

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.

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- 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

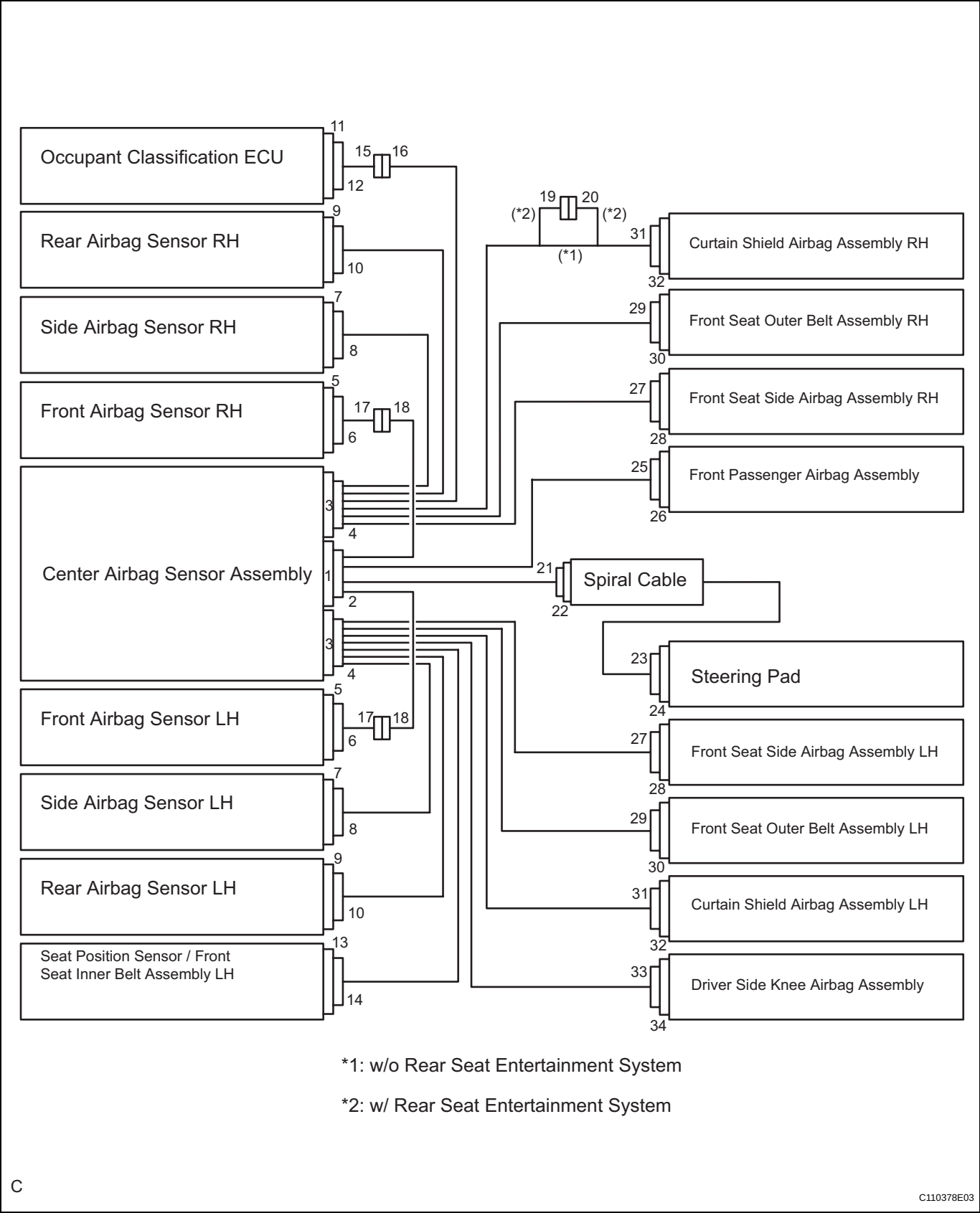
- (2) Adjustment of the front/rear doors of a vehicle equipped with a side airbag and curtain shield airbag (fitting adjustment)
- (b) When connecting or disconnecting the airbag sensor connectors, ensure that each sensor is installed in the vehicle.
- (c) Do not use the airbag sensors which have been 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.

