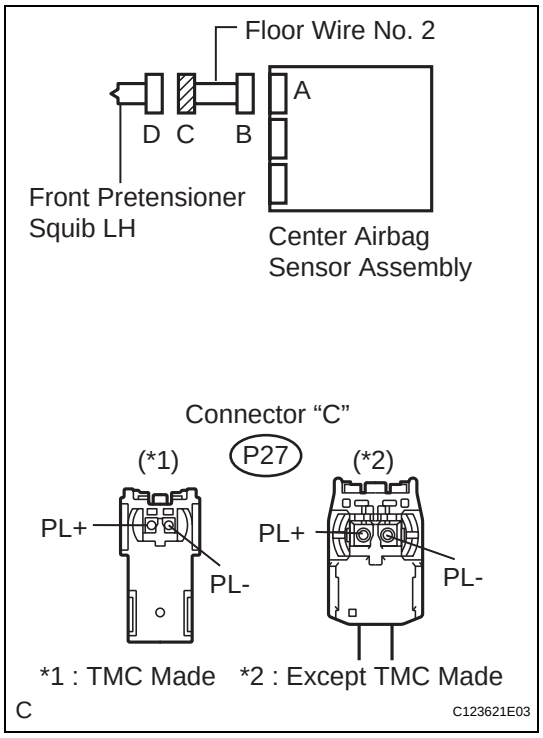
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat outer belt assembly LH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire No.2.
CAUTION:
Never connect a tester to the front seat outer belt assembly LH (Front pretensioner squib LH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0135/73 is not output.
HINT:
Codes other than DTC B0135/73 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE FRONT SEAT OUTER BELT ASSEMBLY LH

2 FLOOR WIRE NO.2 (FRONT PRETENSIONER SQUIB LH CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

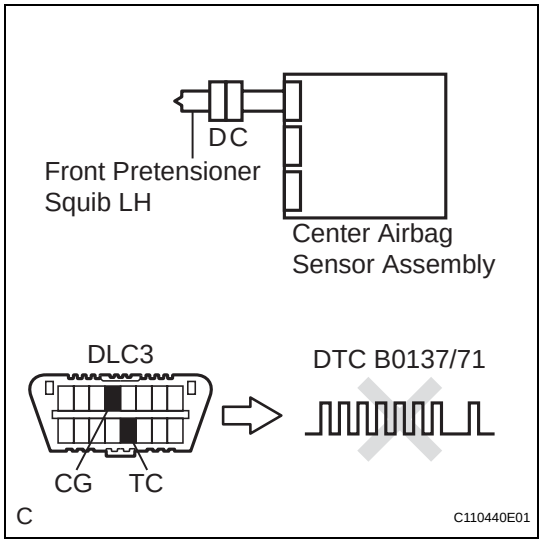
Resistance

Tester connection	Condition	Specified condition
P27-1 (PL+) - Body ground	Always	1 MΩ or higher
P27-2 (PL-) - Body ground	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front seat outer belt assembly LH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B0137/71 is not output.

HINT:

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

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

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

DESCRIPTION

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

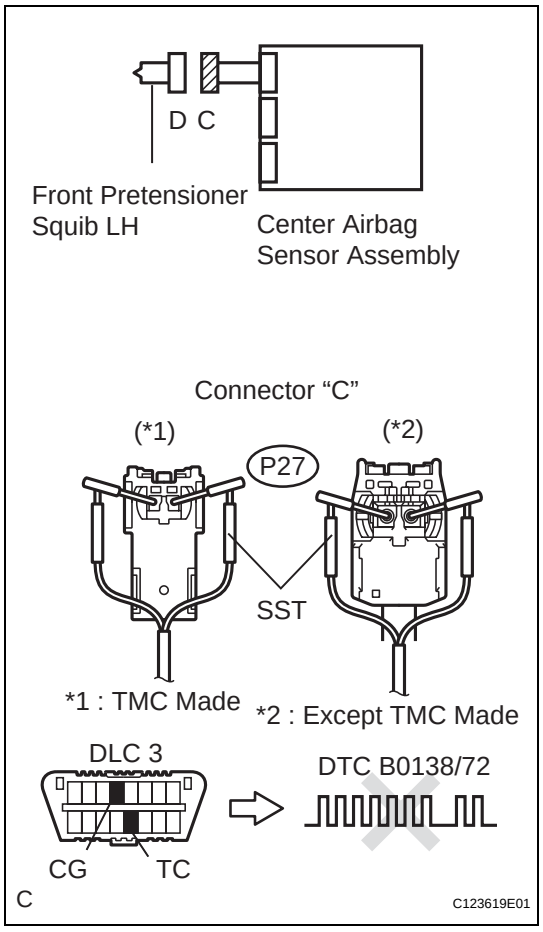
DTC No.	DTC Detecting Condition	Trouble Area
B0138/72	• Short circuit in front pretensioner squib LH wire harness (to B+) • Front pretensioner squib LH malfunction • Center airbag sensor assembly malfunction	• Front seat outer belt assembly LH (Front pretensioner squib LH) • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM

See page RS-113.

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



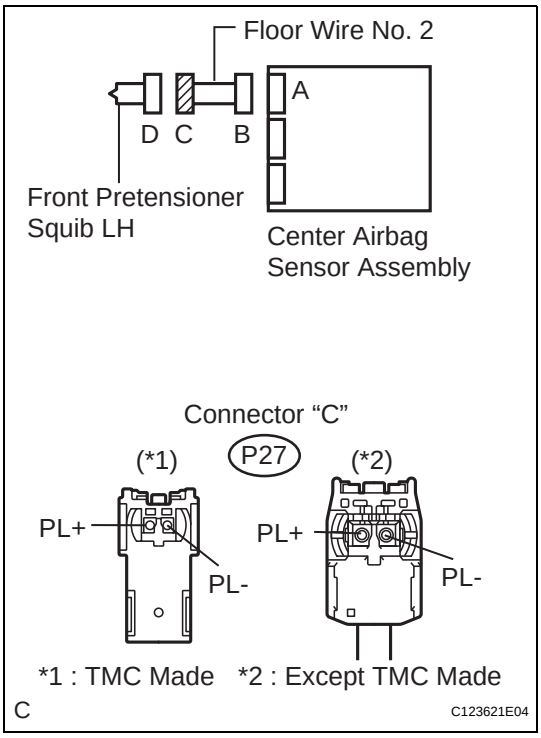
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat outer belt assembly LH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire No.2.
CAUTION:
Never connect a tester to the front seat outer belt assembly LH (Front pretensioner squib LH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B0138/72 is not output.
HINT:
Codes other than DTC B0138/72 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE FRONT SEAT OUTER BELT ASSEMBLY LH

2 CHECK FLOOR WIRE NO.2 (FRONT PRETENSIONER SQUIB LH CIRCUIT)



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

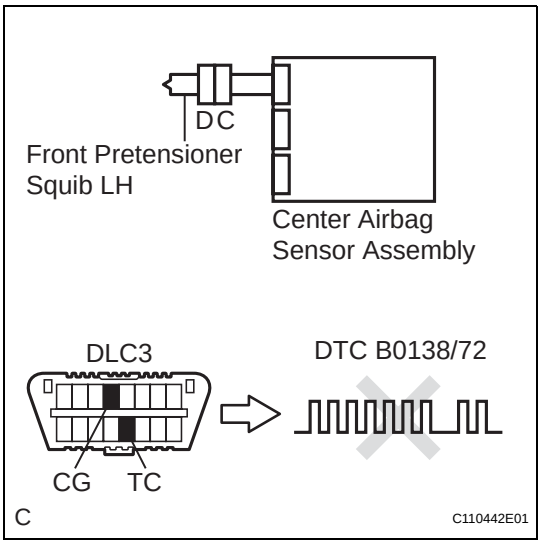
Voltage

Tester connection	Condition	Specified condition
P27-1 (PL+) - Body ground	Ignition switch ON	Below 1 V
P27-2 (PL-) - Body ground	Ignition switch ON	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the front seat outer belt assembly LH and the center airbag sensor assembly.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (See page RS-32).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (See page RS-32).

OK:

DTC B0138/72 is not output.

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

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1100/31	Center Airbag Sensor Assembly Malfunction

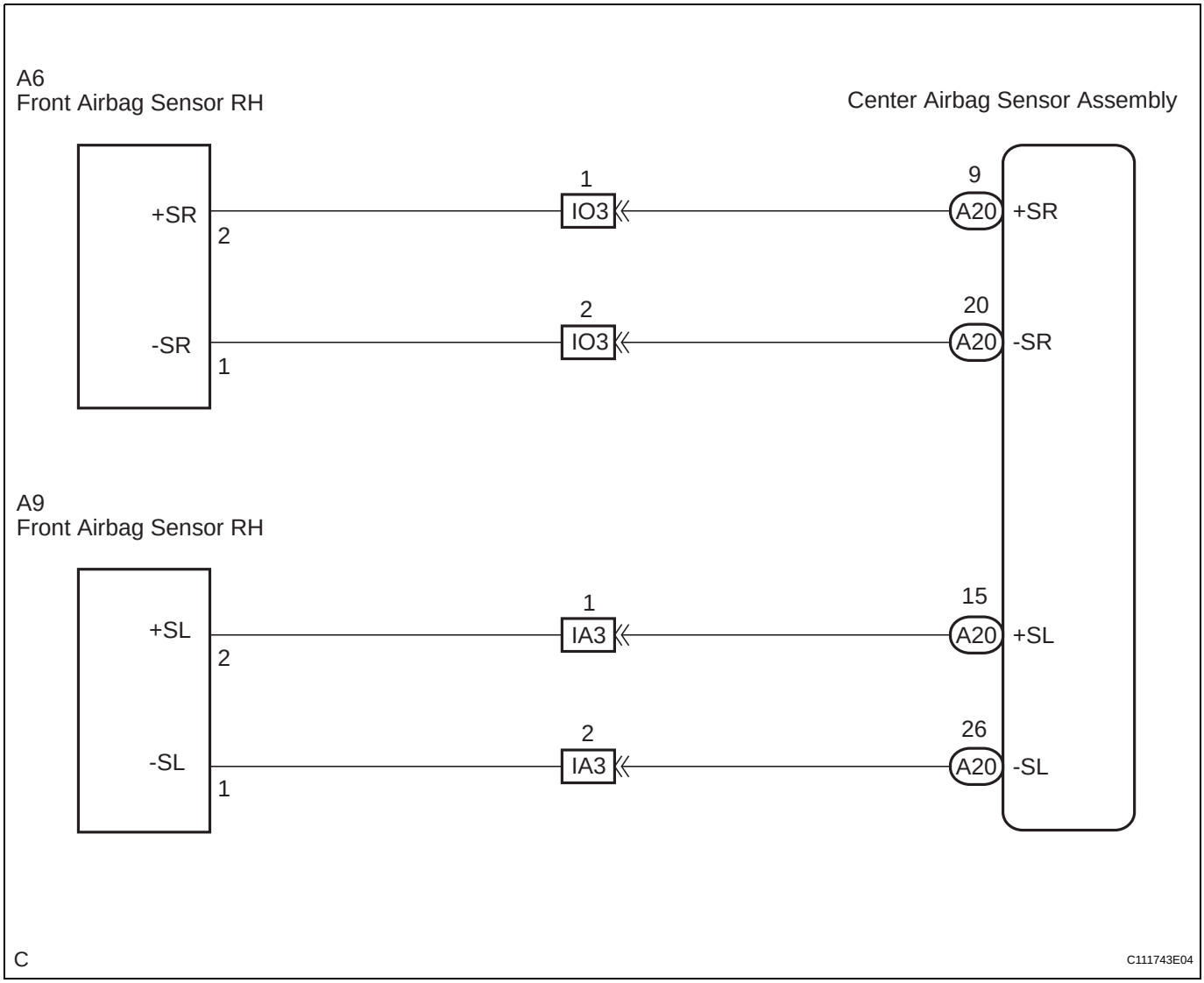
DESCRIPTION

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

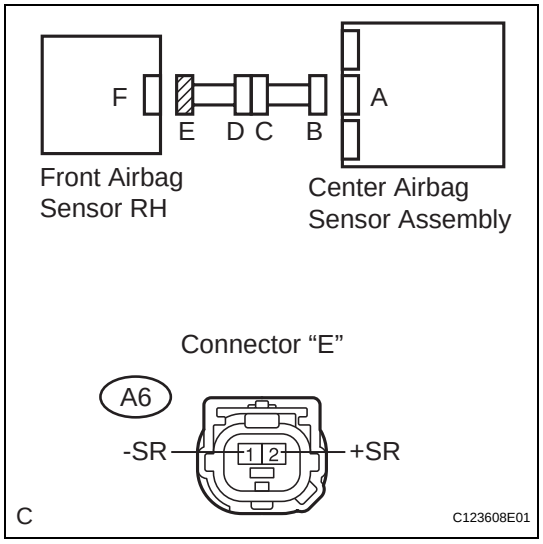
DTC No.	DTC Detecting Condition	Trouble Area
B1100/31	• Short in front airbag sensor RH circuit (to ground) • Short in front airbag sensor RH circuit (to B+) • Short in front airbag sensor RH circuit • Short in front airbag sensor LH circuit (to ground) • Short in front airbag sensor LH circuit (to B+) • Short in front airbag sensor LH circuit • Center airbag sensor assembly malfunction	• Center airbag sensor assembly • Engine room main wire • Instrument panel wire

RS

WIRING DIAGRAM



1 CHECK FRONT AIRBAG SENSOR RH CIRCUIT (SHORT TO GROUND)



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

Resistance

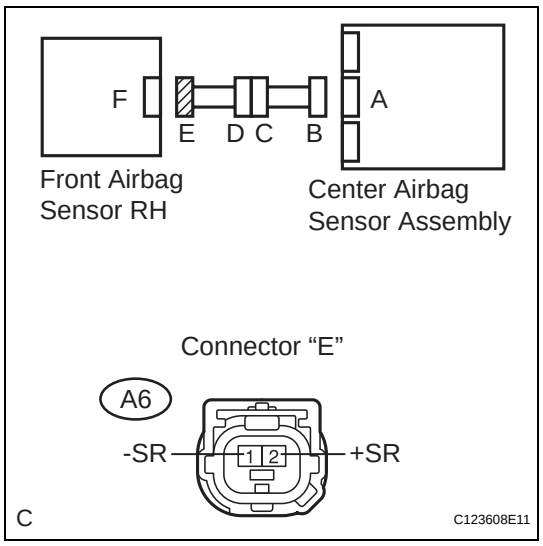
Tester connection	Condition	Specified condition
A6-2 (+SR) - Body ground	Always	1 MΩ or higher
A6-1 (-SR) - Body ground	Always	1 MΩ or higher

RS

NG → **Go to step 8**

OK

2 CHECK FRONT AIRBAG SENSOR RH CIRCUIT (SHORT TO B+)



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

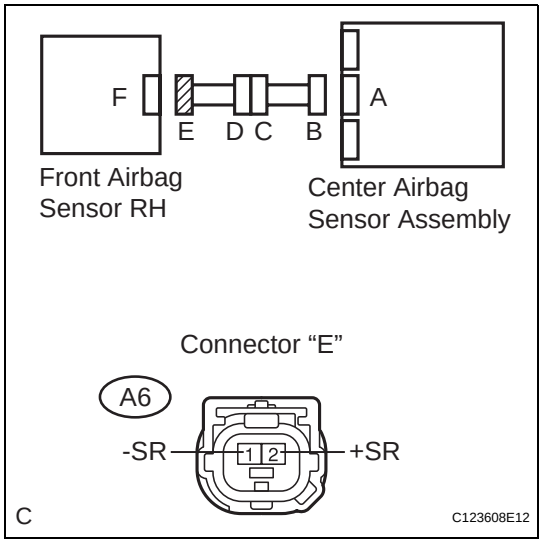
Voltage

Tester connection	Condition	Specified condition
A6-2 (+SR) - Body ground	Ignition switch ON	Below 1 V
A6-1 (-SR) - Body ground	Ignition switch ON	Below 1 V

NG → **Go to step 9**

OK

3 CHECK FRONT AIRBAG SENSOR RH CIRCUIT (SHORT)



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

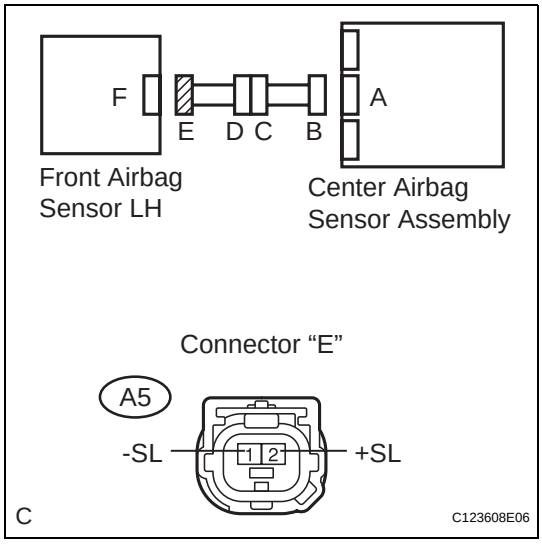
Resistance

Tester connection	Condition	Specified condition
A6-2 (+SR) - A6-1 (-SR)	Always	1 MΩ or higher

NG → **Go to step 10**

OK

4 CHECK FRONT AIRBAG SENSOR LH CIRCUIT (SHORT TO GROUND)



(a) Disconnect the connector from the front airbag sensor LH.
(b) Measure the resistance according to the value(s) in the table below.

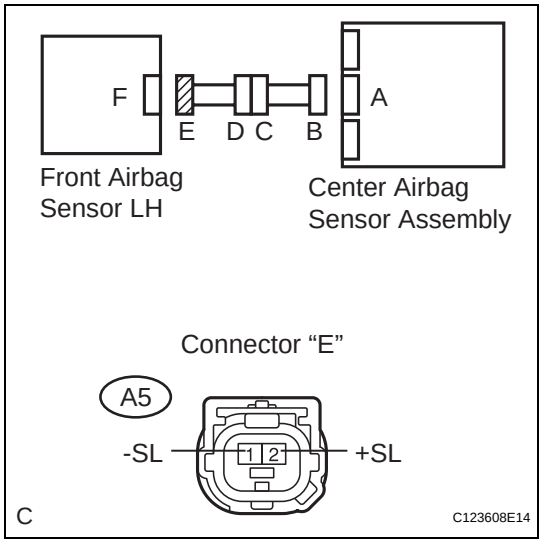
Resistance

Tester connection	Condition	Specified condition
A5-2 (+SL) - Body ground	Always	1 MΩ or higher
A5-1 (-SL) - Body ground	Always	1 MΩ or higher

NG → **Go to step 11**

OK

5 CHECK FRONT AIRBAG SENSOR LH CIRCUIT (SHORT TO B+)



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

Voltage

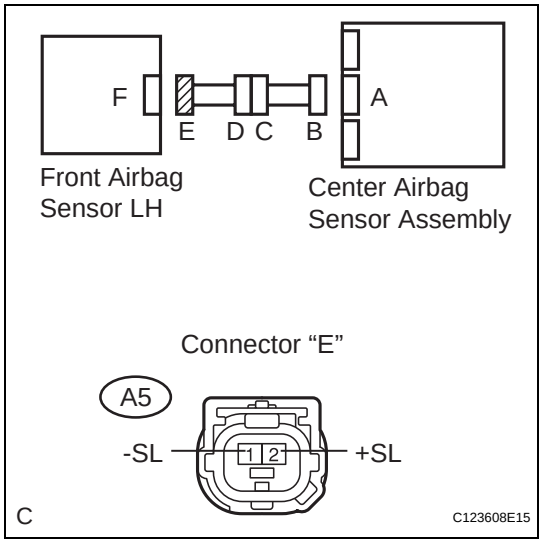
Tester connection	Condition	Specified condition
A5-2 (+SL) - Body ground	Always	Below 1 V
A5-1 (-SL) - Body ground	Always	Below 1 V

RS

NG → **Go to step 12**

OK

6 CHECK FRONT AIRBAG SENSOR LH CIRCUIT (SHORT)



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

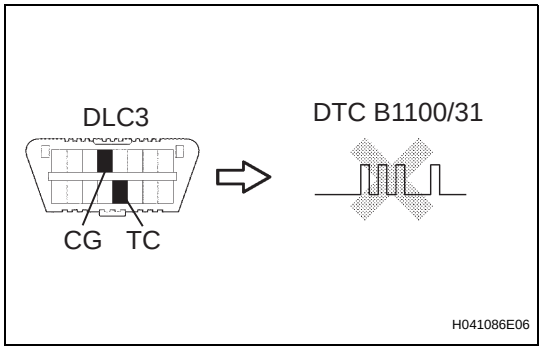
Resistance

Tester connection	Condition	Specified condition
A5-2 (+SL) - A5-1 (-SL)	Always	1 MΩ or higher

NG → **Go to step 13**

OK

7 CHECK CENTER AIRBAG SENSOR ASSEMBLY



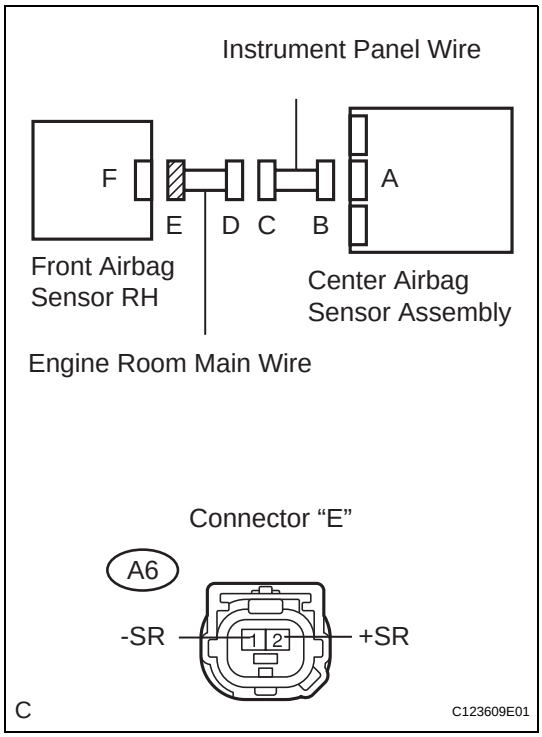
(a) Connect the connectors to the center airbag sensor assembly, front airbag sensors RH and LH.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).
OK:
DTC B1100/31 is not output.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

8 CHECK ENGINE ROOM MAIN WIRE (SHORT TO GROUND)



(a) Disconnect the engine room main wire connector from the instrument panel wire.
(b) Measure the resistance according to the value(s) in the table below.
Resistance

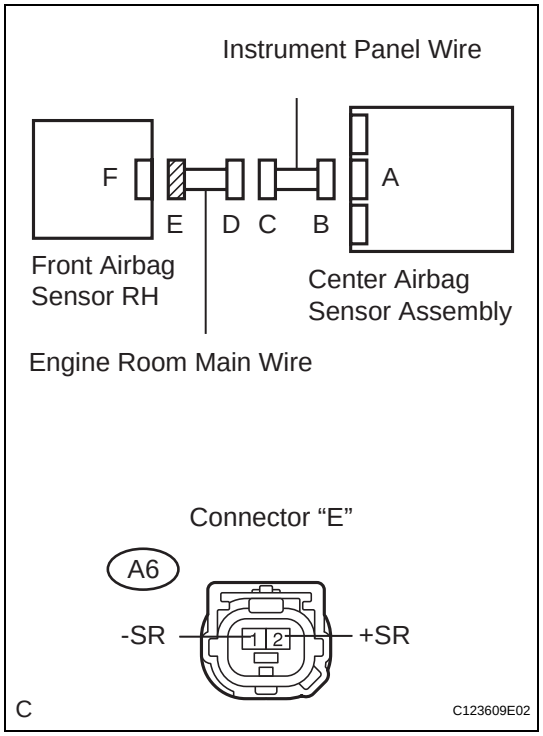
Tester connection	Condition	Specified condition
A6-2 (+SR) - Body ground	Always	1 MΩ or higher
A6-1 (-SR) - Body ground	Always	1 MΩ or higher

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

9	CHECK ENGINE ROOM MAIN WIRE (SHORT TO B+)



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

Voltage

Tester connection	Condition	Specified condition
A6-2 (+SR) - Body ground	Ignition switch ON	Below 1 V
A6-1 (-SR) - Body ground	Ignition switch ON	Below 1 V

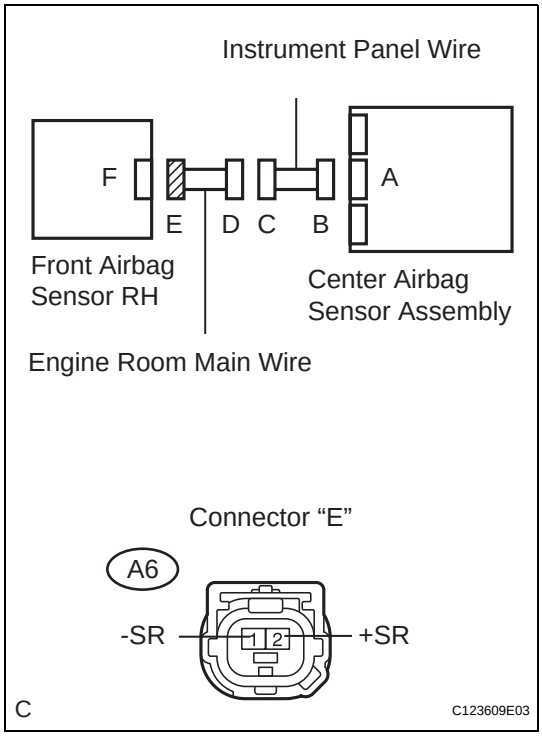
NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

10	CHECK ENGINE ROOM MAIN WIRE (SHORT)



(a) Disconnect the engine room main wire connector from the instrument panel wire.
(b) Measure the resistance according to the value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
A6-2 (+SR) - A6-1 (-SR)	Always	1 MΩ or higher

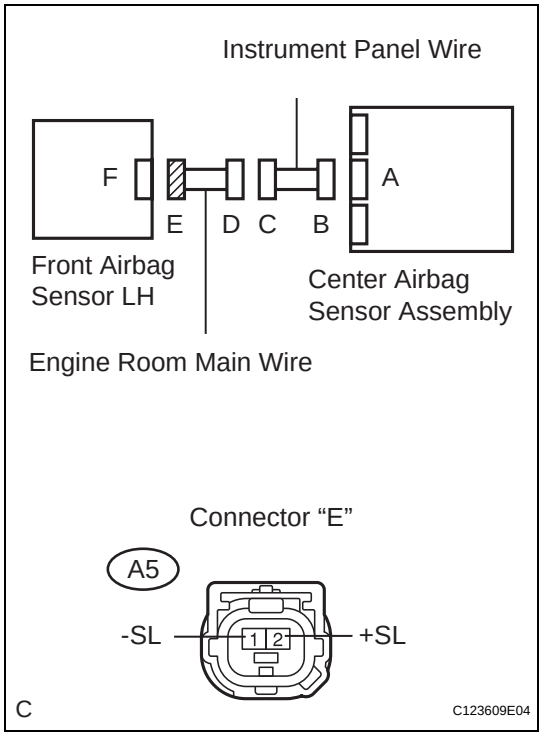
NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

11	CHECK ENGINE ROOM MAIN WIRE (SHORT TO GROUND)



(a) Disconnect the engine room main wire connector from the instrument panel wire.
(b) Measure the resistance according to the value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
A5-2 (+SL) - Body ground	Always	1 MΩ or higher
A5-1 (-SL) - Body ground	Always	1 MΩ or higher

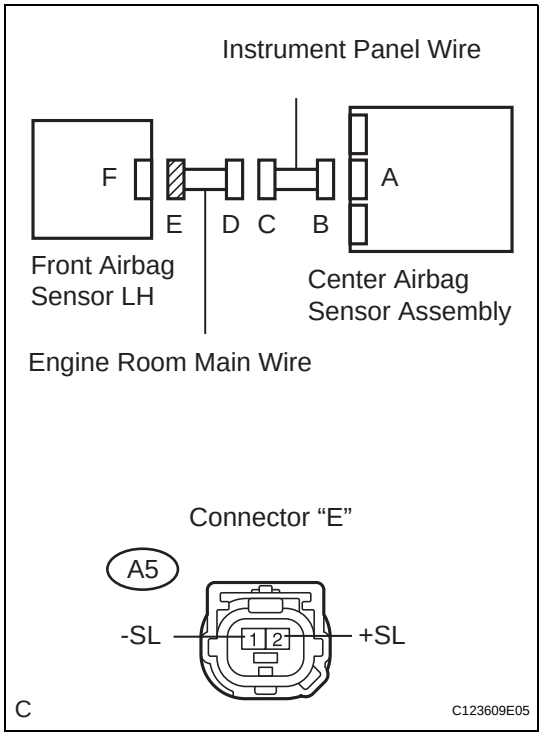
RS

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

12	CHECK ENGINE ROOM MAIN WIRE (SHORT TO B+)



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

Voltage

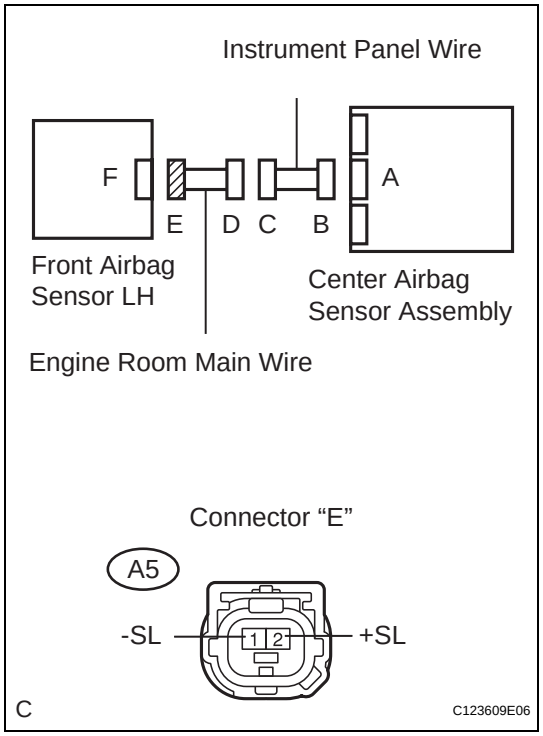
Tester connection	Condition	Specified condition
A5-2 (+SL) - Body ground	Ignition switch ON	Below 1 V
A5-1 (-SL) - Body ground	Ignition switch ON	Below 1 V

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

13	CHECK ENGINE ROOM MAIN WIRE (SHORT)



(a) Disconnect the engine room main wire connector from the instrument panel wire.
(b) Measure the resistance according to the value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
A5-2 (+SL) - A5-1 (-SL)	Always	1 MΩ or higher

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

DTC	B1135/24	Half Connection in Center Airbag Sensor Assembly Connectors

DESCRIPTION

The center airbag sensor assembly connector has a mechanism that electrically detects half connection. The center airbag sensor assembly monitors the voltage applied to the disconnection detection pins and detects half connection.

DTC B1135/24 is recorded when the center airbag sensor assembly detects an open circuit in the electrical connection check mechanism of the airbag sensor connector or in the airbag sensor circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1135/24	• Malfunction of electrical connection check mechanism of center airbag sensor assembly connector • Center airbag sensor assembly malfunction	• Electrical connection check mechanism • Center airbag sensor assembly

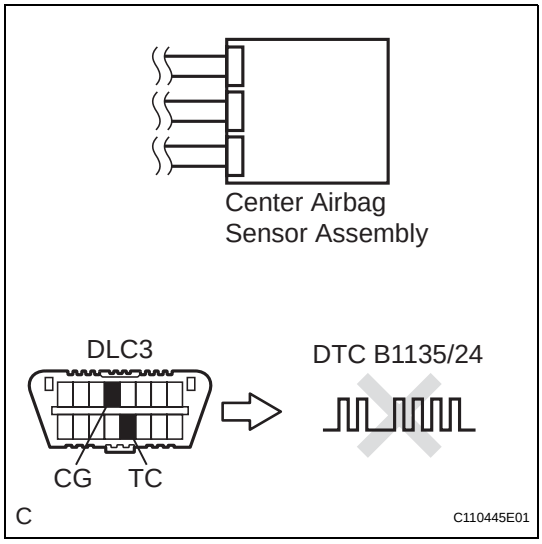
RS

1	CHECK CENTER AIRBAG SENSOR ASSEMBLY CONNECTOR

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check the connection of the center airbag sensor assembly connectors.
OK:
The connectors are connected.
HINT:
When the connectors are not firmly connected, disconnect them once and reconnect them securely.

NEXT

2	CHECK CENTER AIRBAG SENSOR ASSEMBLY



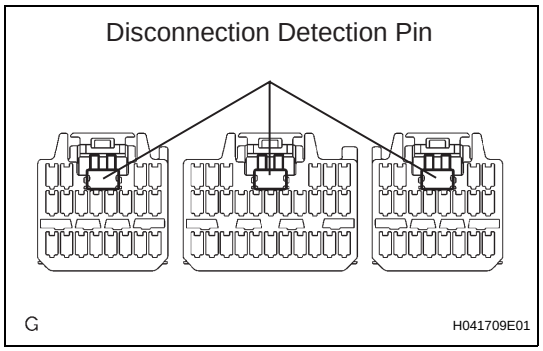
(a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(b) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(c) Clear the DTCs stored in memory (See page RS-32).
(d) Turn the ignition switch to the LOCK position.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Check the DTCs (See page RS-32).
OK:
DTC B1135/24 is not output.
HINT:
Codes other than code B1135/24 may be output at this time, but they are not related to this check.

NG	Go to step 3

OK

END

3	PERFORM VISUAL CHECK OF DISCONNECTION DETECTION PIN



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor assembly.
(d) Check the disconnection detection pin of the connector.
HINT:
Compare one connector with the other 2 connectors.
OK:
No deformation is identified.

RS

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

OK

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

DTC	B1140/32	Side Airbag Sensor Assembly RH Circuit Malfunction

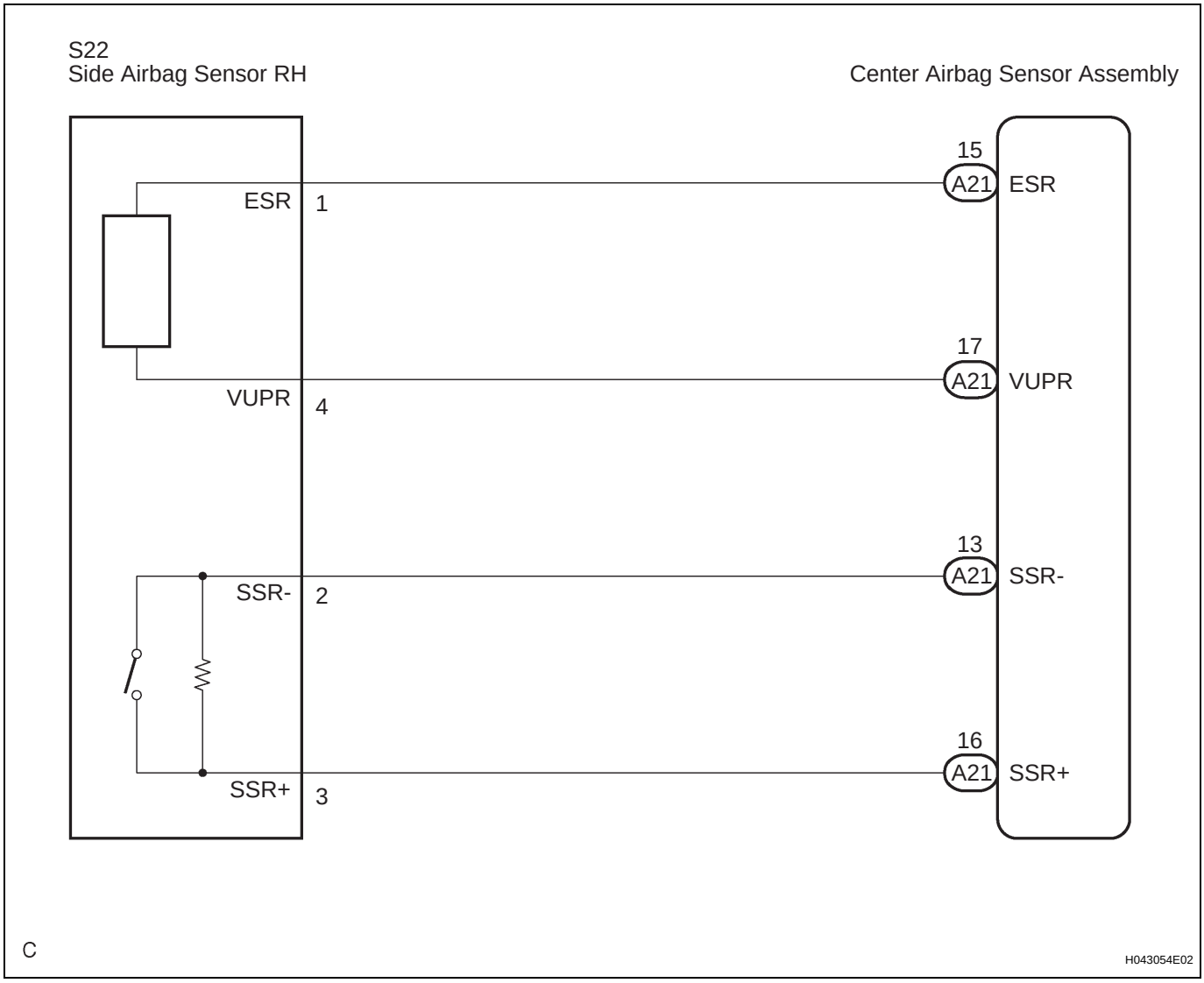
DESCRIPTION

The side airbag sensor RH circuit consists of the safing sensor, the diagnostic circuit and the lateral deceleration sensor, etc.
If the center airbag sensor assembly receives signals from the lateral deceleration sensor, it judges whether or not the SRS should be activated.
DTC B1140/32 is recorded when a malfunction in the side airbag sensor RH circuit is detected.

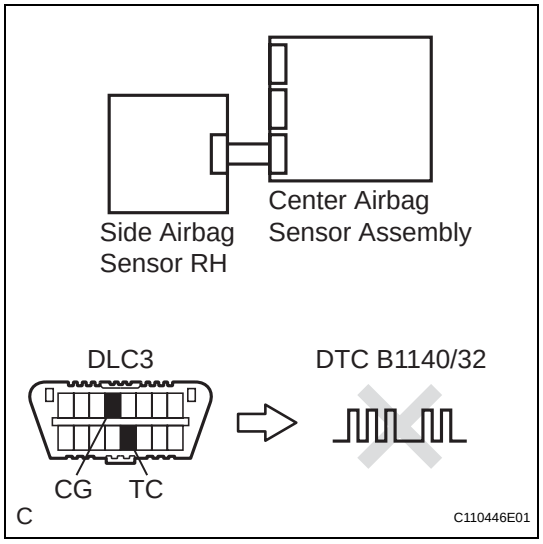
DTC No.	DTC Detecting Condition	Trouble Area
B1140/32	• Open circuit in side airbag sensor RH circuit • Short circuit in side airbag sensor RH circuit (to B+) • Short circuit in side airbag sensor RH circuit (to ground) • Side airbag sensor RH malfunction • Center airbag sensor assembly malfunction	• Side airbag sensor RH • Center airbag sensor assembly • Floor wire

RS

WIRING DIAGRAM



1	CHECK DTC



(a) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(b) Clear the DTCs stored in memory (See page RS-32).
(c) Turn the ignition switch to the LOCK position.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Check the DTCs (See page RS-32).

OK:

DTC B1140/32 is not output.

HINT:

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

NG → **Go to step 2**

OK

USE SIMULATION METHOD TO CHECK

2	CHECK CONNECTION OF CONNECTORS

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

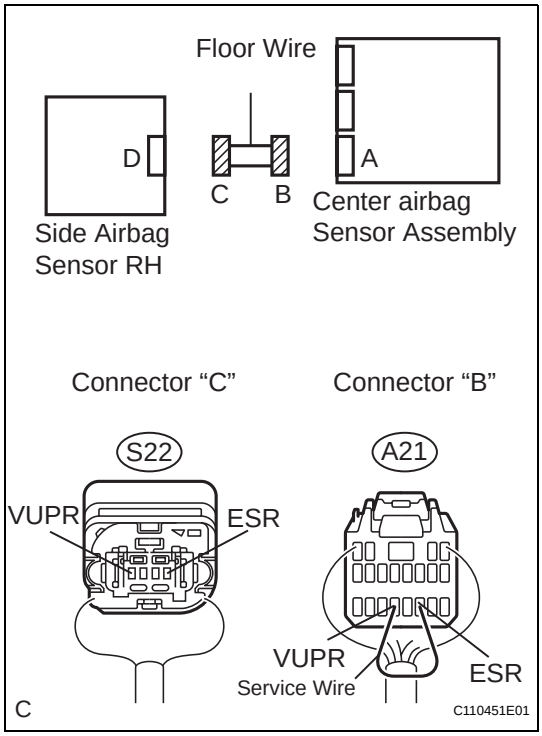
OK:

The connectors are connected.

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

OK

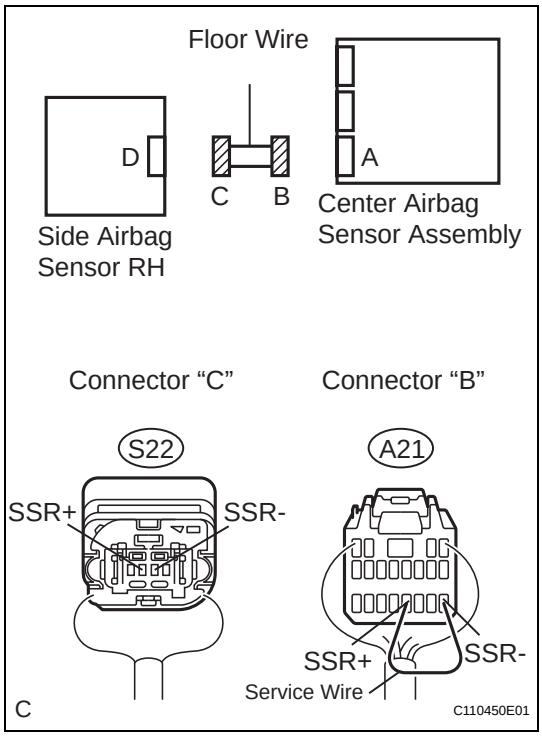
3	CHECK FLOOR WIRE (OPEN)



(a) Disconnect the connectors from the center airbag sensor assembly and the side airbag sensor RH.
(b) Using a service wire, connect A21-17 (VUPR) and A21-15 (ESR) of connector "B".
HINT:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(c) Measure the resistance according to the value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
S22-4 (VUPR) - S22-1 (ESR)	Always	Below 1 Ω



(d) Using a service wire, connect A21-16 (SSR+) and A21-13 (SSR-) of connector "B".
HINT:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(e) Measure the resistance according to the value(s) in the table below.

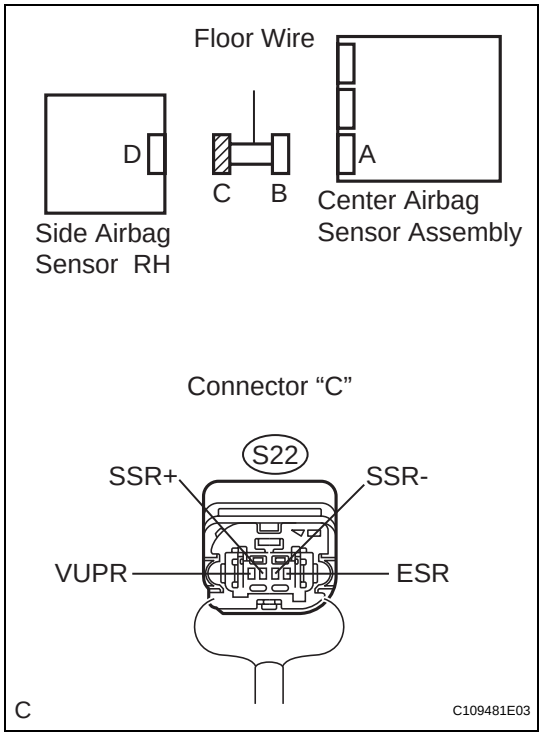
Resistance

Tester connection	Condition	Specified condition
S22-3 (SSR+) - S22-2 (SSR-)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4 CHECK FLOOR WIRE (SHORT TO B+)



(a) Disconnect the service wire from connector "B".
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position.
(d) Measure the voltage according to the value(s) in the table below.

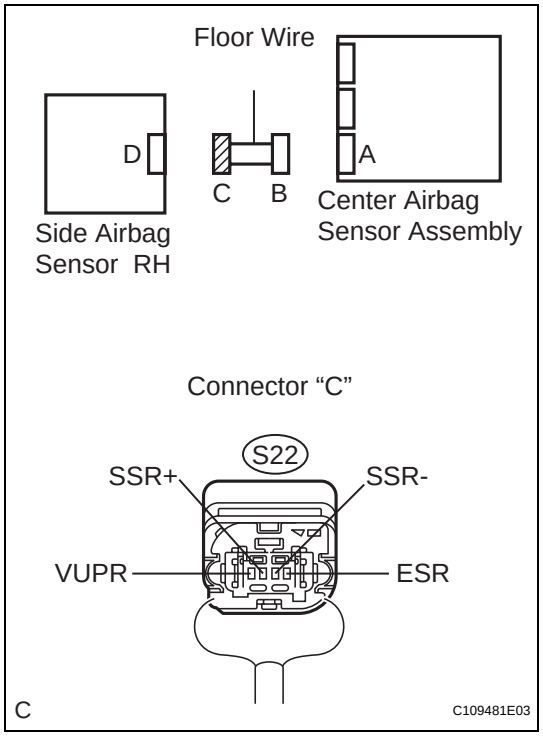
Voltage

Tester connection	Condition	Specified condition
S22-4 (VUPR) - Body ground	Ignition switch ON	Below 1 V
S22-1 (ESR) - Body ground	Ignition switch ON	Below 1 V
S22-3 (SSR+) - Body ground	Ignition switch ON	Below 1 V
S22-2 (SSR-) - Body ground	Ignition switch ON	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

5 CHECK FLOOR WIRE (SHORT TO GROUND)



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

Resistance

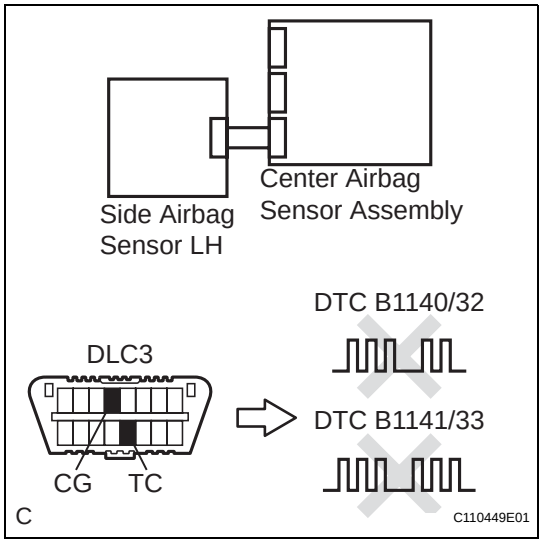
Tester connection	Condition	Specified condition
S22-4 (VUPR) - Body ground	Always	1 MΩ or higher
S22-1 (ESR) - Body ground	Always	1 MΩ or higher
S22-3 (SSR+) - Body ground	Always	1 MΩ or higher
S22-2 (SSR-) - Body ground	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

6	CHECK SIDE AIRBAG SENSOR RH



(a) Connect the connector to the center airbag sensor assembly.
(b) Interchange the side airbag sensor RH with LH and connect the connectors to them.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (See page RS-32).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(h) Check the DTCs (See page RS-32).

Result

Proceed To	Display (DTC Output)
NG: A	DTC B1140/32 is output.
NG: B	DTC B1141/33 is output.
OK	DTC B1140/32 and B1141/33 are not output.