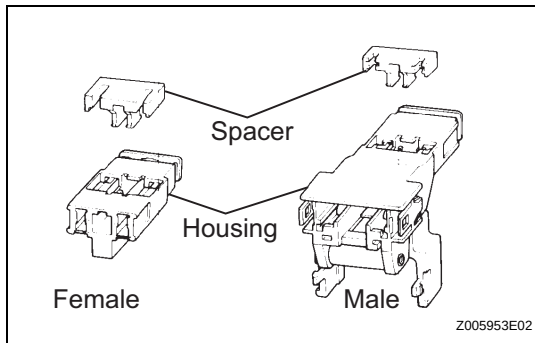
3. SRS CONNECTORS

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



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

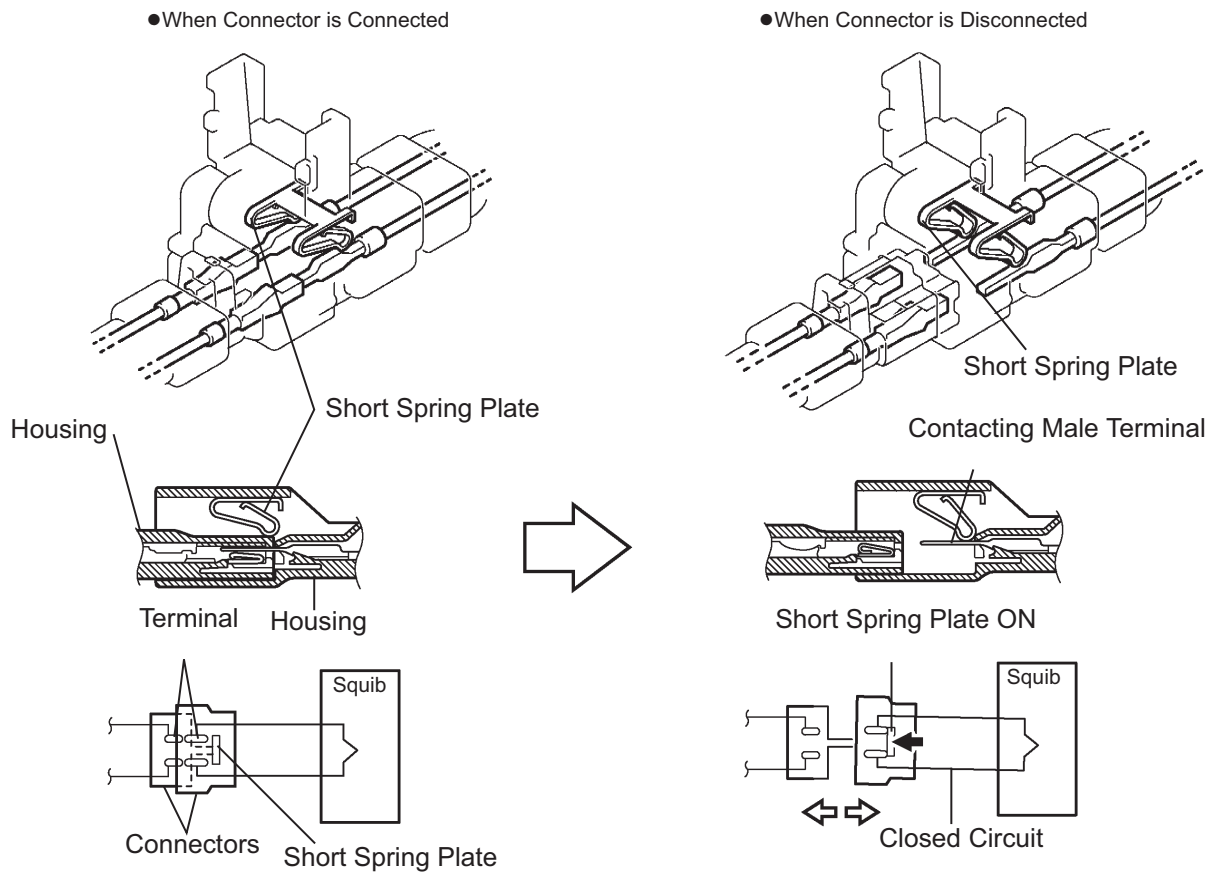


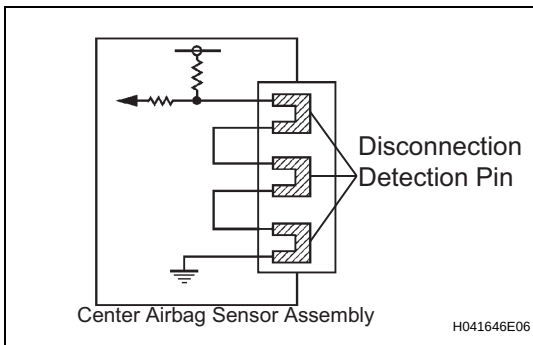
(b) All connectors in the SRS, except the seat position airbag sensor connector, are colored yellow to distinguish them from other connectors. These connectors have special functions, and are specially designed for the SRS. All SRS connectors use durable gold-plated terminals, and are placed in the locations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