NG:A → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

NG:B → **REPLACE SIDE AIRBAG SENSOR RH**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1141/33	Side Airbag Sensor Assembly LH Circuit Malfunction

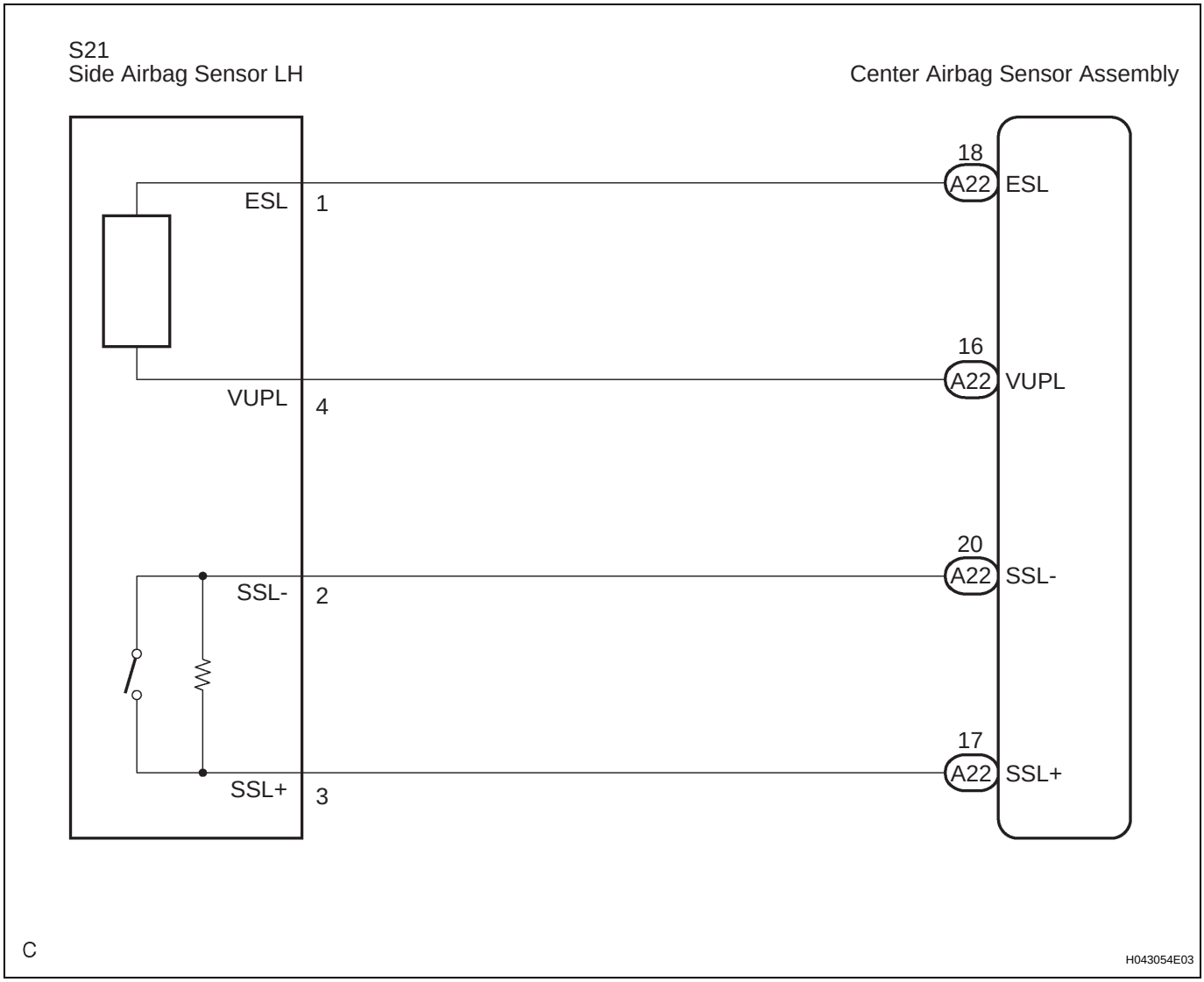
DESCRIPTION

The side airbag sensor LH circuit consists of the safing sensor, the diagnostic circuit and the lateral deceleration sensor, etc.
If the center airbag sensor assembly receives signals from the lateral deceleration sensor, it judges whether or not the SRS should be activated.
DTC B1141/33 is recorded when a malfunction in the side airbag sensor LH circuit is detected.

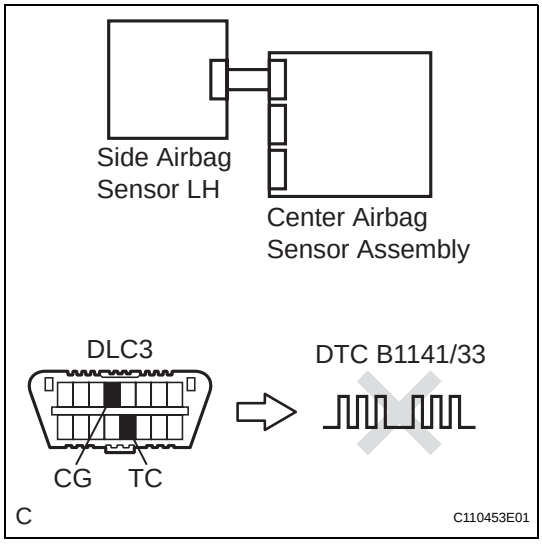
DTC No.	DTC Detecting Condition	Trouble Area
B1141/33	• Open circuit in side airbag sensor LH circuit • Short circuit in side airbag sensor LH circuit (to B+) • Short circuit in side airbag sensor LH circuit (to ground) • Side airbag sensor LH malfunction • Center airbag sensor assembly malfunction	• Side airbag sensor LH • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM



1	CHECK DTC



(a) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(b) Clear the DTCs stored in memory (See page RS-32).
(c) Turn the ignition switch to the LOCK position.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Check the DTCs (See page RS-32).

OK:

DTC B1141/33 is not output.

HINT:

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

NG → **Go to step 2**

OK

USE SIMULATION METHOD TO CHECK

2	CHECK CONNECTION OF CONNECTORS

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

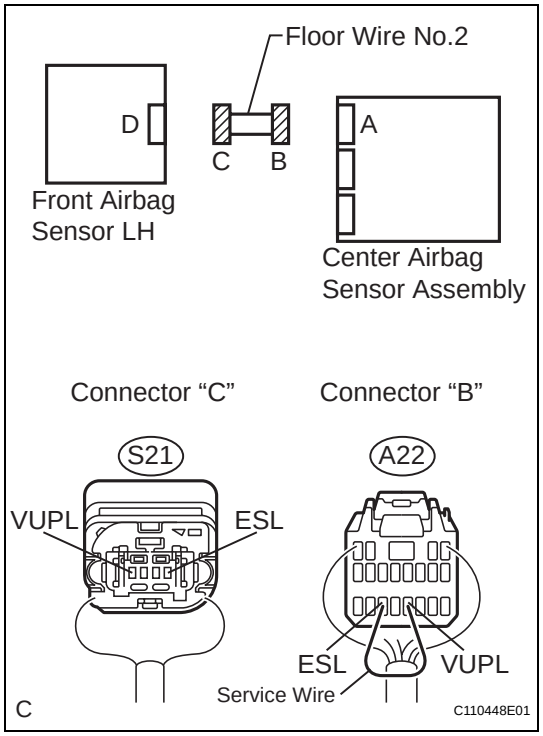
OK:

The connectors are connected.

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

OK

3	CHECK FLOOR WIRE NO.2 (OPEN)

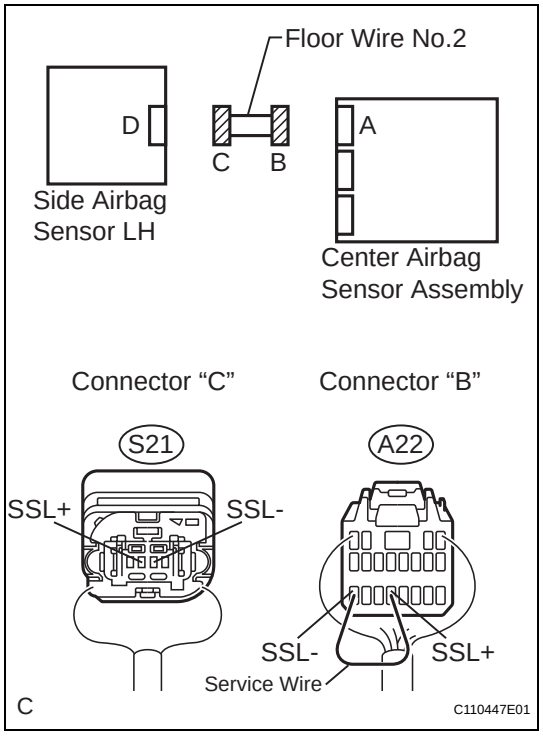


(a) Disconnect the connectors from the center airbag sensor assembly and the side airbag sensor LH.
(b) Using a service wire, connect A22-16 (VUPL) and A22-18 (ESL) of connector "B".
HINT:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(c) Measure the resistance according to the value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
S21-4 (VUPL) - S21-1 (ESL)	Always	Below 1 Ω

RS



(d) Using a service wire, connect A22-17 (SSL+) and A22-20 (SSL-) of connector "B".
HINT:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(e) Measure the resistance according to the value(s) in the table below.

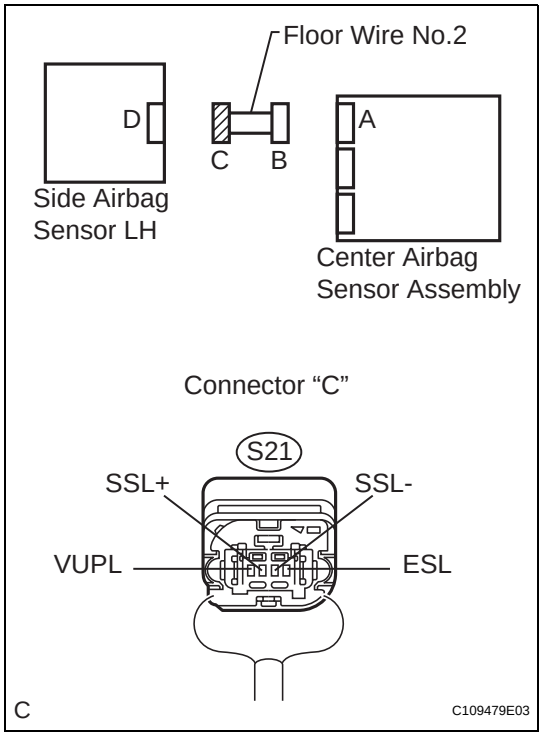
Resistance

Tester connection	Condition	Specified condition
S21-3 (SSL+) - S21-2 (SSL-)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

4 CHECK FLOOR WIRE NO.2 (SHORT TO B+)



(a) Disconnect the service wire from connector "B".
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position.
(d) Measure the voltage according to the value(s) in the table below.

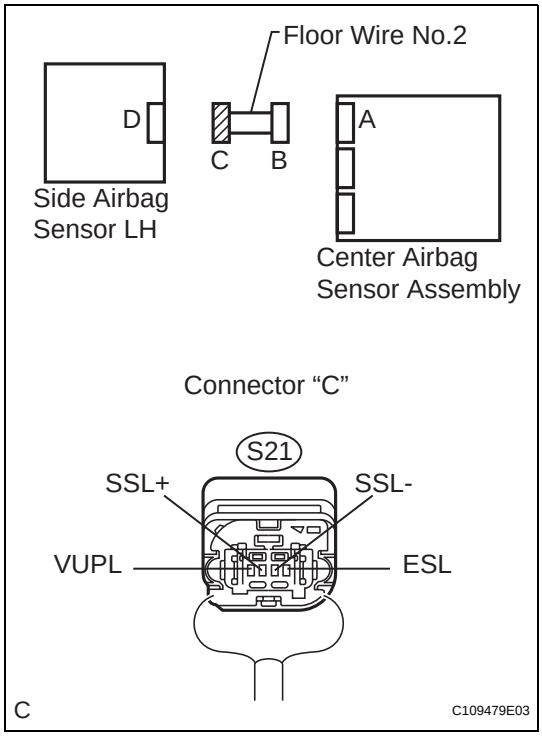
Voltage

Tester connection	Condition	Specified condition
S21-4 (VUPL) - Body ground	Always	Below 1 V
S21-1 (ESL) - Body ground	Always	Below 1 V
S21-3 (SSL+) - Body ground	Always	Below 1 V
S21-2 (SSL-) - Body ground	Always	Below 1 V

NG → REPAIR OR REPLACE FLOOR WIRE NO.2

OK

5 CHECK FLOOR WIRE NO.2 (SHORT TO GROUND)



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

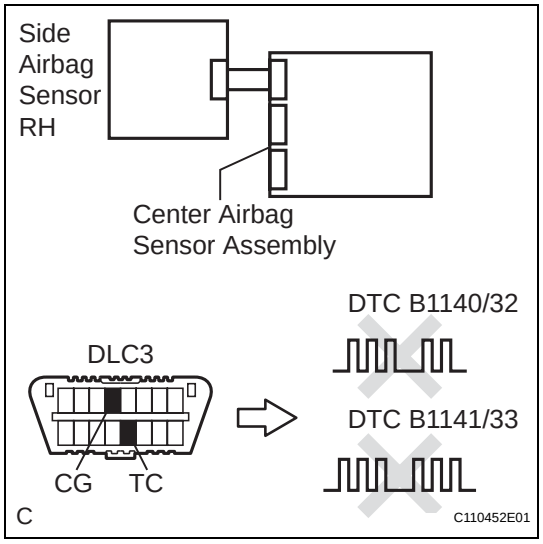
Resistance

Tester connection	Condition	Specified condition
S21-4 (VUPL) - Body ground	Always	1 MΩ or higher
S21-1 (ESL) - Body ground	Always	1 MΩ or higher
S21-3 (SSL+) - Body ground	Always	1 MΩ or higher
S21-2 (SSL-) - Body ground	Always	1 MΩ or higher

NG → REPAIR OR REPLACE FLOOR WIRE NO.2

OK

6	CHECK SIDE AIRBAG SENSOR LH



(a) Connect the connector to the center airbag sensor assembly.
(b) Interchange the side airbag sensor RH with LH and connect the connectors to them.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (See page RS-32).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(h) Check the DTCs (See page RS-32).

Result

Proceed To	Display (DTC Output)
NG: A	DTC B1140/32 is output.
NG: B	DTC B1141/33 is output.
OK	DTC B1140/32 and B1141/33 are not output.

NG:A → **REPLACE SIDE AIRBAG SENSOR LH**

NG:B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1148/36	Front Airbag Sensor RH Circuit Malfunction

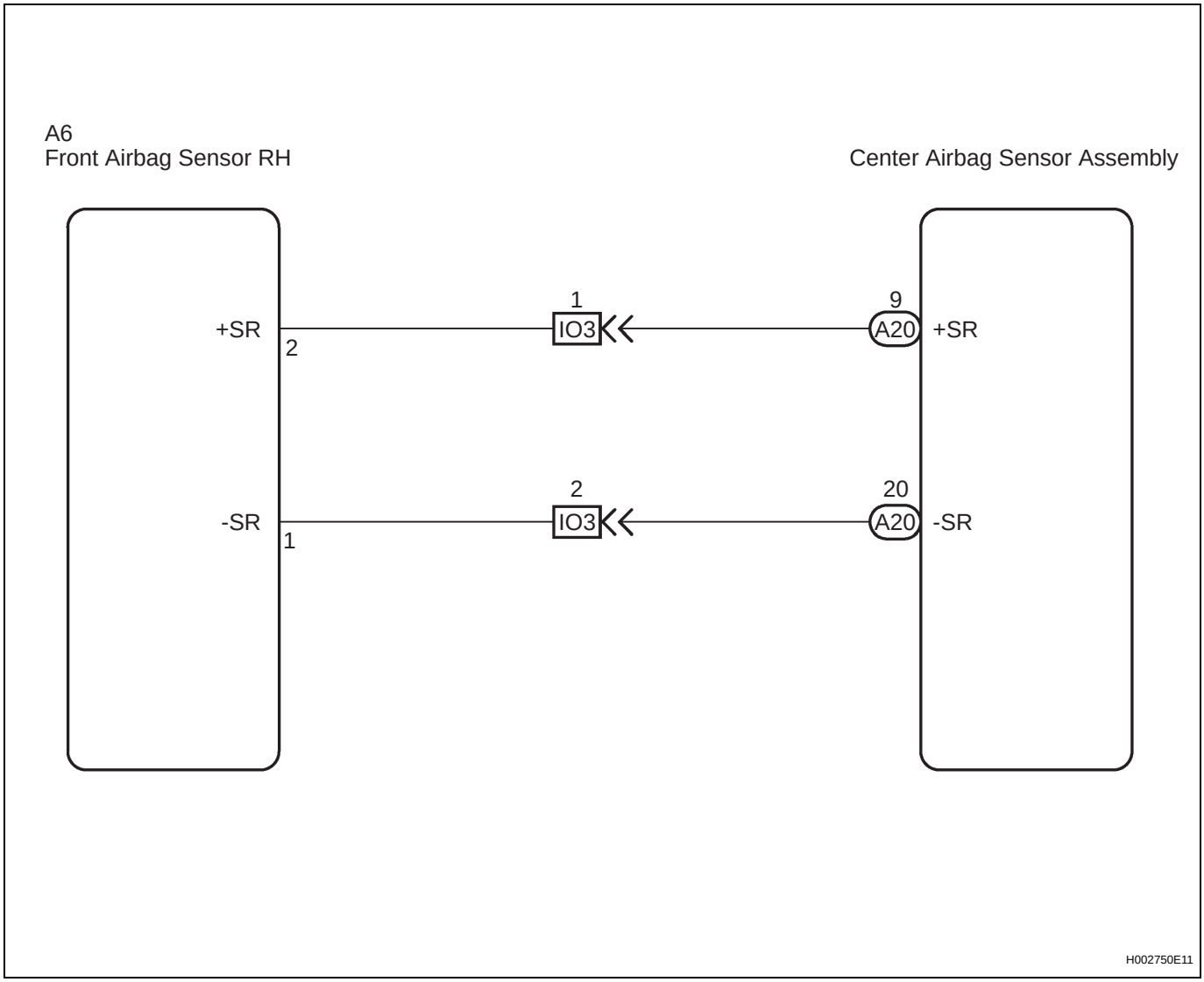
DESCRIPTION

The front airbag sensor RH circuit consists of the diagnosis circuit and the frontal deceleration sensor, etc. If the center airbag sensor assembly receives signals from the frontal deceleration sensor, it judges whether or not the SRS should be activated.
DTC B1148/36 is recorded when a malfunction is detected in the front airbag sensor RH circuit.

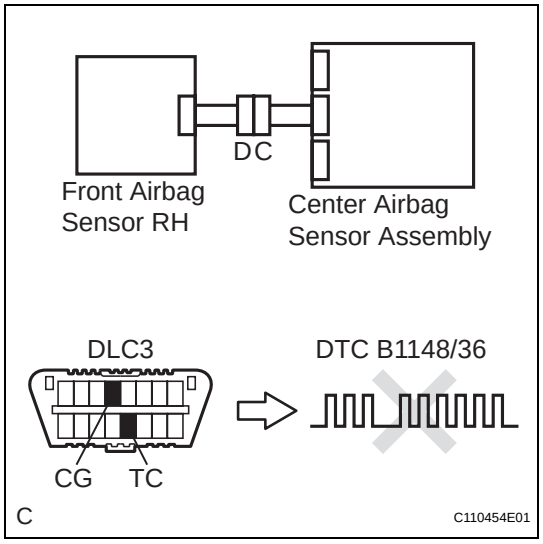
DTC No.	DTC Detecting Condition	Trouble Area
B1148/36	• Open circuit in +SR wire harness or -SR wire harness of front airbag sensor RH circuit • Front airbag sensor RH sensor malfunction • Center airbag sensor assembly malfunction	• Front airbag sensor RH • Center airbag sensor assembly • Engine room main wire • Instrument panel wire

RS

WIRING DIAGRAM



1	CHECK FRONT AIRBAG SENSOR RH



(a) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(b) Clear the DTCs stored in memory (See page RS-32).
(c) Turn the ignition switch to the LOCK position.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Check the DTCs (See page RS-32).

OK:

DTC B1148/36 is not output.

HINT:

Codes other than code B1148/36 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK

USE SIMULATION METHOD TO CHECK

2	CHECK CONNECTION OF CONNECTORS

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

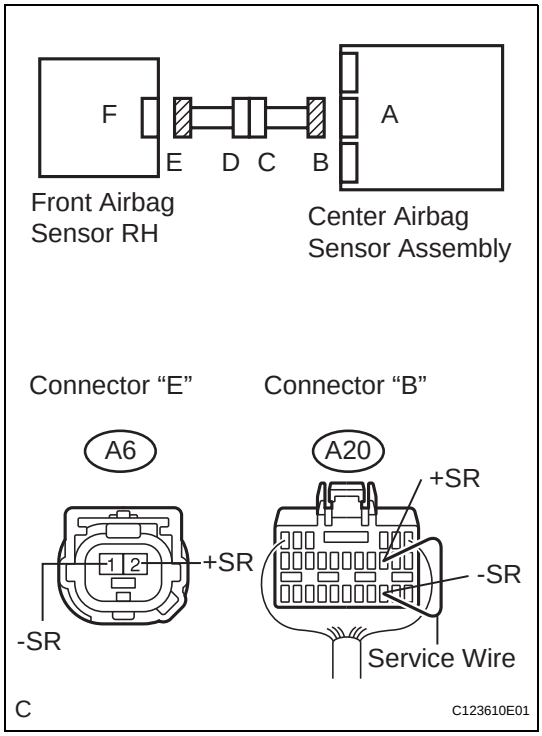
OK:

The connectors are connected.

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

OK

3 CHECK FRONT AIRBAG SENSOR RH CIRCUIT (OPEN)



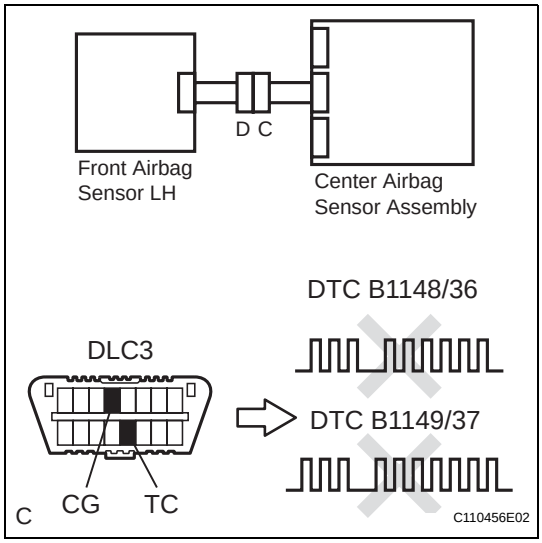
(a) Disconnect the connectors from the center airbag sensor assembly and the front airbag sensor RH.
(b) Using a service wire, connect A20-9 (+SR) and A20-20 (-SR) of connector "B".
HINT:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(c) Measure the resistance according to the value(s) in the table below.
Resistance

Tester connection	Condition	Specified condition
A6-2 (+SR) - A6-1 (-SR)	Always	Below 1 Ω

NG: **Go to step 5**

OK

4 CHECK FRONT AIRBAG SENSOR RH



(a) Disconnect the service wire from connector "B".
(b) Connect the connector to the center airbag sensor assembly.
(c) Interchange the front airbag sensor RH with LH, and connect the connectors to them.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (See page RS-32).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (See page RS-32).
Result

Proceed To	Display (DTC Output)
NG:A	DTC B1148/36 is output.
NG:B	DTC B1149/37 is output.
OK	DTC B1148/36 and B1149/37 are not output.

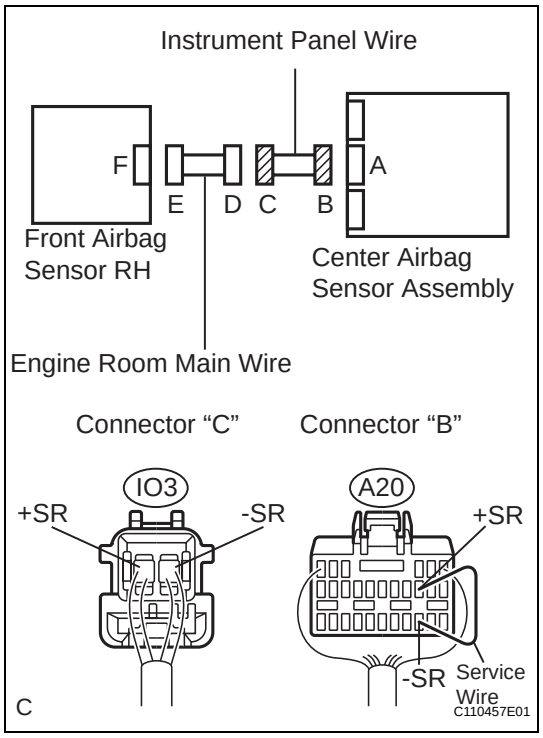
NG:A **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

NG:B → REPLACE FRONT AIRBAG SENSOR RH

OK

USE SIMULATION METHOD TO CHECK

5 CHECK INSTRUMENT PANEL WIRE (OPEN)



(a) Disconnect the instrument panel wire connector from the engine room main wire.
HINT:
The service wire has already been inserted into connector "B".

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

Resistance

Tester connection	Condition	Specified condition
IO3-1 (+SR) - IO3-2 (-SR)	Always	Below 1 Ω

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

DTC	B1149/37	Front Airbag Sensor LH Circuit Malfunction

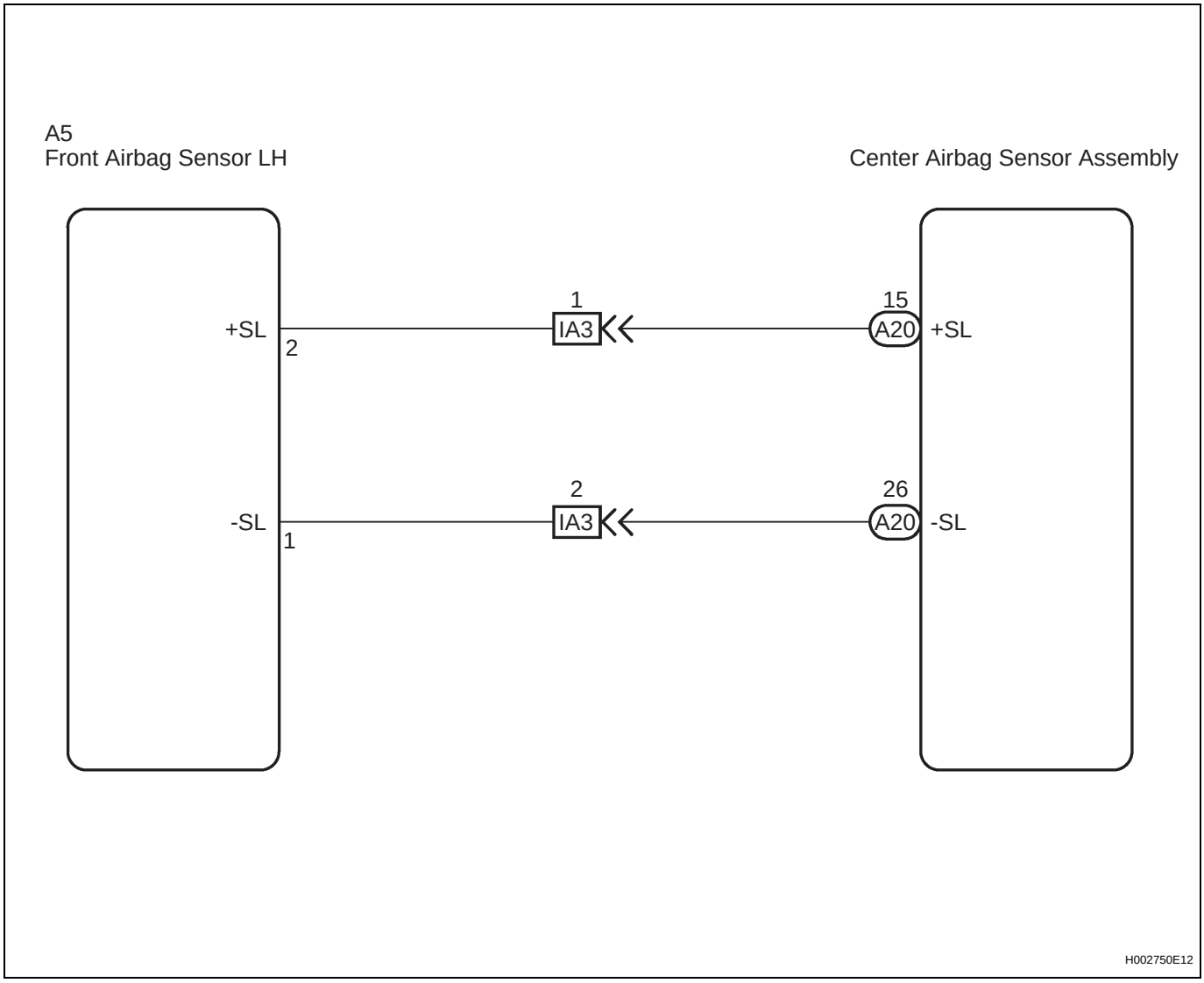
DESCRIPTION

The front airbag sensor LH circuit consists of the diagnosis circuit and the frontal deceleration sensor, etc. If the center airbag sensor assembly receives signals from the frontal deceleration sensor, it judges whether or not the SRS should be activated.
DTC B1149/37 is recorded when a malfunction is detected in the front airbag sensor LH circuit.

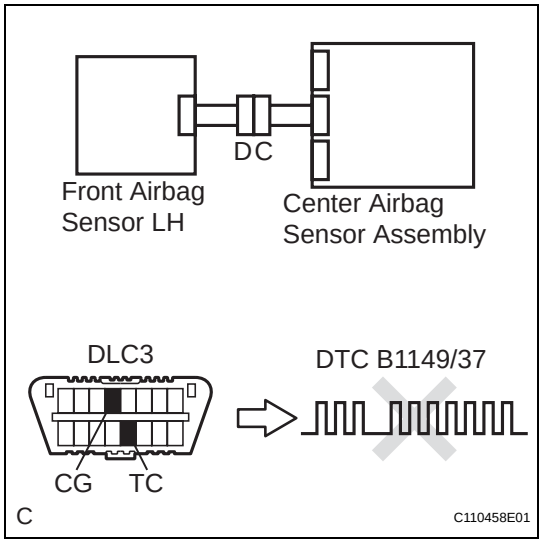
DTC No.	DTC Detecting Condition	Trouble Area
B1149/37	• Open circuit in +SL wire harness or -SL wire harness of front airbag sensor LH circuit • Front airbag sensor LH malfunction • Center airbag sensor assembly malfunction	• Front airbag sensor LH • Center airbag sensor assembly • Engine room main wire • Instrument panel wire

RS

WIRING DIAGRAM



1	CHECK FRONT AIRBAG SENSOR LH



(a) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(b) Clear the DTCs stored in memory (See page RS-32).
(c) Turn the ignition switch to the LOCK position.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Check the DTCs (See page RS-32).

OK:

DTC B1149/37 is not output.

HINT:

Codes other than code B1149/37 may be output at this time, but they are not related to this check.

RS

NG → **Go to step 2**

OK

USE SIMULATION METHOD TO CHECK

2	CHECK CONNECTION OF CONNECTORS

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

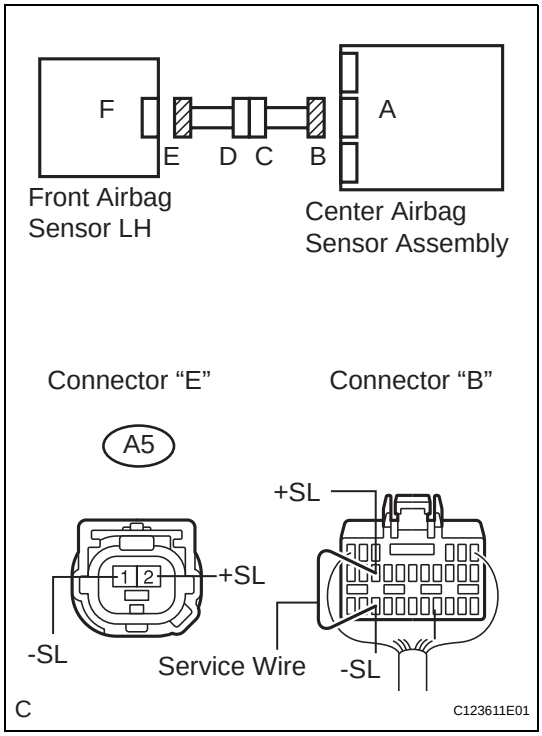
OK:

The connectors are connected.

NG → **CONNECT CONNECTORS, THEN GO TO STEP1**

OK

3 CHECK FRONT AIRBAG SENSOR LH CIRCUIT (OPEN)



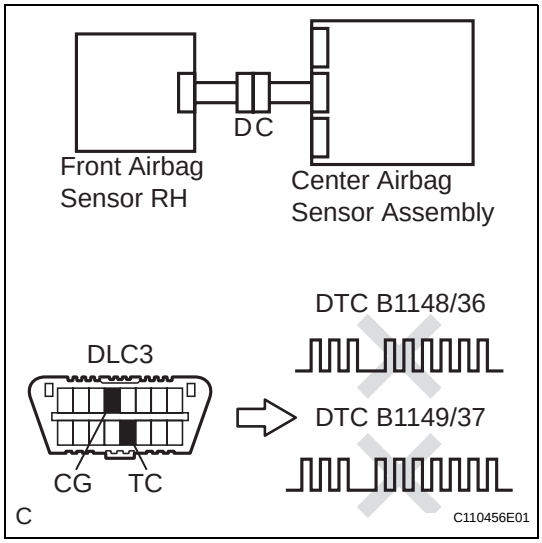
(a) Disconnect the connectors from the center airbag sensor assembly and the front airbag sensor LH.
(b) Using a service wire, connect A20-15 (+SL) and A20-26 (-SL) of connector "B".
HINT:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(c) Measure the resistance according to the value(s) in the table below.
Resistance

Tester connection	Condition	Specified condition
A5-2 (+SL) - A5-1 (-SL)	Always	Below 1 Ω

NG → **Go to step 5**

OK

4 CHECK FRONT AIRBAG SENSOR LH



(a) Disconnect the service wire from connector "B".
(b) Connect the connector to the center airbag sensor assembly.
(c) Interchange the side airbag sensor RH with LH and connect the connectors to them.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (See page RS-32).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (See page RS-32).
Result

Proceed To	Display (DTC Output)
NG: A	DTC B1148/36 is output.
NG: B	DTC B1149/37 is output.
OK	DTC B1148/36 and B1149/37 are not output.

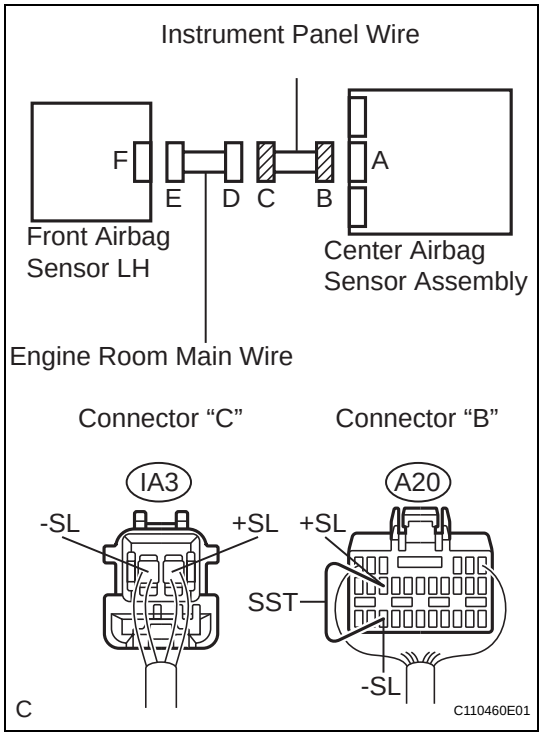
NG:A → **REPLACE FRONT AIRBAG SENSOR LH**

NG:B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

5 CHECK INSTRUMENT PANEL WIRE (OPEN)



(a) Disconnect the instrument panel wire connector from the engine room main wire.
HINT:
The service wire has already been inserted into connector "B".

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

Resistance

Tester connection	Condition	Specified condition
IA3-1 (+SL) - IA3-2 (-SL)	Always	Below 1 Ω

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

OK

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

RS

DTC	B1150/23	Occupant Classification System Malfunction

DESCRIPTION

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

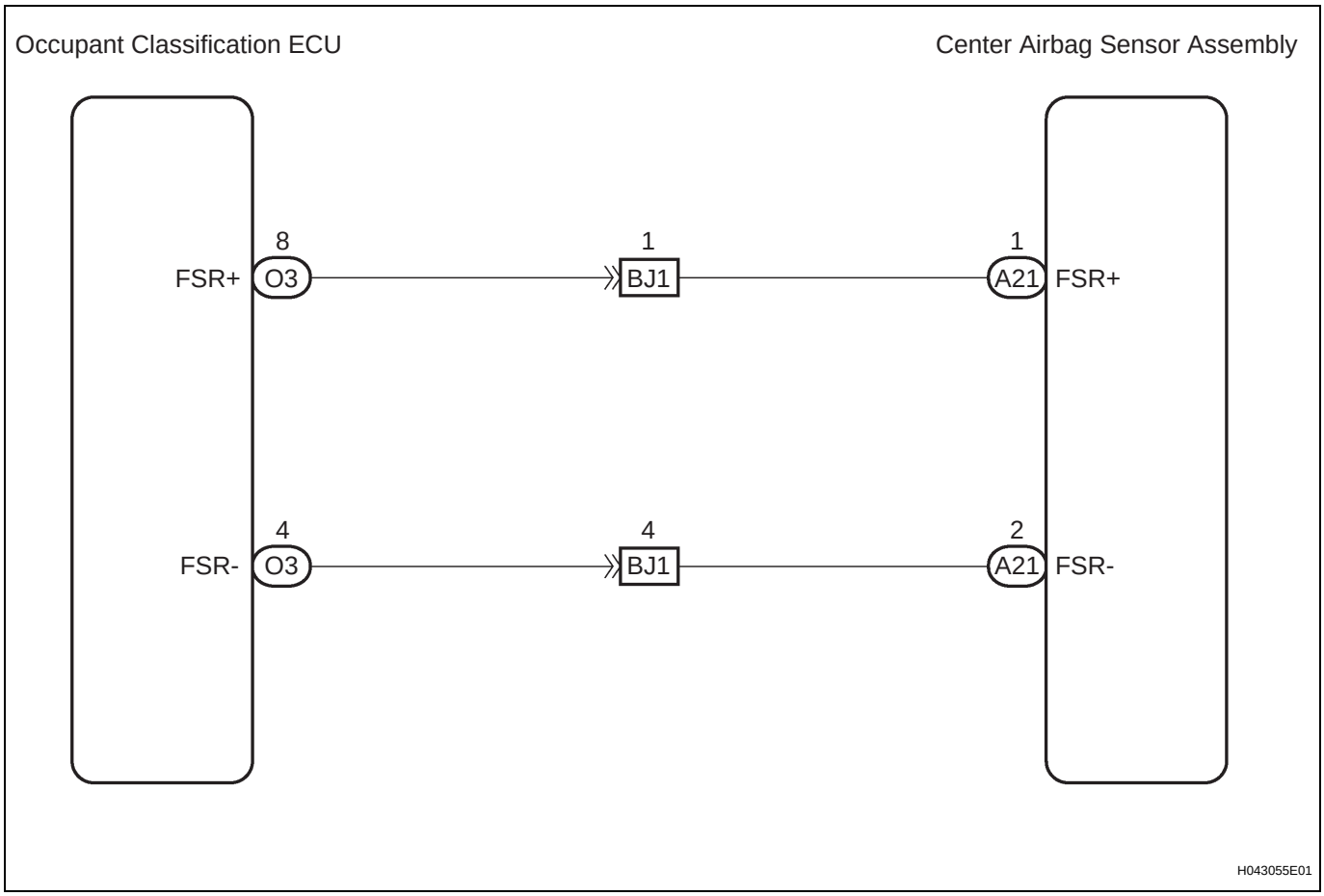
If the center airbag sensor assembly receives signals from the occupant classification ECU, it determines whether or not the front passenger airbag assembly and the front seat airbag assembly RH should be operated.

DTC B1150/23 is recorded when a malfunction is detected in the occupant classification system circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1150/23	• The center airbag sensor assembly receives a line short signal, open signal, short to ground signal or B+ short signal in the occupant classification system circuit for 2 seconds. • Occupant classification ECU malfunction • Center airbag sensor assembly malfunction	• Occupant classification ECU • Center airbag sensor assembly • Floor wire • Front seat wire RH

RS

WIRING DIAGRAM



1	CHECK DTC (OCCUPANT CLASSIFICATION ECU)

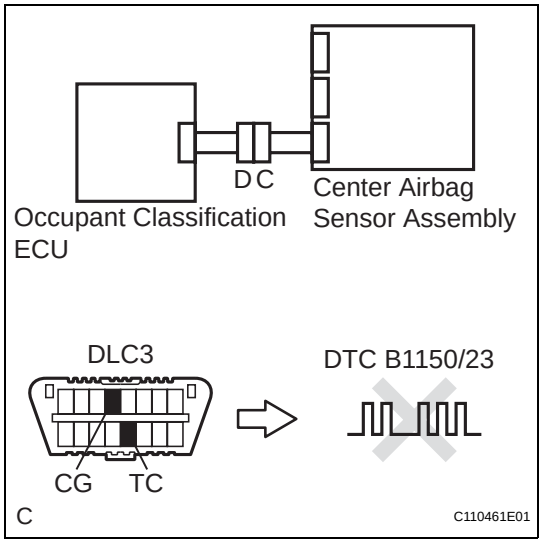
(a) Turn the ignition switch to the ON position, and wait for at least 10 seconds.

(b) Using the intelligent tester, check the DTCs of the occupant classification ECU (See page RS-25).
OK:
DTC is not output.

NG → **GO TO INSPECTION PROCEDURE OF DTC OUTPUT**

OK

2 CHECK DTC (CENTER AIRBAG SENSOR ASSEMBLY)



(a) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(b) Clear the DTCs stored in memory (See page RS-32).
(c) Turn the ignition switch to the LOCK position.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Check the DTCs (See page RS-32).
OK:
DTC B1150/23 is not output.
HINT:
Codes other than code B1150/23 may be output at this time, but they are not related to this check.

NG → **Go to step 3**

OK

USE SIMULATION METHOD TO CHECK

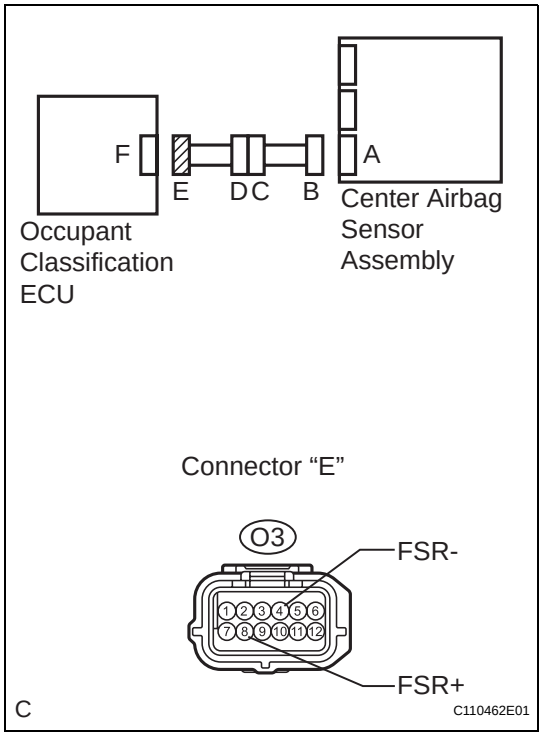
3 CHECK CONNECTION OF CONNECTORS

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

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

OK

4 CHECK OCCUPANT CLASSIFICATION ECU CIRCUIT (SHORT TO GROUND)



(a) Disconnect the connectors from the center airbag sensor assembly and the occupant classification ECU.
(b) Measure the resistance according to the value(s) in the table below.

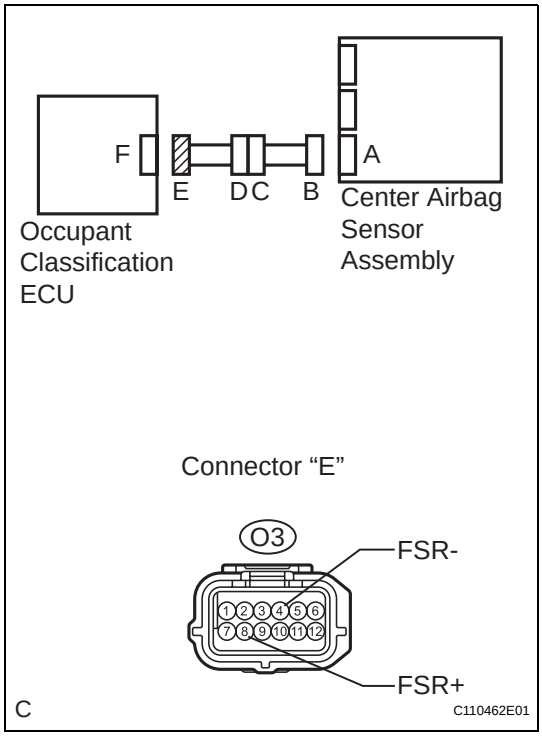
Resistance

Tester connection	Condition	Specified condition
O3-8 (FSR+) - Body ground	Always	1 MΩ or Higher
O3-4 (FSR-) - Body ground	Always	1 MΩ or Higher

NG → **Go to step 8**

OK

5 CHECK OCCUPANT CLASSIFICATION ECU CIRCUIT (SHORT TO B+)



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

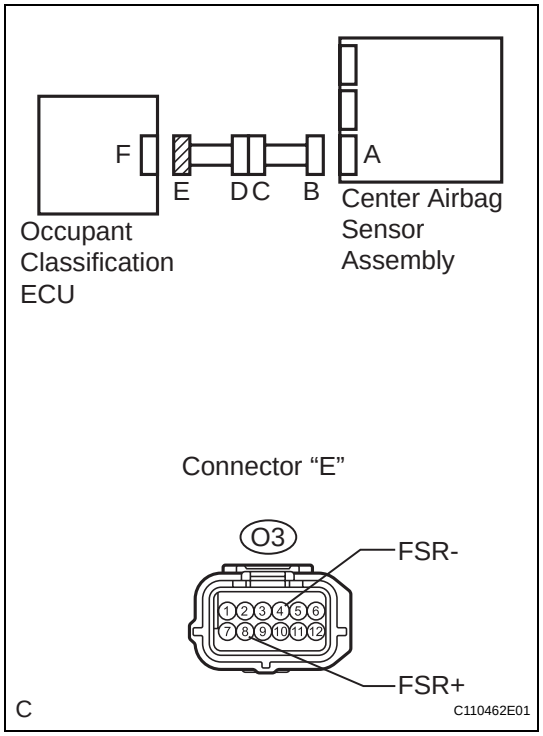
Voltage

Tester connection	Condition	Specified condition
O3-8 (FSR+) - Body ground	Ignition switch ON	Below 1 V
O3-4 (FSR-) - Body ground	Ignition switch ON	Below 1 V

NG → **Go to step 9**

OK

6 CHECK OCCUPANT CLASSIFICATION ECU CIRCUIT (SHORT)



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

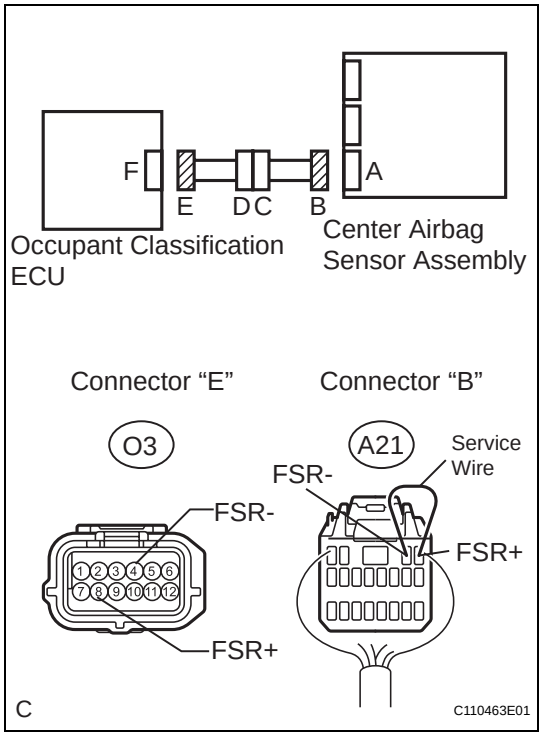
Resistance

Tester connection	Condition	Specified condition
O3-8 (FSR+) - O3-4 (FSR-)	Always	1 MΩ or Higher

NG → **Go to step 10**

OK

7 CHECK OCCUPANT CLASSIFICATION ECU CIRCUIT (OPEN)



(a) Using a service wire, connect A21-1 (FSR+) and A21-2 (FSR-) of connector "B".
HINT:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(b) Measure the resistance according to the value(s) in the table below.

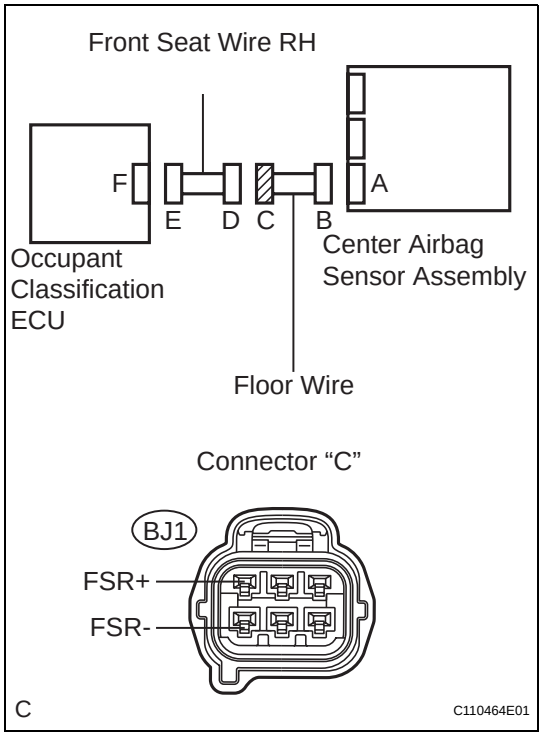
Resistance

Tester connection	Condition	Specified condition
O3-8 (FSR+) - O3-4 (FSR-)	Always	Below 1 Ω

NG → **Go to step 11**

OK

8	CHECK FLOOR WIRE (SHORT TO GROUND)



(a) Disconnect the floor wire connector from the front seat wire RH.

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

Resistance

Tester connection	Condition	Specified condition
BJ1-1 (FSR+) - Body ground	Always	1 MΩ or Higher
BJ1-4 (FSR-) - Body ground	Always	1 MΩ or Higher

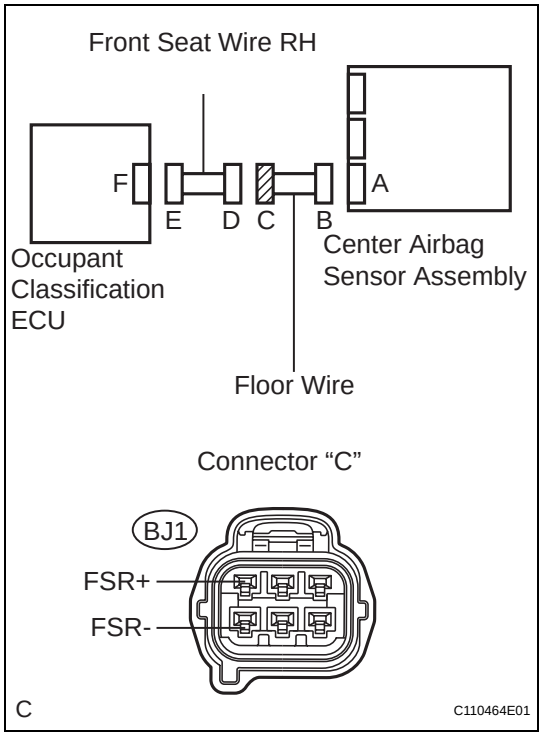
NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

REPAIR OR REPLACE FRONT SEAT WIRE RH

RS

9	CHECK FLOOR WIRE (SHORT TO B+)



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

Voltage

Tester connection	Condition	Specified condition
BJ1-1 (FSR+) - Body ground	Ignition switch ON	Below 1 V
BJ1-4 (FSR-) - Body ground	Ignition switch ON	Below 1 V

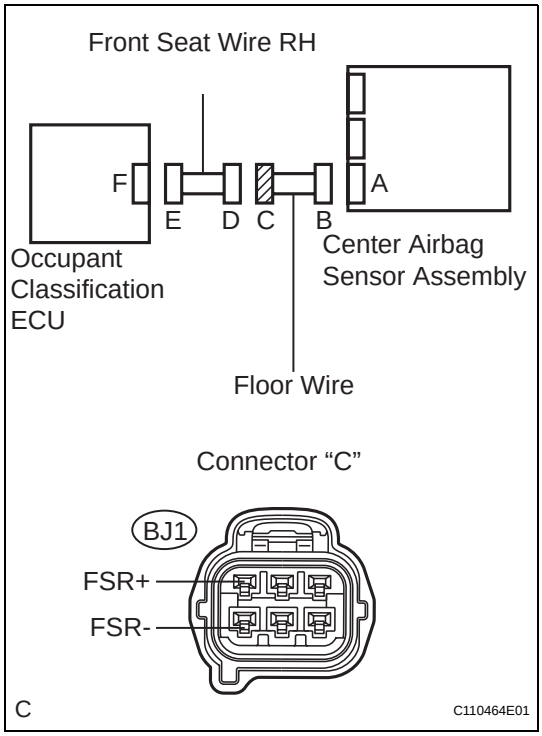
NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

REPAIR OR REPLACE FRONT SEAT WIRE RH

RS

10	CHECK FLOOR WIRE (SHORT)



(a) Disconnect the floor wire connector from the front seat wire RH.

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

Resistance

Tester connection	Condition	Specified condition
BJ1-1 (FSR+) - BJ1-4 (FSR-)	Always	1 MΩ or Higher

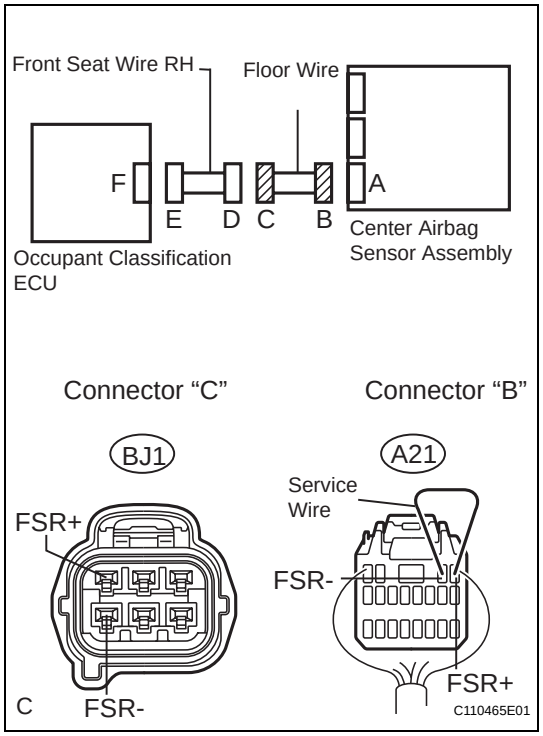
NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

REPAIR OR REPLACE FRONT SEAT WIRE RH

RS

11	CHECK FLOOR WIRE (OPEN)



(a) Disconnect the floor wire connector from the front seat wire RH.
HINT:
The service wire has already been inserted into connector "B".

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

Resistance

Tester connection	Condition	Specified condition
BJ1-1 (FSR+) - BJ1-4 (FSR-)	Always	Below 1 Ω

RS

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

REPAIR OR REPLACE FRONT SEAT WIRE RH

DTC	B1152/28	Passenger Airbag ON/OFF Indicator Circuit Malfunction

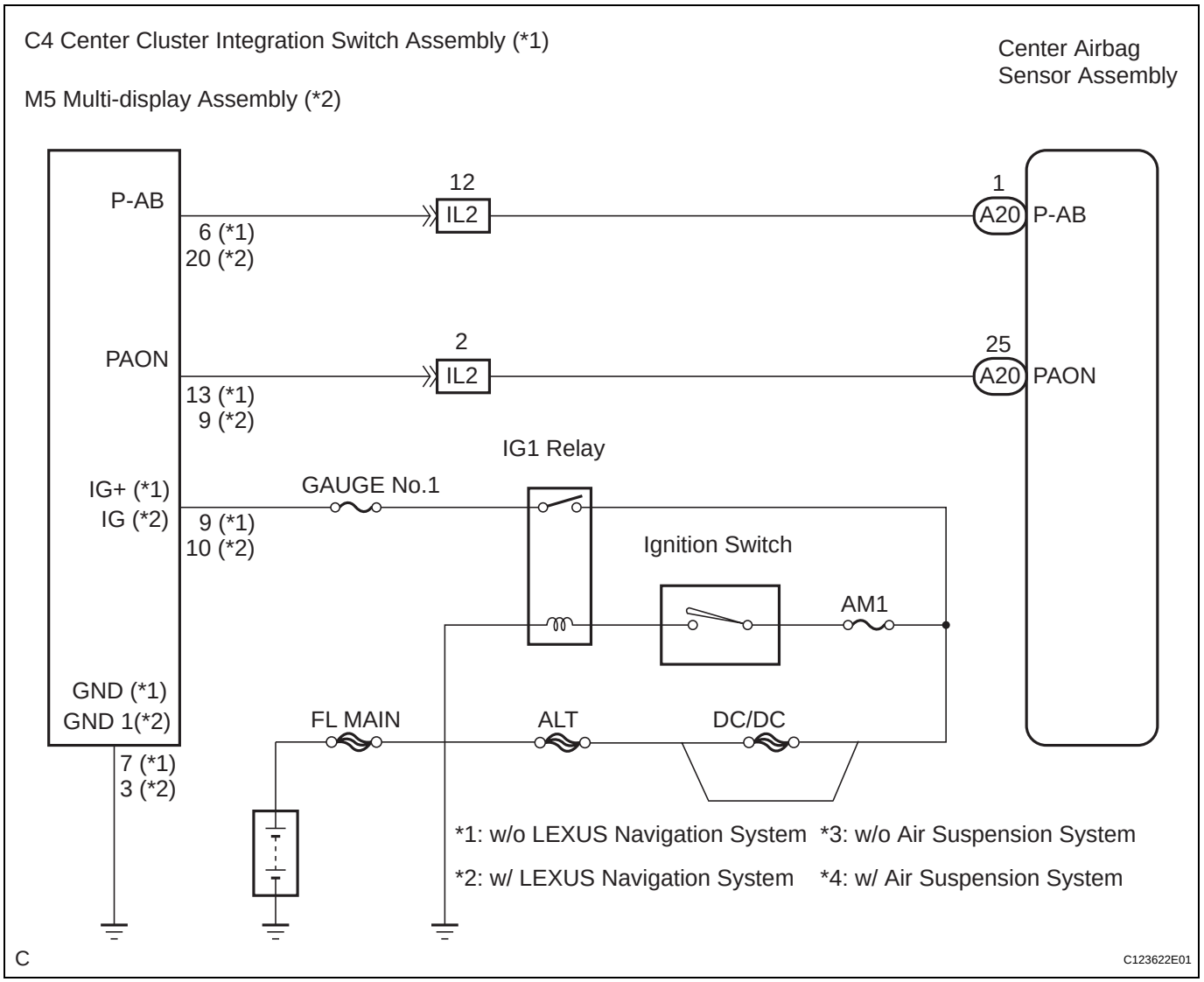
DESCRIPTION

The passenger airbag ON/OFF indicator light circuit consists of the center airbag sensor assembly and passenger airbag ON/OFF indicator. This circuit indicates the operation condition of the front passenger airbag assembly, the front seat airbag assembly RH and front seat belt pretensioner RH. DTC B1152/28 is recorded when a malfunction is detected in the passenger airbag ON/OFF indicator circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1152/28	• The center airbag sensor assembly receives a line short signal, open signal, short to ground signal or B+ short signal in the passenger airbag ON/OFF indicator circuit for 2 seconds. • Passenger airbag ON/OFF indicator malfunction • Center airbag sensor assembly malfunction	• Center cluster integration switch assembly (w/o LEXUS Navigation system) • Multi-display assembly (w/ LEXUS Navigation system) • Center airbag sensor assembly • Instrument panel wire • Instrument panel wire No.2

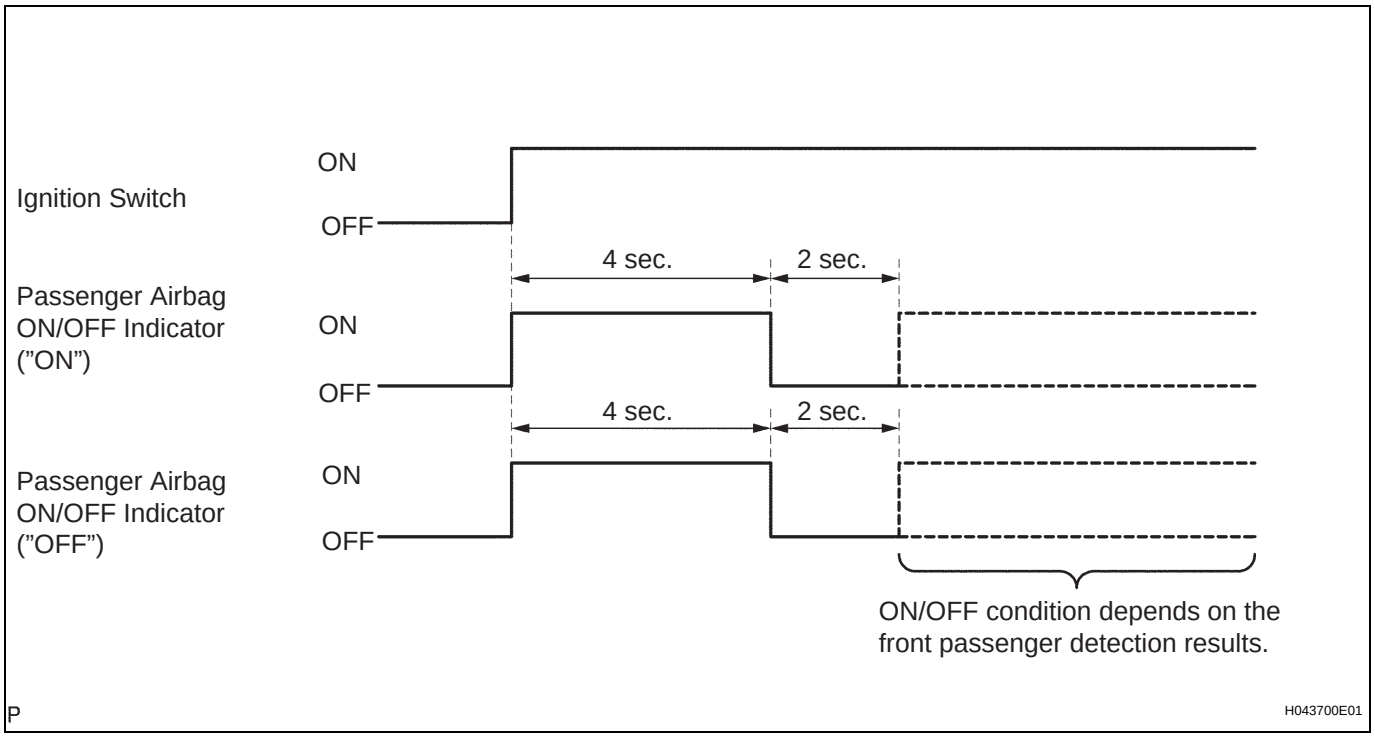
RS

WIRING DIAGRAM



1	CHECK PASSENGER AIRBAG ON/OFF INDICATOR OPERATION

(a) Turn the ignition switch to the ON position.
(b) Check the passenger airbag ON/OFF indicator operation.
HINT:
Refer to the normal condition of the passenger airbag ON/OFF indicator (See page RS-25).



Result

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

B → **Go to step 14**

A

2	CHECK CONNECTION OF CONNECTORS

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) w/o LEXUS Navigation system:
Check that the connectors are properly connected to the center airbag sensor assembly and the center cluster integration switch assembly.
(d) w/ LEXUS Navigation system:
Check that the connectors are properly connected to the center airbag sensor assembly and the multi-display assembly.

OK:

The connectors are connected.

NG → **CONNECT CONNECTORS**

OK

3 CHECK CONNECTORS

(a) w/o LEXUS Navigation System:

(1) Disconnect the connectors from the center airbag sensor assembly and the center cluster integration switch assembly.

(2) Check that the connectors (on the center airbag sensor assembly side and the center cluster integration switch assembly side) are not damaged.

OK:

The connectors are not deformed or damaged.

(b) w/ LEXUS Navigation System:

(1) Disconnect the connectors from the center airbag sensor assembly and the multi-display assembly.

(2) Check that the connectors (on the center airbag sensor assembly side and the multi-display assembly side) are not damaged.

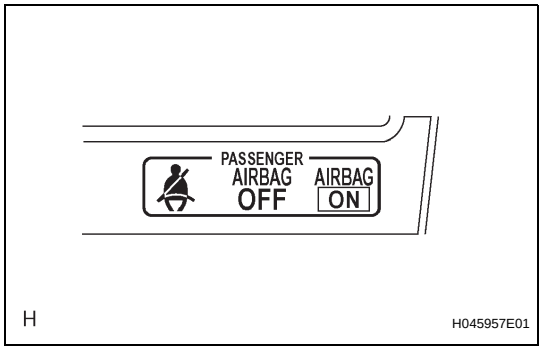
OK:

The connectors are not deformed or damaged.

NG → **REPAIR OR REPLACE WIRE HARNESS**

OK

4 CHECK PASSENGER AIRBAG ON/OFF INDICATOR



(a) w/o LEXUS Navigation system:
Connect the connector to the cluster integration switch assembly.

(b) w/ LEXUS Navigation system:
Connect the connector to the multi-display assembly.

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

(d) Turn the ignition switch to the ON position.

(e) Check the passenger airbag ON/OFF indicator operation.

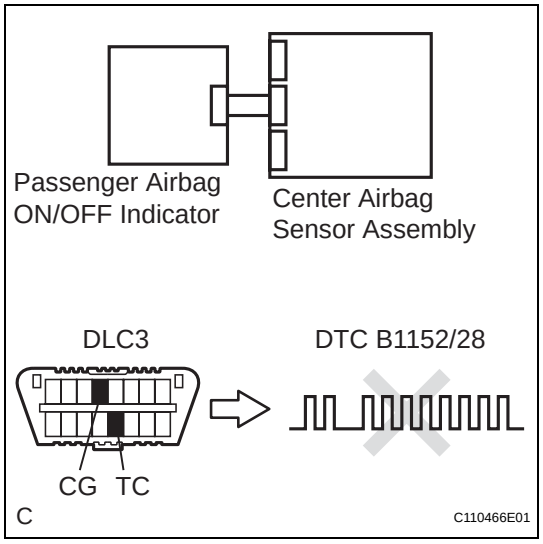
OK:

The passenger airbag ON/OFF indicator ("ON" and "OFF") does not come on.

NG → **Go to step 6**

OK

5	CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the center airbag sensor assembly.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (See page RS-32).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (See page RS-32).

OK:

DTC B1152/28 is not output.

HINT:

Codes other than code B1152/28 may be output at this time, but they are not related to this check.

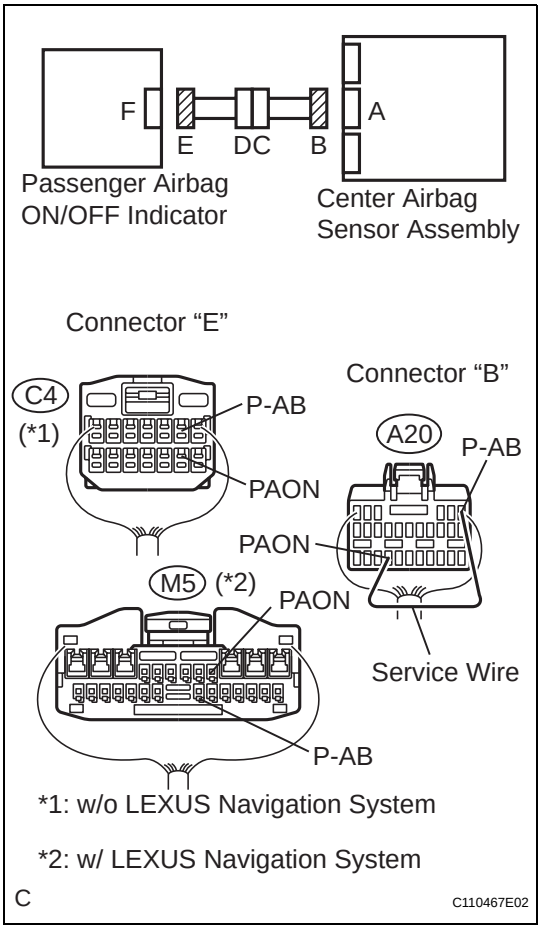
RS

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

6	CHECK PASSENGER AIRBAG ON/OFF INDICATOR CIRCUIT (OPEN)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) w/o LEXUS Navigation system:
Disconnect the connector from the center cluster integration switch assembly.
(d) w/ LEXUS Navigation system:
Disconnect the connector from the multi-display assembly.
(e) Using a service wire, connect A20-1 (P-AB) and A20-25 (PAON) of connector "B".
HINT:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(f) Measure the resistance according to the value(s) in the table below.

Resistance:

w/o LEXUS Navigation system

Tester connection	Condition	Specified condition
C4-6 (P-AB) - C4-13 (PAON)	Always	Below 1 Ω

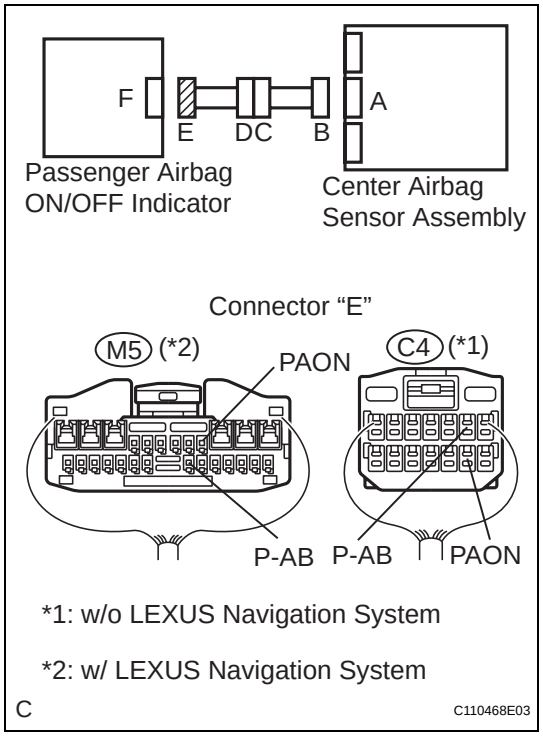
w/ LEXUS Navigation system

Tester connection	Condition	Specified condition
M5-20 (P-AB) - M5-9 (PAON)	Always	Below 1 Ω

NG → **Go to step 10**

OK

7 CHECK PASSENGER AIRBAG ON/OFF INDICATOR CIRCUIT (SHORT)



(a) Disconnect the SST from connector "B".
(b) Measure the resistance according to the value(s) in the table below.

Resistance:

w/o LEXUS Navigation system

Tester connection	Condition	Specified condition
C4-6 (P-AB) - C4-13 (PAON)	Always	1 MΩ or higher

w/ LEXUS Navigation system

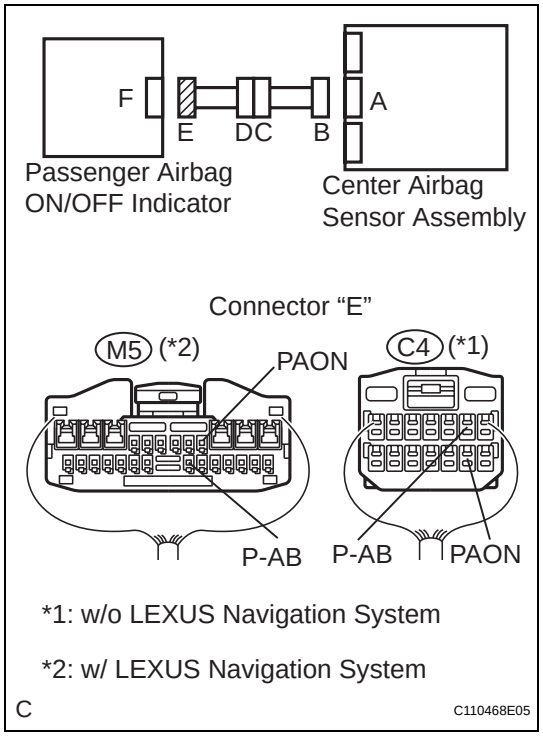
Tester connection	Condition	Specified condition
M5-20 (P-AB) - M5-9 (PAON)	Always	1 MΩ or higher

RS

NG → **Go to step 11**

OK

8 CHECK PASSENGER AIRBAG ON/OFF INDICATOR CIRCUIT (SHORT TO GROUND)



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

Resistance:

w/o LEXUS Navigation system

Tester connection	Condition	Specified condition
C4-6 (P-AB) - Body ground	Always	1 MΩ or higher
C4-13 (PAON) - Body ground	Always	1 MΩ or higher

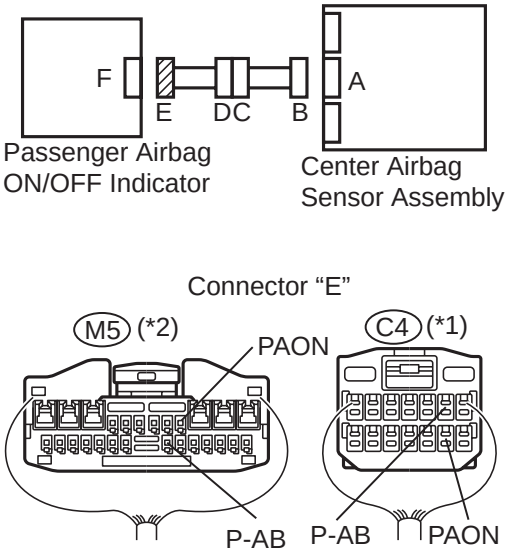
w/ LEXUS Navigation system

Tester connection	Condition	Specified condition
M5-20 (P-AB) - Body ground	Always	1 MΩ or higher
M5-9 (PAON) - Body ground	Always	1 MΩ or higher

NG → **Go to step 12**

OK

9	CHECK PASSENGER AIRBAG ON/OFF INDICATOR CIRCUIT (SHORT TO B+)



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

Voltage:

w/o LEXUS Navigation system

Tester connection	Condition	Specified condition
C4-6 (P-AB) - Body ground	Ignition switch ON	Below 1 V
C4-13 (PAON) - Body ground	Ignition switch ON	Below 1 V

w/ LEXUS Navigation system

Tester connection	Condition	Specified condition
M5-20 (P-AB) - Body ground	Ignition switch ON	Below 1 V
M5-9 (PAON) - Body ground	Ignition switch ON	Below 1 V

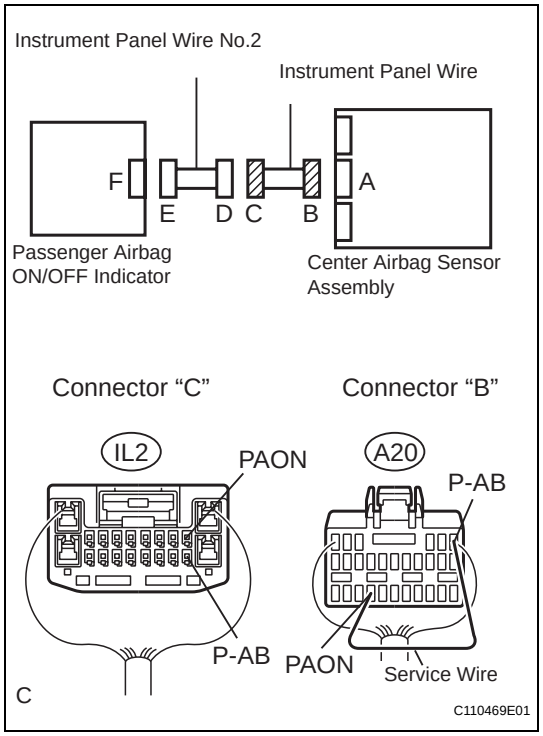
OK:A → **REPLACE CENTER CLUSTER INTEGRATION SWITCH ASSEMBLY (W/O LEXUS NAVIGATION SYSTEM)**

OK:B → **REPLACE MULTI-DISPLAY ASSEMBLY (W/ LEXUS NAVIGATION SYSTEM)**

NG

GO TO STEP 13

10 CHECK INSTRUMENT PANEL WIRE (OPEN)



(a) Disconnect the instrument panel wire connector from the instrument panel wire No.2.
HINT:
The service wire has already been inserted into connector "B".

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

Resistance

Tester connection	Condition	Specified condition
IL2-12 (P-AB) - IL2-2 (PAON)	Always	Below 1 Ω

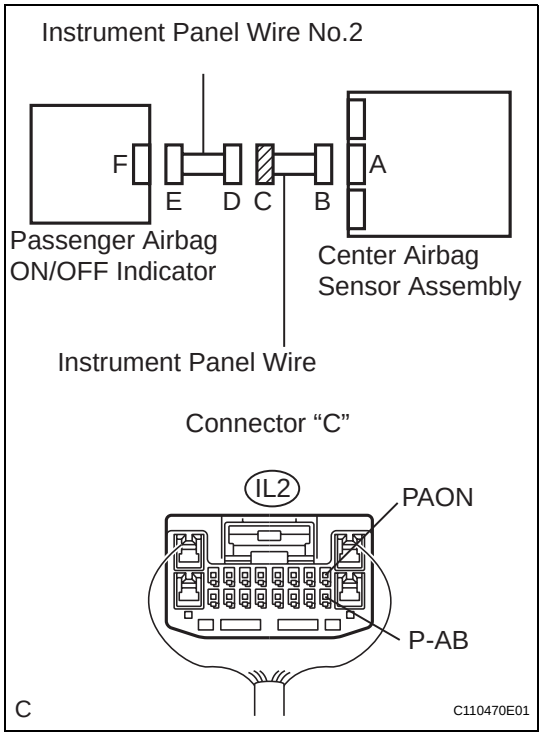
RS

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.2

11	CHECK INSTRUMENT PANEL WIRE (SHORT)



(a) Disconnect the instrument panel wire connector from the instrument panel wire No.2.
(b) Measure the resistance according to the value(s) in the table below.

Resistance

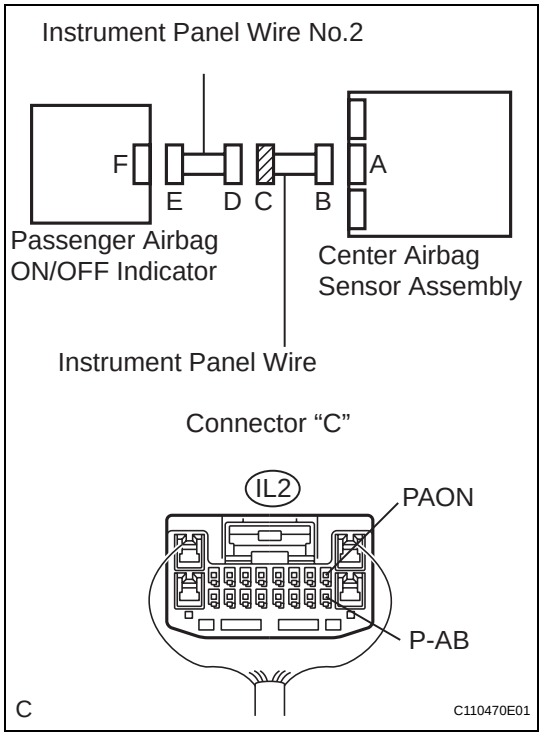
Tester connection	Condition	Specified condition
IL2-12 (P-AB) - IL2-2 (PAON)	Always	1 MΩ or higher

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.2

12 CHECK INSTRUMENT PANEL WIRE (SHORT TO GROUND)



(a) Disconnect the instrument panel wire connector from the instrument panel wire No.2.
(b) Measure the resistance according to the value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
IL2-12 (P-AB) - Body ground	Always	1 MΩ or higher
IL2-2 (PAON) - Body ground	Always	1 MΩ or higher

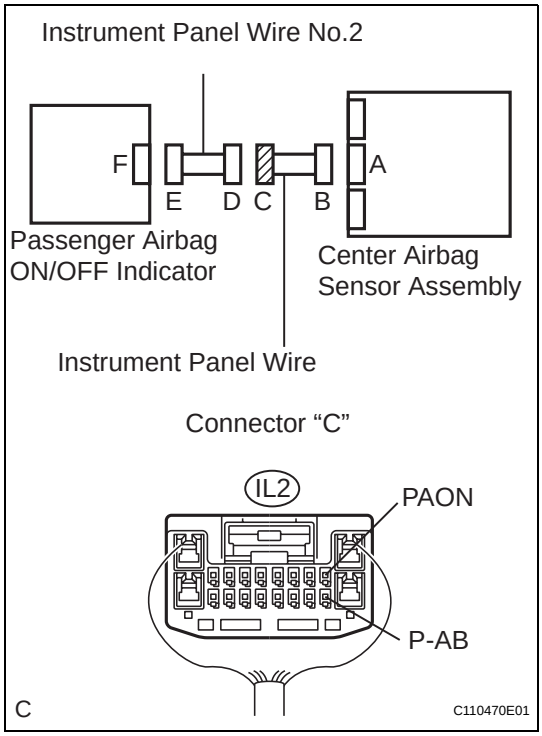
RS

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.2

13 CHECK INSTRUMENT PANEL WIRE (SHORT TO B+)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the instrument panel wire connector from the instrument panel wire No.2.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position.
(f) Measure the voltage according to the value(s) in the table below.

Voltage

Tester connection	Condition	Specified condition
IL2-12 (P-AB) - Body ground	Ignition switch ON	Below 1 V
IL2-2 (PAON) - Body ground	Ignition switch ON	Below 1 V

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.2

14 CHECK CONNECTION OF CONNECTORS

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) w/o LEXUS Navigation system:
Check that the connectors are properly connected to the center airbag sensor assembly and the center cluster integration switch assembly.
(d) w/ LEXUS Navigation system:
Check that the connectors are properly connected to the center airbag sensor assembly and the multi-display assembly.

OK:

The connectors are connected.

NG → **CONNECT CONNECTORS**

OK

15	CHECK CONNECTORS

(a) w/o LEXUS Navigation System:
  (1) Disconnect the connectors from the center airbag sensor assembly and the center cluster integration switch assembly.
  (2) Check that the connectors (on the center airbag sensor assembly side and the center cluster integration switch assembly side) are not damaged.
  OK:
  The connectors are not deformed or damaged.

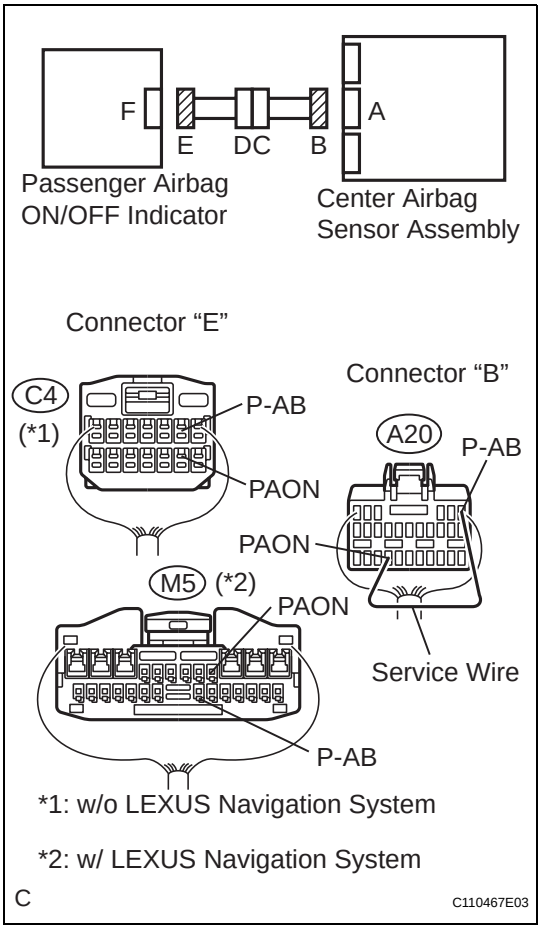
(b) w/ LEXUS Navigation System:
  (1) Disconnect the connectors from the center airbag sensor assembly and the multi-display assembly.
  (2) Check that the connectors (on the center airbag sensor assembly side and the multi-display assembly side) are not damaged.
  OK:
  The connectors are not deformed or damaged.

RS

NG → **REPAIR OR REPLACE WIRE HARNESS**

OK

16	CHECK PASSENGER AIRBAG ON/OFF INDICATOR CIRCUIT (OPEN)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) w/o LEXUS Navigation system:
Disconnect the connector from the center cluster integration switch assembly.
(d) w/ LEXUS Navigation system:
Disconnect the connector from the multi-display assembly.
(e) Using a service wire, connect A20-1 (P-AB) and A20-25 (PAON) of connector "B".
CAUTION:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(f) Measure the resistance according to the value(s) in the table below.
Resistance:
w/o LEXUS Navigation system

Tester connection	Condition	Specified condition
C4-6 (P-AB) - C4-13 (PAON)	Always	Below 1 Ω

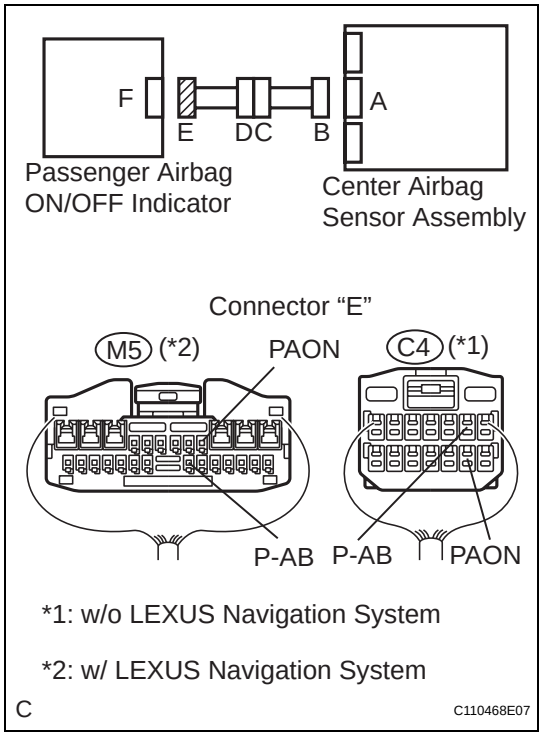
w/ LEXUS Navigation system

Tester connection	Condition	Specified condition
M5-20 (P-AB) - M5-9 (PAON)	Always	Below 1 Ω

NG → **Go to step 23**

OK

17 CHECK PASSENGER AIRBAG ON/OFF INDICATOR CIRCUIT (SHORT)



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

Resistance:

w/o LEXUS Navigation system

Tester connection	Condition	Specified condition
C4-6 (P-AB) - C4-13 (PAON)	Always	1 MΩ or higher

w/ LEXUS Navigation system

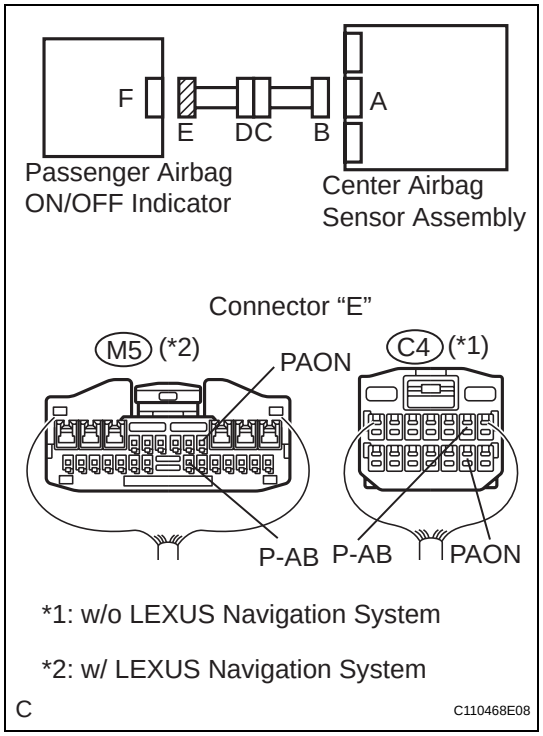
Tester connection	Condition	Specified condition
M5-20 (P-AB) - M5-9 (PAON)	Always	1 MΩ or higher

RS

NG → **Go to step 24**

OK

18 CHECK PASSENGER AIRBAG ON/OFF INDICATOR CIRCUIT (SHORT TO GROUND)



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

Resistance:

w/o LEXUS Navigation system

Tester connection	Condition	Specified condition
C4-6 (P-AB) - Body ground	Always	1 MΩ or higher
C4-13 (PAON) - Body ground	Always	1 MΩ or higher

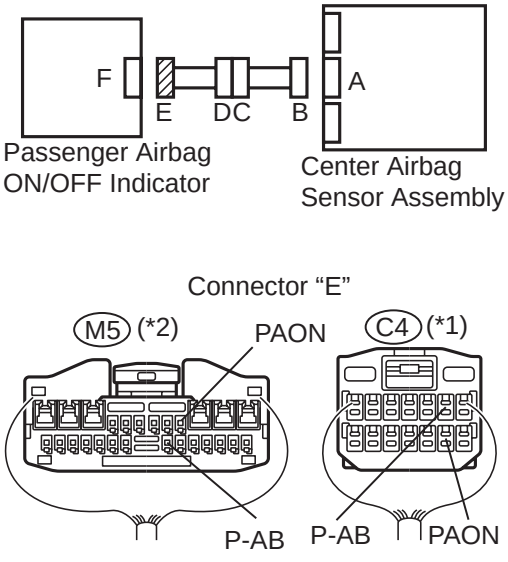
w/ LEXUS Navigation system

Tester connection	Condition	Specified condition
M5-20 (P-AB) - Body ground	Always	1 MΩ or higher
M5-9 (PAON) - Body ground	Always	1 MΩ or higher

NG → **Go to step 25**

OK

19 CHECK PASSENGER AIRBAG ON/OFF INDICATOR CIRCUIT (SHORT TO B+)



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

Voltage:

w/o LEXUS Navigation system

Tester connection	Condition	Specified condition
C4-6 (P-AB) - Body ground	Ignition switch ON	Below 1 V
C4-13 (PAON) - Body ground	Ignition switch ON	Below 1 V

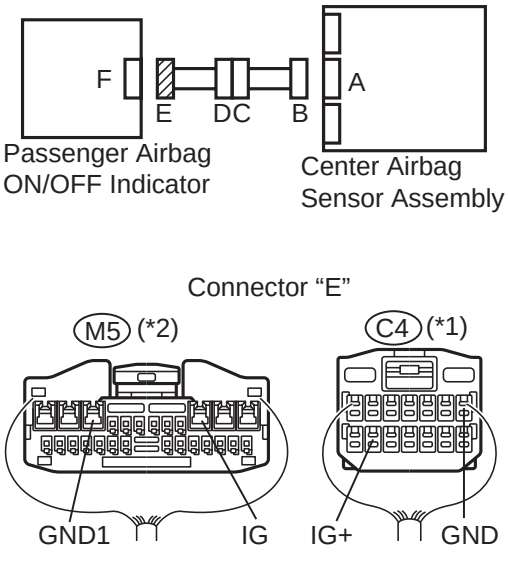
w/ LEXUS Navigation system

Tester connection	Condition	Specified condition
M5-20 (P-AB) - Body ground	Ignition switch ON	Below 1 V
M5-9 (PAON) - Body ground	Ignition switch ON	Below 1 V

NG → **Go to step 26**

OK

20 CHECK WIRE HARNESS (POWER SOURCE)



(a) Turn the ignition switch to the ON position.
(b) Measure the voltage and resistance according to the value(s) in the table below.

Voltage and Resistance:

w/o LEXUS Navigation system

Tester connection	Condition	Specified condition
C4-9 (IG+) - Body ground	Ignition switch ON	10 to 14 V
C4-7 (GND) - Body ground	Always	1 MΩ or higher

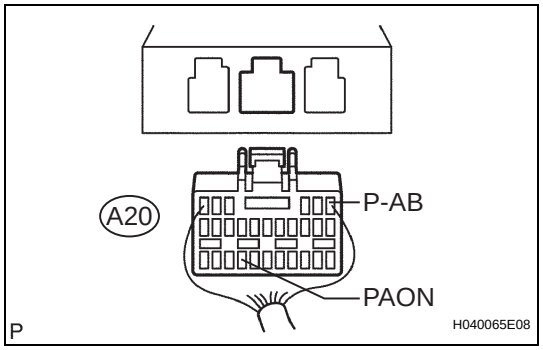
w/ LEXUS Navigation system

Tester connection	Condition	Specified condition
M5-10 (IG) - Body ground	Ignition switch ON	10 to 14 V
M5-3 (GND1) - Body ground	Always	1 MΩ or higher

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

OK

21 CHECK PASSENGER AIRBAG ON/OFF INDICATOR



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) w/o LEXUS Navigation system:
Connect the connector to the center cluster integration switch assembly.
(d) w/ LEXUS Navigation system:
Connect the connector to the multi-display assembly.
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position.
(g) Check the passenger airbag ON/OFF indicator condition.

Result

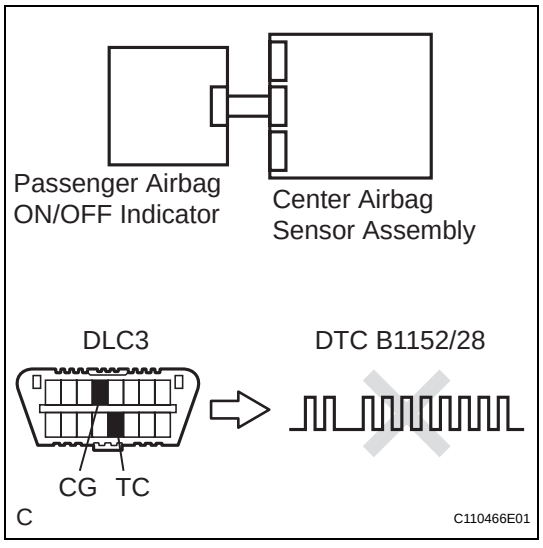
Tester connection	Condition	Passenger airbag ON/OFF indicator condition
A20-25 (PAON) - Body ground	Ignition switch ON	"ON" comes on
A20-1 (P-AB) - Body ground	Ignition switch ON	"OFF" comes on

NG:A → **REPLACE CENTER CLUSTER INTEGRATION SWITCH ASSEMBLY (W/O LEXUS NAVIGATION SYSTEM)**

NG:B → **REPLACE MULTI-DISPLAY ASSEMBLY (W/ LEXUS NAVIGATION SYSTEM)**

OK

22 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the center airbag sensor assembly.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (See page RS-32).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (See page RS-32).

OK:

DTC B1152/28 is not output.

HINT:
Codes other than code B1152/28 may be output at this time, but they are not related to this check.

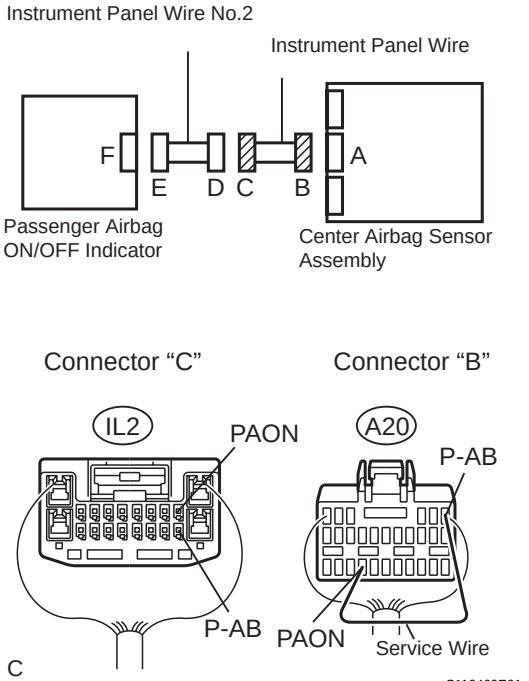
NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

23	CHECK INSTRUMENT PANEL WIRE (OPEN)

RS



(a) Disconnect the instrument panel wire connector from the instrument panel wire No.2.
HINT:
The service wire has already been inserted into connector "B".

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

Resistance

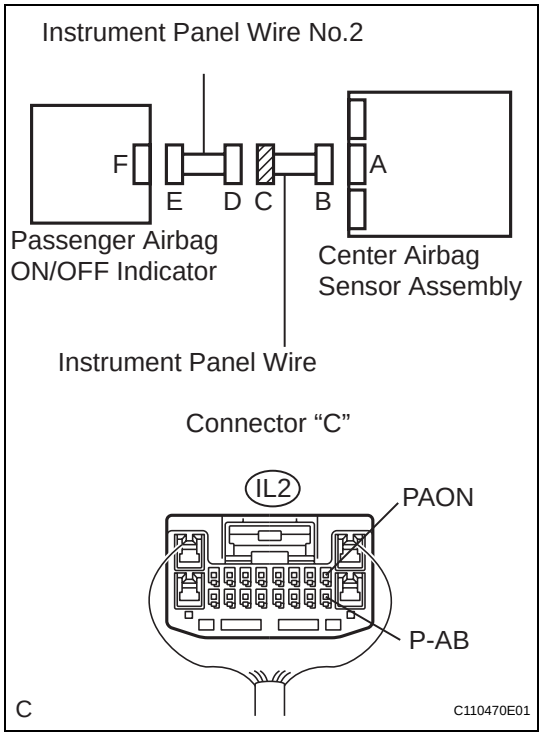
Tester connection	Condition	Specified condition
IL2-12 (P-AB) - IL2-2 (PAON)	Always	Below 1 Ω

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.2

24 CHECK INSTRUMENT PANEL WIRE (SHORT)



(a) Disconnect the instrument panel wire connector from the instrument panel wire No.2.
(b) Measure the resistance according to the value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
IL2-12 (P-AB) - IL2-2 (PAON)	Always	1 MΩ or higher

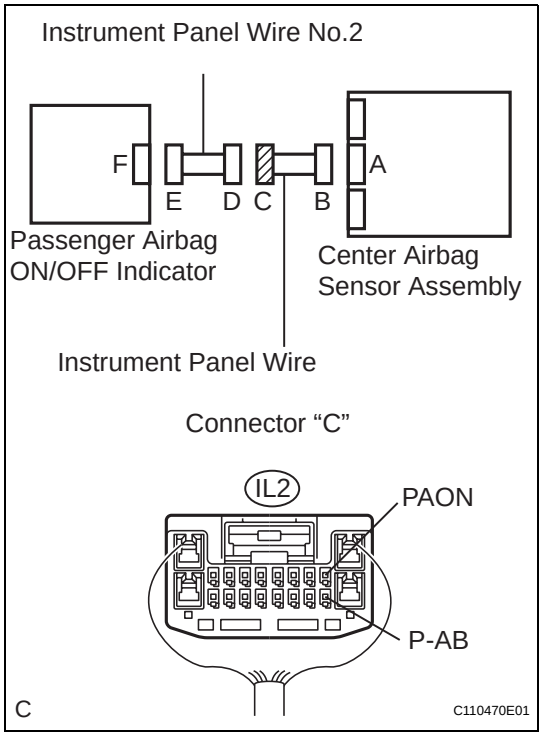
NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.2

RS

25	CHECK INSTRUMENT PANEL WIRE (SHORT TO GROUND)



(a) Disconnect the instrument panel wire connector from the instrument panel wire No.2.
(b) Measure the resistance according to the value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
IL2-12 (P-AB) - Body ground	Always	1 MΩ or higher
IL2-2 (PAON) - Body ground	Always	1 MΩ or higher

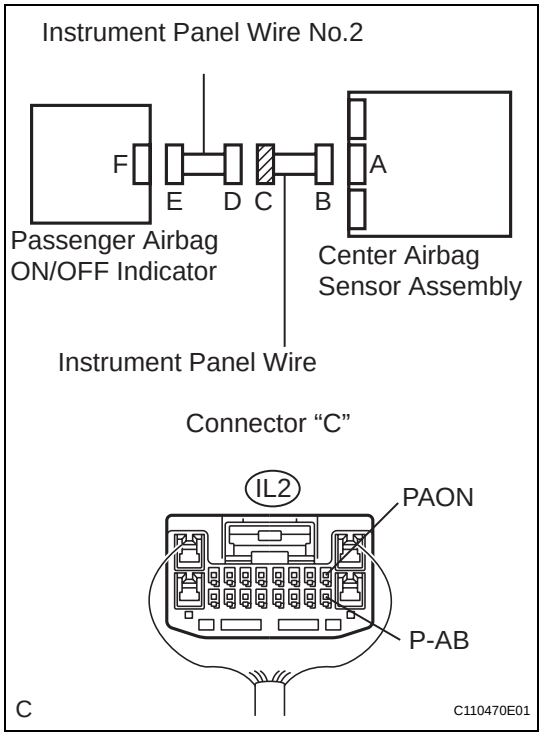
NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.2

RS

26	CHECK INSTRUMENT PANEL WIRE (SHORT TO B+)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the instrument panel wire connector from the instrument panel wire No.2.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position.
(f) Measure the voltage according to the value(s) in the table below.