(1) Terminal twin-lock mechanism:

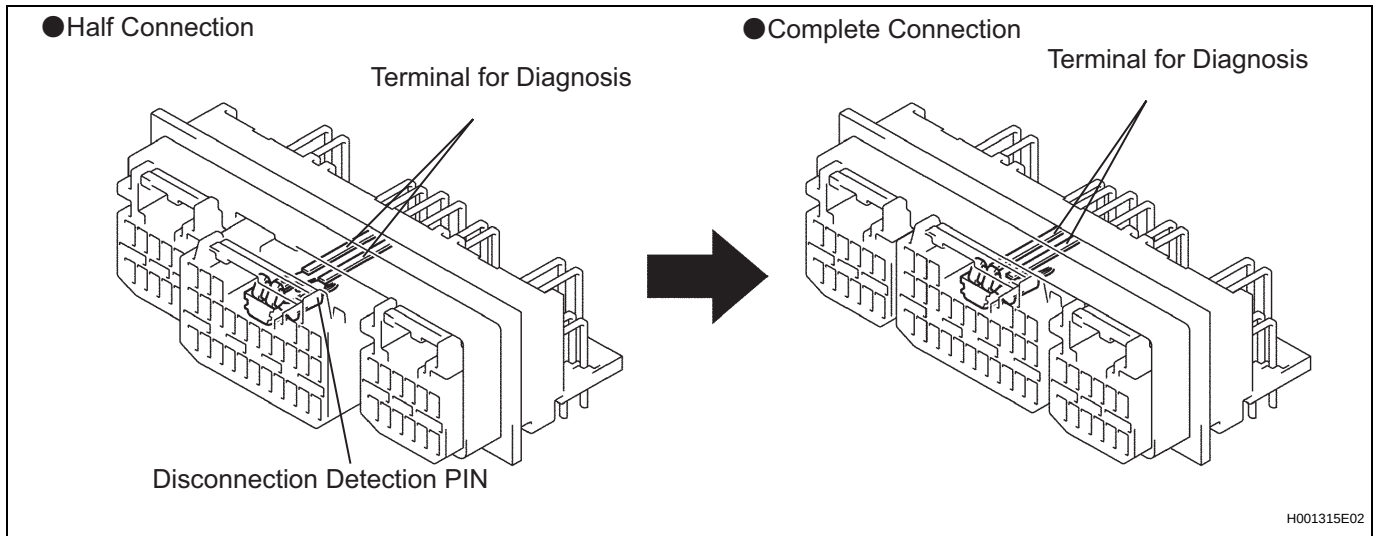
All connectors with a terminal twin-lock mechanism have a two-piece component consisting of a housing and a spacer. This design enables the terminal to be locked securely by two locking devices (the retainer and the lance) to prevent terminals from coming out.

- (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.