Voltage

Tester connection	Condition	Specified condition
IL2-12 (P-AB) - Body ground	Ignition switch ON	Below 1 V
IL2-2 (PAON) - Body ground	Ignition switch ON	Below 1 V

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.2

RS

DTC	B1153/25	Seat Position Airbag Sensor Circuit Malfunction

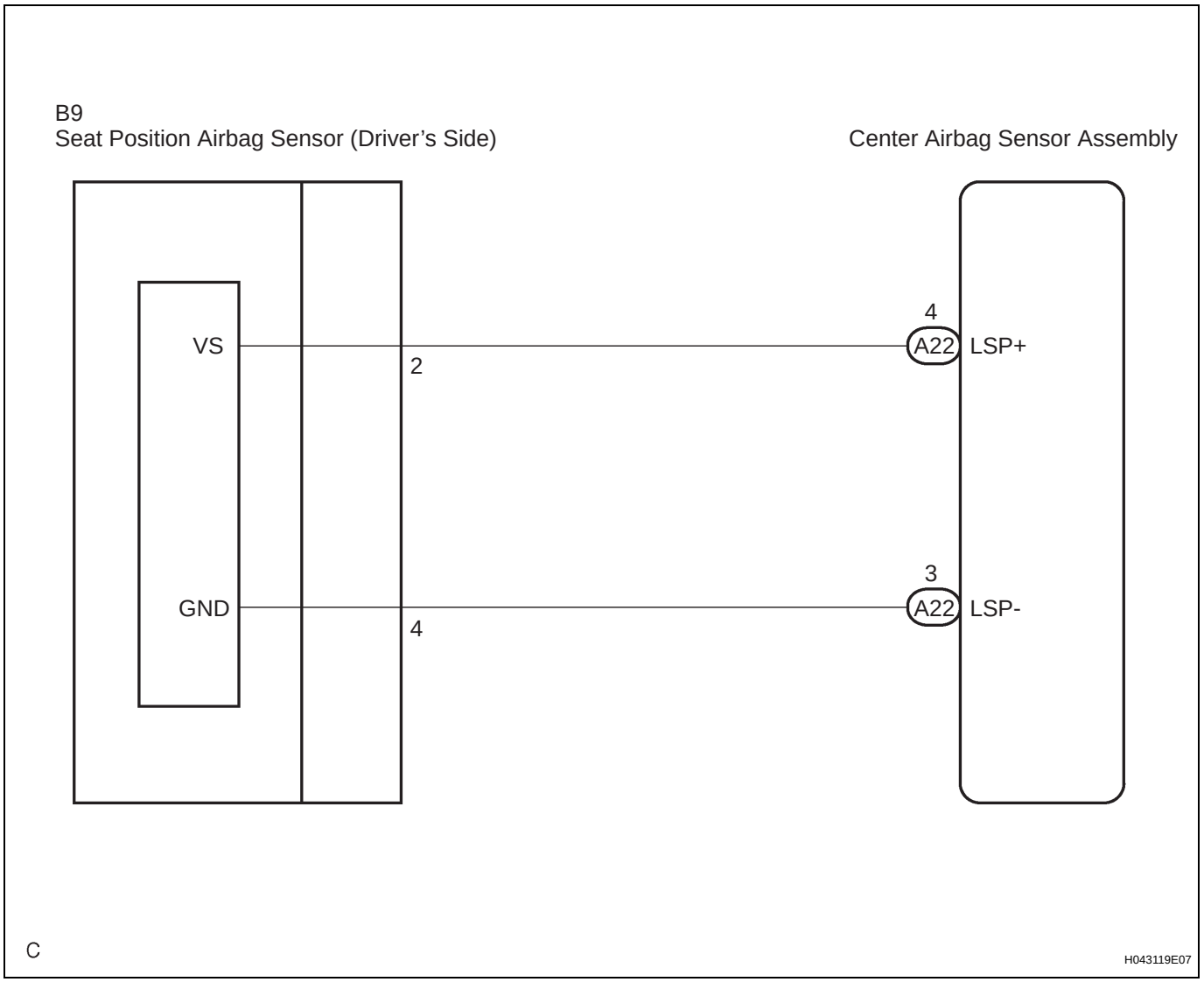
DESCRIPTION

The seat position airbag sensor circuit consists of the center airbag sensor assembly and the seat position airbag sensor.
DTC B1153/25 is recorded when a malfunction is detected in the seat position airbag sensor circuit.

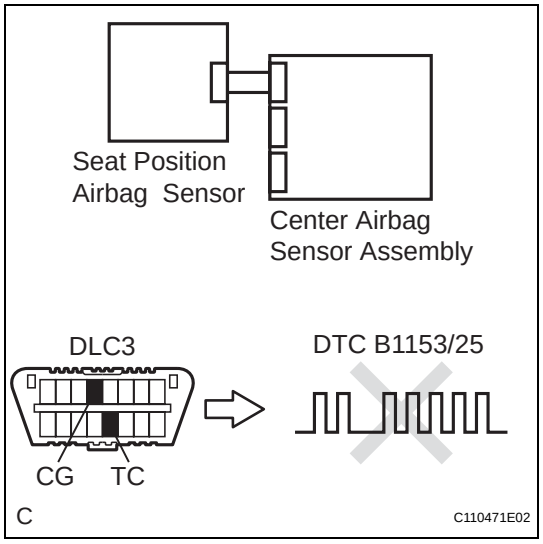
DTC No.	DTC Detecting Condition	Trouble Area
B1153/25	• Open circuit in LSP+ wire harness or LSP- wire harness of seat position sensor • Short circuit in seat position sensor wire harness (to ground) • Short circuit in seat position sensor wire harness (to B+) • Seat position airbag sensor malfunction • Center airbag sensor assembly malfunction	• Seat position airbag sensor • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM



1	CHECK DTC



(a) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(b) Clear the DTCs stored in memory (See page RS-32).
(c) Turn the ignition switch to the LOCK position.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Check the DTCs (See page RS-32).

OK:

DTC B1153/25 is not output.

HINT:

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

RS

NG → **Go to step 2**

OK

USE SIMULATION METHOD TO CHECK

2	CHECK CONNECTION OF CONNECTORS

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

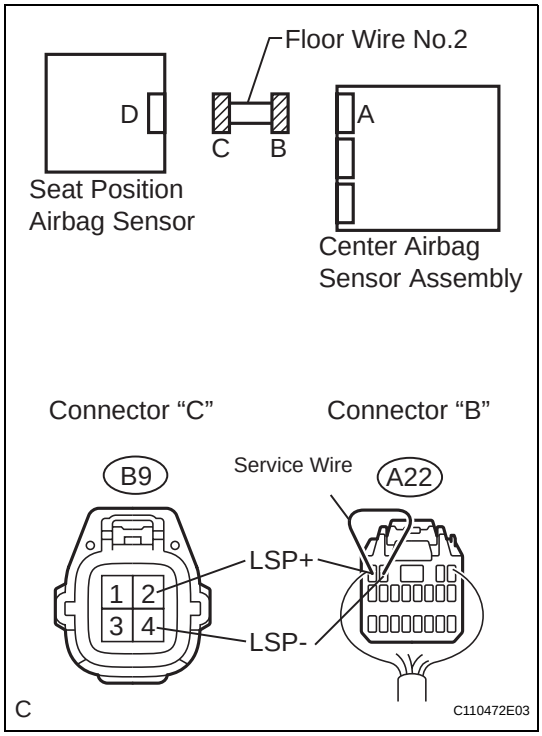
OK:

The connectors are connected.

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

OK

3 CHECK FLOOR WIRE NO.2 (OPEN)



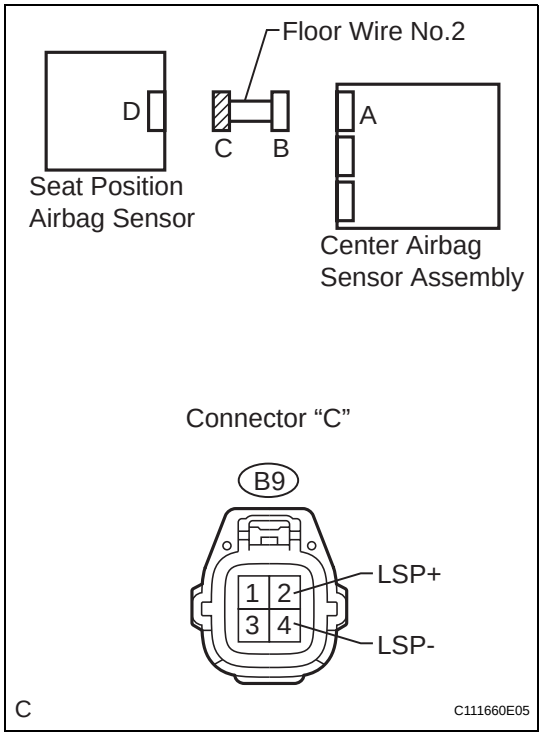
(a) Disconnect the connectors from the center airbag sensor assembly and the seat position airbag sensor.
(b) Using a service wire, connect A22-4 (LSP+) and A22-3 (LSP-) of connector "B".
HINT:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(c) Measure the voltage according to the value(s) in the table below.
Voltage

Tester connection	Condition	Specified condition
B9-2 (LSP+) - B9-4 (LSP-)	Always	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

4 CHECK FLOOR WIRE NO.2 (SHORT TO B+)



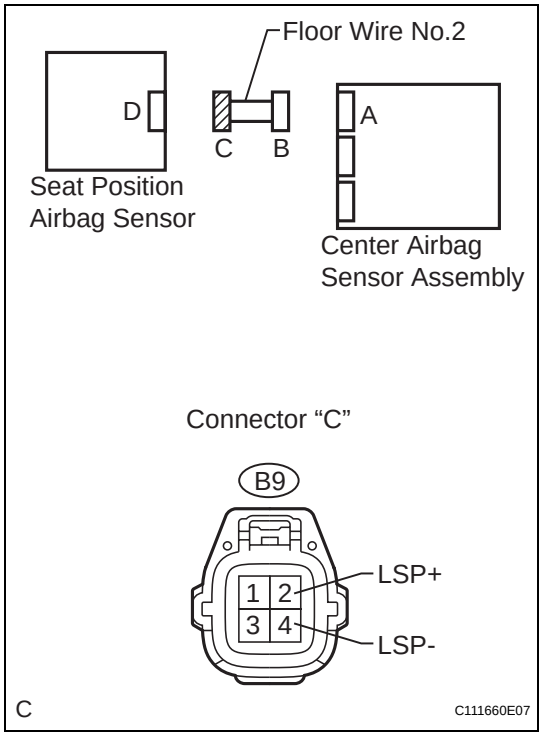
(a) Disconnect the service wire from connector "B".
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position.
(d) Measure the voltage according to the value(s) in the table below.
Voltage

Tester connection	Condition	Specified condition
B9-2 (LSP+) - Body ground	Ignition switch ON	Below 1 V
B9-4 (LSP-) - Body ground	Ignition switch ON	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

5 CHECK FLOOR WIRE NO.2 (SHORT TO GROUND)



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

Resistance

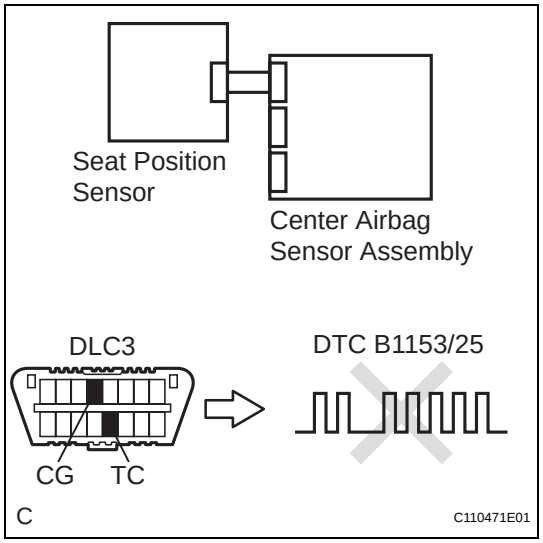
Tester connection	Condition	Specified condition
B9-2 (LSP+) - Body ground	Always	1 MΩ or higher
B9-4 (LSP-) - Body ground	Always	1 MΩ or higher

RS

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

6 CHECK SEAT POSITION AIRBAG SENSOR



(a) Connect the connectors to the seat position sensor and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B1153/25 is not output.

HINT:

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

NG → **Go to step 7**

OK

USE SIMULATION METHOD TO CHECK

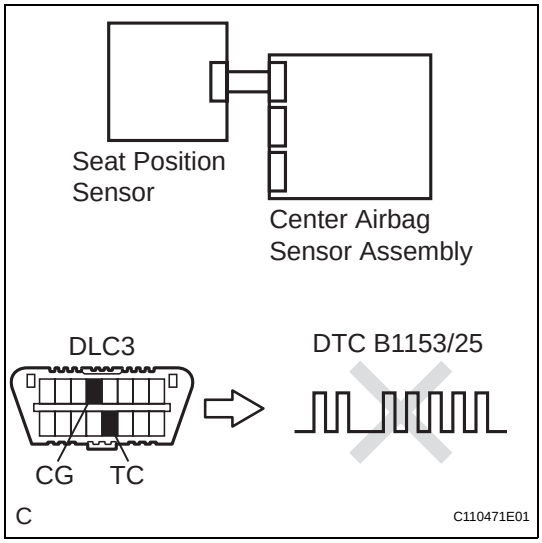
7	REPLACE SEAT POSITION AIRBAG SENSOR

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Replace the seat position sensor (See page RS-453).
HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

RS

8	CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(b) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(c) Clear the DTCs stored in memory (See page RS-32).
(d) Turn the ignition switch to the LOCK position.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Check the DTCs (See page RS-32).
OK:
DTC B1153/25 is not output.
HINT:
Codes other than code B1153/25 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

END

DTC	B1154/38	Rear Airbag Sensor RH Circuit Malfunction

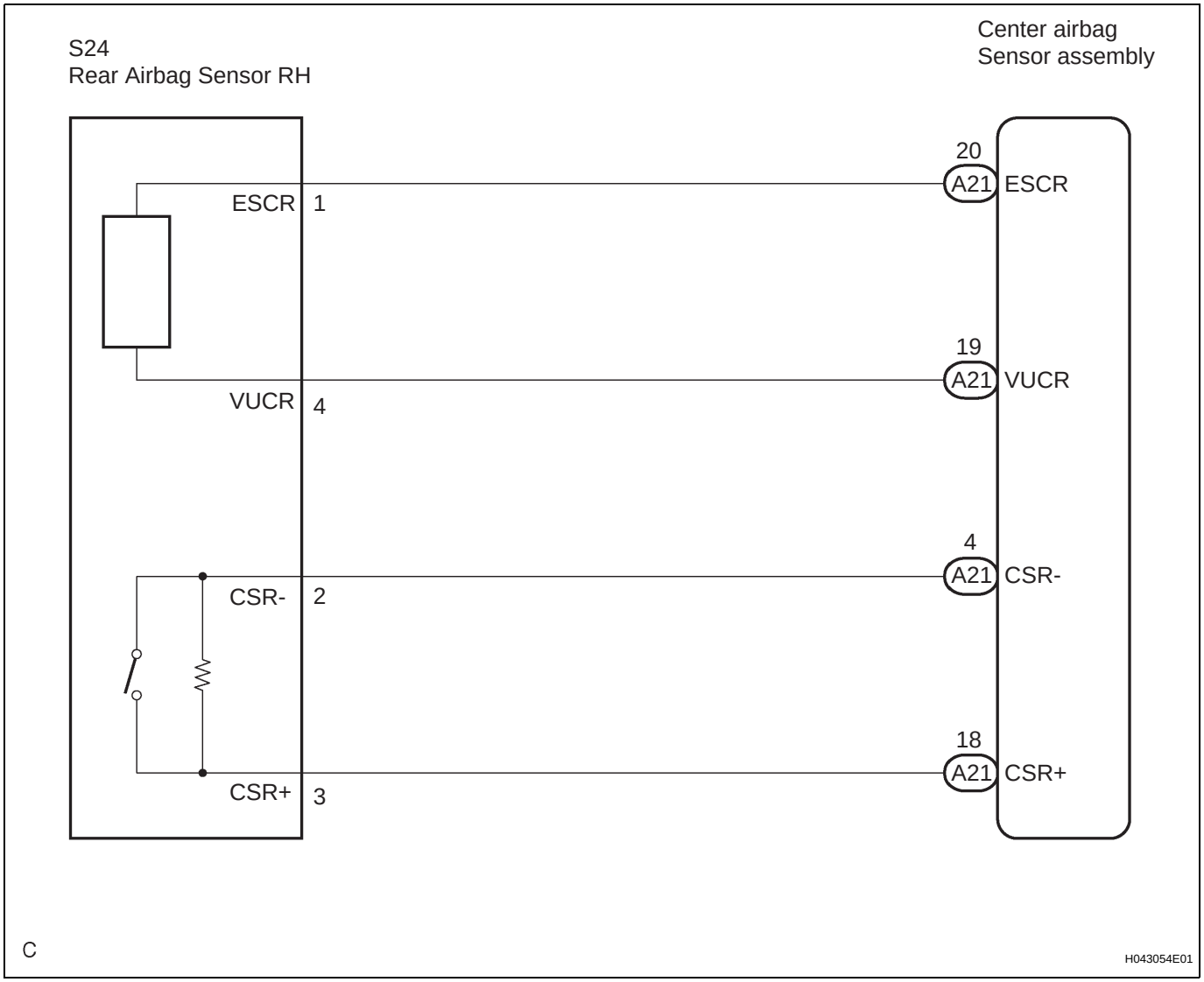
DESCRIPTION

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

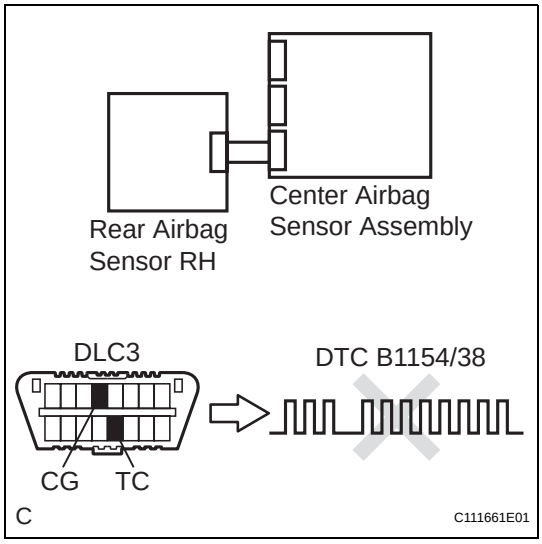
DTC No.	DTC Detecting Condition	Trouble Area
B1154/38	• Short in rear airbag sensor RH circuit (to ground) • Short in rear airbag sensor RH circuit (to B+) • Open in rear airbag sensor RH circuit • Rear airbag sensor RH malfunction • Center airbag sensor assembly malfunction	• Rear airbag sensor RH • Center airbag sensor assembly • Floor wire

RS

WIRING DIAGRAM



1	CHECK DTC



(a) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(b) Clear the DTCs stored in memory (See Page RS-32).
(c) Turn the ignition switch to the LOCK position.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Check the DTCs (See Page RS-32).

OK:

DTC B1154/38 is not output.

HINT:

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

NG → **Go to step 2**

OK

USE SIMULATION METHOD TO CHECK

2	CHECK CONNECTION OF CONNECTORS

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

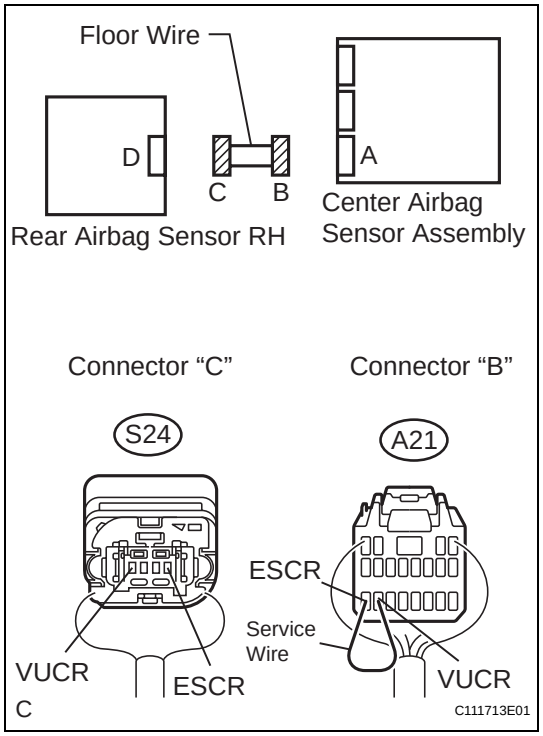
OK:

The connectors are connected.

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

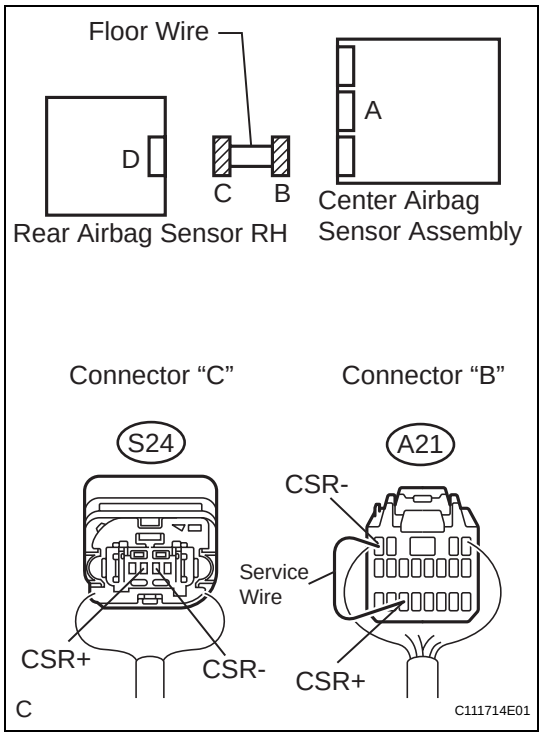
OK

3	CHECK FLOOR WIRE (OPEN)



(a) Disconnect the connectors from the center airbag sensor assembly and the rear airbag sensor RH.
(b) Using a service wire, connect A21-19 (VUCR) and A21-20 (ESCR) of connector "B".
HINT:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(c) Measure the resistance according to the value(s) in the table below.
Resistance

Tester connection	Condition	Specified condition
S24-4 (VUCR) - S24-1 (ESCR)	Always	Below 1 Ω



(d) Using a service wire, connect A21-18 (CSR+) and A21-4 (CSR-) of connector "B".
CAUTION:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(e) Measure the resistance according to the value(s) in the table below.
Resistance

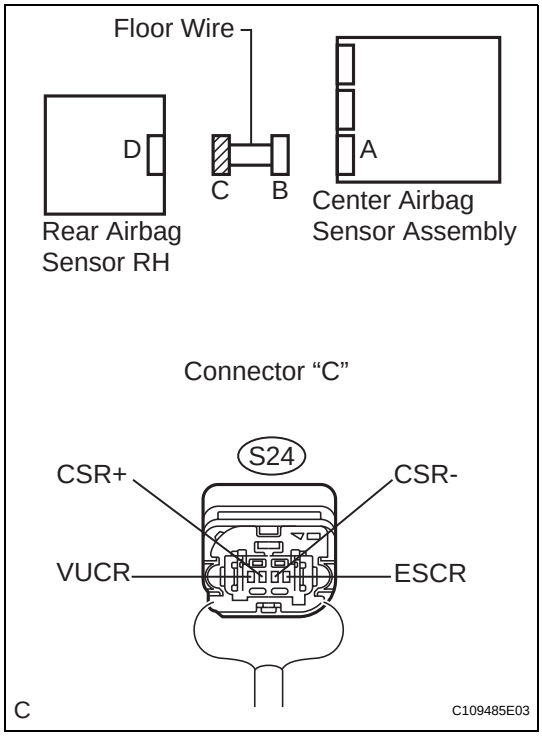
Tester connection	Condition	Specified condition
S24-3 (CSR+) - S24-2 (CSR-)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

4 CHECK FLOOR WIRE (SHORT TO B+)



(a) Disconnect the service wire from connector "B".
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position.
(d) Measure the voltage according to the value(s) in the table below.

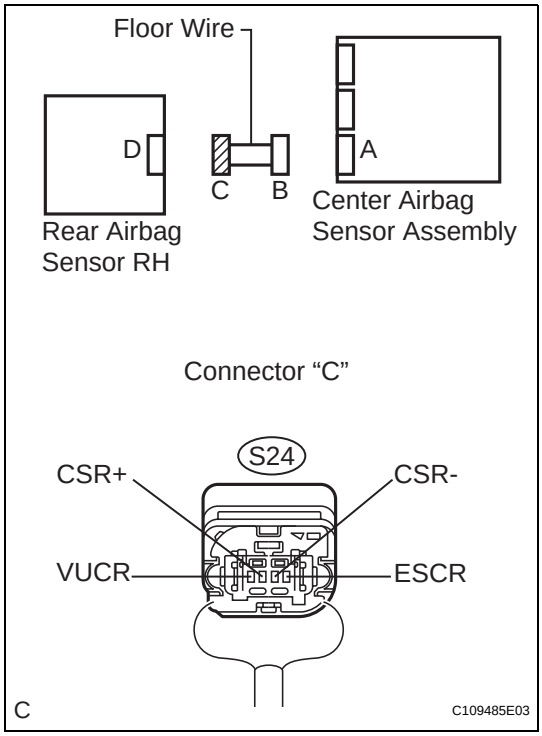
Voltage

Tester connection	Condition	Specified condition
S24-4 (VUCR) - Body ground	Ignition switch ON	Below 1 V
S24-1 (ESCR) - Body ground	Ignition switch ON	Below 1 V
S24-3 (CSR+) - Body ground	Ignition switch ON	Below 1 V
S24-2 (CSR-) - Body ground	Ignition switch ON	Below 1 V

NG → REPAIR OR REPLACE FLOOR WIRE

OK

5 CHECK FLOOR WIRE (SHORT TO GROUND)



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

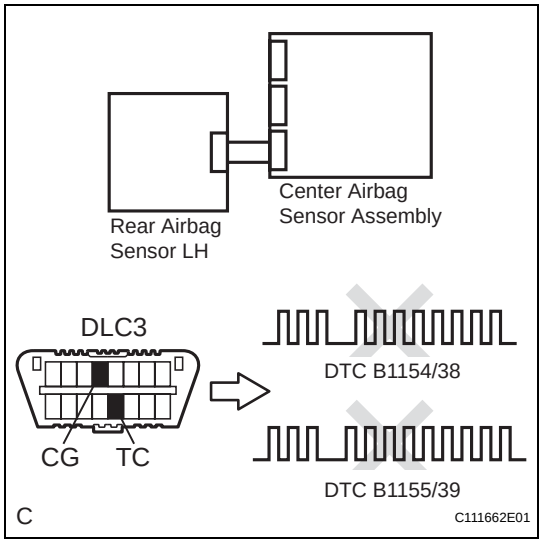
Resistance

Tester connection	Condition	Specified condition
S24-4 (VUCR) - Body ground	Always	1 MΩ or higher
S24-1 (ESCR) - Body ground	Always	1 MΩ or higher
S24-3 (CSR+) - Body ground	Always	1 MΩ or higher
S24-2 (CSR-) - Body ground	Always	1 MΩ or higher

NG → REPAIR OR REPLACE FLOOR WIRE

OK

6	CHECK REAR AIRBAG SENSOR RH



(a) Connect the connector to the center airbag sensor assembly.
(b) Interchange the rear airbag sensor LH with RH and connect the connectors to them.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (See page RS-32).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(h) Check the DTCs (See page RS-32).

Result

Proceed To	Display (DTC Output)
NG: A	DTC B1154/38 is output.
NG: B	DTC B1155/39 is output.
OK	DTC B1154/38 and B1155/39 are not output.

NG:A → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

NG:B → **REPLACE REAR AIRBAG SENSOR RH**

OK

USE SIMULATION METHOD TO CHECK

DTC B1155/39 Rear Airbag Sensor LH Circuit Malfunction

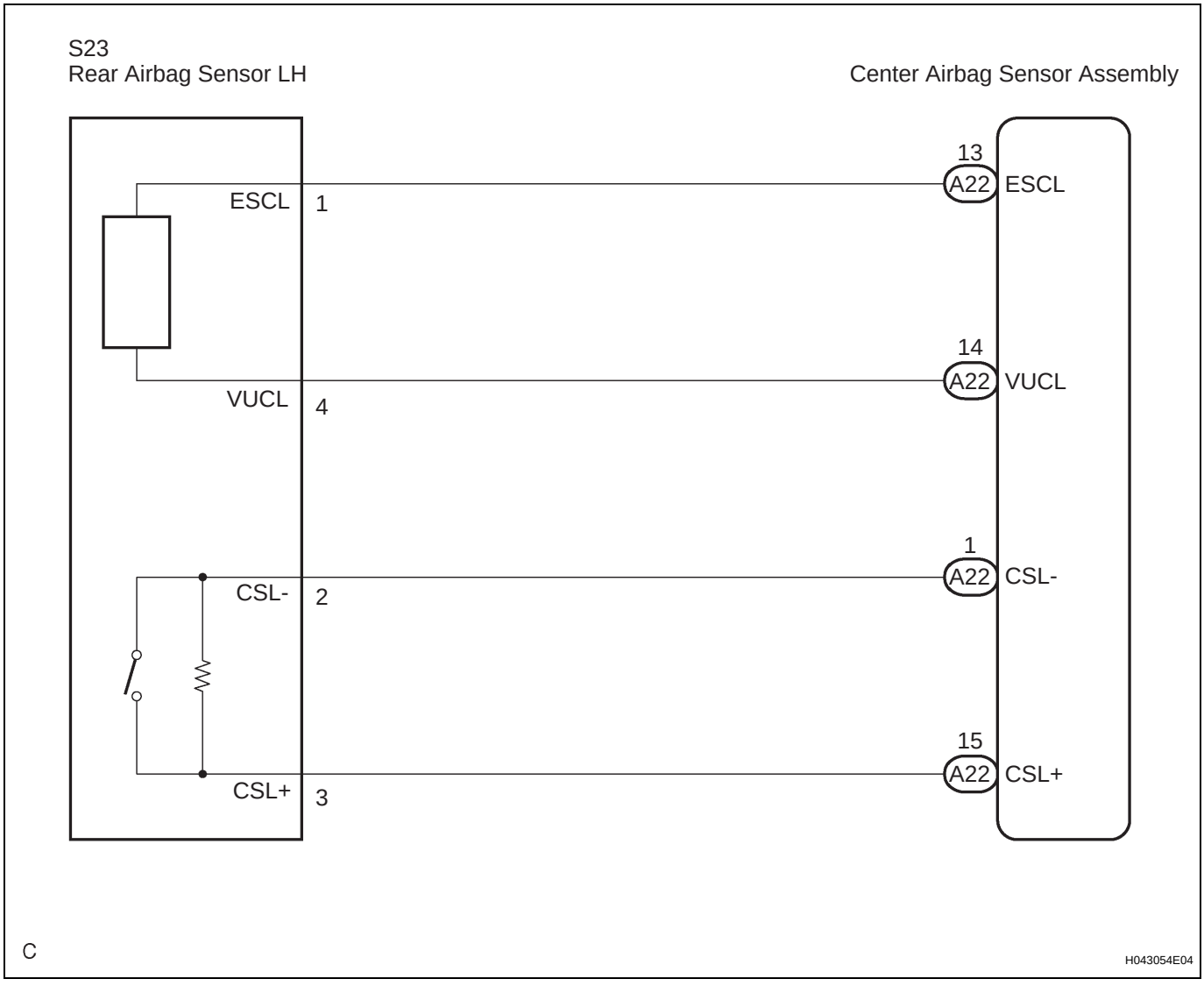
DESCRIPTION

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

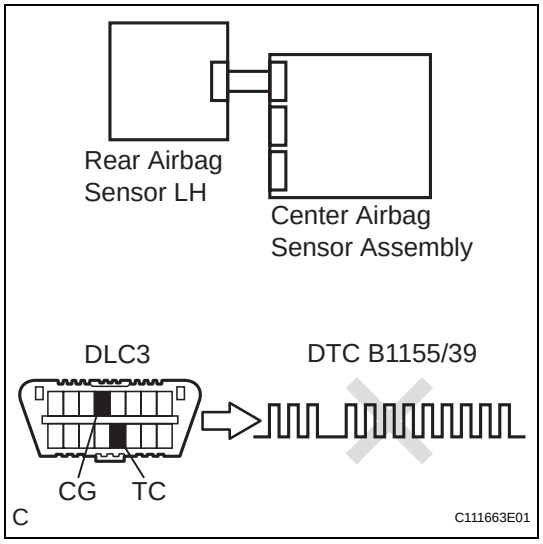
DTC No.	DTC Detecting Condition	Trouble Area
B1155/39	• Short in rear airbag sensor LH circuit (to ground) • Short in rear airbag sensor LH circuit (to B+) • Open in rear airbag sensor LH circuit • Rear airbag sensor LH malfunction • Center airbag sensor assembly malfunction	• Rear airbag sensor LH • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM



1	CHECK DTC



(a) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(b) Clear the DTCs stored in memory (See Page RS-32).
(c) Turn the ignition switch to the LOCK position.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Check the DTCs (See Page RS-32).

OK:

DTC B1155/39 is not output.

HINT:

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

RS

NG → **Go to step 2**

OK

USE SIMULATION METHOD TO CHECK

2	CHECK CONNECTION OF CONNECTORS

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

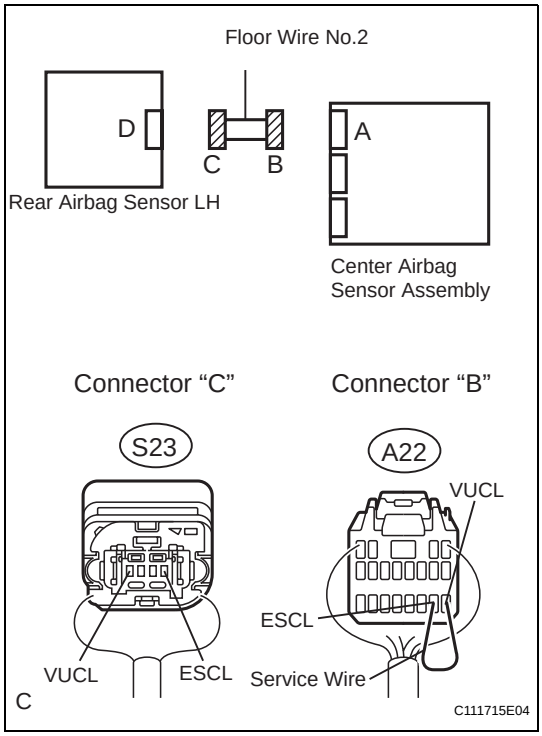
OK:

The connectors are connected.

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

OK

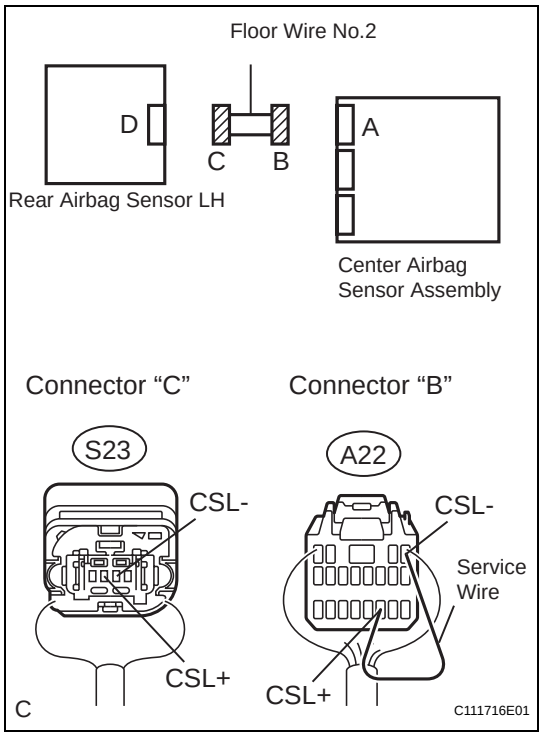
3	CHECK FLOOR WIRE NO.2 (OPEN)



(a) Disconnect the connectors from the center airbag sensor assembly and the rear airbag sensor LH.
(b) Using a service wire, connect A22-14 (VUCL) and A22-13 (ESCL) of connector "B".
HINT:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(c) Measure the resistance according to the value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
S23-4 (VUCL) - S23-1 (ESCL)	Always	Below 1 Ω



(d) Using a service wire, connect A22-15 (CSL+) and A22-1 (CSL-) of connector "B".
HINT:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(e) Measure the resistance according to the value(s) in the table below.

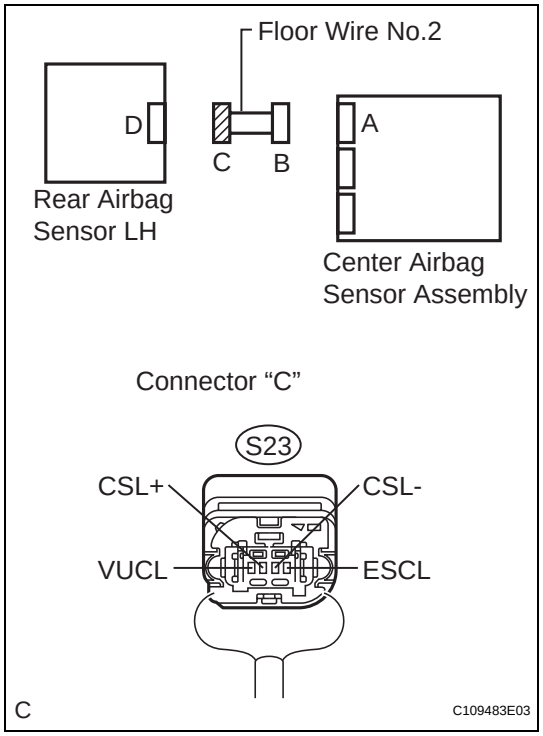
Resistance

Tester connection	Condition	Specified condition
S23-3 (CSL+) - S23-2 (CSL-)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

4 CHECK FLOOR WIRE NO.2 (SHORT TO B+)



(a) Disconnect SST from connector "B".
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position.
(d) Measure the voltage according to the value(s) in the table below.

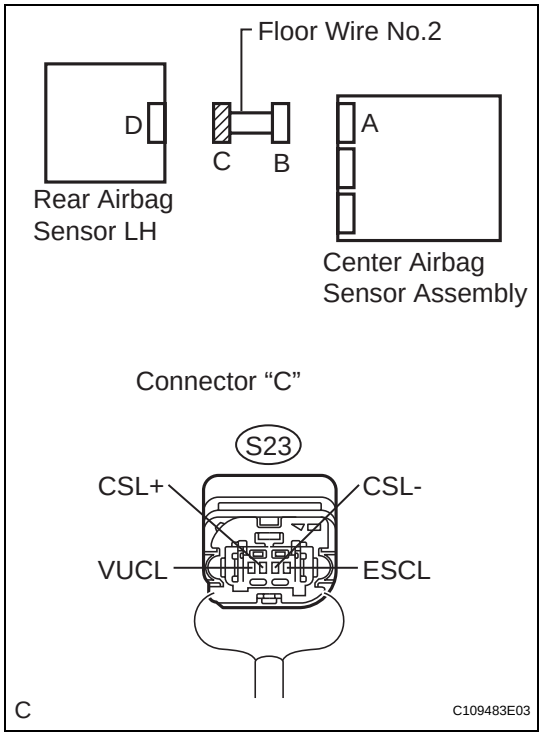
Voltage

Tester connection	Condition	Specified condition
S23-4 (VUCL) - Body ground	Ignition switch ON	Below 1 V
S23-1 (ESCL) - Body ground	Ignition switch ON	Below 1 V
S23-3 (CSL+) - Body ground	Ignition switch ON	Below 1 V
S23-2 (CSL-) - Body ground	Ignition switch ON	Below 1 V

NG → REPAIR OR REPLACE FLOOR WIRE NO.2

OK

5 CHECK FLOOR WIRE NO.2 (SHORT TO GROUND)



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

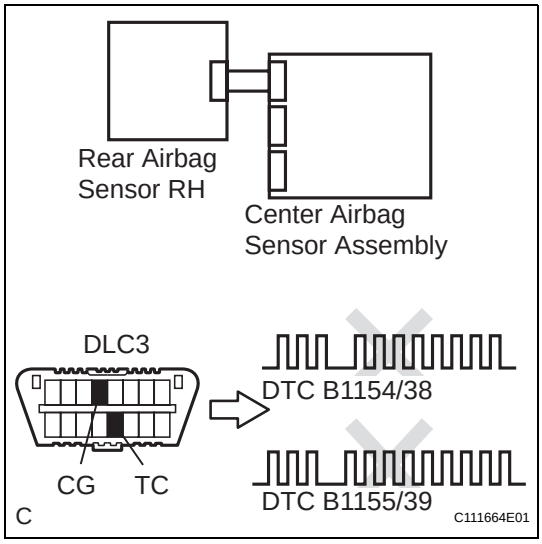
Resistance

Tester connection	Condition	Specified condition
S23-4 (VUCL) - Body ground	Always	1 MΩ or higher
S23-1 (ESCL) - Body ground	Always	1 MΩ or higher
S23-3 (CSL+) - Body ground	Always	1 MΩ or higher
S23-2 (CSL-) - Body ground	Always	1 MΩ or higher

NG → REPAIR OR REPLACE FLOOR WIRE NO.2

OK

6	CHECK REAR AIRBAG SENSOR LH



(a) Connect the connector to the center airbag sensor assembly.
(b) Interchange the rear airbag sensor LH with RH and connect the connectors to them.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Clear the DTCs stored in memory (See Page RS-32).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(h) Check the DTCs (See Page RS-32).

Result

Proceed To	Display (DTC Output)
NG:A	DTC B1154/38 is output.
NG:B	DTC B1155/39 is output.
OK	DTC B1154/38 and DTC B1155/39 are not output.

NG:A → **REPLACE REAR AIRBAG SENSOR LH**

NG:B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1160/83	Short in Curtain Shield Squib RH Circuit

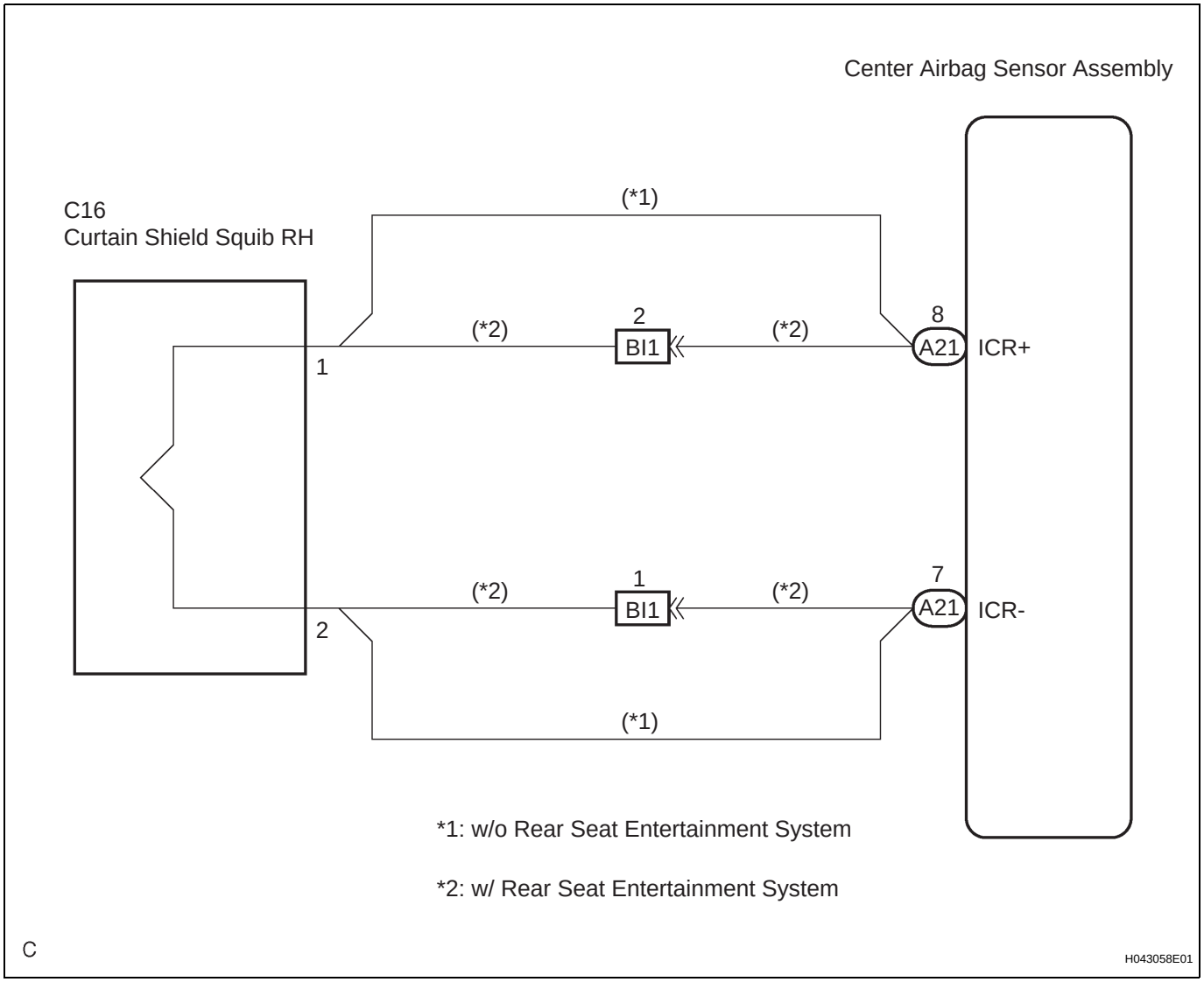
DESCRIPTION

The curtain shield squib RH circuit consists of the center airbag sensor assembly and the curtain airbag assembly RH.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1160/83 is recorded when a short circuit is detected in the curtain shield squib RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1160/83	• Short circuit between ICR+ wire harness and ICR- wire harness of curtain shield squib RH • Curtain shield squib RH malfunction • Center airbag sensor assembly malfunction	• Curtain shield airbag assembly RH (Curtain shield squib RH) • Center airbag sensor assembly • Floor wire • Roof wire No.2

RS

WIRING DIAGRAM



1	CHECK VEHICLE CONDITION

(a) Check whether or not the vehicle is equipped with the rear seat entertainment system.

Result:

A:

w/o Rear seat entertainment system

B:

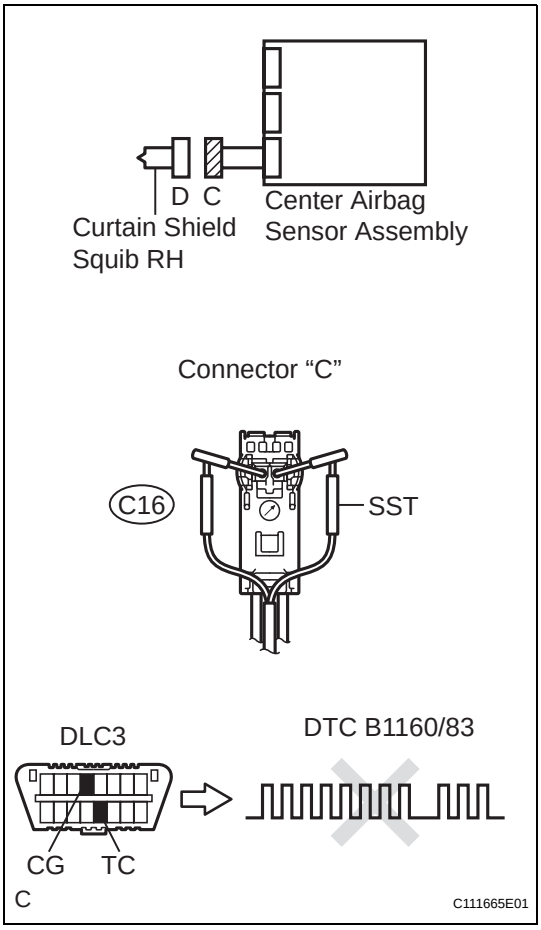
w/ Rear seat entertainment system

B	Go to step 6

RS

A

2	CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH (CURTAIN SHIELD SQUIB RH)



(a) Turn the ignition switch to the LOCK position.

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

(c) Disconnect the connectors from the curtain shield airbag assembly RH.

(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire.

CAUTION:

Never connect a tester to the curtain shield airbag assembly RH (Curtain shield squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

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

Insert the SST straight into the terminals of the connector.

SST 09843-18060

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

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

(g) Clear the DTCs stored in memory (See page RS-32).

(h) Turn the ignition switch to the LOCK position.

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

(j) Check the DTCs (See page RS-32).

OK:

DTC B1160/83 is not output.

HINT:

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

NG	Go to step 3

OK

REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH

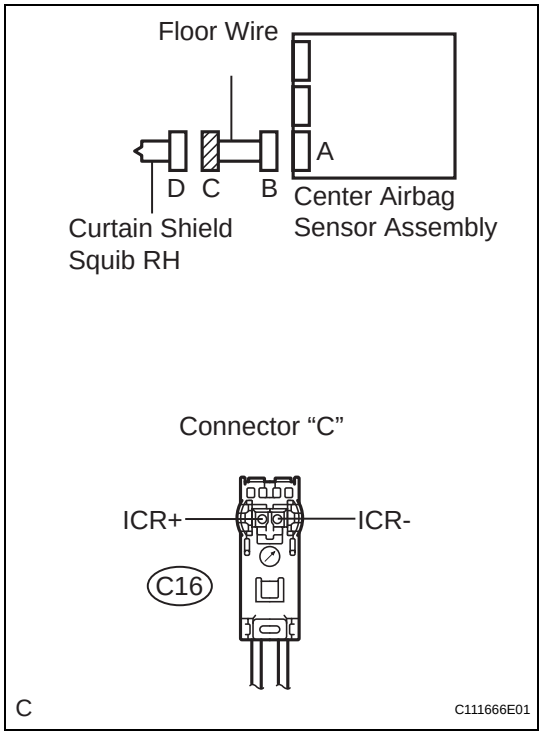
3 CHECK CONNECTORS

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the SST (resistance 2.1 Ω) from the floor wire.
(d) Check that the floor wire connectors (on the curtain shield airbag assembly RH side) are not damaged.
OK:
The lock button is not disengaged, and the claw of the lock is not deformed or damaged.

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4 CHECK FLOOR WIRE (CURTAIN SHIELD SQUIB RH CIRCUIT)



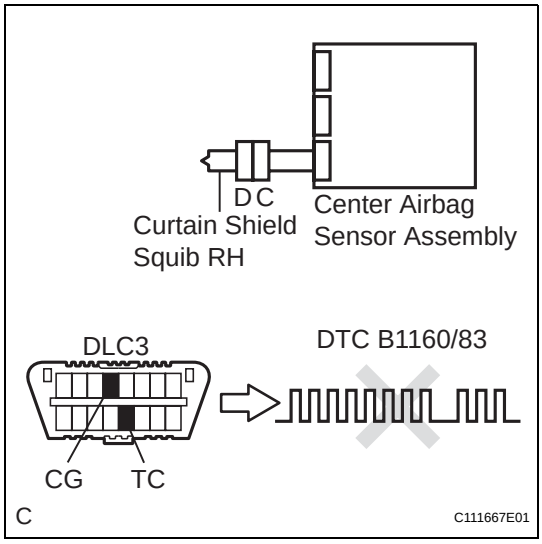
(a) Disconnect the connector from the center airbag sensor assembly.
(b) Release the activation prevention mechanism built into connector "B" (See page RS-25).
(c) Measure the resistance according to the value(s) in the table below.
Resistance

Tester connection	Condition	Specified condition
C16-1 (ICR+) - C16-2 (ICR-)	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

5	CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the curtain shield airbag assembly RH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B1160/83 is not output.

HINT:

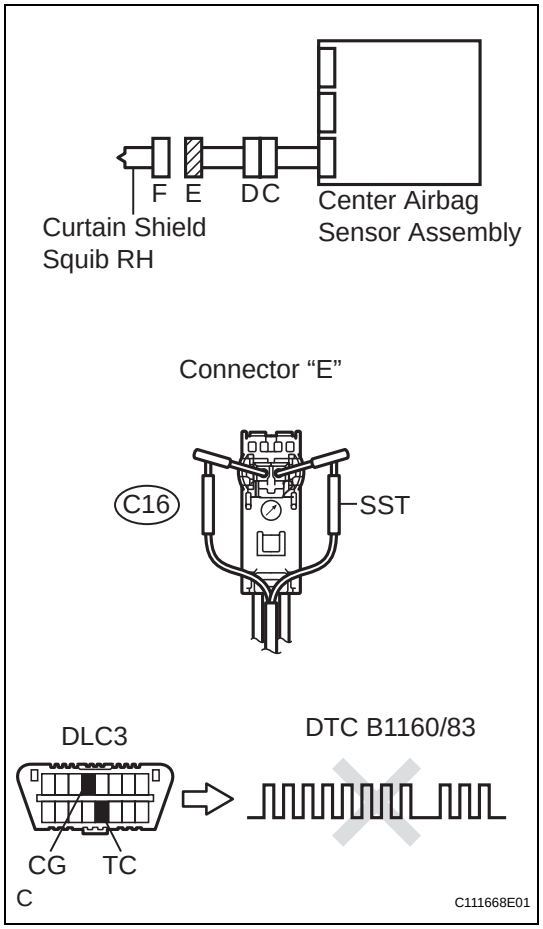
Codes other than DTC B1160/83 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

6	CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH (CURTAIN SHIELD SQUIB RH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the curtain shield airbag assembly RH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the roof wire No.2.
CAUTION:
Never connect a tester to the curtain shield airbag assembly RH (Curtain shield squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1160/83 is not output.
HINT:
Codes other than DTC B1160/83 may be output at this time, but they are not related to this check.

NG → **Go to step 7**

OK

REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH

7	CHECK CONNECTORS

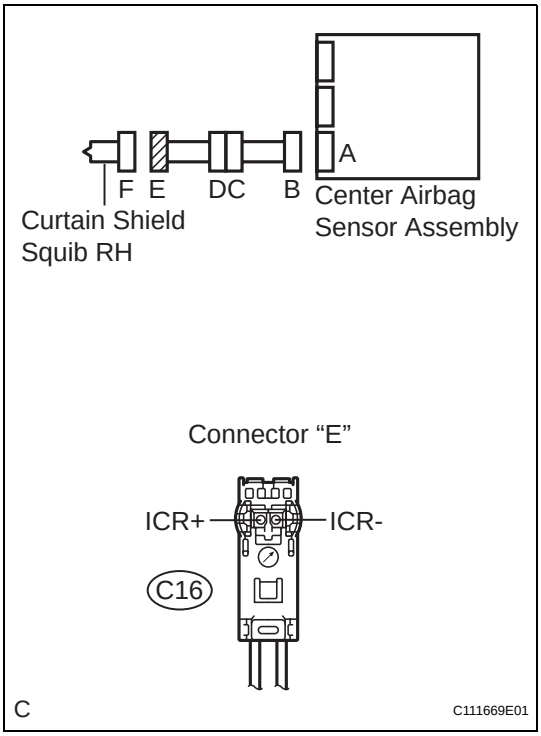
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the SST (resistance 2.1 Ω) from the roof wire No.2.
(d) Check that the roof wire No.2 connectors (on the curtain shield airbag assembly RH side) are not damaged.

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

NG → **REPAIR OR REPLACE ROOF WIRE NO.2**

OK

8 CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH CIRCUIT



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Release the activation prevention mechanism built into connector "B" (See page RS-25).
(c) Measure the resistance according to the value(s) in the table below.

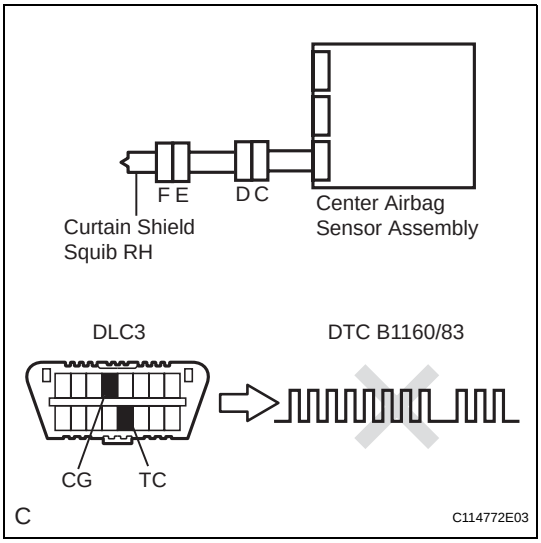
Resistance

Tester connection	Condition	Specified condition
C16-1 (ICR+) - C16-2 (ICR-)	Always	1 MΩ or higher

NG → **Go to step 10**

OK

9 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the curtain shield airbag assembly RH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:
DTC B1160/83 is not output.

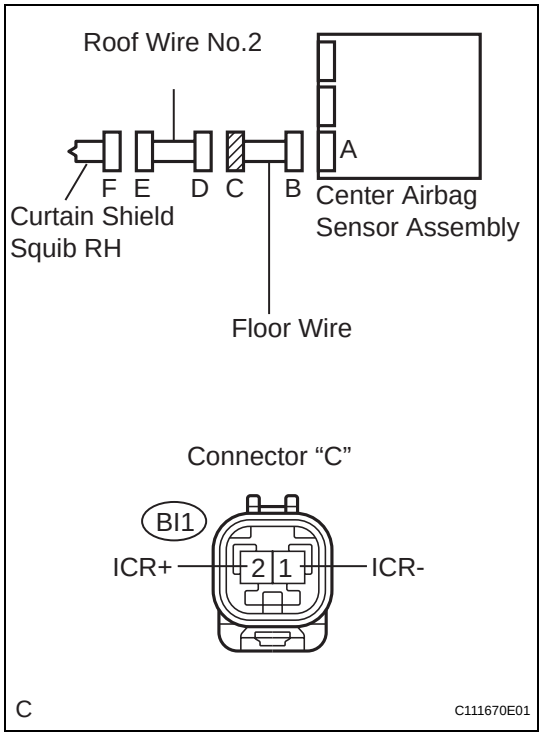
HINT:
Codes other than DTC B1160/83 may be output at this time, but they are not related to this check.

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

10 CHECK FLOOR WIRE



(a) Disconnect the floor wire connector from the roof wire No.2.
HINT:
The activation prevention mechanism of connector "B" has already been released.

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

Resistance

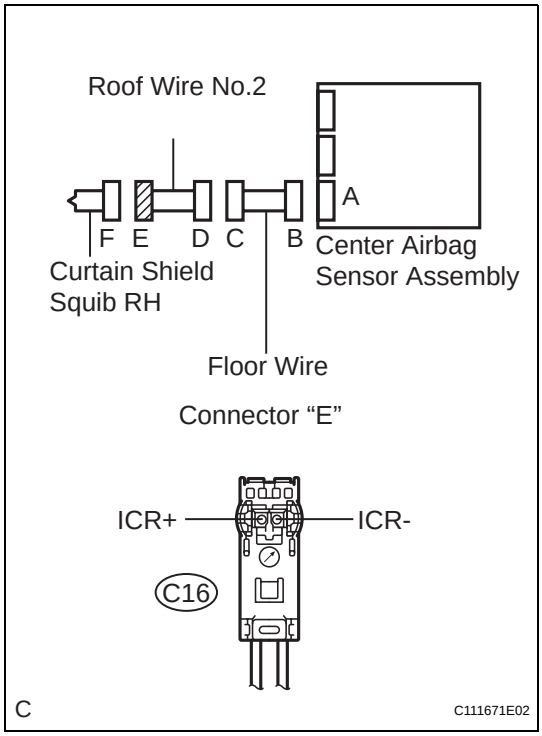
Tester connection	Condition	Specified condition
BI1-2 (ICR+) - BI1-1 (ICR-)	Always	1 MΩ or higher

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

RS

11	CHECK ROOF WIRE NO.2



(a) Release the activation prevention mechanism built into connector "D" (See page RS-25).

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

Resistance

Tester connection	Condition	Specified condition
C16-1 (ICR+) - C16-2 (ICR-)	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE ROOF WIRE NO.2**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1161/84	Open in Curtain Shield Squib RH Circuit

DESCRIPTION

The curtain shield squib RH circuit consists of the center airbag sensor assembly and the curtain shield airbag assembly RH.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1161/84 is recorded when an open circuit is detected in the curtain shield squib RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1161/84	• Open circuit in ICR+ wire harness or ICR- wire harness of curtain shield squib RH • Curtain shield squib RH malfunction • Center airbag sensor assembly malfunction	• Curtain shield airbag assembly RH (Curtain shield squib RH) • Center airbag sensor assembly • Floor wire • Roof wire No.2

RS

WIRING DIAGRAM

See page RS-199.

1	CHECK VEHICLE CONDITION

(a) Check whether or not the vehicle is equipped with the rear seat entertainment system.

Result:

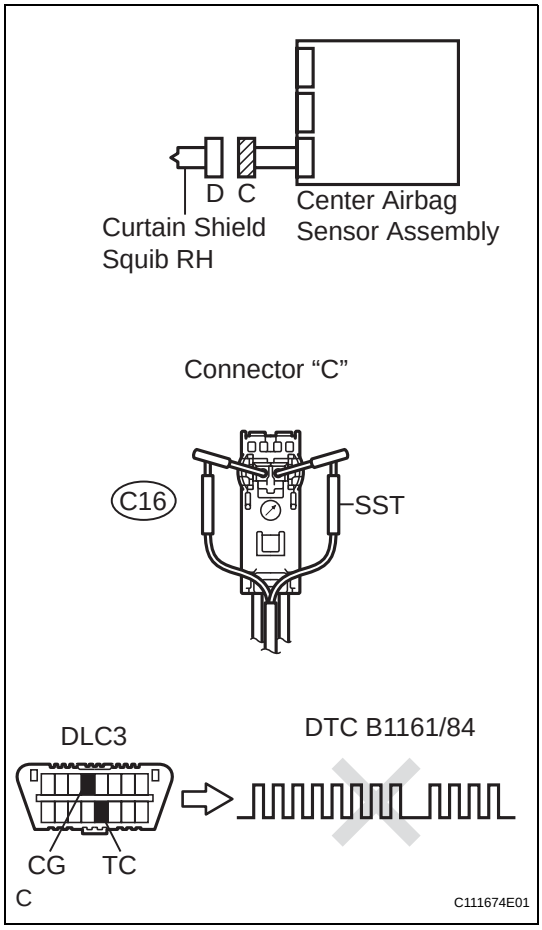
A:
w/o Rear seat entertainment system

B:
w/ Rear seat entertainment system

B	Go to step 5

A

2	CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH (CURTAIN SHIELD SQUIB RH)



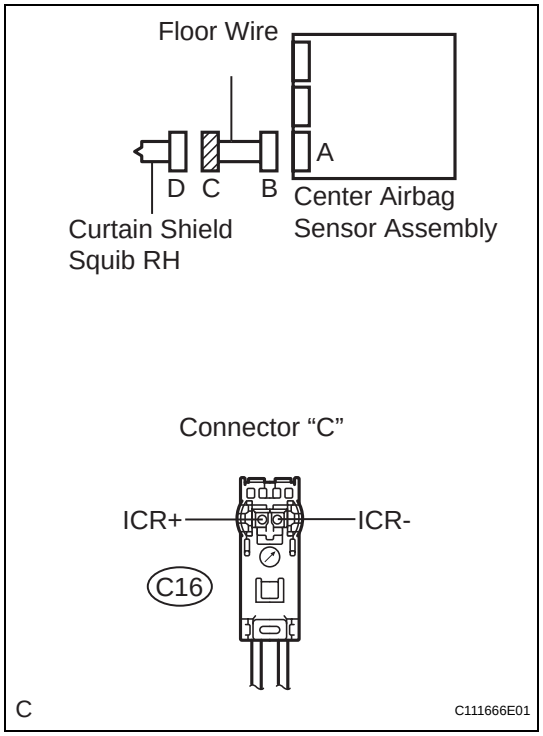
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the curtain shield airbag assembly RH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire.
CAUTION:
Never connect a tester to the curtain shield airbag assembly RH (Curtain shield squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1161/84 is not output.
HINT:
Codes other than DTC B1161/84 may be output at this time, but they are not related to this check.

NG → **Go to step 3**

OK

REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH

3 CHECK FLOOR WIRE (CURTAIN SHIELD SQUIB RH CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

Resistance

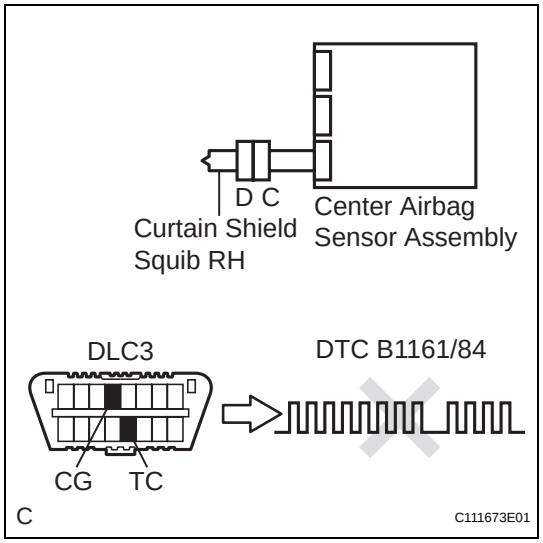
Tester connection	Condition	Specified condition
C16-1 (ICR+) - C16-2 (ICR-)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

RS

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the curtain shield airbag assembly RH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B1161/84 is not output.

HINT:

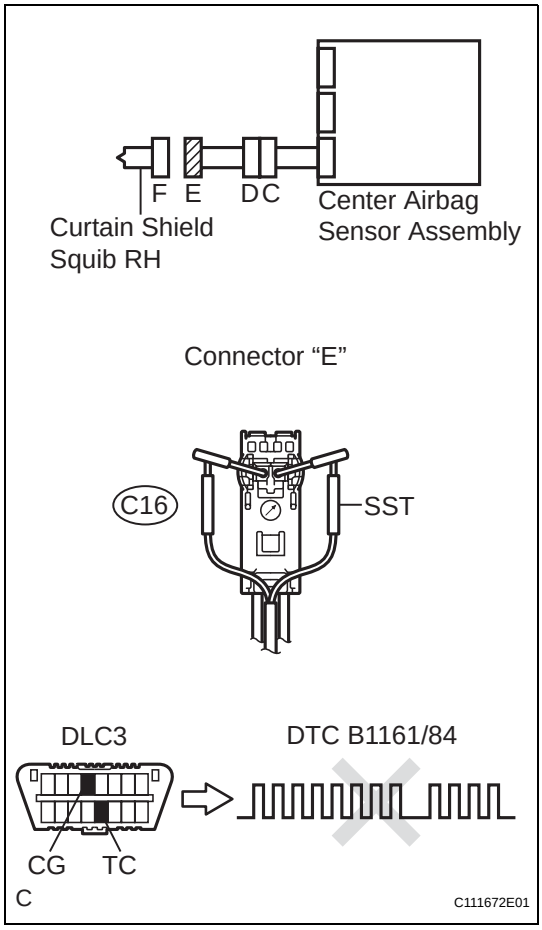
Codes other than DTC B1161/84 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

5	CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH (CURTAIN SHIELD SQUIB RH)



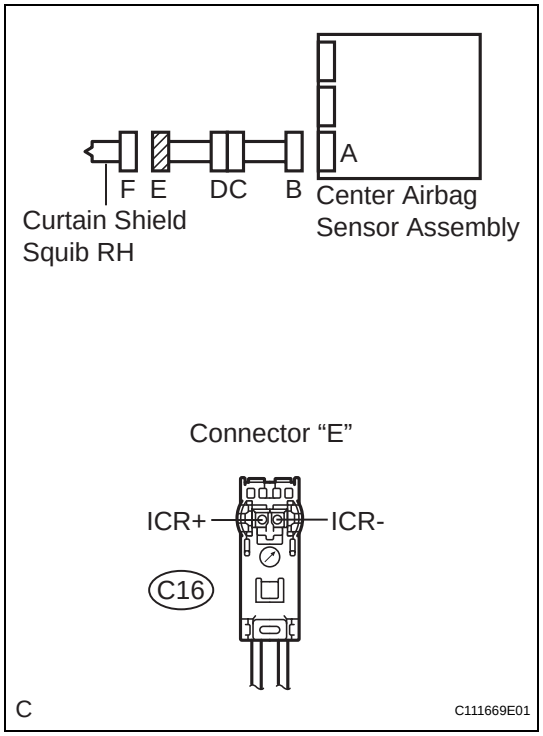
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the curtain shield airbag assembly RH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the roof wire No.2.
CAUTION:
Never connect a tester to the curtain shield airbag assembly RH (Curtain shield squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1161/84 is not output.
HINT:
Codes other than DTC B1161/84 may be output at this time, but they are not related to this check.

NG → **Go to step 6**

OK

REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH

6 CHECK CURTAIN SHIELD SQUIB RH CIRCUIT



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

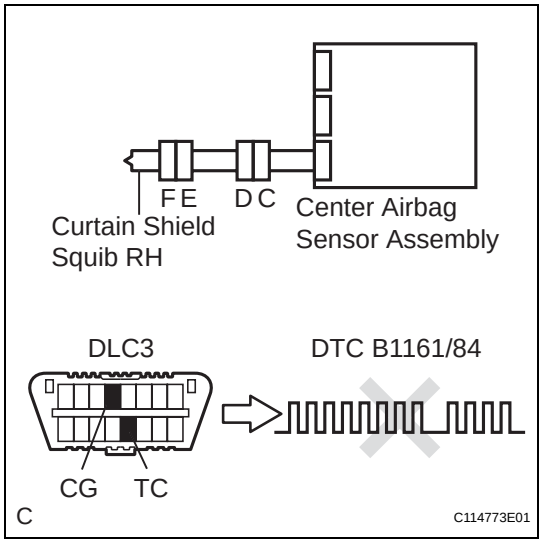
Resistance

Tester connection	Condition	Specified condition
C16-1 (ICR+) - C16-2 (ICR-)	Always	Below 1 Ω

NG → **Go to step 8**

OK

7 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the curtain shield airbag assembly RH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B1161/84 is not output.

HINT:

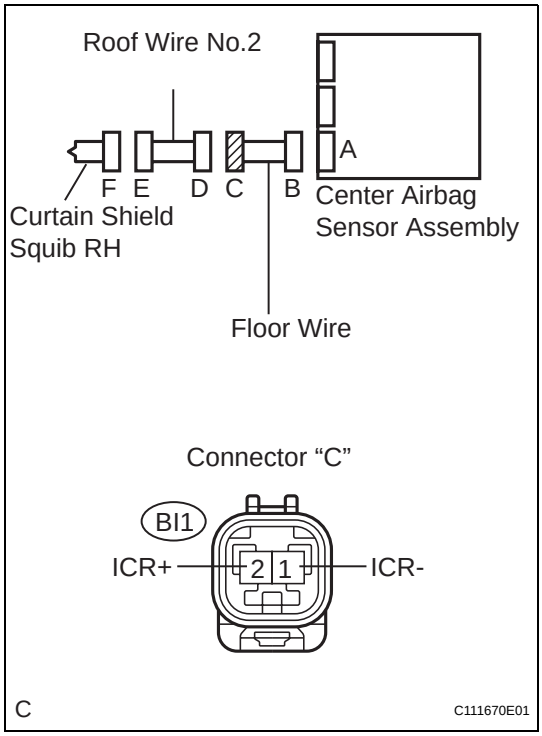
Codes other than DTC B1161/84 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

8 CHECK FLOOR WIRE



(a) Disconnect the floor wire connector from the roof wire No.2.
(b) Measure the resistance according to the value(s) in the table below.

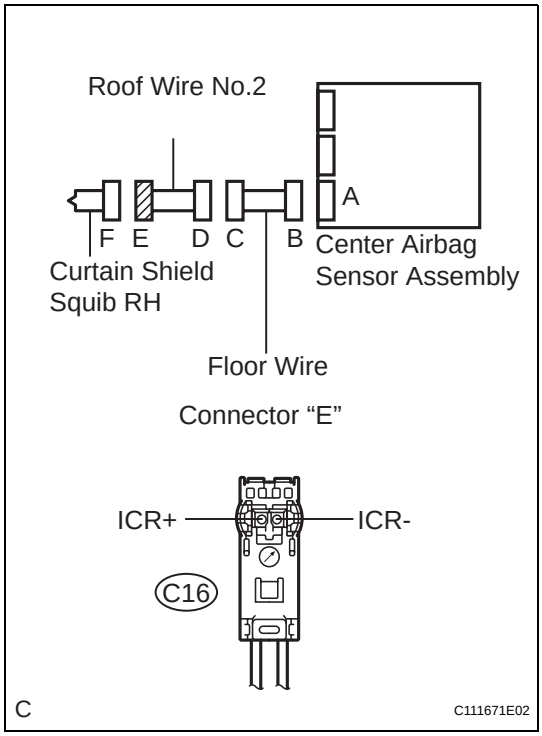
Resistance

Tester connection	Condition	Specified condition
BI1-2 (ICR+) - BI1-1 (ICR-)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

9 CHECK ROOF WIRE NO.2



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

Resistance

Tester connection	Condition	Specified condition
C16-1 (ICR+) - C16-2 (ICR-)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE ROOF WIRE NO.2**

OK

USE SIMULATION METHOD TO CHECK

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

DESCRIPTION

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

DTC No.	DTC Detecting Condition	Trouble Area
B1162/81	• Short circuit in curtain shield squib RH wire harness (to ground) • Curtain shield squib RH malfunction • Center airbag sensor assembly malfunction	• Curtain shield airbag assembly RH (Curtain shield squib RH) • Center airbag sensor assembly • Floor wire • Roof wire No.2

RS

WIRING DIAGRAM

See page RS-199.

1	CHECK VEHICLE CONDITION

(a) Check whether or not the vehicle is equipped with the rear seat entertainment system.

Result:

A:

w/o Rear seat entertainment system

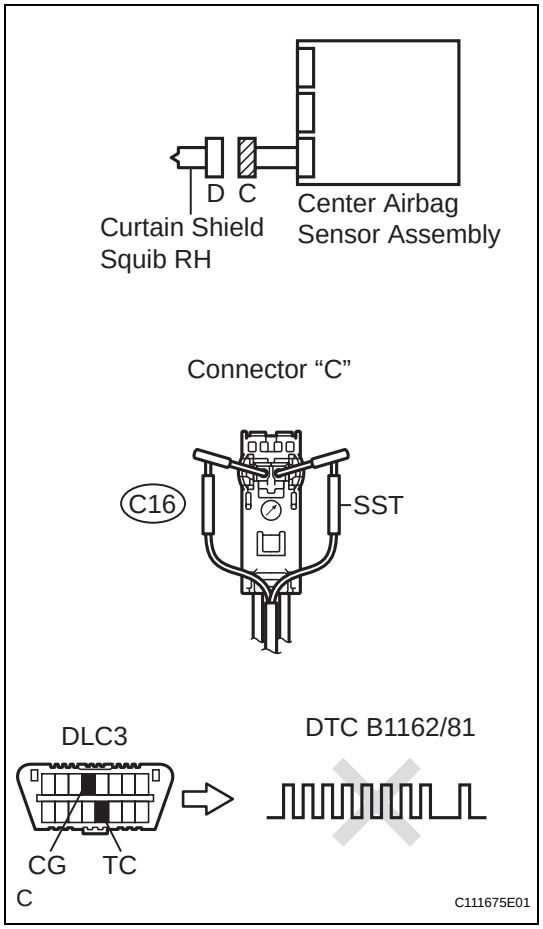
B:

w/ Rear seat entertainment system

B	Go to step 5

A

2	CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH (CURTAIN SHIELD SQUIB RH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the curtain shield airbag assembly RH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire.
CAUTION:
Never connect a tester to the curtain shield airbag assembly RH (Curtain shield squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1162/81 is not output.
HINT:
Codes other than DTC B1162/81 may be output at this time, but they are not related to this check.

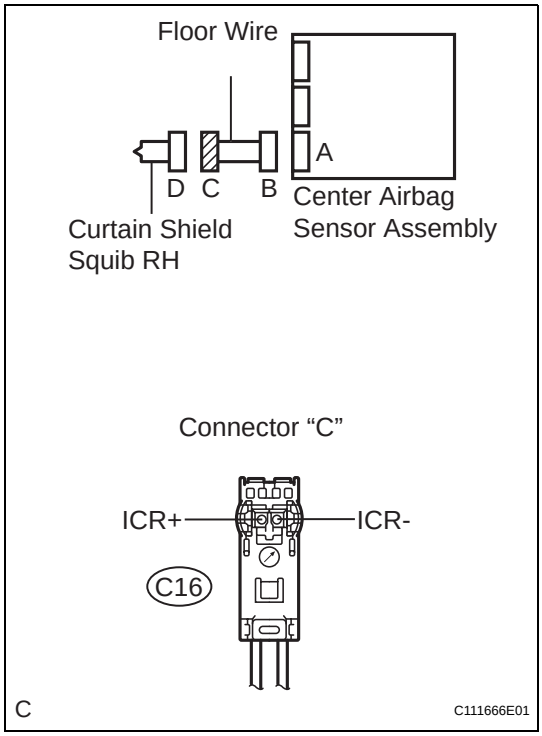
NG → **Go to step 3**

OK

REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH

RS

3 CHECK FLOOR WIRE (CURTAIN SHIELD SQUIB RH CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

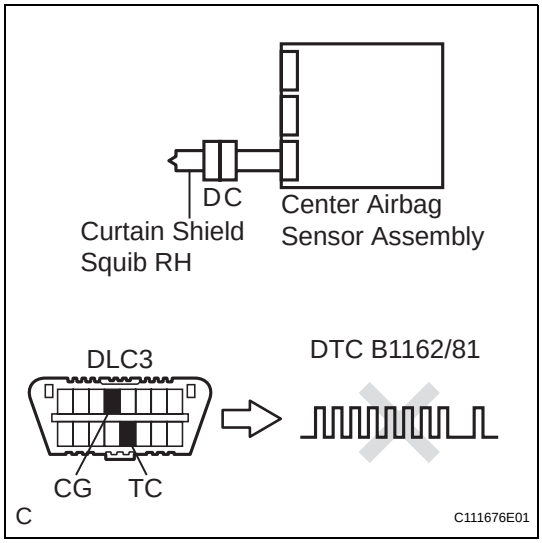
Resistance

Tester connection	Condition	Specified condition
C16-1 (ICR+) - Body ground	Always	1 MΩ or higher
C16-2 (ICR-) - Body ground	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the curtain shield airbag assembly RH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B1162/81 is not output.

HINT:

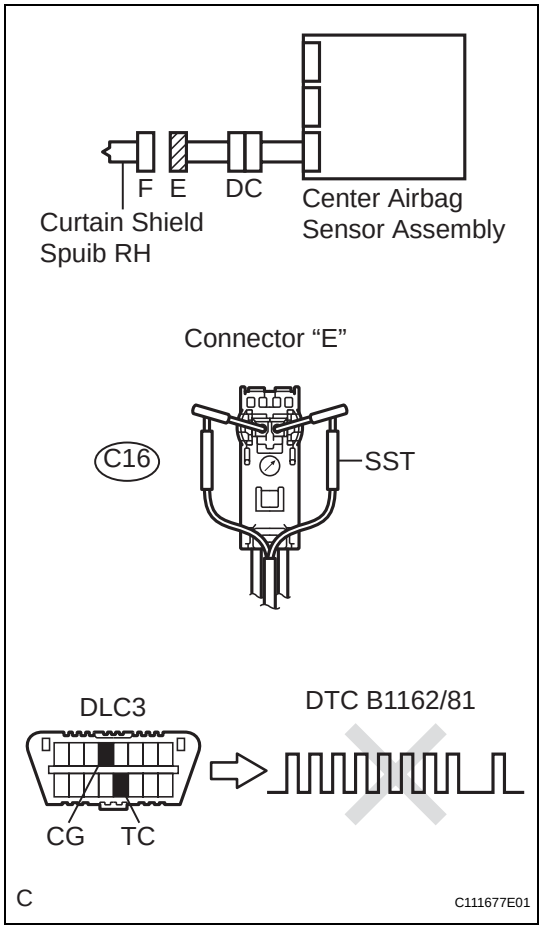
Codes other than DTC B1162/81 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

5	CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH (CURTAIN SHIELD SQUIB RH)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the curtain shield airbag assembly RH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the roof wire No.2.
CAUTION:
Never connect a tester to the curtain shield airbag assembly RH (Curtain shield squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1162/81 is not output.
HINT:
Codes other than DTC B1162/81 may be output at this time, but they are not related to this check.

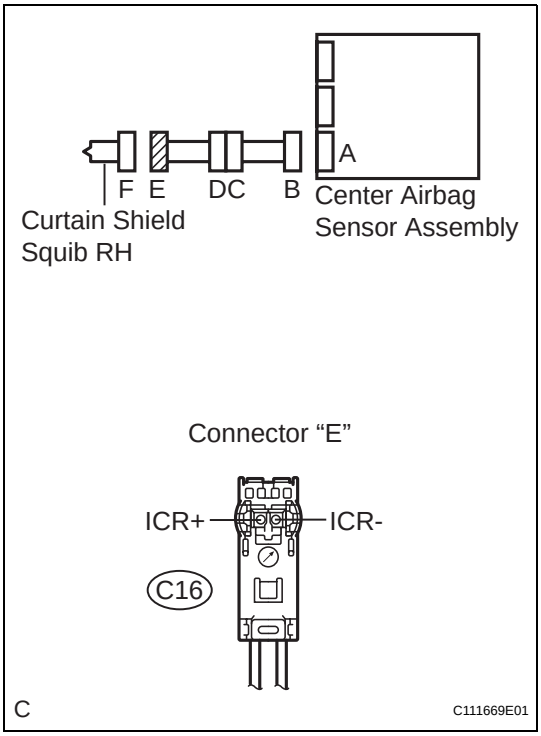
NG → **Go to step 6**

OK

REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH

RS

6 CHECK CURTAIN SHIELD SQUIB RH CIRCUIT



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

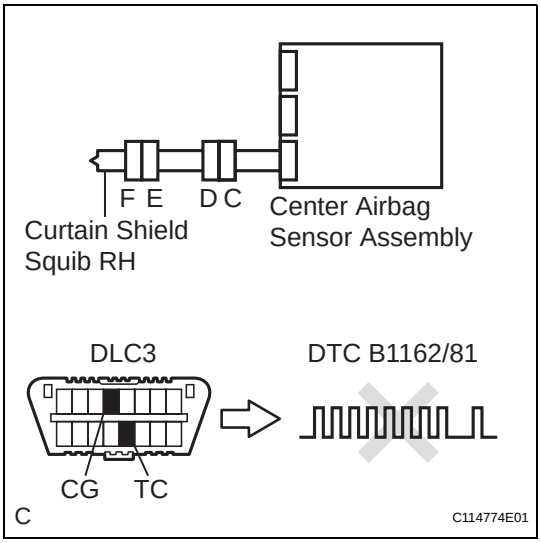
Resistance

Tester connection	Condition	Specified condition
C16-1 (ICR+) - Body ground	Always	1 MΩ or higher
C16-2 (ICR-) - Body ground	Always	1 MΩ or higher

NG → **Go to step 8**

OK

7 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the curtain shield airbag assembly RH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B1162/81 is not output.

HINT:

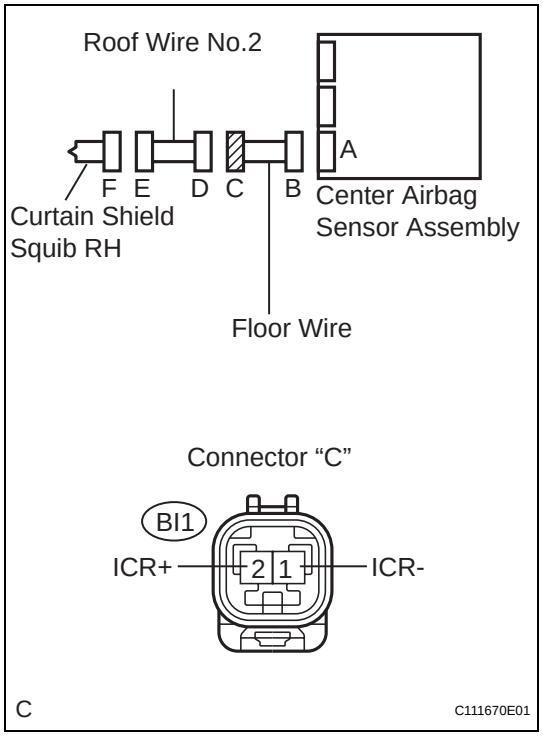
Codes other than DTC B1162/81 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

8 CHECK FLOOR WIRE



(a) Disconnect the floor wire connector from the roof wire No.2.

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

Resistance

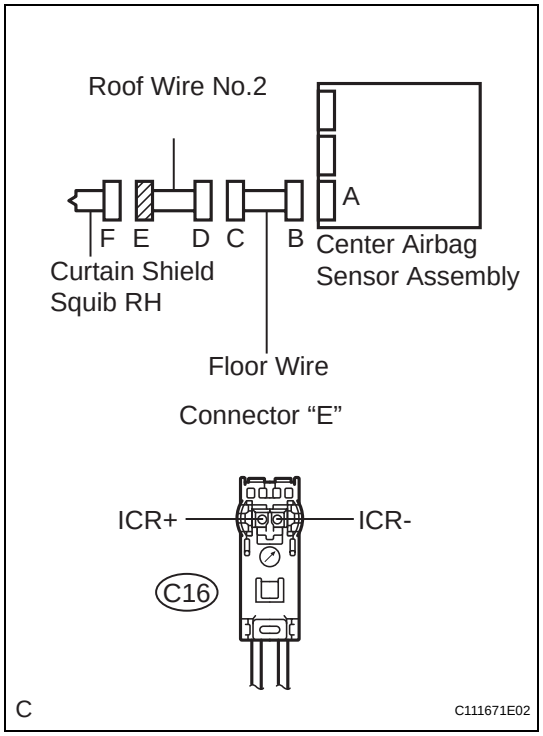
Tester connection	Condition	Specified condition
BI1-2 (ICR+) - Body ground	Always	1 MΩ or higher
BI1-1 (ICR-) - Body ground	Always	1 MΩ or higher

RS

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

9 CHECK ROOF WIRE NO.2



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

Resistance

Tester connection	Condition	Specified condition
C16-1 (ICR+) - Body ground	Always	1 MΩ or higher
C16-2 (ICR-) - Body ground	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE ROOF WIRE NO.2**

OK

USE SIMULATION METHOD TO CHECK

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 assembly RH.

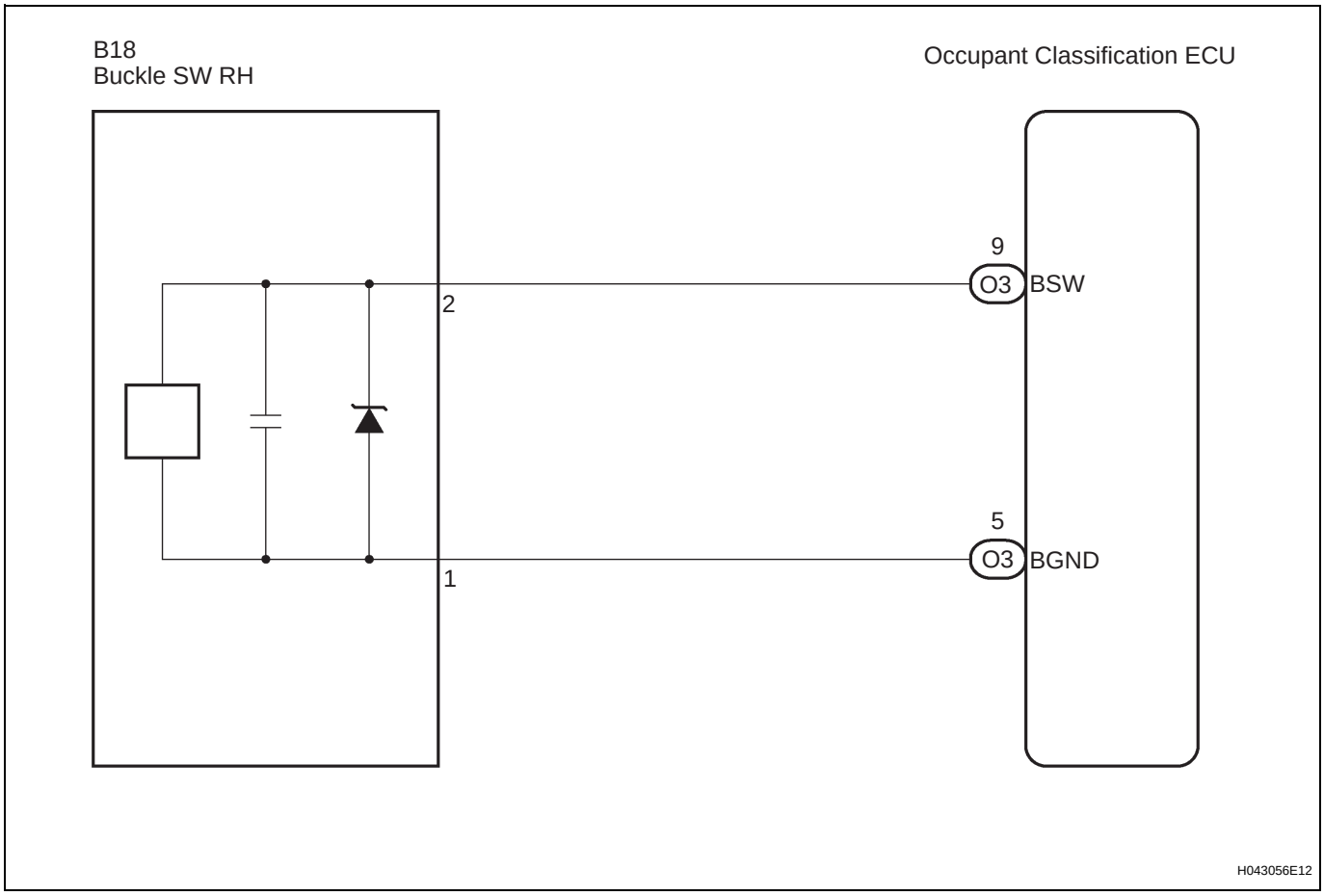
DTC B1771 is recorded when a malfunction is detected in the passenger side buckle switch circuit.

Troubleshoot DTC B1771 first when DTCs B1771 and B1795 are output simultaneously.

DTC No.	DTC Detecting Condition	Trouble Area
B1771	• The occupant classification ECU receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the passenger side buckle switch circuit for 2 seconds. • Passenger side buckle switch malfunction • Occupant classification ECU malfunction	• Front seat inner belt assembly RH • Occupant classification ECU • Front seat wire RH

RS

WIRING DIAGRAM



HINT:

- If troubleshooting (wire harness inspection) is difficult to perform, remove the front passenger seat installation bolts to see the under surface of the seat cushion.
- In the above case, hold the seat so that it does not fall down. Holding the seat for a long period of time may cause a problem, such as seat rail deformation. Hold the seat only as necessary.

1	CHECK DTC

(a) Turn the ignition switch to the ON position.
(b) Clear the DTCs stored in memory (See page RS-310).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.
(c) Turn the ignition switch to the LOCK position.
(d) Turn the ignition switch to the ON position.
(e) Check the DTCs (See page RS-310).
OK:
DTC B1771 is not output.
HINT:
Codes 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 CONNECTORS

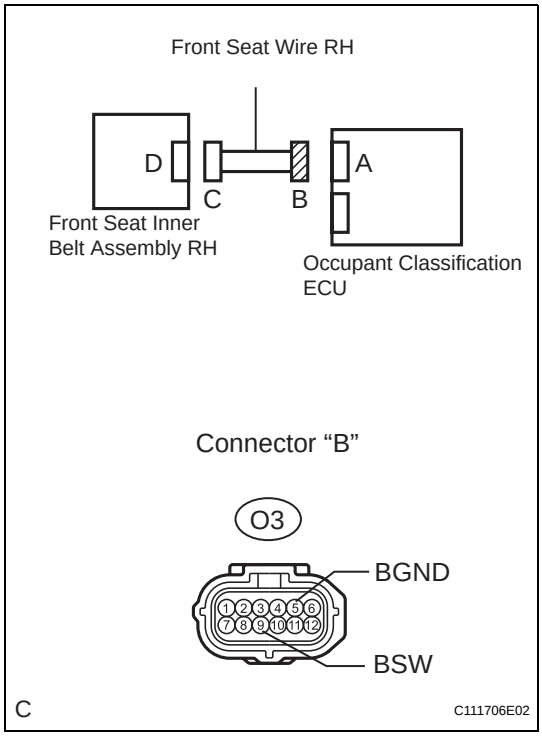
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery.
(c) Check that the connectors are properly connected to the occupant classification ECU and the front seat inner belt assembly RH.
OK:
The connectors are connected.

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

OK

RS

3 CHECK FRONT SEAT WIRE RH (SHORT TO B+)



(a) Disconnect the connectors from the occupant classification ECU and the front seat inner belt assembly RH.
(b) Connect the negative (-) terminal cable to the battery.
(c) Turn the ignition switch to the ON position.
(d) Measure the voltage according to the value(s) in the table below.

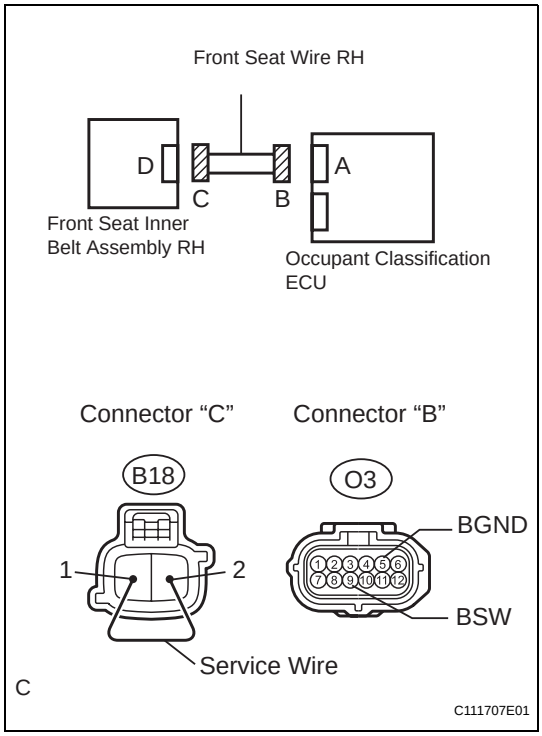
Voltage

Tester connection	Condition	Specified condition
O3-9 (BSW) - Body ground	Ignition switch ON	Below 1 V
O3-5 (BGND) - Body ground	Ignition switch ON	Below 1 V

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

4 CHECK FRONT SEAT WIRE RH (OPEN)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery.
(c) Using a service wire, connect B18-2 and B18-1 of connector "C".

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

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

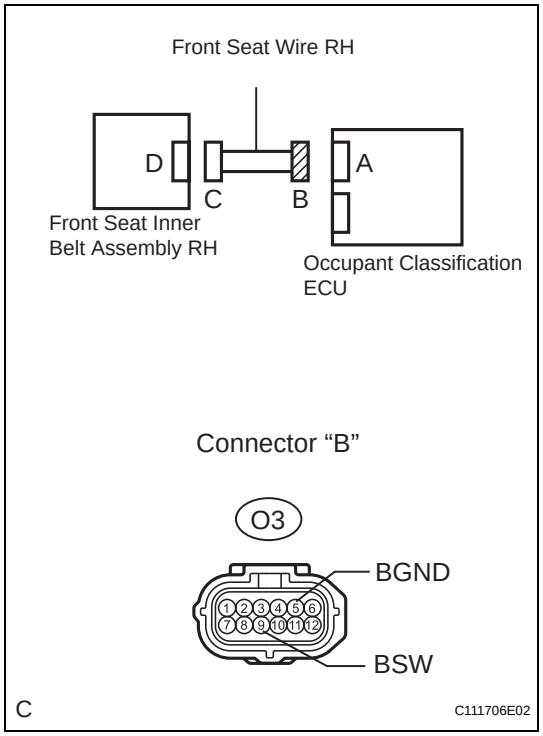
Resistance

Tester connection	Condition	Specified condition
O3-9 (BSW) - O3-5 (BGND)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

5 CHECK FRONT SEAT WIRE RH (SHORT)



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

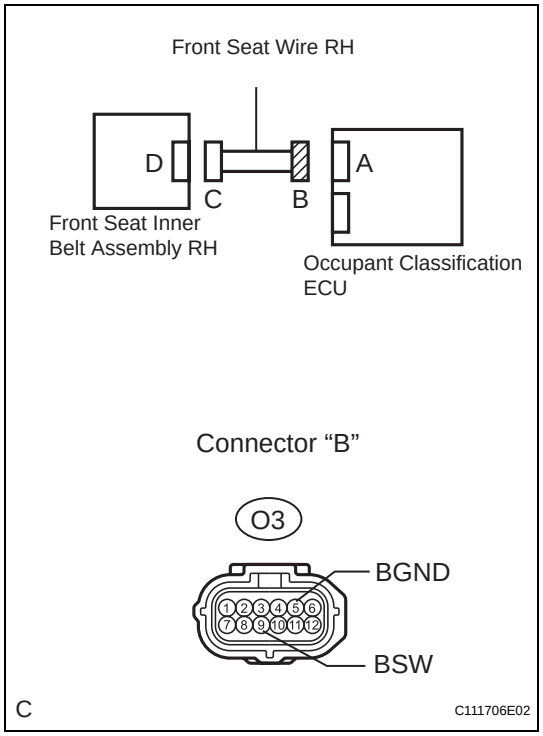
Resistance

Tester connection	Condition	Specified condition
O3-9 (BSW) - O3-5 (BGND)	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

6 CHECK FRONT SEAT WIRE RH (SHORT TO GROUND)



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

Resistance

Tester connection	Condition	Specified condition
O3-9 (BSW) - Body ground	Always	1 MΩ or higher
O3-5 (BGND) - Body ground	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

RS

7	CHECK DTC

(a) Connect the connectors to the occupant classification ECU and the front seat inner belt assembly RH.
(b) Connect the negative (-) terminal cable to the battery.
(c) Turn the ignition switch to the ON position.
(d) Clear the DTCs stored in memory (See page RS-310).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position.
(g) Check the DTCs (See page RS-310).
OK:
DTC B1771 is not output.
HINT:
Codes 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 to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery.
(c) Replace the front seat inner belt assembly RH (See page SB-15).
HINT:
Perform the inspection using parts from a normal vehicle if possible.
(d) Connect the negative (-) terminal cable to the battery.
(e) Turn the ignition switch to the ON position.
(f) Clear the DTCs stored in memory (See page RS-310).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position.
(i) Check the DTCs (See page RS-310).
OK:
DTC B1771 is not output.
HINT:
Codes 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 to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery.
(c) Replace the occupant classification ECU (See page RS-457).