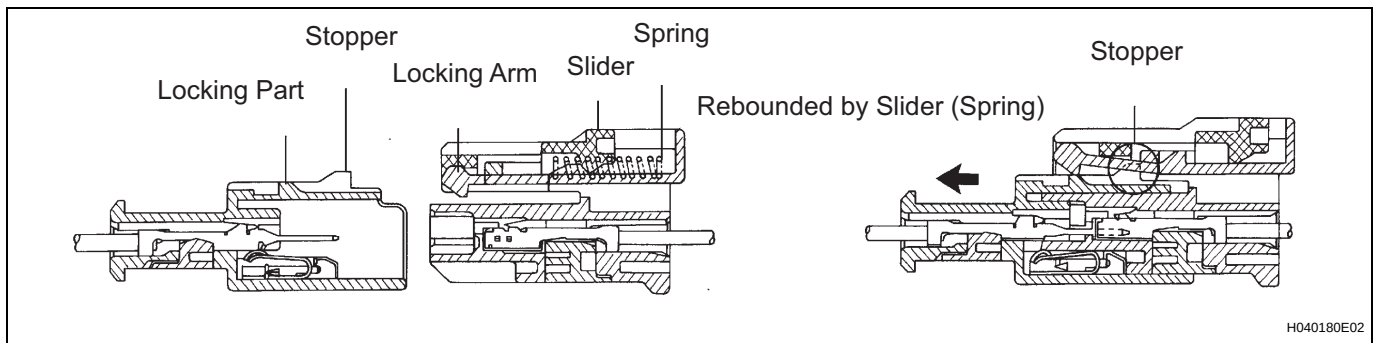




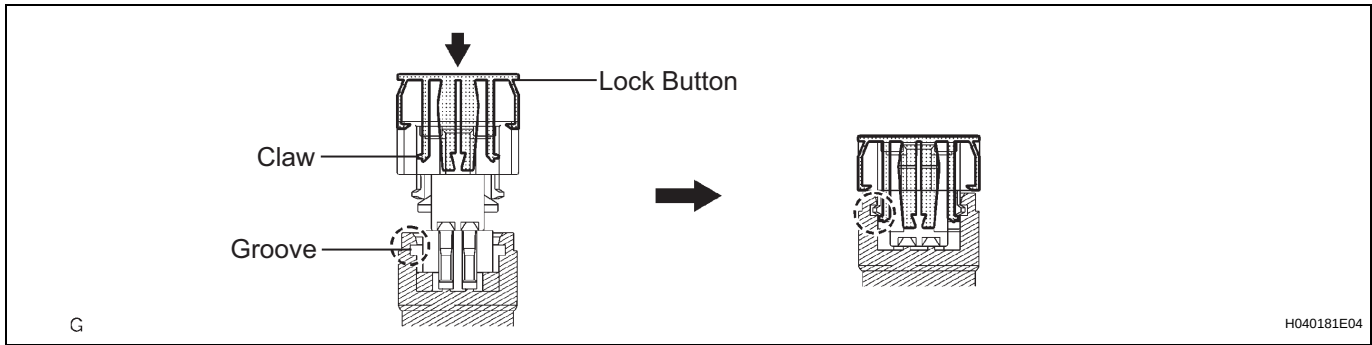
- (3) Electrical connection check mechanism:
This mechanism electrically checks that the connectors are connected correctly and completely. The electrical connection check mechanism is designed so that the disconnection detection pin connects with the diagnosis terminals when the connector housing lock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