NEXT

10	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (-) terminal cable to the battery.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch to the ON position.
(d) Using the intelligent tester, perform "Zero point calibration" (See page RS-303).
OK:
The "COMPLETED" is displayed.

NEXT

11	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform "Sensitivity check" (See page RS-303).
Standard values:
27 to 33 kg (59.52 to 72.75 lb)

NEXT

END

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

DESCRIPTION

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

DTC No.	DTC Detecting Condition	Trouble Area
B1163/82	• Short circuit in curtain shield squib RH wire harness (to B+) • Curtain shield squib RH malfunction • Center airbag sensor assembly malfunction	• Curtain shield airbag assembly RH (Curtain shield squib RH) • Center airbag sensor assembly • Floor wire • Roof wire No.2

RS

WIRING DIAGRAM

See page RS-199.

1	CHECK VEHICLE CONDITION

(a) Check whether or not the vehicle is equipped with the rear seat entertainment system.

Result:

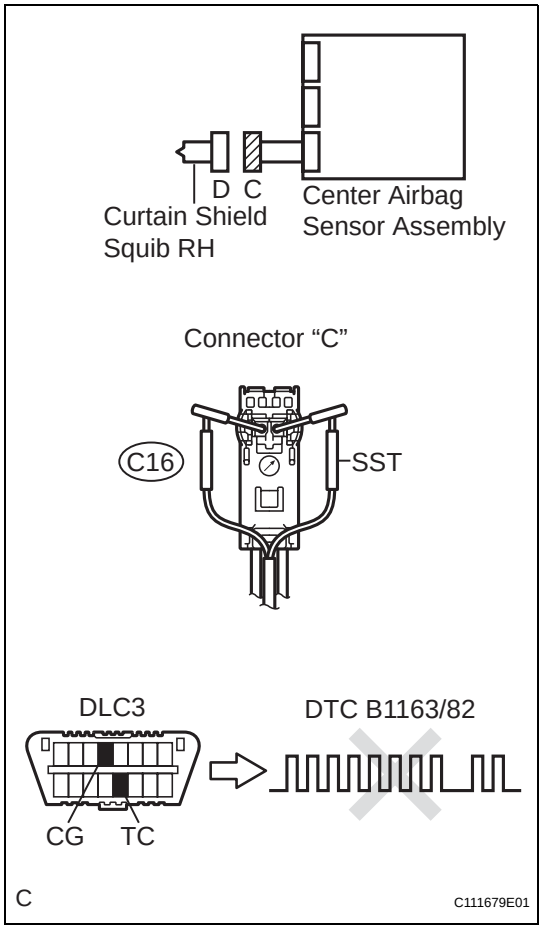
A:
w/o Rear seat entertainment system

B:
w/ Rear seat entertainment system

B	Go to step 5

A

2	CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH (CURTAIN SHIELD SQUIB RH)



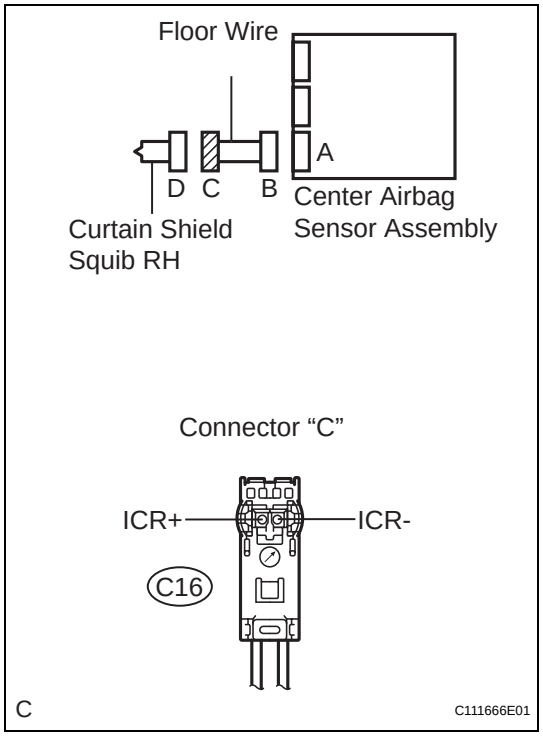
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the curtain shield airbag assembly RH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire.
CAUTION:
Never connect a tester to the curtain shield airbag assembly RH (Curtain shield squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1163/82 is not output.
HINT:
Codes other than DTC B1163/82 may be output at this time, but they are not related to this check.

NG → **Go to step 3**

OK

REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH

3 CHECK FLOOR WIRE (CURTAIN SHIELD SQUIB RH CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Measure the voltage according to the value(s) in the table below.

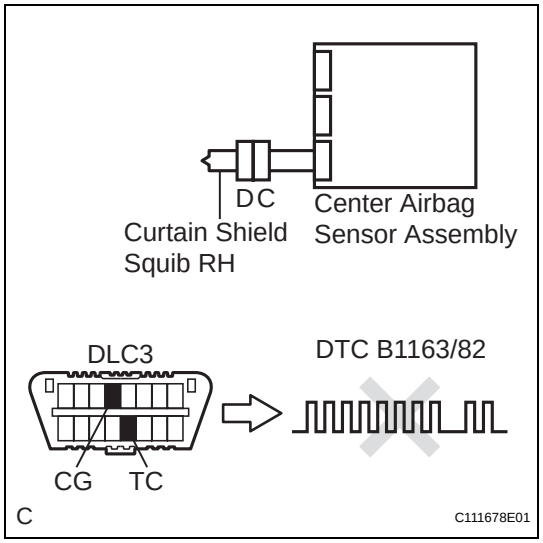
Voltage

Tester connection	Condition	Specified condition
C16-1 (ICR+) - Body ground	Ignition switch ON	Below 1 V
C16-2 (ICR-) - Body ground	Ignition switch ON	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the curtain shield airbag assembly RH and the center airbag sensor assembly.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (See page RS-32).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (See page RS-32).

OK:

DTC B1163/82 is not output.

HINT:

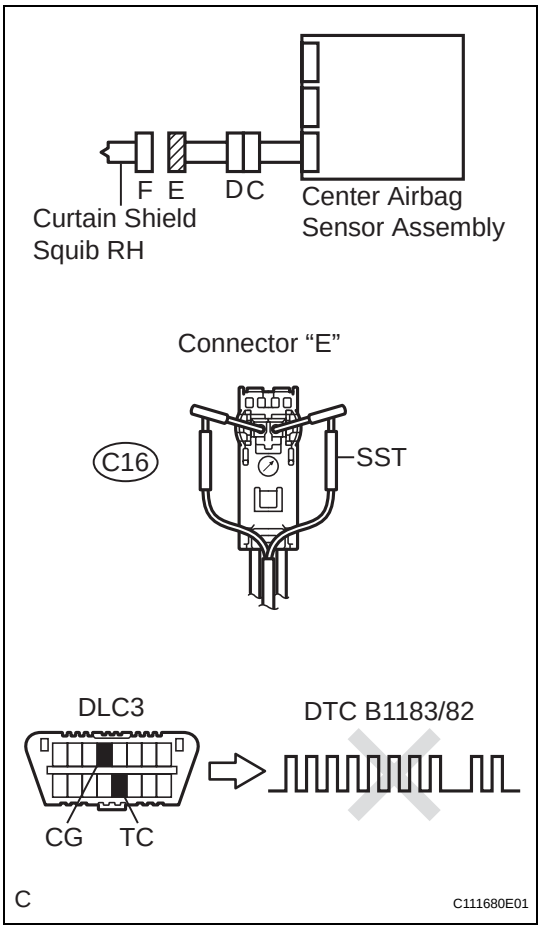
Codes other than code B1163/82 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

5	CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH (CURTAIN SHIELD SQUIB RH)



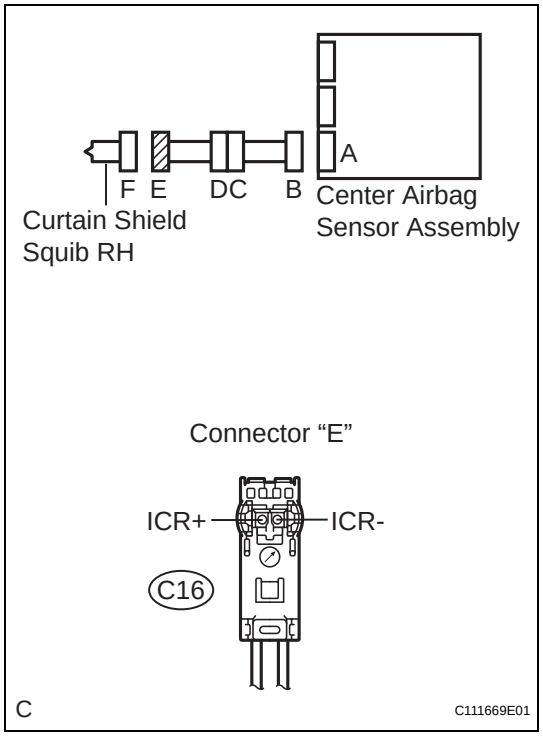
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the curtain shield airbag assembly RH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the roof wire No.2.
CAUTION:
Never connect a tester to the curtain shield airbag assembly RH (Curtain shield squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1163/82 is not output.
HINT:
Codes other than DTC B1163/82 may be output at this time, but they are not related to this check.

NG → **Go to step 6**

OK

REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH

6 CHECK CURTAIN SHIELD SQUIB RH CIRCUIT



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

Voltage

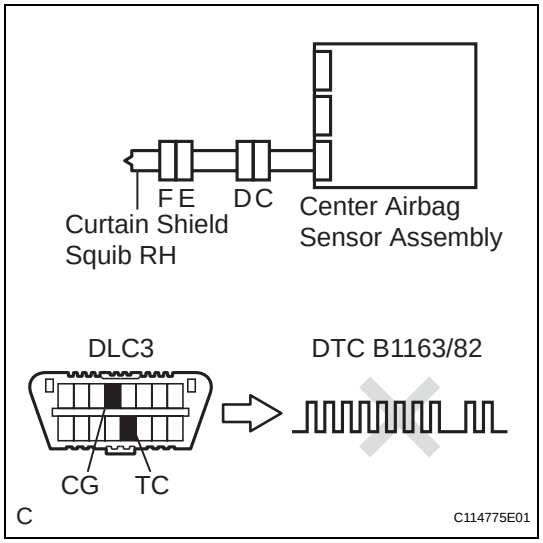
Tester connection	Condition	Specified condition
C16-1 (ICR+) - Body ground	Ignition switch ON	Below 1 V
C16-2 (ICR-) - Body ground	Ignition switch ON	Below 1 V

RS

NG → **Go to step 8**

OK

7 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the curtain shield airbag assembly RH and the center airbag sensor assembly.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (See page RS-32).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (See page RS-32).

OK:

DTC B1163/82 is not output.

HINT:

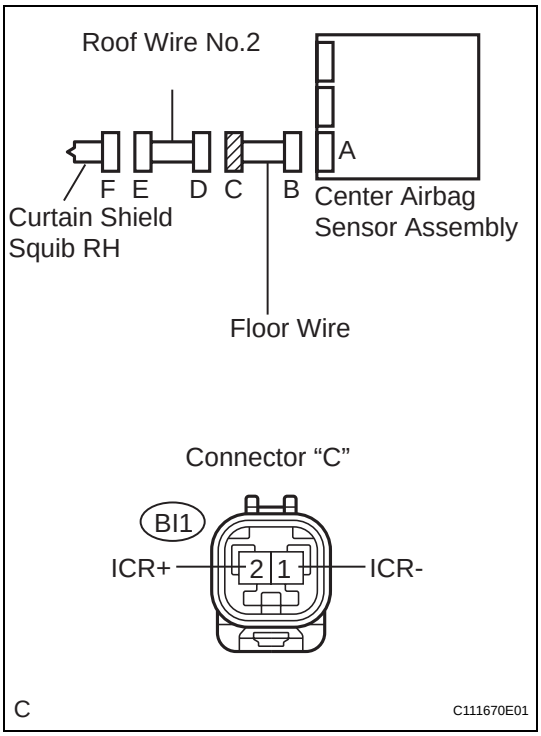
Codes other than DTC B1163/82 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

8	CHECK FLOOR WIRE



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the floor wire connector from the roof wire No.2.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position.
(f) Measure the voltage according to the value(s) in the table below.

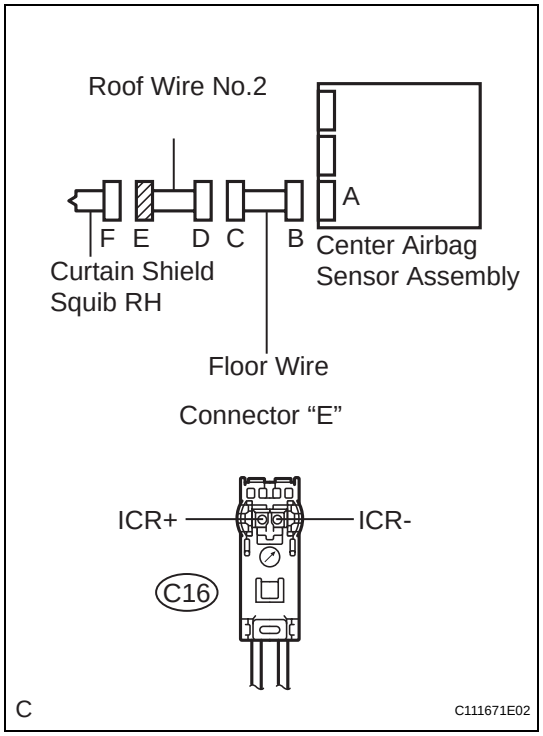
Voltage

Tester connection	Condition	Specified condition
BI1-2 (ICR+) - Body ground	Ignition switch ON	Below 1 V
BI1-1 (ICR-) - Body ground	Ignition switch ON	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

9	CHECK ROOF WIRE NO.2



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

Voltage

Tester connection	Condition	Specified condition
ICR+ - Body ground	Ignition switch ON	Below 1 V
ICR- - Body ground	Ignition switch ON	Below 1 V

NG → **REPAIR OR REPLACE ROOF WIRE NO.2**

OK

USE SIMULATION METHOD TO CHECK

RS

DTC	B1166/88	Open in Curtain Shield Squib LH Circuit

DESCRIPTION

The curtain shield squib LH circuit consists of the center airbag sensor assembly and the curtain shield airbag assembly LH.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1166/88 is recorded when an open circuit is detected in the curtain shield squib LH circuit.

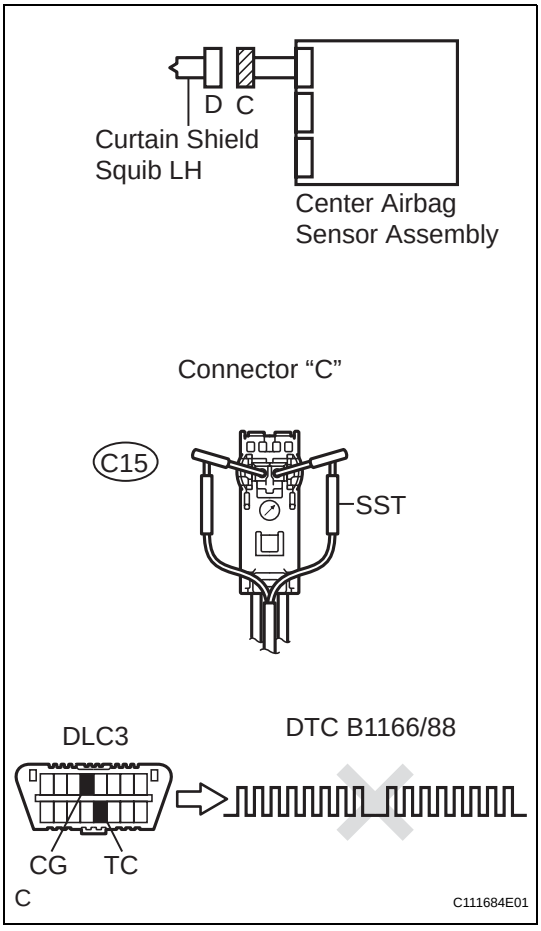
DTC No.	DTC Detecting Condition	Trouble Area
B1166/88	• Open circuit in ICL+ wire harness or ICL- wire harness of curtain shield squib LH • Curtain shield squib LH malfunction • Center airbag sensor assembly malfunction	• Curtain shield airbag assembly LH (Curtain shield squib LH) • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM

See page RS-228.

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



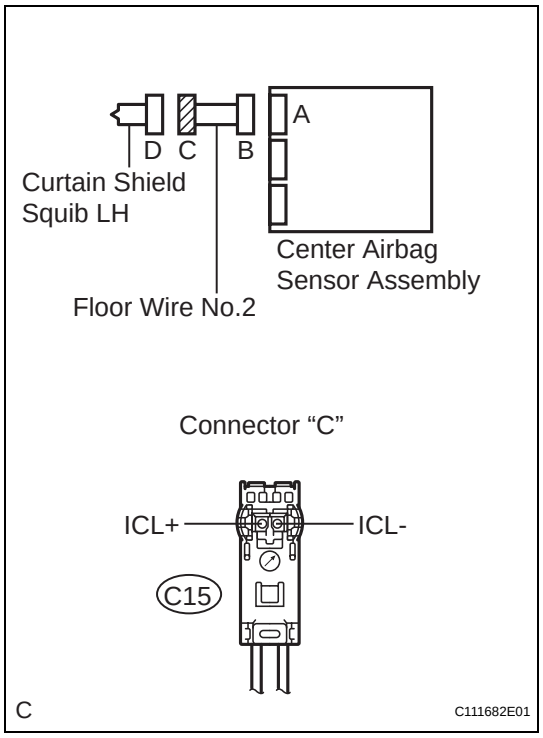
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the curtain shield airbag assembly LH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire NO.2.
CAUTION:
Never connect a tester to the curtain shield airbag assembly LH (Curtain shield squib LH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1166/88 is not output.
HINT:
Codes other than DTC B1166/88 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY LH

2 CHECK FLOOR WIRE NO.2 (CURTAIN SHIELD SQUIB LH CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

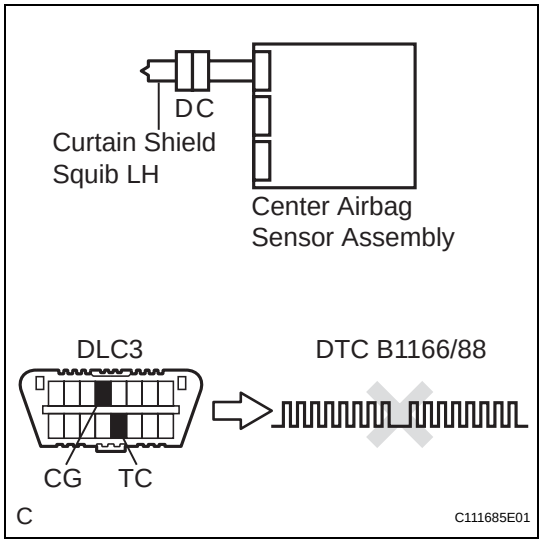
Resistance

Tester connection	Condition	Specified condition
C15-1 (ICL+) - C15-2 (ICL-)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the curtain shield airbag assembly LH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B1166/88 is not output.

HINT:

Codes other than DTC B1166/88 may be output at this time, but they are not related to this check.

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

DTC	B1167/85	Short to GND in Curtain Shield Squib LH Circuit

DESCRIPTION

The curtain shield squib LH circuit consists of the center airbag sensor assembly and the curtain shield airbag assembly LH.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1167/85 is recorded when a short to ground is detected in the curtain shield squib LH circuit.

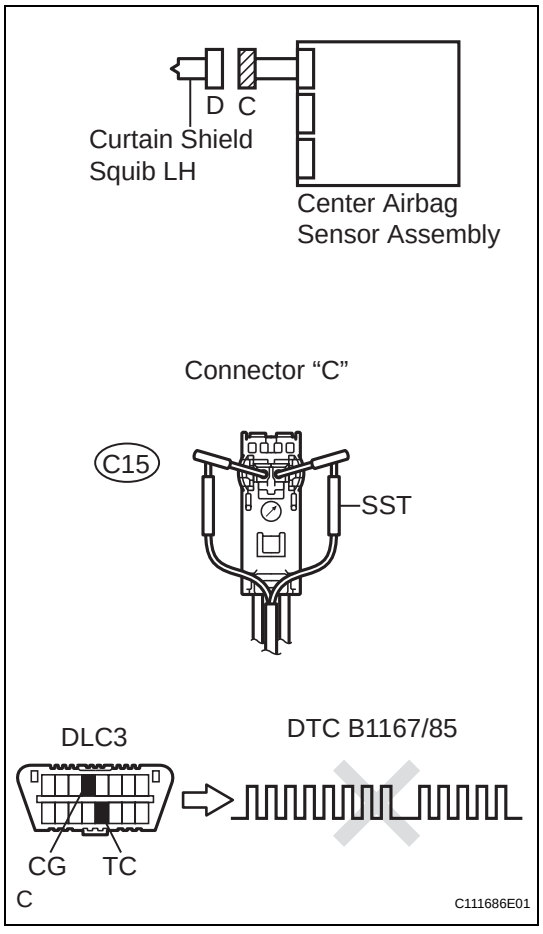
DTC No.	DTC Detecting Condition	Trouble Area
B1167/85	• Short circuit in curtain shield squib LH wire harness (to ground) • Curtain shield squib LH malfunction • Center airbag sensor assembly malfunction	• Curtain shield airbag assembly LH (Curtain Shield Squib LH) • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM

See page RS-228.

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



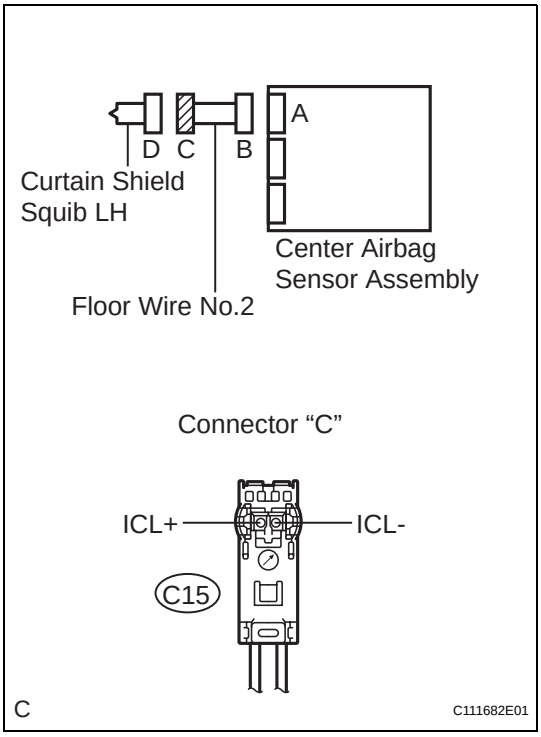
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the curtain shield airbag assembly LH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire No.2.
CAUTION:
Never connect a tester to the curtain shield airbag assembly LH (Curtain shield squib LH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1167/85 is not output.
HINT:
Codes other than DTC B1167/85 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY LH

2 CHECK FLOOR WIRE NO.2 (CURTAIN SHIELD SQUIB LH CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

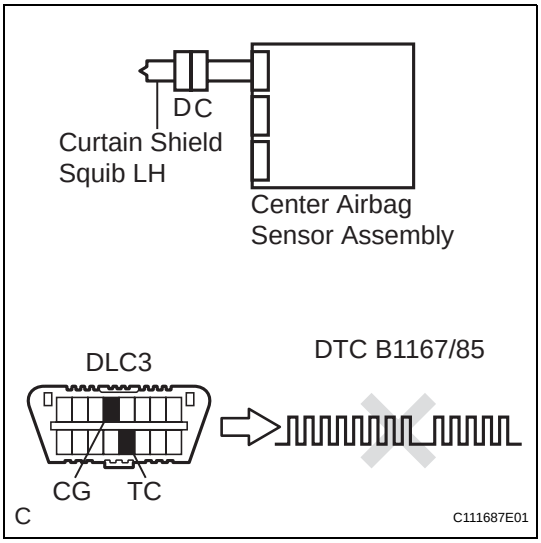
Resistance

Tester connection	Condition	Specified condition
C15-1 (ICL+) - Body ground	Always	1 MΩ or higher
C15-2 (ICL-) - Body ground	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the curtain shield airbag assembly LH and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B1167/85 is not output.

HINT:

Codes other than code B1167/85 may be output at this time, but they are not related to this check.

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

DTC	B1168/86	Short to B+ in Curtain Shield Squib LH Circuit

DESCRIPTION

The curtain shield squib LH circuit consists of the center airbag sensor assembly and the curtain shield airbag assembly LH.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1168/86 is recorded when a short to B+ is detected in the curtain shield squib LH circuit.

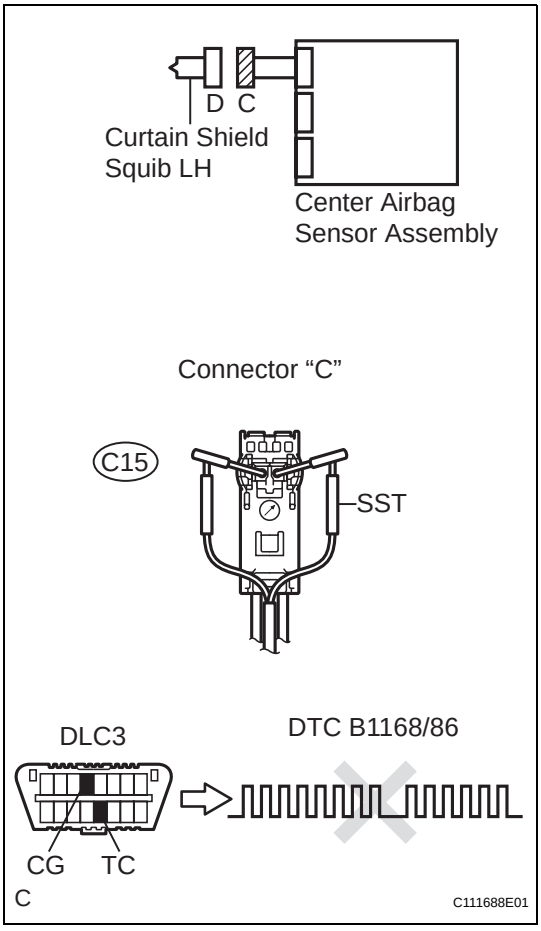
DTC No.	DTC Detecting Condition	Trouble Area
B1168/86	• Short circuit in curtain shield squib LH wire harness (to B+) • Curtain shield squib LH malfunction • Center airbag sensor assembly malfunction	• Curtain shield airbag assembly LH (Curtain shield squib LH) • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM

See page RS-228.

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



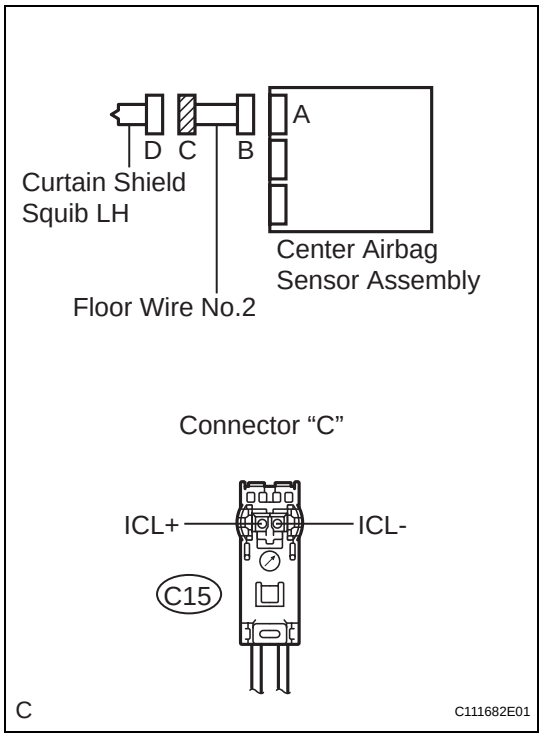
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the curtain shield airbag assembly LH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire No.2.
CAUTION:
Never connect a tester to the curtain shield airbag assembly LH (Curtain shield squib LH) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1168/86 is not output.
HINT:
Codes other than DTC B1168/86 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY LH

2 CHECK FLOOR WIRE NO.2 (CURTAIN SHIELD SQUIB LH CIRCUIT)



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

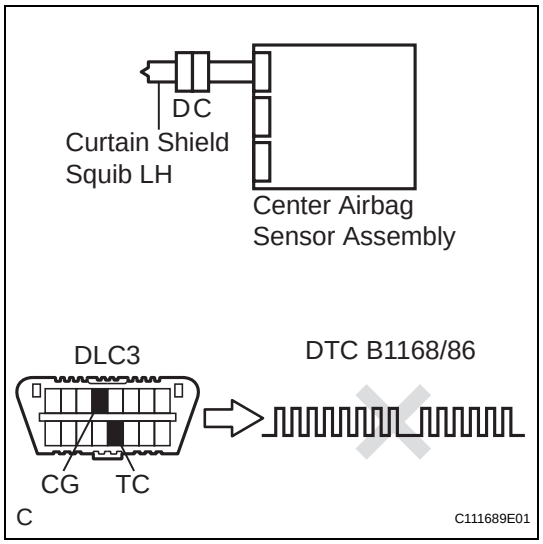
Voltage

Tester connection	Condition	Specified condition
C15-1 (ICL+) - Body ground	Ignition switch ON	Below 1 V
C15-2 (ICL-) - Body ground	Ignition switch ON	Below 1 V

NG → REPAIR OR REPLACE FLOOR WIRE NO.2

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the curtain shield airbag assembly LH and the center airbag sensor assembly.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (See page RS-32).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (See page RS-32).

OK:

DTC B1168/86 is not output.

HINT:
Codes other than code B1168/86 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1180/17	Short in Driver Side Squib 2nd Step Circuit

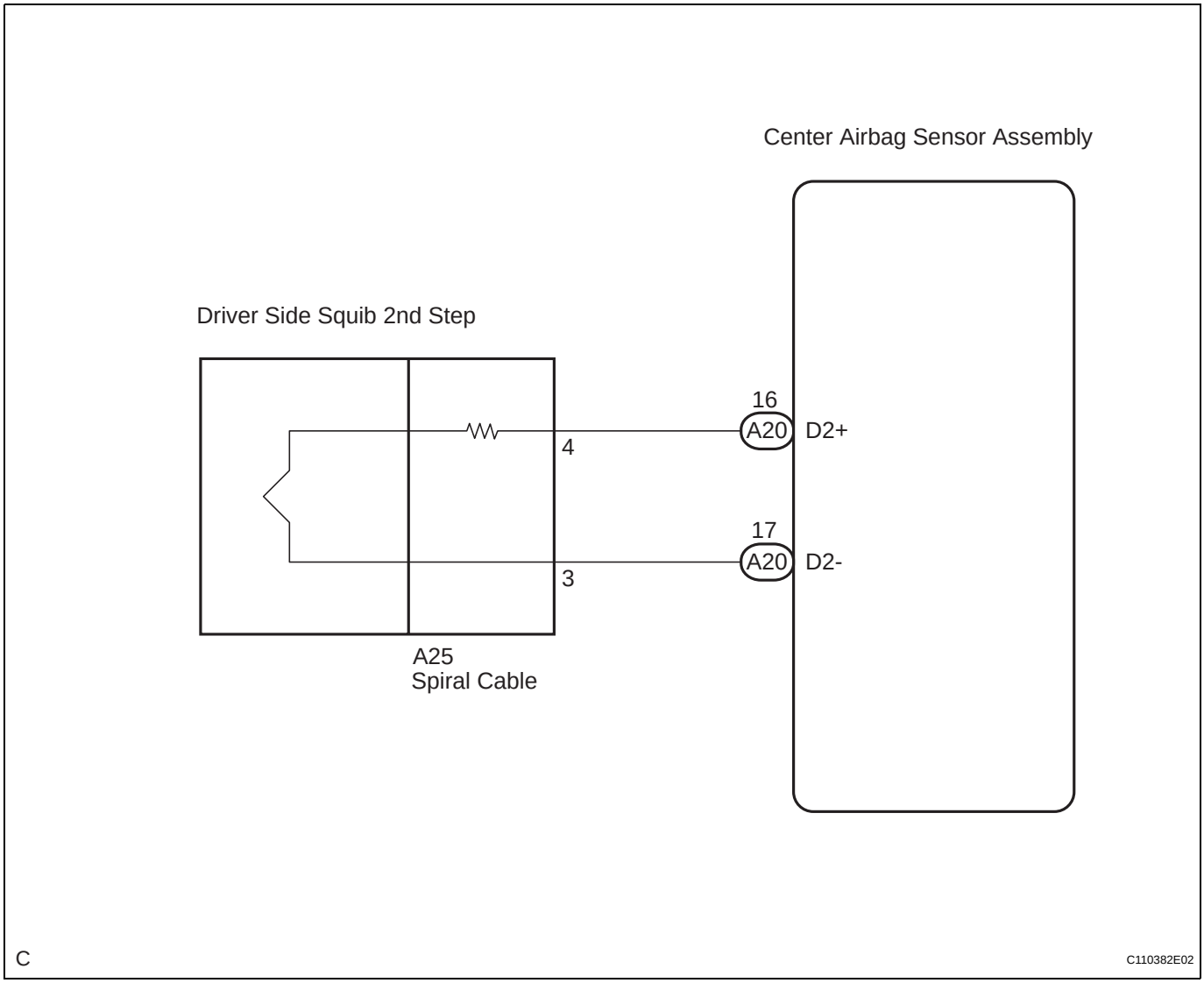
DESCRIPTION

The driver side squib 2nd step circuit consists of the center airbag sensor assembly, the spiral cable and the steering pad.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1180/17 is recorded when a short circuit is detected in the driver side squib 2nd step circuit.

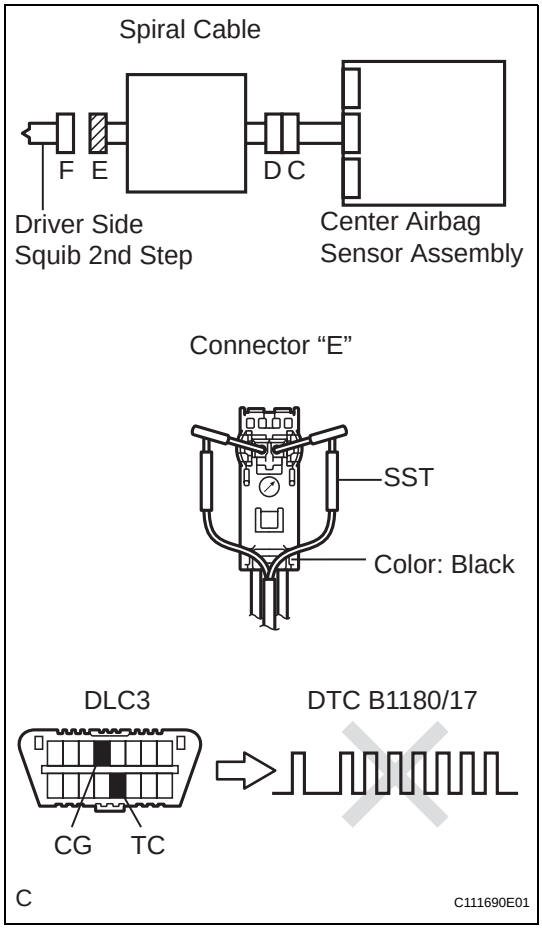
DTC No.	DTC Detecting Condition	Trouble Area
B1180/17	• Short circuit between D2+ wire harness and D2- wire harness of driver side squib 2nd step • Driver side squib 2nd step malfunction • Spiral cable malfunction • Center airbag sensor assembly malfunction	• Steering pad (Driver side squib 2nd step) • Spiral cable • Center airbag sensor assembly • Instrument panel wire

RS

WIRING DIAGRAM



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



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the steering pad.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the spiral cable.
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 the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See Page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See Page RS-32).
OK:
DTC B1180/17 is not output.
HINT:
Codes other than DTC B1180/17 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK ↓

REPLACE STEERING PAD

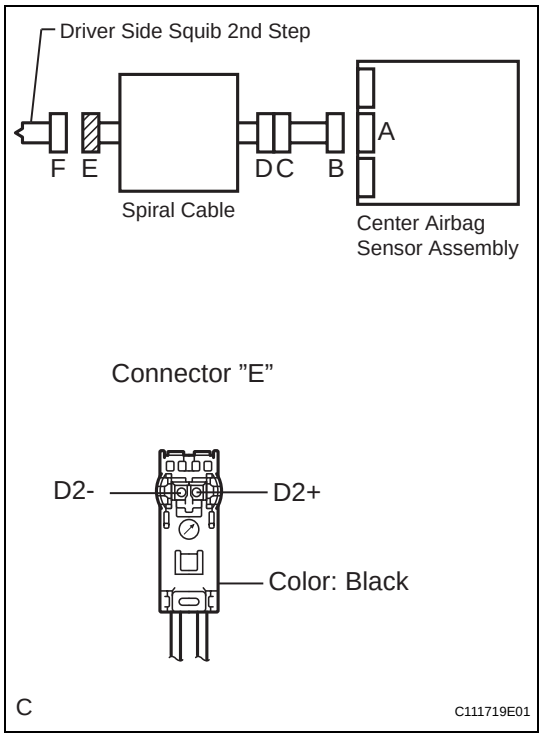
2	CHECK CONNECTORS

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the SST (resistance 2.1 Ω) from the spiral cable.
(d) Check that the spiral cable connectors (on the steering pad side) are not damaged.
OK:
The lock button is not disengaged, and the claw of the 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 assembly.
(b) Release the activation prevention mechanism built into connector "B" (See page RS-25).
(c) Measure the resistance according to the value(s) in the table below.

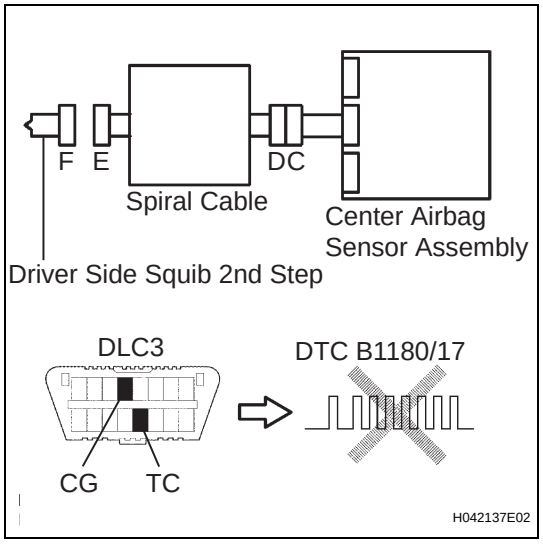
Resistance

Tester connection	Condition	Specified condition
D2+ - D2-	Always	1 MΩ or higher

NG → Go to step 5

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the steering pad and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B1180/17 is not output.

HINT:

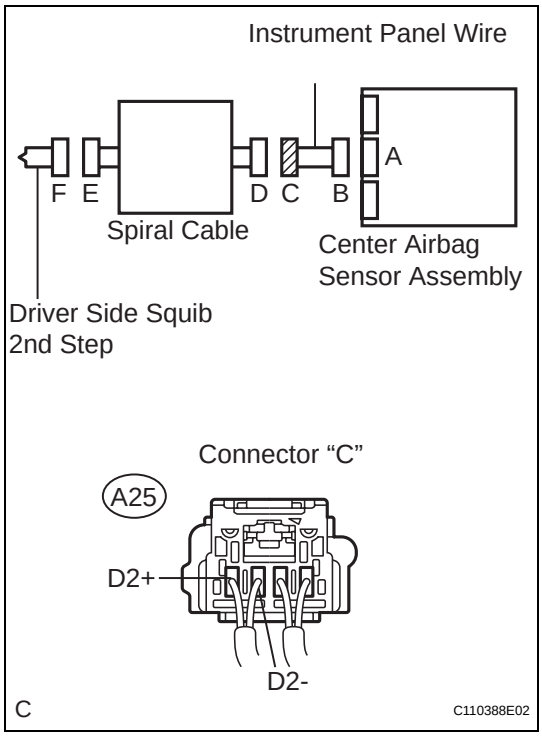
Codes other than DTC B1180/17 may be output at this time, but they are not related to this check.

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

5	CHECK INSTRUMENT PANEL WIRE



(a) Disconnect the instrument panel wire connector from the spiral cable.
HINT:
The activation prevention mechanism of connector "B" has already been released.

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

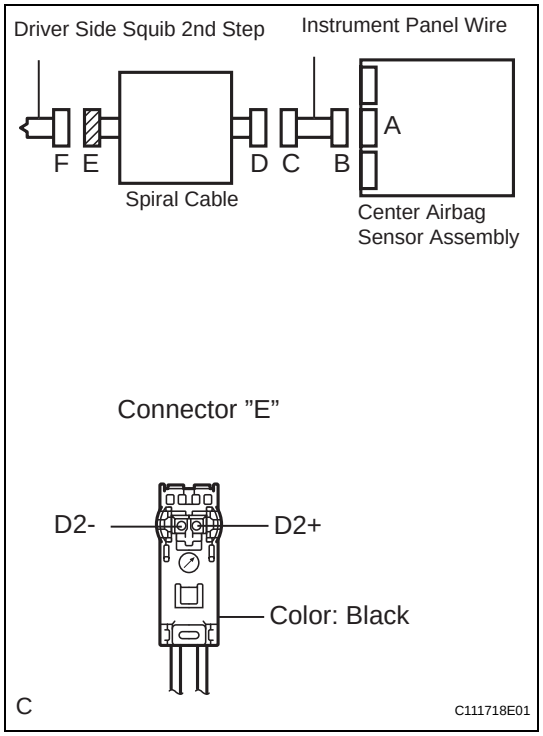
Resistance

Tester connection	Condition	Specified condition
A25-4 (D2+) - A25-3 (D2-)	Always	1 MΩ or higher

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

OK

6	CHECK SPIRAL CABLE



(a) Release the activation prevention mechanism built into connector "D" (See page RS-25).
(b) Measure the resistance according to the value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
D2+ - D2-	Always	1 MΩ or higher

NG → **REPLACE SPIRAL CABLE**

OK

USE SIMULATION METHOD TO CHECK

RS

DTC	B1181/18	Open in Driver Side Squib 2nd Step Circuit

DESCRIPTION

The driver side squib 2nd step circuit consists of the center airbag sensor assembly, the spiral cable and the steering pad.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1181/18 is recorded when an open circuit is detected in the driver side squib 2nd step circuit.

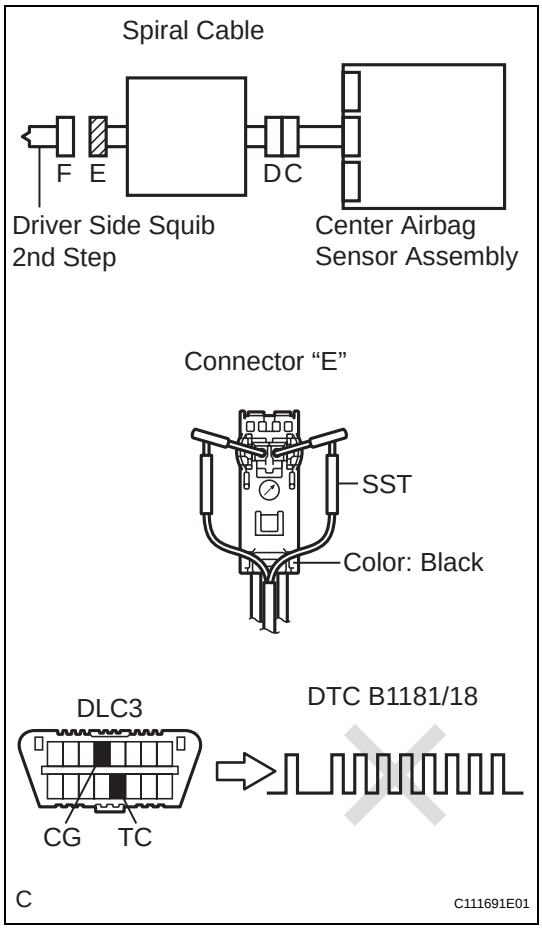
DTC No.	DTC Detecting Condition	Trouble Area
B1181/18	• Open circuit in D2+ wire harness or D2- wire harness of driver side squib 2nd step • Driver side squib 2nd step malfunction • Spiral cable malfunction • Center airbag sensor assembly malfunction	• Steering pad (Driver side squib 2nd step) • Spiral cable • Center airbag sensor assembly • Instrument panel wire

RS

WIRING DIAGRAM

See page RS-241.

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



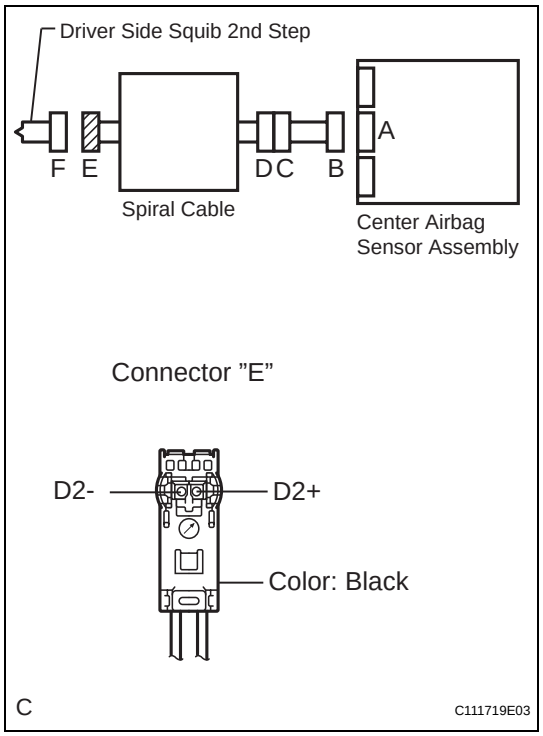
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the steering pad.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the spiral cable.
CAUTION:
Never connect 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 the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1181/18 is not output.
HINT:
Codes other than DTC B1181/18 may be output at this time, but they are not related to this check.

NG	Go to step 2

OK

REPLACE STEERING PAD

2 CHECK DRIVER SIDE SQUIB 2ND STEP CIRCUIT



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

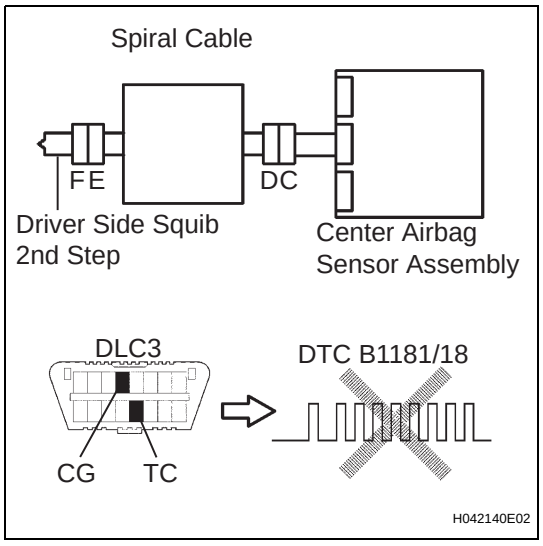
Resistance

Tester connection	Condition	Specified condition
D2+ - D2-	Always	Below 1 Ω

NG → **Go to step 4**

OK

3 CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the steering pad and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B1181/18 is not output.

HINT:

Codes other than DTC B1181/18 may be output at this time, but they are not related to this check.

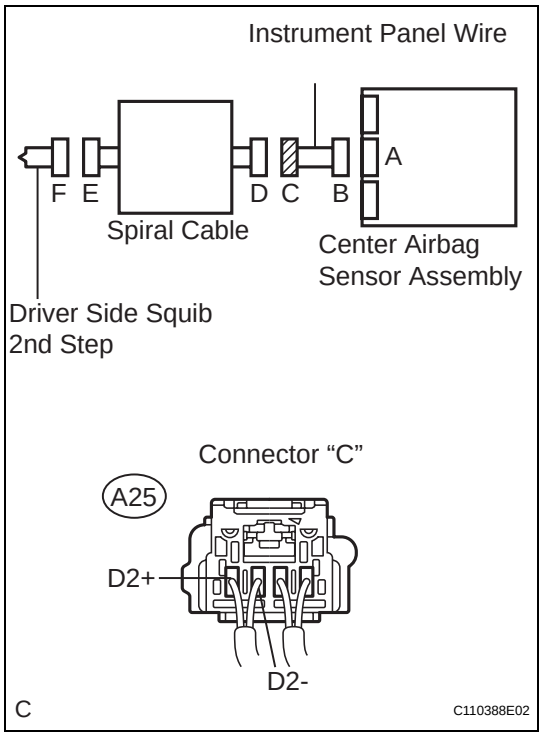
NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

RS

OK

USE SIMULATION METHOD TO CHECK

4	CHECK INSTRUMENT PANEL WIRE



(a) Disconnect the instrument panel wire connector from the spiral cable.
(b) Measure the resistance according to the value(s) in the table below.

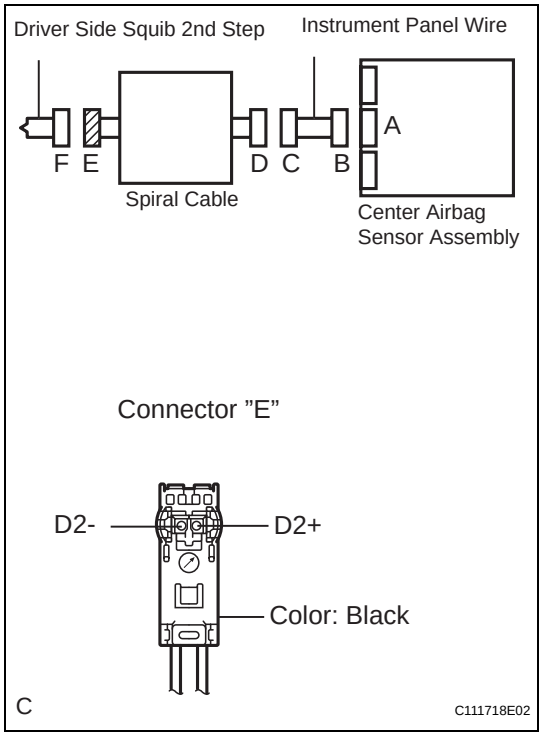
Resistance

Tester connection	Condition	Specified condition
A25-4 (D2+) - A25-3 (D2-)	Always	Below 1 Ω

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

OK

5	CHECK SPIRAL CABLE



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

Resistance

Tester connection	Condition	Specified condition
D2+ - D2-	Always	Below 1 Ω

NG → **REPLACE SPIRAL CABLE**

OK

USE SIMULATION METHOD TO CHECK

RS

DTC	B1182/19	Short to GND in Driver Side Squib 2nd Step Circuit

DESCRIPTION

The driver side squib 2nd step circuit consists of the center airbag sensor assembly, the spiral cable and the steering pad.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1182/19 is recorded when a short to ground is detected in the driver side squib 2nd step circuit.

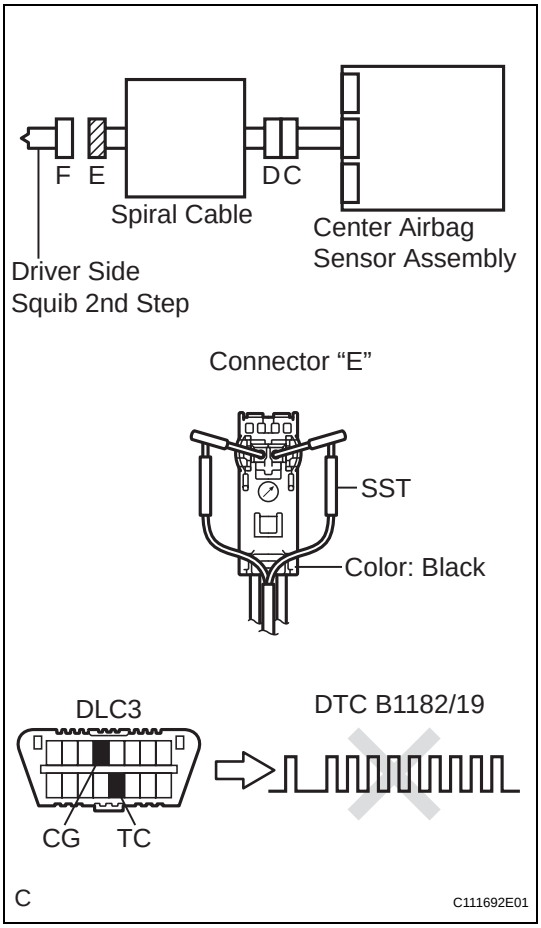
DTC No.	DTC Detecting Condition	Trouble Area
B1182/19	• Short circuit in driver side squib 2nd step wire harness (to ground) • Driver side squib 2nd step malfunction • Spiral cable malfunction • Center airbag sensor assembly malfunction	• Steering pad (Driver side squib 2nd step) • Spiral cable • Center airbag sensor assembly • Instrument panel wire

RS

WIRING DIAGRAM

See page RS-241.

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



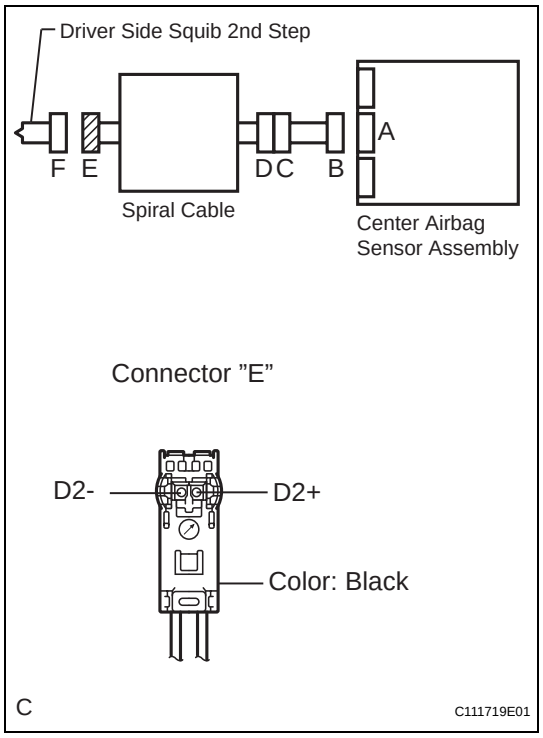
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the steering pad.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the spiral cable.
CAUTION:
Never connect 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 the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1182/19 is not output.
HINT:
Codes other than DTC B1182/19 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE STEERING PAD

2 CHECK DRIVER SIDE SQUIB 2ND STEP CIRCUIT



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

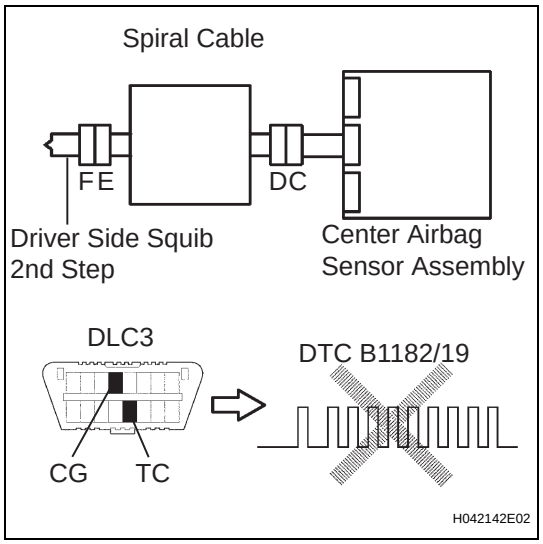
Resistance

Tester connection	Condition	Specified condition
D2+ - Body ground	Always	1 MΩ or higher
D2- - Body ground	Always	1 MΩ or higher

NG → Go to step 4

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the steering pad and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B1182/19 is not output.

HINT:

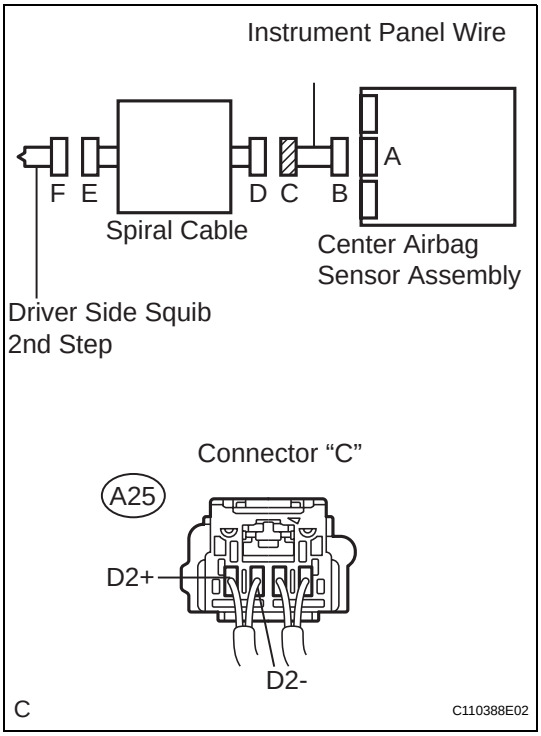
Codes other than DTC B1182/19 may be output at this time, but they are not related to this check.

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

4	CHECK INSTRUMENT PANEL WIRE



(a) Disconnect the instrument panel wire connector from the spiral cable.
(b) Measure the resistance according to the value(s) in the table below.

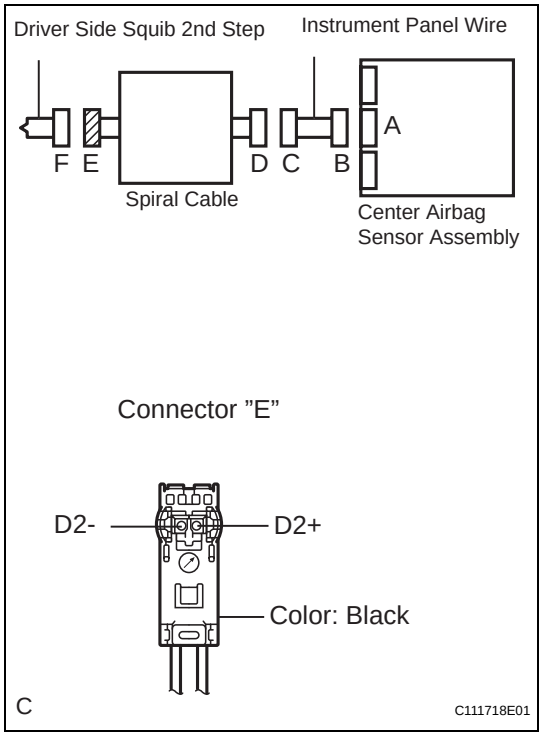
Resistance

Tester connection	Condition	Specified condition
A25-4 (D2+) - Body ground	Always	1 MΩ or higher
A25-3 (D2-) Body ground	Always	1 MΩ or higher

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

5	CHECK SPIRAL CABLE



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

Resistance

Tester connection	Condition	Specified condition
D2+ - Body ground	Always	1 MΩ or higher
D2- - Body ground	Always	1 MΩ or higher

NG → **REPLACE SPIRAL CABLE**

OK

USE SIMULATION METHOD TO CHECK

RS

DTC	B1183/22	Short to B+ in Driver Side Squib 2nd Step Circuit

DESCRIPTION

The driver side squib 2nd step circuit consists of the center airbag sensor assembly, the spiral cable and the steering pad.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1183/22 is recorded when a short to B+ is detected in the driver side squib 2nd step circuit.

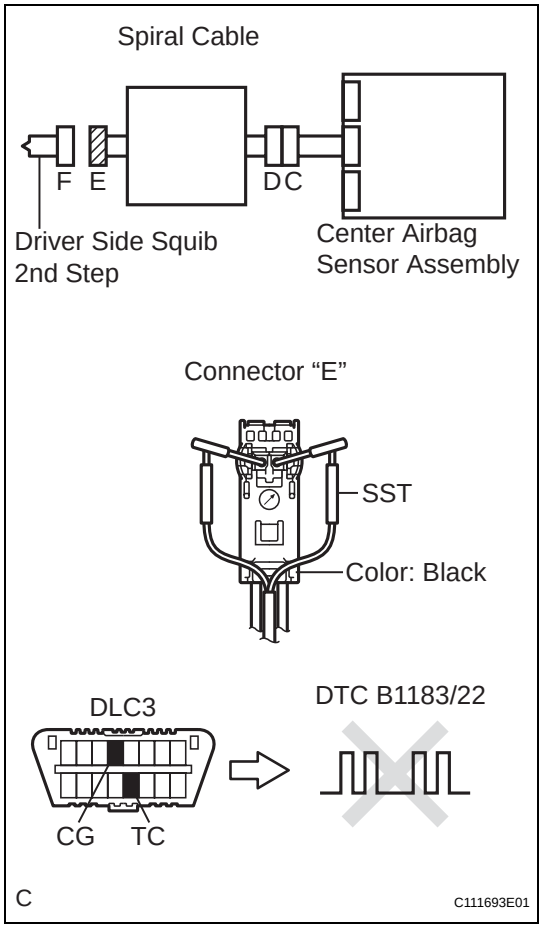
DTC No.	DTC Detecting Condition	Trouble Area
B1183/22	• Short circuit in driver side squib 2nd step wire harness (to B+) • Driver side squib 2nd step malfunction • Spiral cable malfunction • Center airbag sensor assembly malfunction	• Steering pad (Driver side squib 2nd step) • Spiral cable • Center airbag sensor assembly • Instrument panel wire

RS

WIRING DIAGRAM

See page RS-241.

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



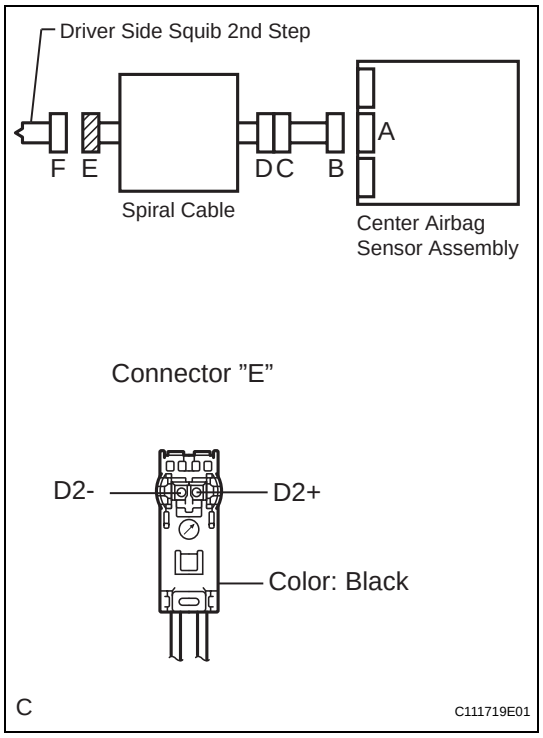
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the steering pad.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the spiral cable.
CAUTION:
Never connect 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 the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1183/22 is not output.
HINT:
Codes other than DTC B1183/22 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE STEERING PAD

2 CHECK DRIVER SIDE SQUIB 2ND STEP CIRCUIT



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

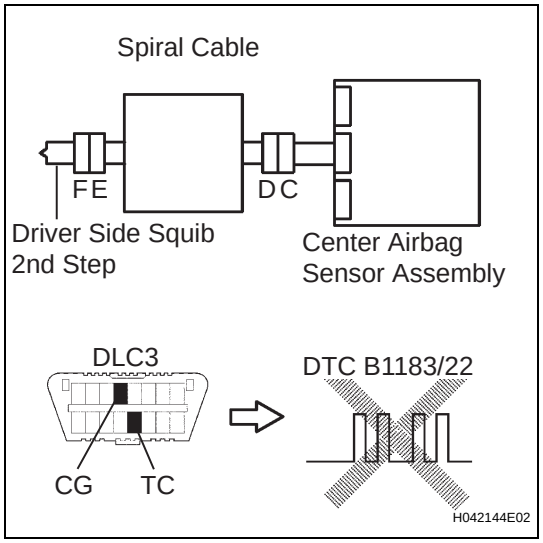
Voltage

Tester connection	Condition	Specified condition
D2+ - Body ground	Ignition switch ON	Below 1 V
D2- - Body ground	Ignition switch ON	Below 1 V

NG → Go to step 4

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the steering pad and the center airbag sensor assembly.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (See page RS-32).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (See page RS-32).

OK:

DTC B1183/22 is not output.

HINT:
Codes other than DTC B1183/22 may be output at this time, but they are not related to this check.

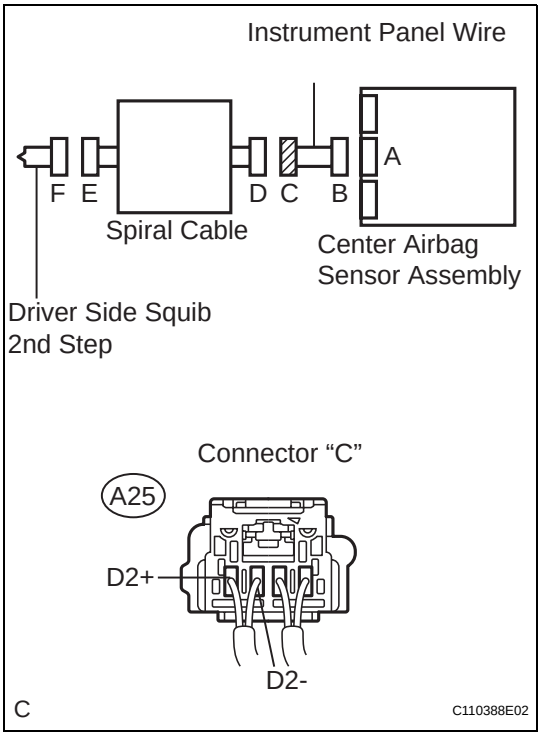
NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

RS

4 CHECK INSTRUMENT PANEL WIRE



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

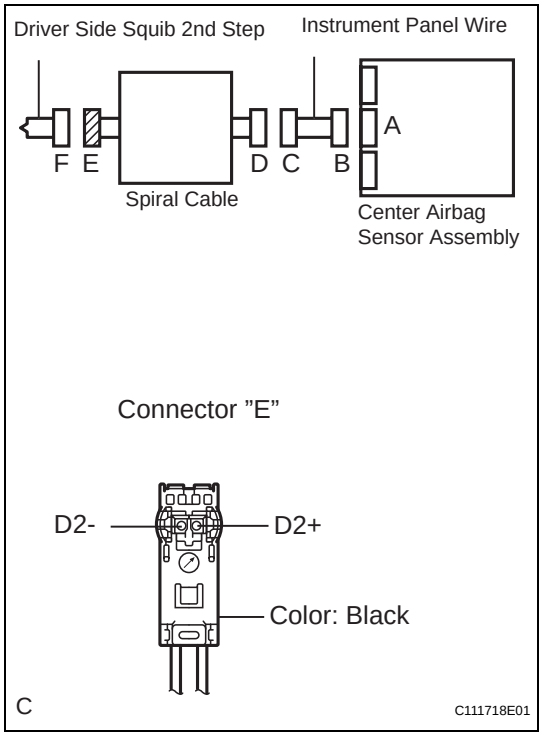
Voltage

Tester connection	Condition	Specified condition
A25-4 (D2+) - Body ground	Ignition switch ON	Below 1 V
A25-3 (D2-) - Body ground	Ignition switch ON	Below 1 V

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

OK

5	CHECK SPIRAL CABLE



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

Voltage

Tester connection	Condition	Specified condition
D2+ - Body ground	Ignition switch ON	Below 1 V
D2- - Body ground	Ignition switch ON	Below 1 V

NG → **REPLACE SPIRAL CABLE**

OK

USE SIMULATION METHOD TO CHECK

RS

DTC	B1185/57	Short in Front Passenger Side Squib 2nd Step Circuit

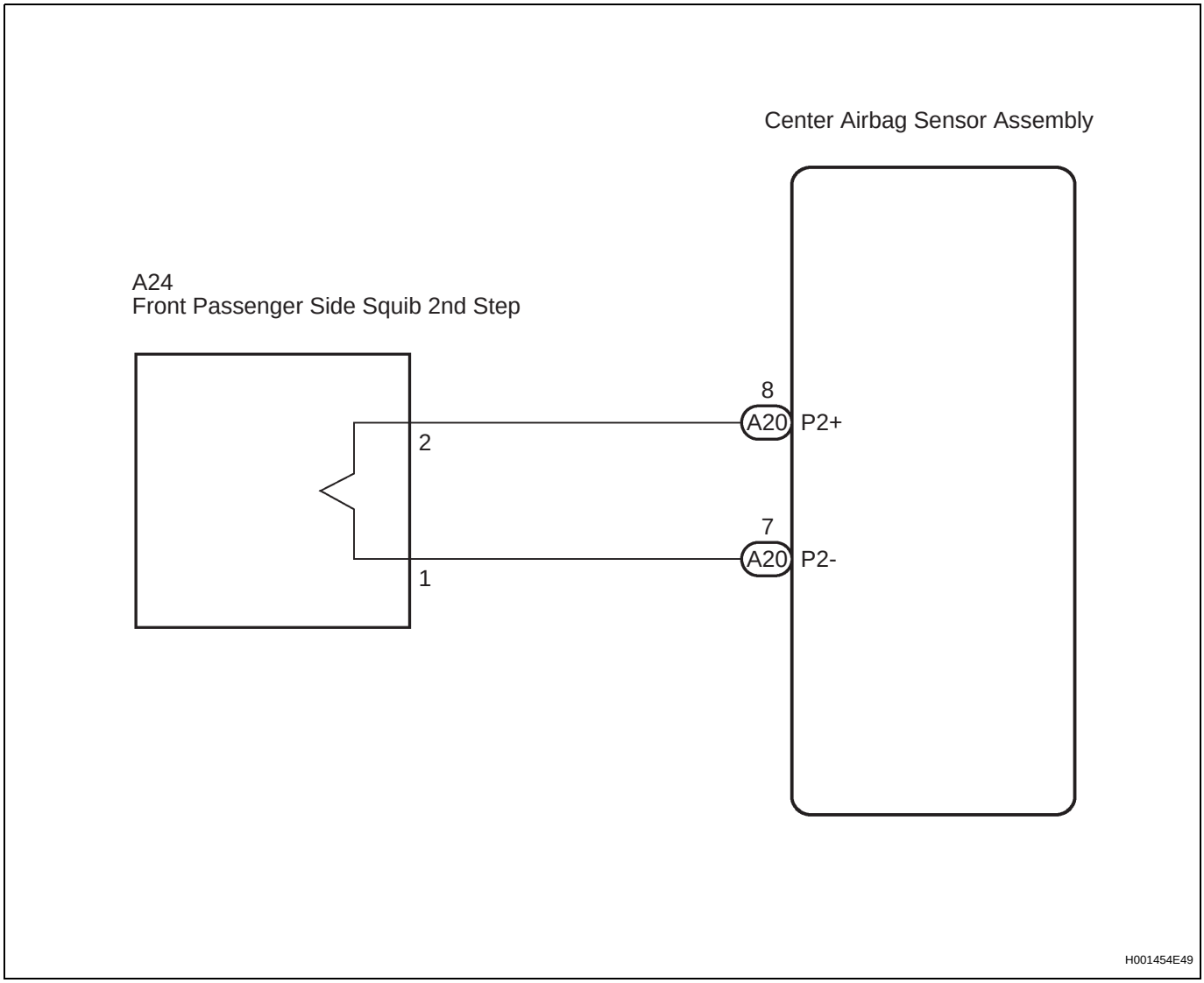
DESCRIPTION

The front passenger side squib 2nd step circuit consists of the center airbag sensor assembly and the front passenger airbag assembly.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1185/57 is recorded when a short circuit is detected in the front passenger side squib 2nd step circuit.

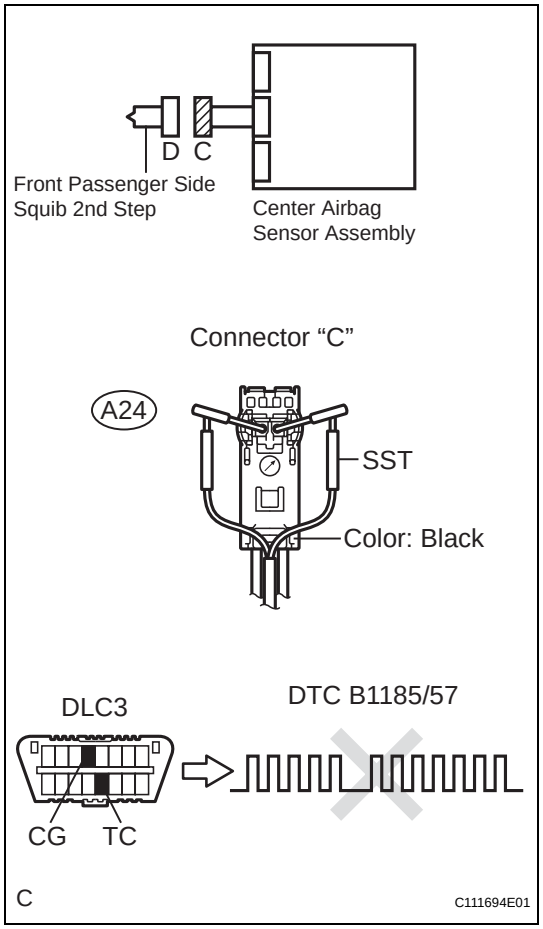
DTC No.	DTC Detecting Condition	Trouble Area
B1185/57	• Short circuit between P2+ wire harness and P2- wire harness of passenger side squib 2nd step • Passenger side squib 2nd step malfunction • Center airbag sensor assembly malfunction	• Front passenger airbag assembly (Passenger side squib 2nd step) • Center airbag sensor assembly • Instrument panel wire

RS

WIRING DIAGRAM



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



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front passenger airbag assembly.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the instrument panel wire.
CAUTION:
Never connect a tester to the front passenger airbag assembly (Front passenger side squib 2nd step) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1185/57 is not output.
HINT:
Codes other than DTC B1185/57 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK

REPLACE FRONT PASSENGER AIRBAG ASSEMBLY

2	CHECK CONNECTORS

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

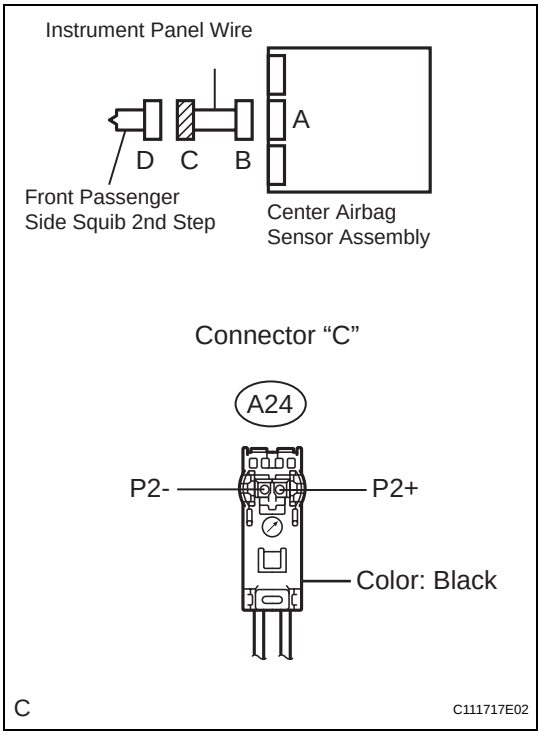
OK:

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

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

OK

3 CHECK INSTRUMENT PANEL WIRE (FRONT PASSENGER SIDE SQUIB 2ND STEP CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Release the activation prevention mechanism built into connector "B" (See page RS-25).
(c) Measure the resistance according to the value(s) in the table below.

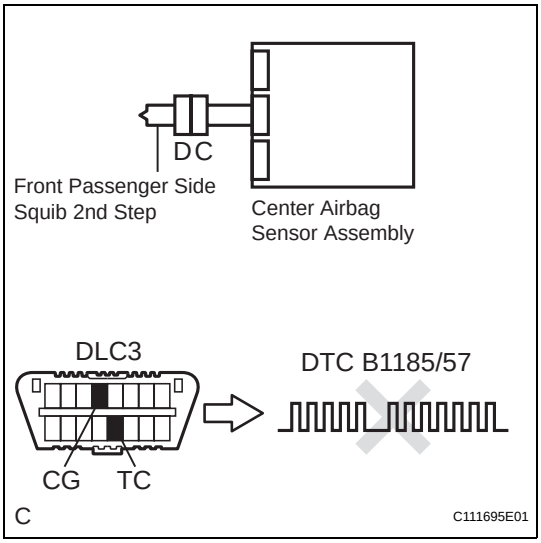
Resistance

Tester connection	Condition	Specified condition
A24-2 (P2+) - A24-1 (P2-)	Always	1 MΩ or higher

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

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front passenger airbag assembly and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B1185/57 is not output.

HINT:

Codes other than DTC B1185/57 may be output at this time, but they are not related to this check.

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

DTC	B1186/58	Open in Front Passenger Side Squib 2nd Step Circuit

DESCRIPTION

The front passenger side squib 2nd step circuit consists of the center airbag sensor assembly and the front passenger airbag assembly.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1186/58 is recorded when an open circuit is detected in the front passenger side squib 2nd step circuit.

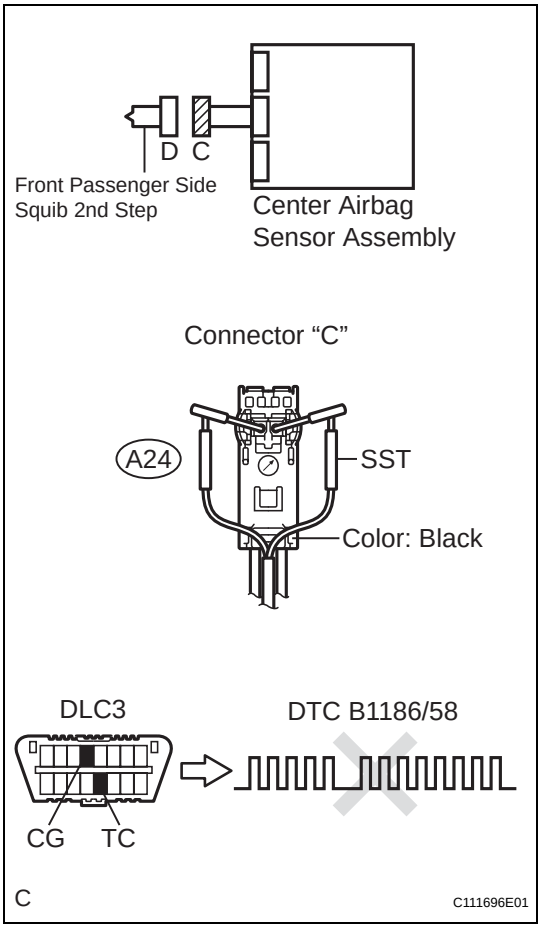
DTC No.	DTC Detecting Condition	Trouble Area
B1186/58	• Open circuit in P2+ wire harness or P2- wire harness of passenger side squib 2nd step • Passenger side squib 2nd step malfunction • Center airbag sensor assembly malfunction	• Front passenger airbag assembly (Passenger side squib 2nd step) • Center airbag sensor assembly • Instrument panel wire

RS

WIRING DIAGRAM

See page RS-258.

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



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front passenger airbag assembly.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the instrument panel wire.
CAUTION:
Never connect a tester to the front passenger airbag assembly (Front passenger side squib 2nd step) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1186/58 is not output.

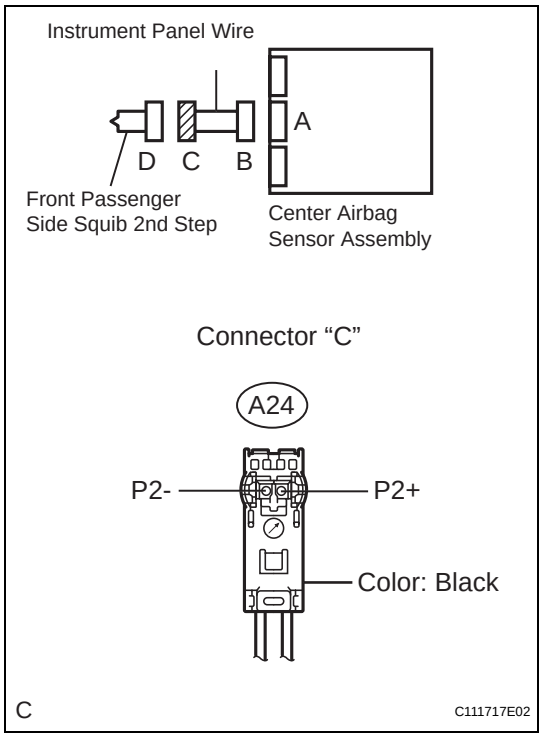
HINT:
Codes other than DTC B1186/58 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE FRONT PASSENGER AIRBAG ASSEMBLY

2 CHECK INSTRUMENT PANEL WIRE (FRONT PASSENGER SIDE SQUIB 2ND STEP CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

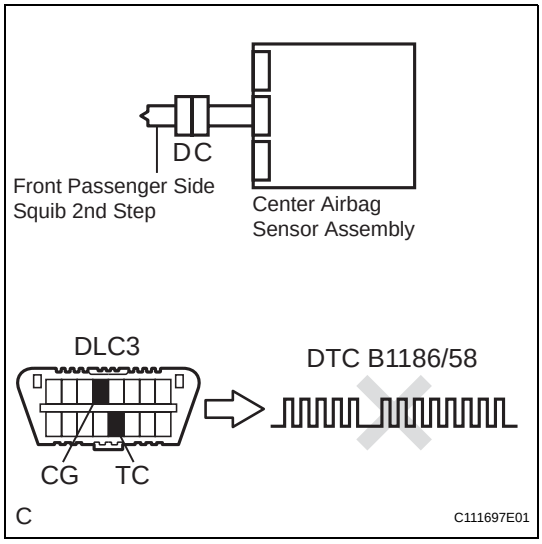
Resistance

Tester connection	Condition	Specified condition
A24-2 (P2+) - A24-1 (P2-)	Always	Below 1 Ω

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

OK

3	CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front passenger airbag assembly and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B1186/58 is not output.

HINT:

Codes other than DTC B1186/58 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1187/55	Short to GND in Front Passenger Side Squib 2nd Step Circuit

DESCRIPTION

The front passenger side squib 2nd step circuit consists of the center airbag sensor assembly and the front passenger airbag assembly.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1187/55 is recorded when a short to ground is detected in the front passenger side squib 2nd step circuit.

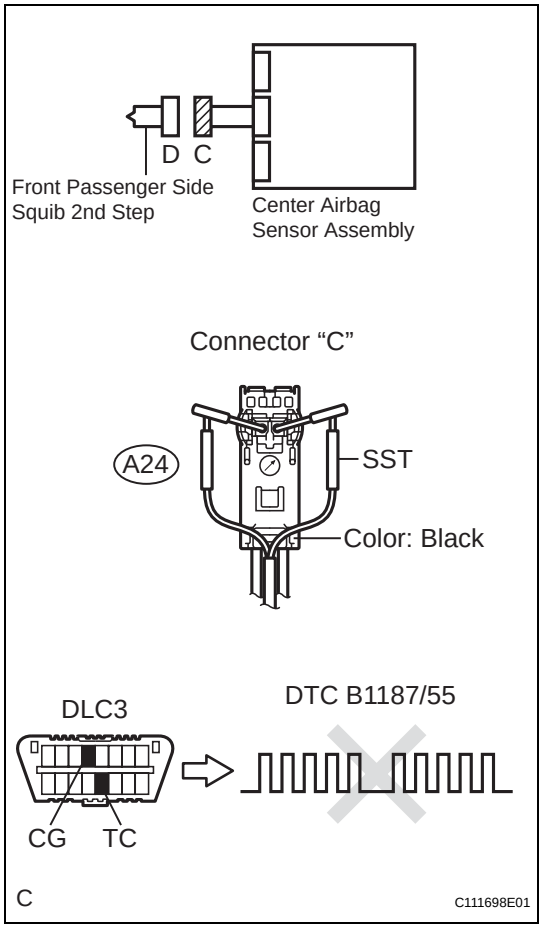
DTC No.	DTC Detecting Condition	Trouble Area
B1187/55	• Short circuit in passenger side squib 2nd step wire harness (to ground) • Passenger side squib 2nd step malfunction • Center airbag sensor assembly malfunction	• Front passenger airbag assembly (Passenger side squib 2nd step) • Center airbag sensor assembly • Instrument panel wire

RS

WIRING DIAGRAM

See page RS-258.

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



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front passenger airbag assembly.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the instrument panel wire.
CAUTION:
Never connect a tester to the front passenger airbag assembly (Front passenger side squib 2nd step) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1187/55 is not output.

HINT:
Codes other than DTC B1187/55 may be output at this time, but they are not related to this check.

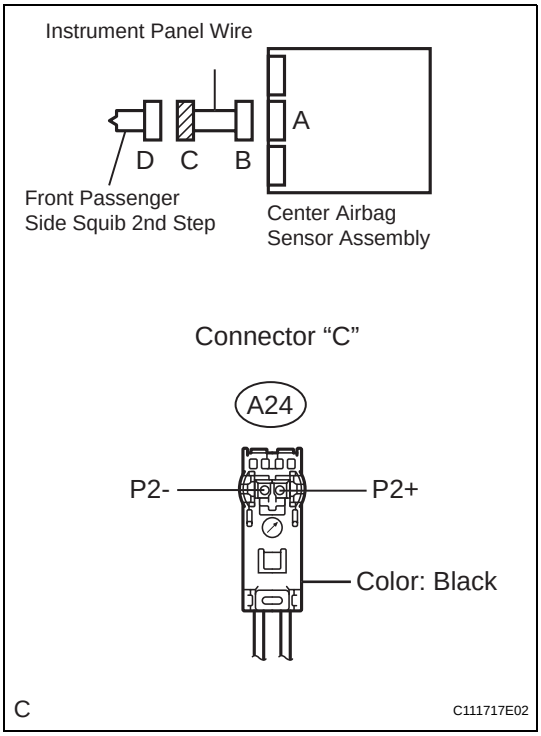
NG → **Go to step 2**

OK

REPLACE FRONT PASSENGER AIRBAG ASSEMBLY

RS

2 CHECK INSTRUMENT PANEL WIRE (PASSENGER SIDE SQUIB 2ND STEP CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

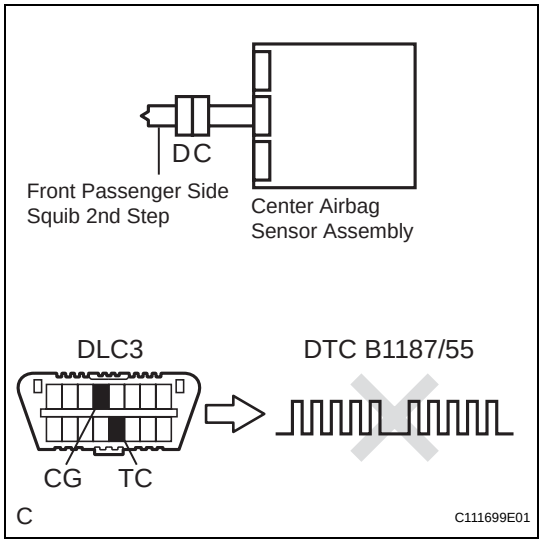
Resistance

Tester connection	Condition	Specified condition
A24-2 (P2+) - Body ground	Always	1 MΩ or higher
A24-1 (P2-) - Body ground	Always	1 MΩ or higher

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

OK

3	CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front passenger airbag assembly and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B1187/55 is not output.

HINT:

Codes other than DTC B1187/55 may be output at this time, but they are not related to this check.

RS

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1188/56	Short to B+ in Front Passenger Side Squib 2nd Step Circuit

DESCRIPTION

The front passenger side squib 2nd step circuit consists of the center airbag sensor assembly and the front passenger airbag assembly.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1188/56 is recorded when a short to B+ is detected in the front passenger side squib 2nd step circuit.

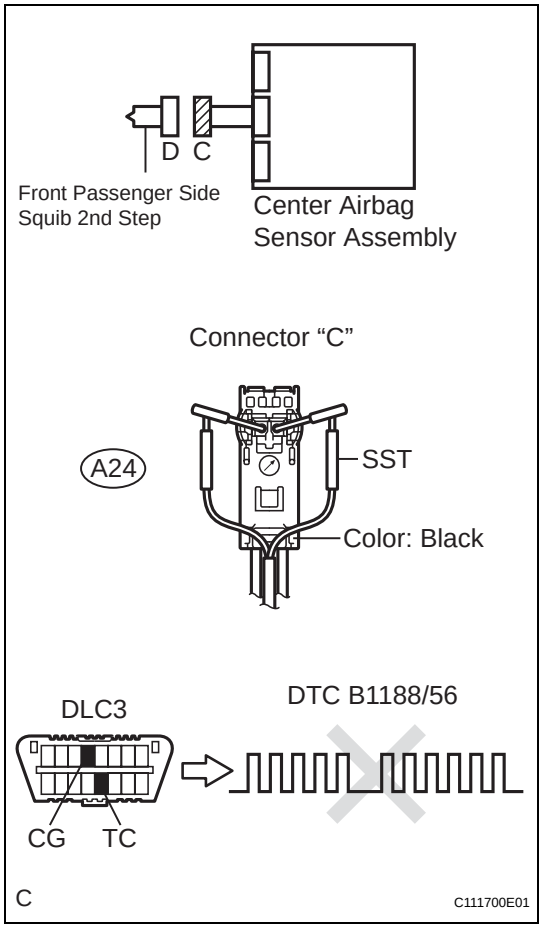
DTC No.	DTC Detecting Condition	Trouble Area
B1188/56	• Short circuit in passenger side squib 2nd step wire harness (to B+) • Passenger side squib 2nd step malfunction • Center airbag sensor assembly malfunction	• Front passenger airbag assembly (Passenger side squib 2nd step) • Center airbag sensor assembly • Instrument panel wire

RS

WIRING DIAGRAM

See page RS-258.

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



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front passenger airbag assembly.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the instrument panel wire.
CAUTION:
Never connect a tester to the front passenger airbag assembly (Front passenger side squib 2nd step) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1188/56 is not output.

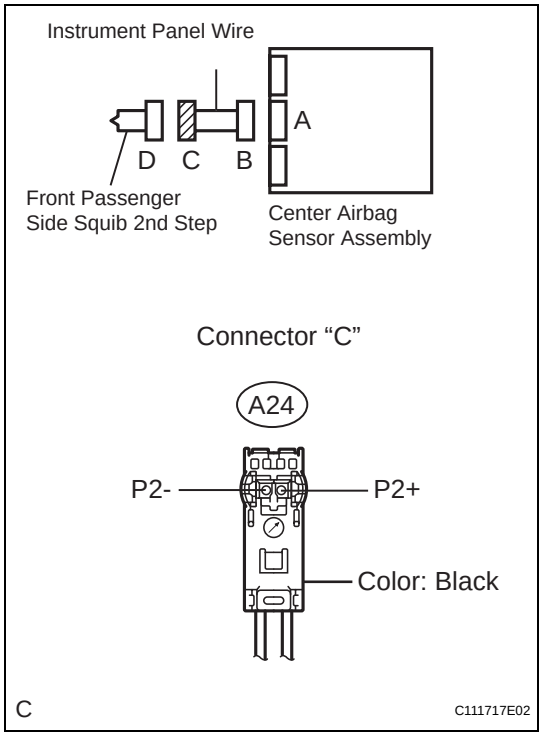
HINT:
Codes other than DTC B1188/56 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK

REPLACE FRONT PASSENGER AIRBAG ASSEMBLY

2 CHECK INSTRUMENT PANEL WIRE (PASSENGER SIDE SQUIB 2ND STEP CIRCUIT)



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

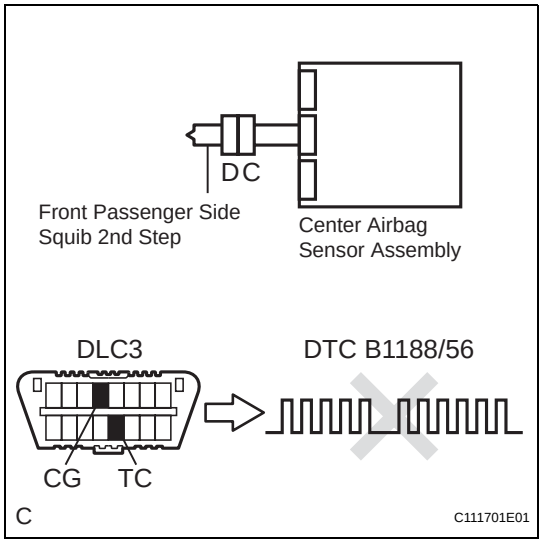
Voltage

Tester connection	Condition	Specified condition
A24-2 (P2+) - Body ground	Ignition switch ON	Below 1 V
A24-1 (P2-) - Body ground	Ignition switch ON	Below 1 V

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

OK

3	CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the front passenger airbag assembly and the center airbag sensor assembly.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (See page RS-32).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (See page RS-32).

OK:

DTC B1188/56 is not output.

HINT:

Codes other than DTC B1188/56 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1650/49	Short in Driver Side Knee Airbag Squib Circuit

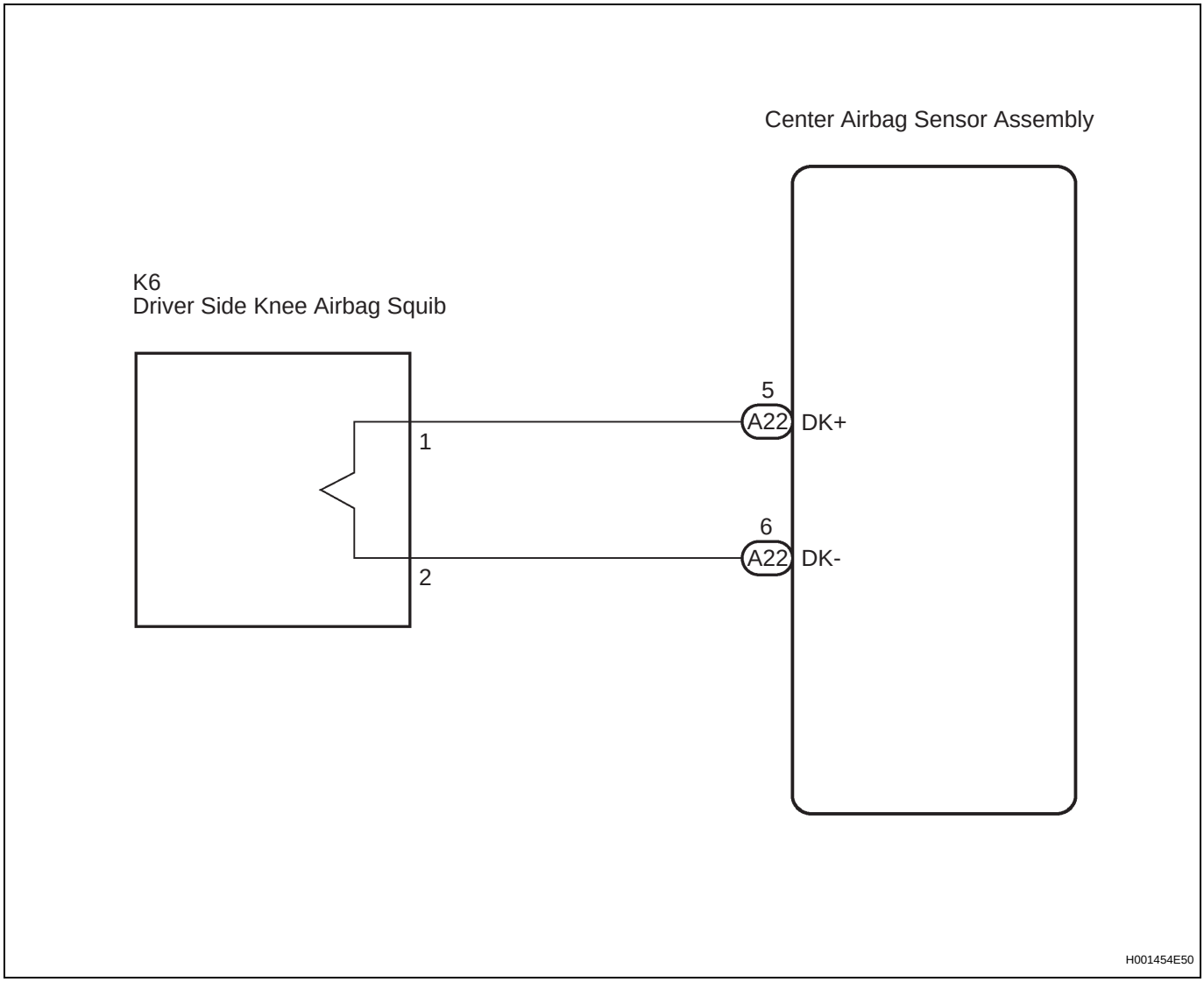
DESCRIPTION

The driver side knee airbag squib circuit consists of the center airbag sensor assembly and the driver side knee airbag assembly.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1650/49 is recorded when a short circuit is detected in the driver side knee airbag squib circuit.