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

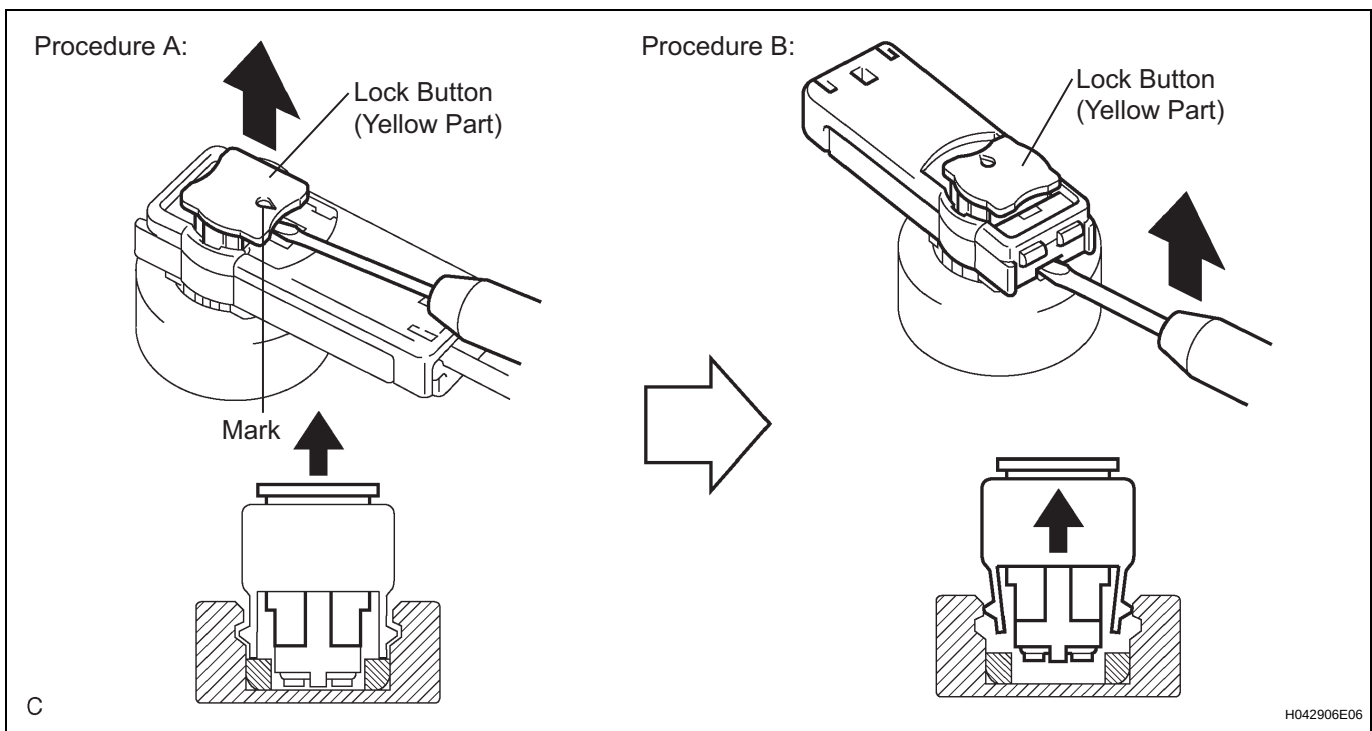


4. DISCONNECTION OF CONNECTORS FOR STEERING PAD, FRONT PASSENGER AIRBAG ASSEMBLY, DRIVER SIDE KNEE AIRBAG ASSEMBLY, CURTAIN SHIELD AIRBAG ASSEMBLY AND FRONT SEAT OUTER BELT ASSEMBLY

HINT:

Tape up the screwdriver tip before use.

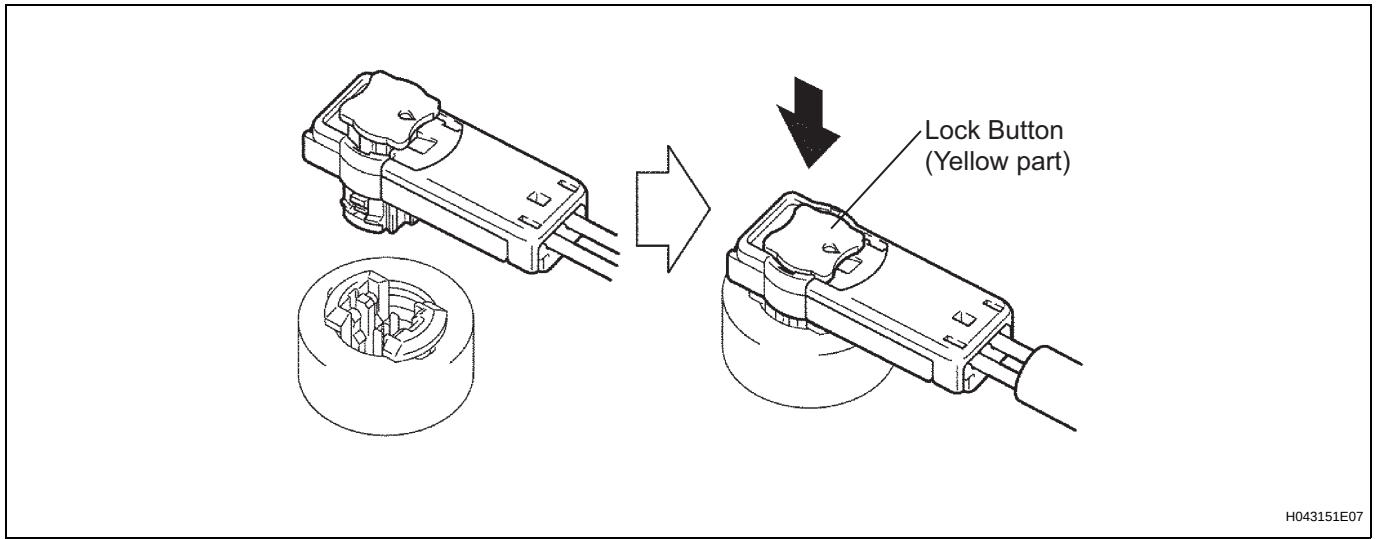
- Release the lock button (yellow part) of the connector using a screwdriver (Procedure A).
- Insert the screwdriver tip between the connector and the base, and then raise the connector (Procedure B).