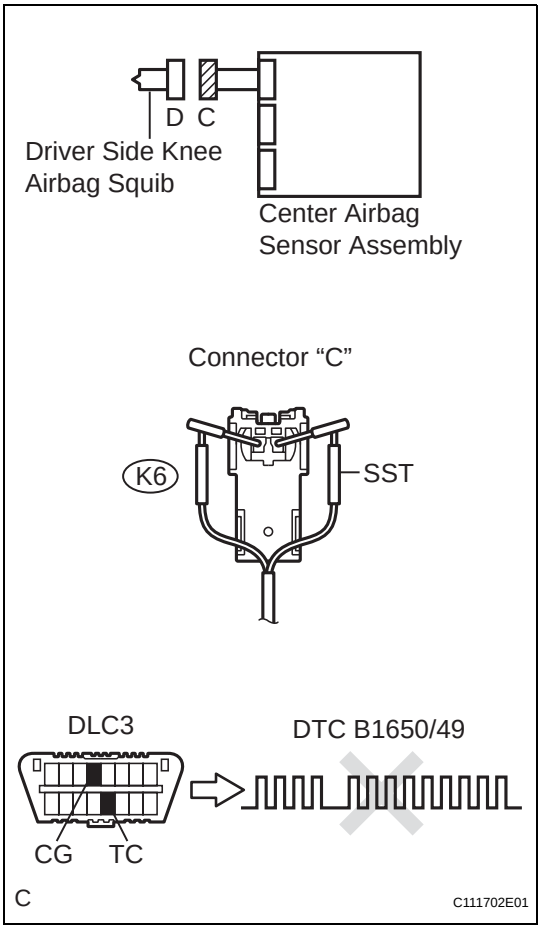
DTC No.	DTC Detecting Condition	Trouble Area
B1650/49	• Short circuit between DK+ wire harness and DK- wire harness of driver side knee airbag squib • Driver side knee airbag squib malfunction • Center airbag sensor assembly malfunction	• Driver side knee airbag assembly (Driver side knee airbag squib) • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM



1	CHECK DRIVER SIDE KNEE AIRBAG ASSEMBLY (DRIVER SIDE KNEE AIRBAG SQUIB)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the driver side knee airbag assembly.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire No.2.
CAUTION:
Never connect a tester to the driver side knee airbag assembly (Driver side knee airbag squib) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1650/49 is not output.
HINT:
Codes other than DTC B1650/49 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK

REPLACE DRIVER SIDE KNEE AIRBAG ASSEMBLY

2	CHECK CONNECTORS

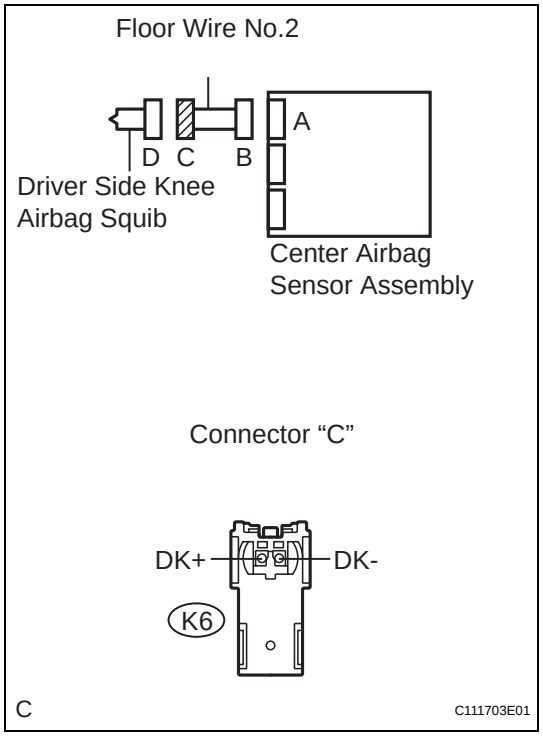
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the SST (resistance 2.1 Ω) from the floor wire No.2.
(d) Check that the floor wire No.2 connector (on the driver side knee airbag assembly side) is not damaged.

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

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

3 CHECK FLOOR WIRE NO.2 (DRIVER SIDE KNEE AIRBAG SQUIB CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Release the activation prevention mechanism built into connector "B" (See page RS-25).
(c) Measure the resistance according to the value(s) in the table below.

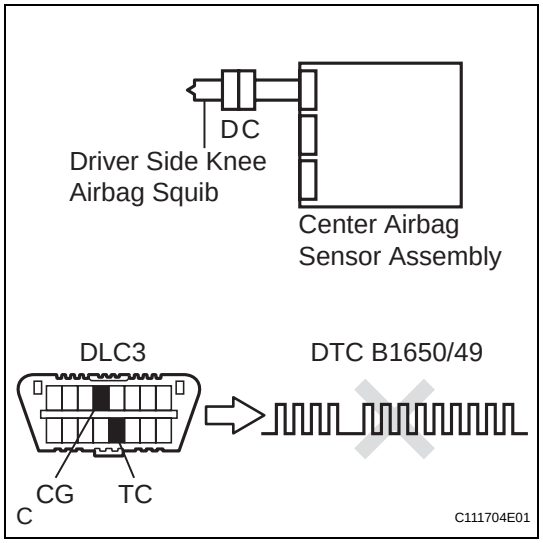
Resistance

Tester connection	Condition	Specified condition
K6-1 (DK+) - K6-2 (DK-)	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the driver side knee airbag asembly and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:
DTC B1650/49 is not output.

HINT:
Codes other than DTC B1650/49 may be output at this time, but they are not related to this check.

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

DTC	B1651/49	Open in Driver Side Knee Airbag Squib Circuit

DESCRIPTION

The driver side knee airbag squib circuit consists of the center airbag sensor assembly and the driver side knee airbag assembly.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1651/49 is recorded when an open circuit is detected in the driver side knee airbag squib circuit.

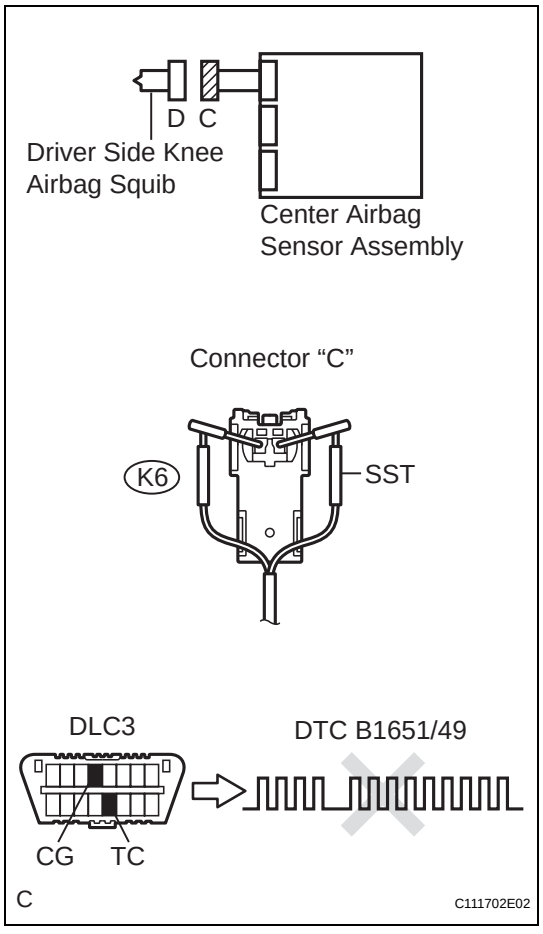
DTC No.	DTC Detecting Condition	Trouble Area
B1651/49	• Open circuit in DK+ wire harness or DK- wire harness of driver side knee airbag squib • Driver side knee airbag squib malfunction • Center airbag sensor assembly malfunction	• Driver side knee airbag assembly (Driver side knee airbag squib) • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM

See page RS-271.

1	CHECK DRIVER SIDE KNEE AIRBAG ASSEMBLY (DRIVER SIDE KNEE AIRBAG SQUIB)



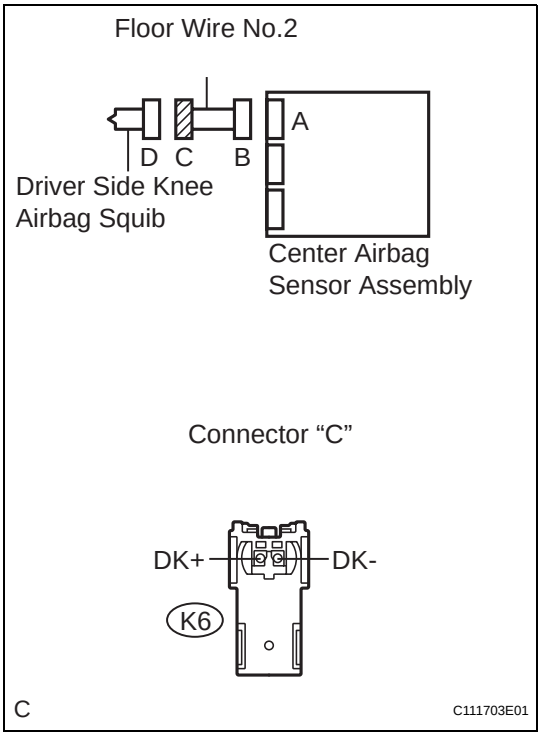
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the driver side knee airbag assembly.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire No.2.
CAUTION:
Never connect a tester to the driver side knee airbag assembly (Driver side knee airbag squib) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1651/49 is not output.
HINT:
Codes other than DTC B1651/49 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE DRIVER SIDE KNEE AIRBAG ASSEMBLY

2 CHECK FLOOR WIRE NO.2 (DRIVER SIDE KNEE AIRBAG SQUIB CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

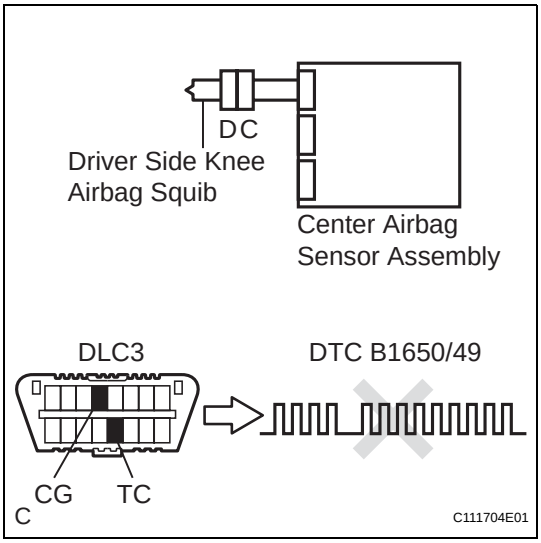
Resistance

Tester connection	Condition	Specified condition
K6-1 (DK+) - K6-2 (DK-)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the driver side knee airbag assembly and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B1651/49 is not output.

HINT:
Codes other than DTC B1651/49 may be output at this time, but they are not related to this check.

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

DTC	B1652/49	Short to GND in Driver Side Knee Airbag Squib Circuit

DESCRIPTION

The driver side knee airbag squib circuit consists of the center airbag sensor assembly and the driver side knee airbag assembly.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1652/49 is recorded when a short to ground is detected in the driver side knee airbag squib circuit.

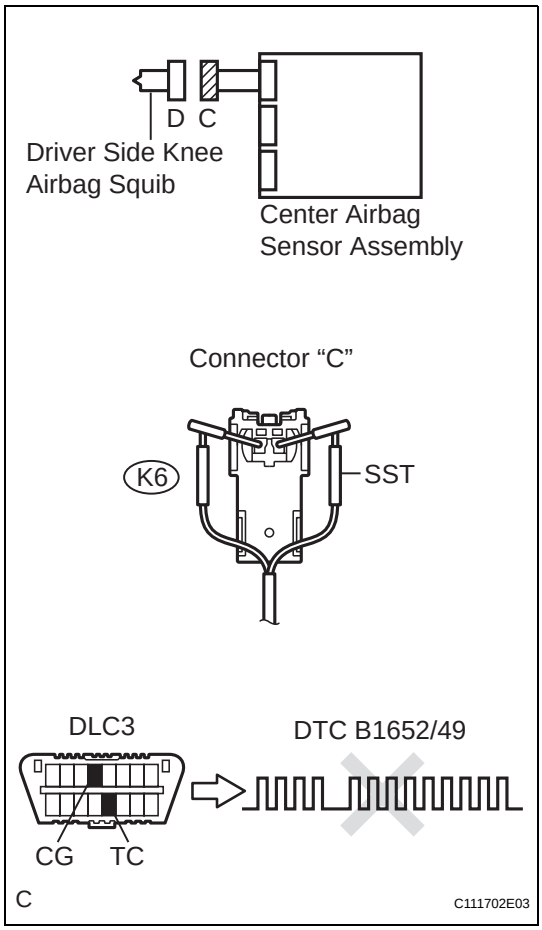
DTC No.	DTC Detecting Condition	Trouble Area
B1652/49	• Short circuit in driver side knee airbag squib wire harness (to ground) • Driver side knee airbag squib malfunction • Center airbag sensor assembly malfunction	• Driver side knee airbag assembly (Driver side knee airbag squib) • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM

See page RS-271.

1	CHECK DRIVER SIDE KNEE AIRBAG ASSEMBLY (DRIVER SIDE KNEE AIRBAG SQUIB)



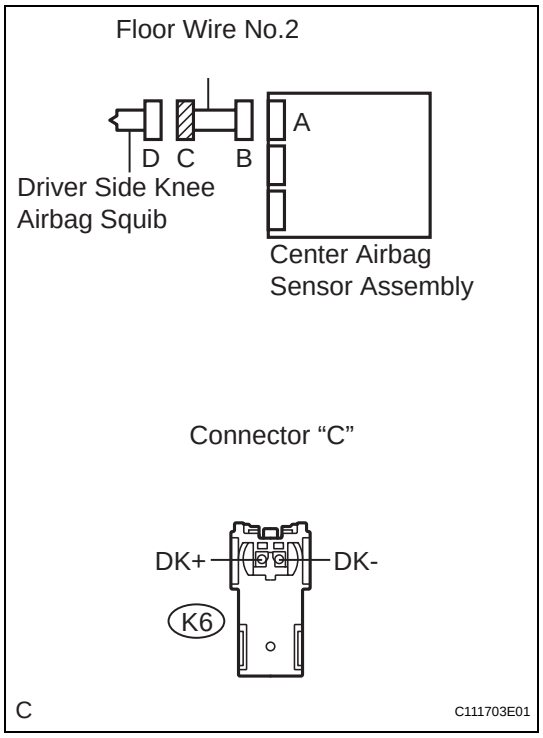
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the driver side knee airbag assembly.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire No.2.
CAUTION:
Never connect a tester to the driver side knee airbag assembly (Driver side knee airbag squib) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1652/49 is not output.
HINT:
Codes other than DTC B1652/49 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE DRIVER SIDE KNEE AIRBAG ASSEMBLY

2 CHECK FLOOR WIRE NO.2 (DRIVER SIDE KNEE AIRBAG SQUIB CIRCUIT)



(a) Disconnect the connector from the center airbag sensor assembly.
(b) Measure the resistance according to the value(s) in the table below.

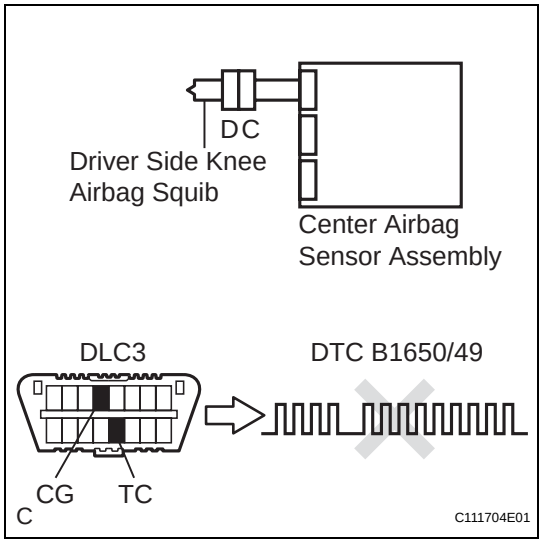
Resistance

Tester connection	Condition	Specified condition
K6-1 (DK+) - Body ground	Always	1 MΩ or higher
K6-2 (DK-) - Body ground	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the driver side knee airbag assembly and the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-32).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-32).

OK:

DTC B1652/49 is not output.

HINT:

Codes other than DTC B1652/49 may be output at this time, but they are not related to this check.

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

DTC	B1653/49	Short to B+ in Driver Side Knee Airbag Squib Circuit

DESCRIPTION

The driver side knee airbag squib circuit consists of the center airbag sensor assembly and the driver side knee airbag assembly.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1653/49 is recorded a when short to B+ is detected in the driver side knee airbag squib circuit.

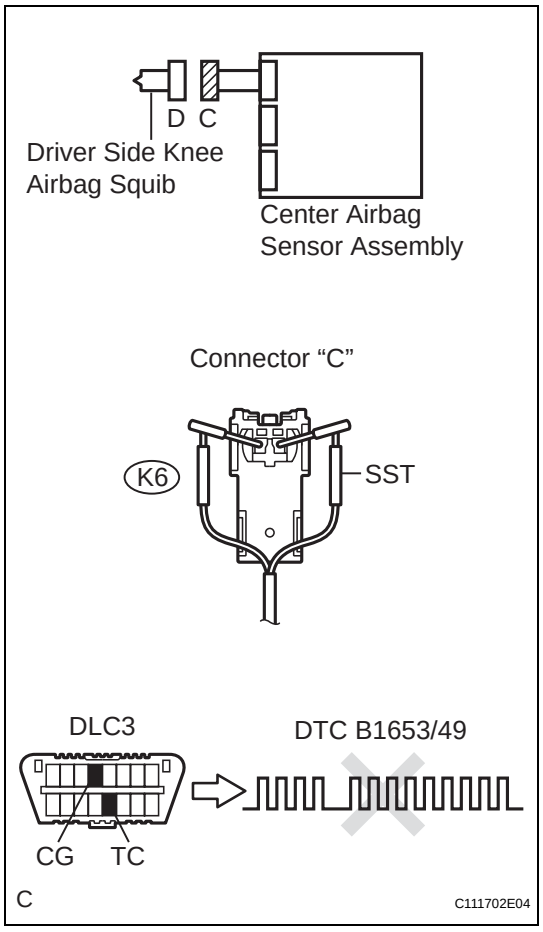
DTC No.	DTC Detecting Condition	Trouble Area
B1653/49	• Short circuit in driver side knee airbag squib wire harness (to B+) • Driver side knee airbag squib malfunction • Center airbag sensor assembly malfunction	• Driver side knee airbag assembly (Driver side knee airbag squib) • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM

See page RS-271.

1	CHECK DRIVER SIDE KNEE AIRBAG ASSEMBLY (DRIVER SIDE KNEE AIRBAG SQUIB)



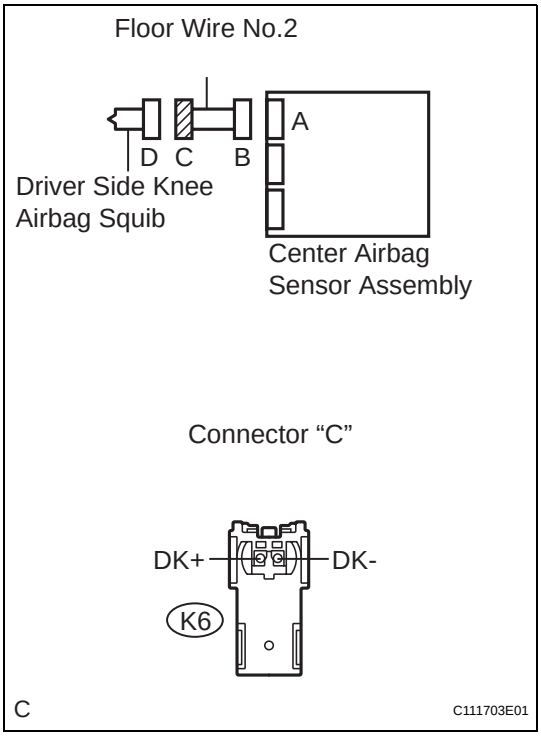
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the driver side knee airbag assembly.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the floor wire No.2.
CAUTION:
Never connect a tester to the driver side knee airbag assembly (Driver side knee airbag squib) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
Do not forcibly insert the SST into the terminals of the connector when connecting.
Insert the SST straight into the terminals of the connector.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-32).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-32).
OK:
DTC B1653/49 is not output.
HINT:
Codes other than DTC B1653/49 may be output at this time, but they are not related to this check.

NG → Go to step 2

OK

REPLACE DRIVER SIDE KNEE AIRBAG ASSEMBLY

2 CHECK FLOOR WIRE NO.2 (DRIVER SIDE KNEE AIRBAG SQUIB CIRCUIT)



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

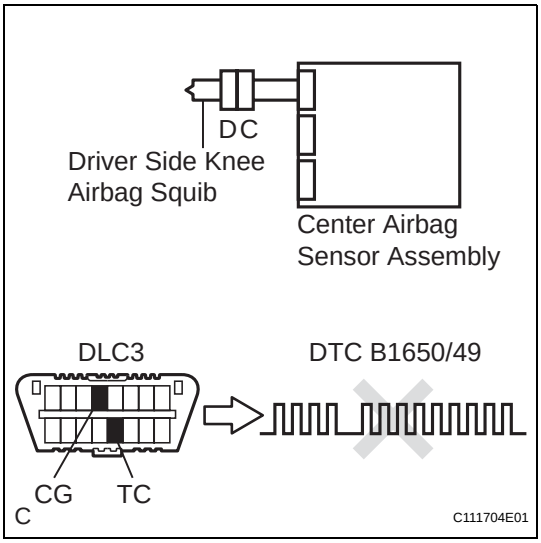
Voltage

Tester connection	Condition	Specified condition
K6-1 (DK+) - Body ground	Ignition switch ON	Below 1 V
K6-2 (DK-) - Body ground	Ignition switch ON	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

3 REPLACE CENTER AIRBAG SENSOR ASSEMBLY



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the driver side knee airbag assembly and the center airbag sensor assembly.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (See page RS-32).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (See page RS-32).

OK:

DTC B1653/49 is not output.

HINT:
Codes other than DTC B1653/49 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

SRS Warning Light Remains ON

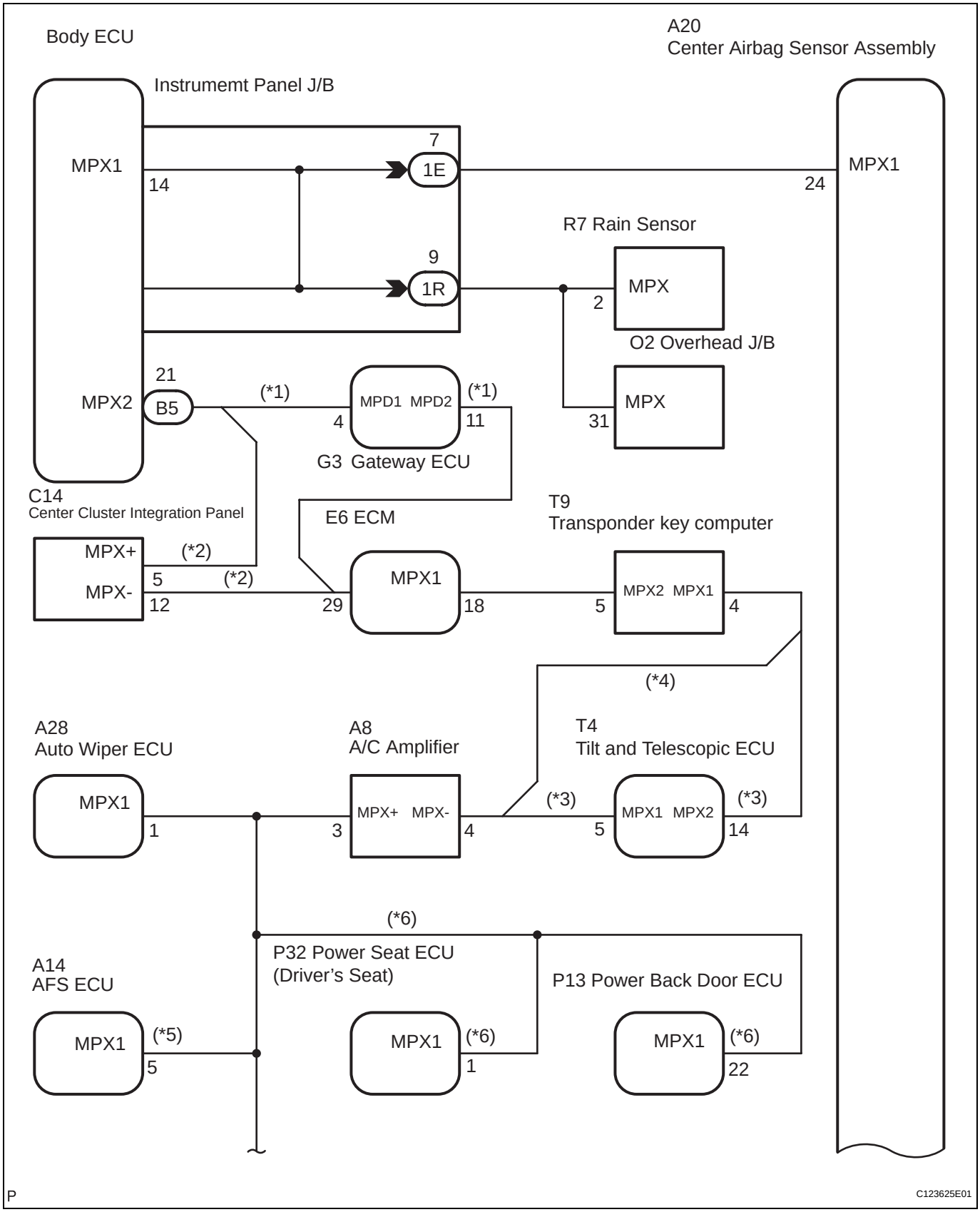
DESCRIPTION

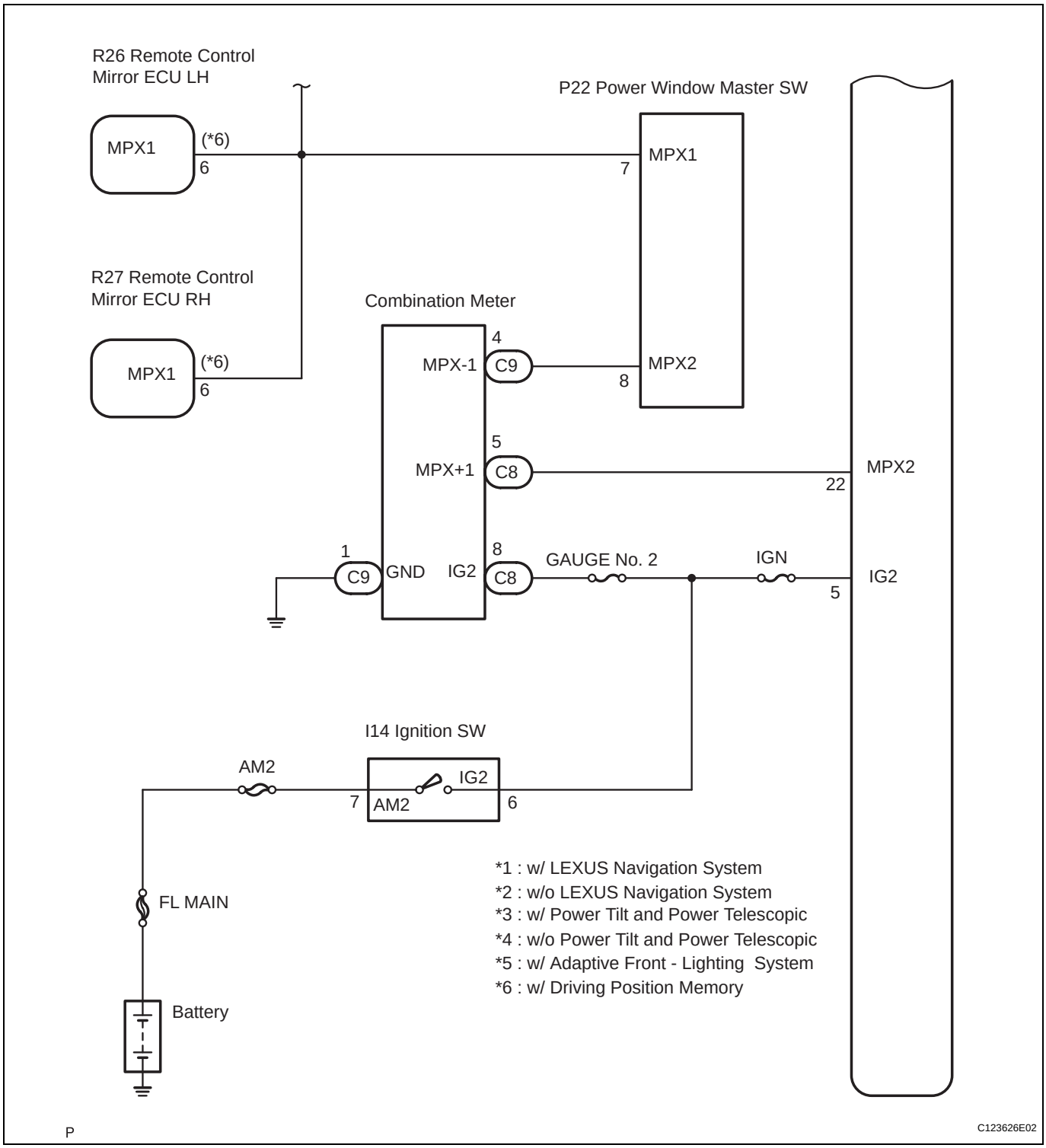
The SRS warning light is located on the combination meter assembly. When the SRS is normal, the SRS warning light comes on for approximately 6 seconds after the ignition switch is turned from the LOCK position to the ON position, and then goes off automatically. If there is a malfunction in the SRS, the SRS warning light comes on to inform the driver of the abnormality. When terminals TC and CG of the DLC3 are connected, the DTC is displayed by blinking the SRS warning light. The source voltage drop is indicated when the SRS warning light comes on while no DTC is detected. The SRS warning light automatically goes off when the source voltage returns to normal. A malfunction in this circuit is not recorded in the center airbag sensor assembly.

HINT:

The center airbag sensor assembly is equipped with a voltage-increase circuit (DC-DC converter) which functions to increase the voltage of the SRS to normal when the battery voltage drops.

WIRING DIAGRAM





1	CHECK SRS WARNING LIGHT OPERATION

(a) Check the SRS warning light operation approximately 6 seconds after the ignition switch is turned to the ON position.

Result

SRS Warning Light Illumination	Proceed to
Remains on after it goes off	A

SRS Warning Light Illumination	Proceed to
Remains on	B

B → Go to step 6

A

2 CHECK BATTERY

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

NG → REPLACE BATTERY

OK

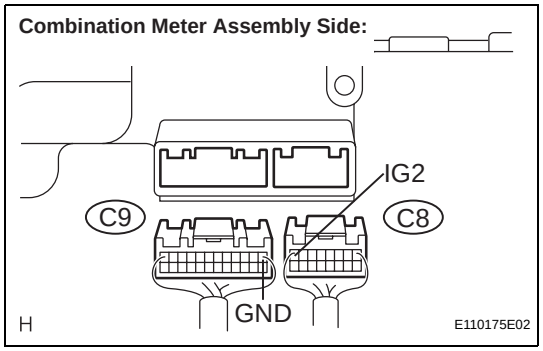
3 CHECK COMBINATION METER ASSEMBLY CONNECTOR

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the connector from the combination meter assembly.
(c) Check that the connector is not damaged.
OK:
The connector is not deformed or damaged.

NG → REPAIR OR REPLACE WIRE HARNESS

OK

4 CHECK SOURCE VOLTAGE



(a) Connect the connector to the combination meter assembly.
(b) Measure the voltage and resistance according to the value (s) in the table below.
Voltage and Resistance

Tester connection	Condition	Specified condition
C8-8 (IG2) - Body ground	Ignition switch ON	10 to 14 V
C9-1 (GND) - Body ground	Always	Below 1 Ω

NG → REPAIR OR REPLACE WIRE HARNESS (BATTERY - COMBINATION METER ASSEMBLY)

OK

5 PERFORM ACTIVE TEST BY INTELLIGENT TESTER (COMBINATION METER ASSEMBLY)

(a) Using the intelligent tester, perform the active test and check that the SRS warning light turns on and off.

OK:
The SRS warning light turns on and off in accordance with tester operation.

NG → **REPLACE COMBINATION METER ASSEMBLY**

OK

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

RS

6	CHECK BATTERY

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

NG → **REPLACE BATTERY**

OK

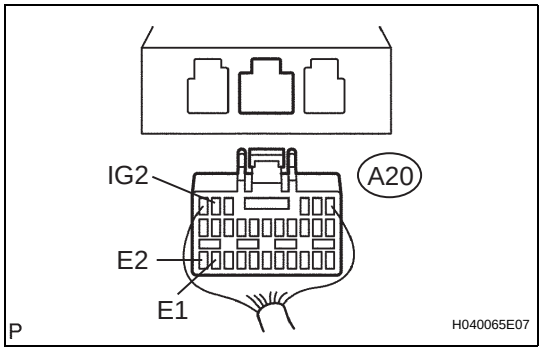
7	CHECK CENTER AIRBAG SENSOR ASSEMBLY CONNECTOR

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connector from the center airbag sensor assembly.
(d) Check that the connector is not damaged.
OK:
The connector is not deformed or damaged.

NG → **REPAIR OR REPLACE WIRE HARNESS**

OK

8	CHECK SOURCE VOLTAGE



(a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(b) Turn the ignition switch to the ON position.
(c) Measure the voltage and resistance according to the value (s) in the table below.
Voltage and Resistance

Tester connection	Condition	Specified condition
A20-5 (IG2) - Body ground	Ignition switch ON	10 to 14 V
A20-27 (E1) - Body ground	Always	Below 1 Ω
A20-28 (E2) - Body ground	Always	Below 1 Ω

NG → **REPAIR OR REPLACE WIRE HARNESS (BATTERY - COMBINATION METER ASSEMBLY)**

OK

9	PERFORM ACTIVE TEST BY INTELLIGENT TESTER (COMBINATION METER ASSEMBLY)

(a) Using the intelligent tester, perform the active test and check that the SRS warning light turns on and off.
OK:
The SRS warning light turns on and off in accordance with tester operation.

NG → **REPLACE COMBINATION METER ASSEMBLY**

OK

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

SRS Warning Light does not Come ON

DESCRIPTION

The SRS warning light is located on the combination meter assembly.
When the SRS is normal, the SRS warning light comes on for approximately 6 seconds after the ignition switch is turned from the LOCK position to the ON position, and then goes off automatically.
If there is a malfunction in the SRS, the SRS warning light comes on to inform the driver of the abnormality.
When terminals TC and CG of the DLC3 are connected, the DTC is displayed by blinking the SRS warning light.

WIRING DIAGRAM

RS

See page RS-285.

1	CHECK BATTERY

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

NG → **REPLACE BATTERY**

OK ↓

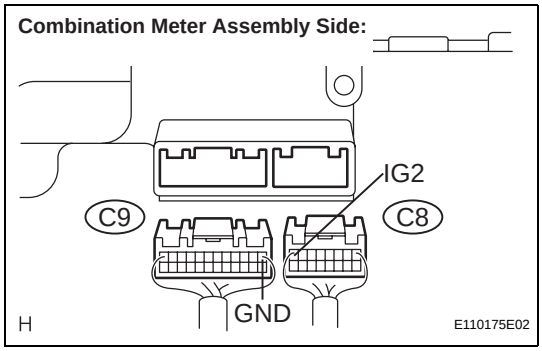
2	CHECK COMBINATION METER ASSEMBLY CONNECTOR

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the connector from the combination meter assembly.
(c) Check that the connector is not damaged.
OK:
The connector is not deformed or damaged.

NG → **REPAIR OR REPLACE WIRE HARNESS**

OK ↓

3	CHECK SOURCE VOLTAGE



(a) Measure the voltage and resistance according to the value (s) in the table below.
Voltage and Resistance

Tester connection	Condition	Specified condition
C8-8 (IG2) - Body ground	Ignition switch ON	10 to 14 V
C9-1 (GND) - Body ground	Always	Below 1 Ω

NG → **REPAIR OR REPLACE WIRE HARNESS (BATTERY - COMBINATION METER ASSEMBLY)**

OK

4	PERFORM ACTIVE TEST BY INTELLIGENT TESTER (COMBINATION METER ASSEMBLY)

(a) Using the intelligent tester, operate the active test and check that the SRS warning light turns on and off in accordance with tester operation.
OK:
The SRS warning light turns on and off in accordance with tester operation.

NG → **REPLACE COMBINATION METER ASSEMBLY**

RS

OK

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

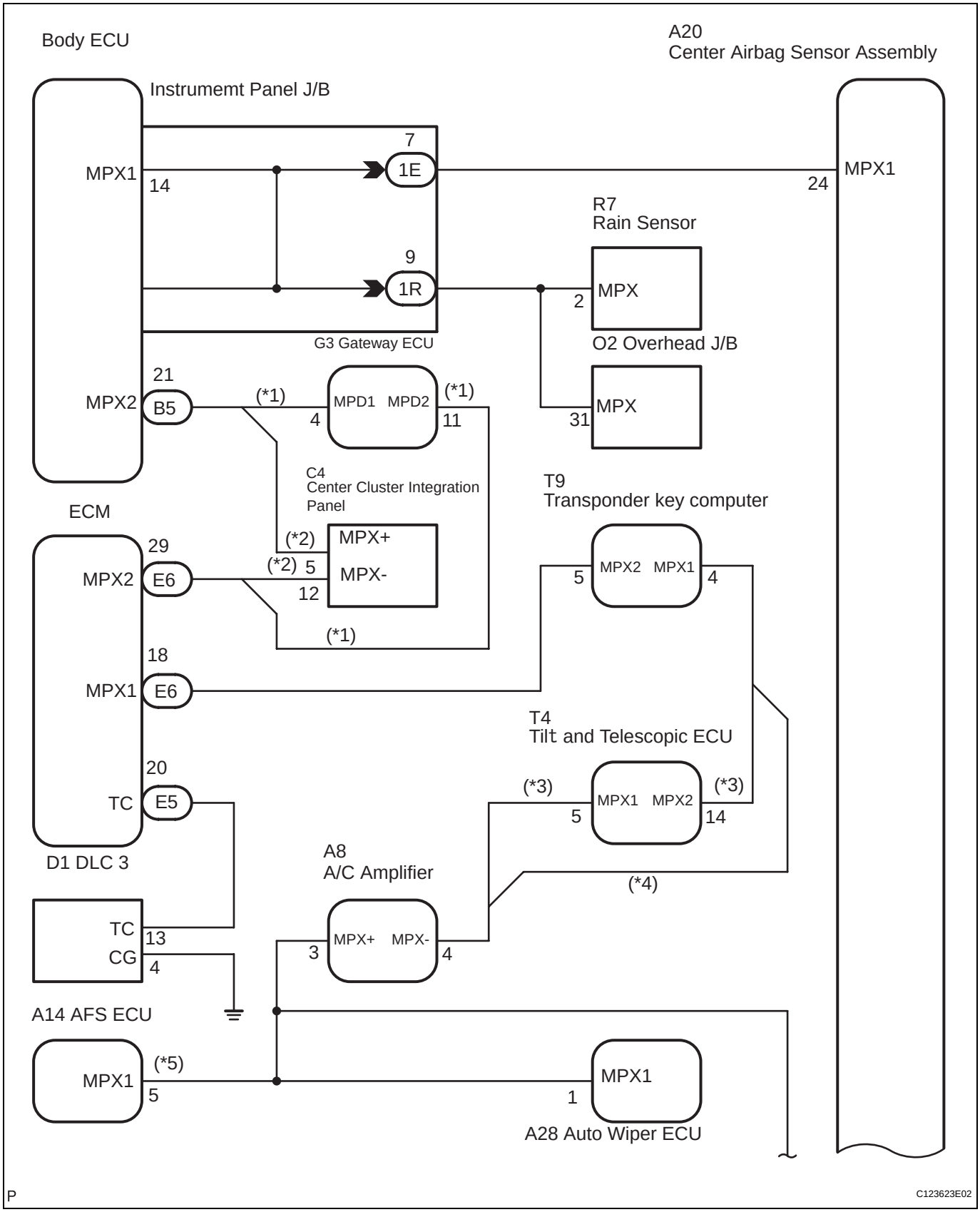
Diagnosis Circuit

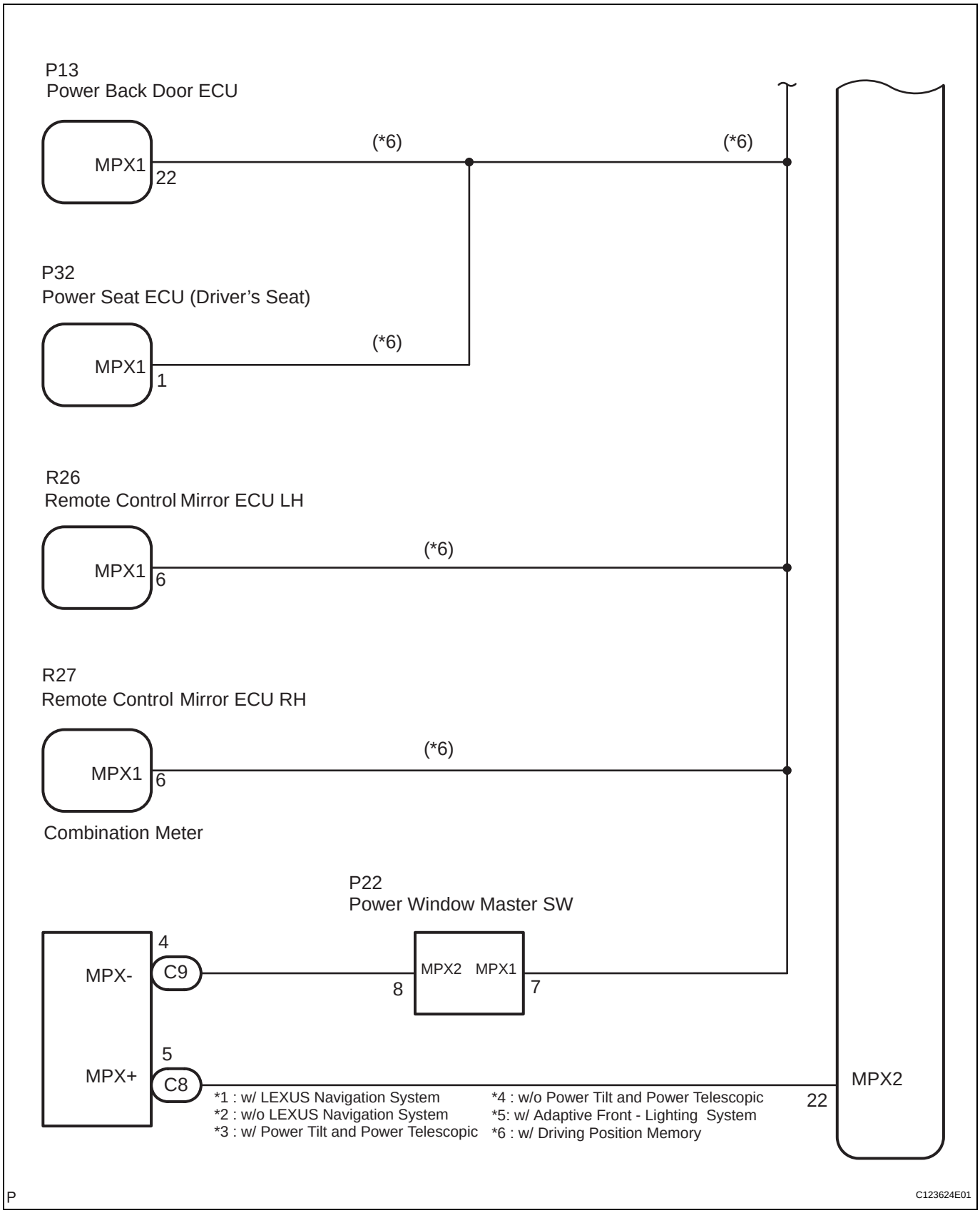
DESCRIPTION

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

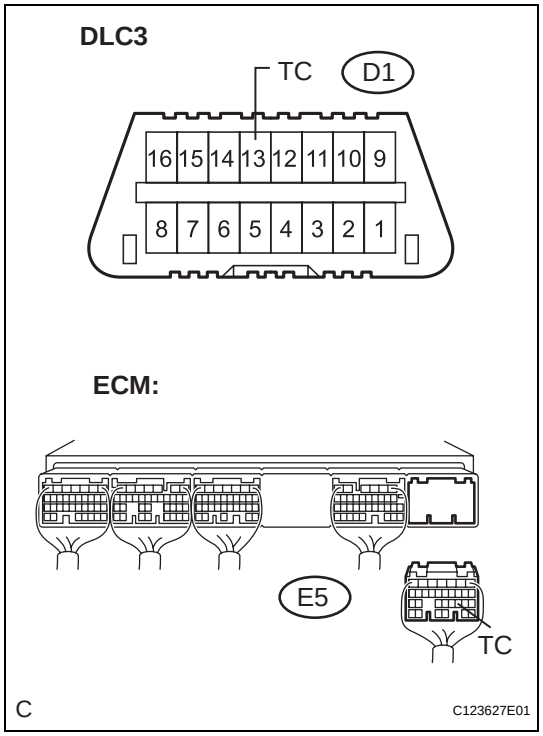
- Make sure that DTC B1281 has not been output. If DTC B1281 has been output, refer to the multiplex communication system.
- When each warning light stays blinking, a ground short in the wiring of terminal TC of the DLC3 or an internal ground short in each ECU is suspected.
- A DTC output mode signal is transmitted through BEAN to each ECU including the center airbag sensor assembly, except for the skid control ECU with actuator. Thus when all systems except the ABS system do not enter DTC output mode, it can be suspected that there is an ECM malfunction.

WIRING DIAGRAM




P13
Power Back Door ECU
MPX1
22
(*6)
(*6)
P32
Power Seat ECU (Driver's Seat)
MPX1
1
(*6)
R26
Remote Control Mirror ECU LH
MPX1
6
(*6)
R27
Remote Control Mirror ECU RH
MPX1
6
(*6)
Combination Meter
P22
Power Window Master SW
MPX-
4
C9
MPX2 MPX1
8
7
MPX+
5
C8
22
MPX2
*1 : w/ LEXUS Navigation System
*2 : w/o LEXUS Navigation System
*3 : w/ Power Tilt and Power Telescopic
*4 : w/o Power Tilt and Power Telescopic
*5: w/ Adaptive Front - Lighting System
*6 : w/ Driving Position Memory
P
C123624E01

1 CHECK WIRE HARNESS (DLC3 - ECM)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the center airbag sensor assembly connector.
(c) Measure the resistance according to the value(s) in the table below.

Resistance

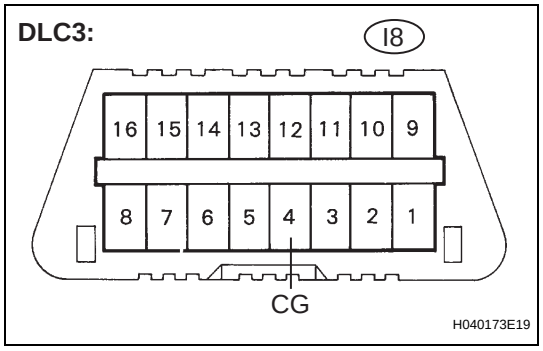
Tester connection	Condition	Specified condition
D1-13 (TC) - E5-20 (TC)	Always	Below 1 Ω

RS

NG → **REPAIR OR REPLACE WIRE HARNESS (TC OF DLC3 - TC OF ECM)**

OK

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



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

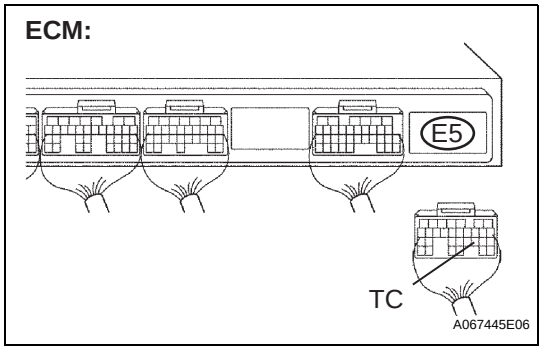
Resistance

Tester connection	Condition	Specified condition
D1-4 (CG) - Body ground	Always	Below 1 Ω

NG → **REPAIR OR REPLACE WIRE HARNESS (CG OF DLC3 - BODY GROUND)**

OK

3	CHECK WIRE HARNESS (TC OF ECM - BODY GROUND)



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

Resistance

Tester connection	Condition	Specified condition
E5-20 (TC) - Body ground	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE WIRE HARNESS OR EACH ECU**

OK

4	REPLACE ECM

(a) Check that the ECM.

Result:

A:
Normal system code is output.

B:
DTC is output.

C:
ECM does not set the DTC output mode.

A → **END**

B → **GO TO INSPECTION PROCEDURE OF DTC OUTPUT**

C

REPLACE CENTER AIRBAG SENSOR ASSEMBLY