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

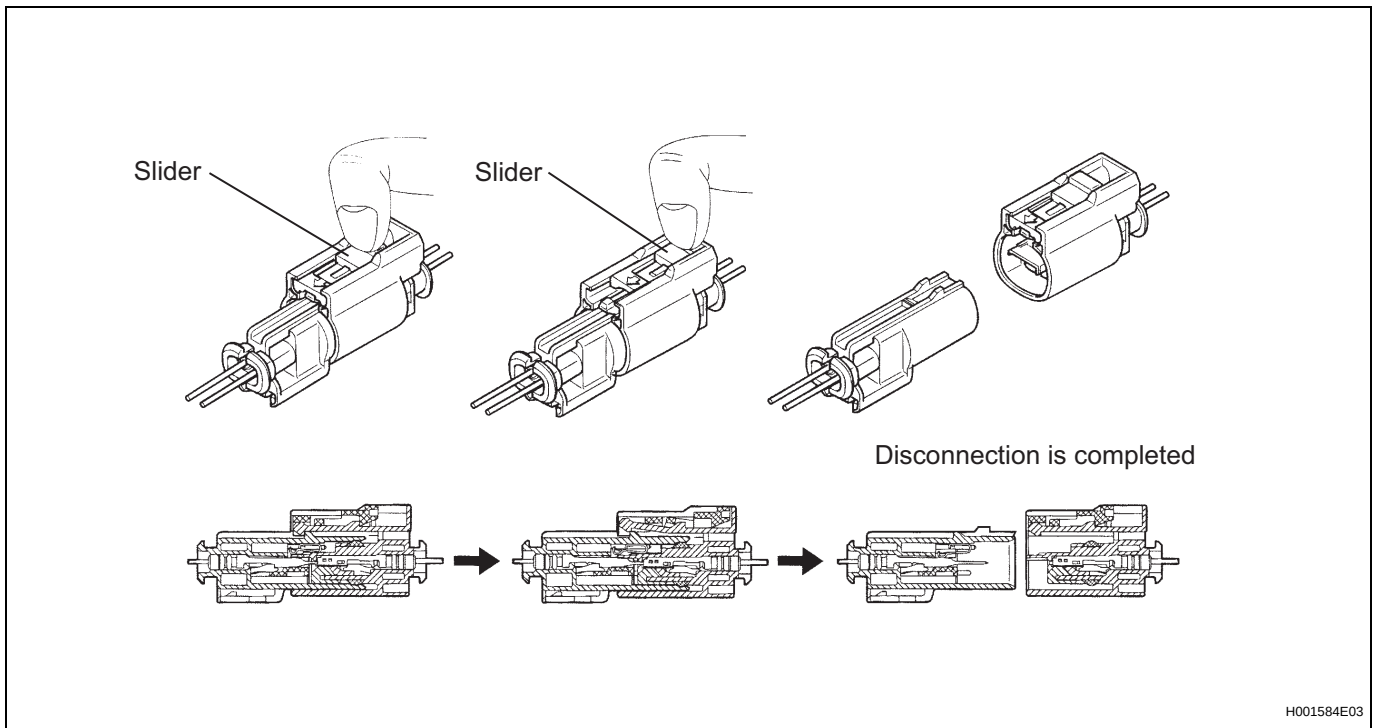
- Connect the connector.

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



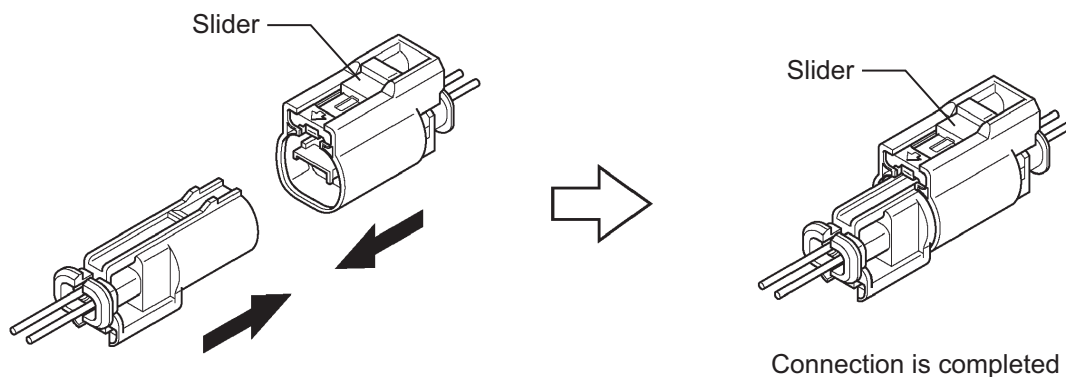
6. DISCONNECTION OF CONNECTOR FOR FRONT SEAT SIDE AIRBAG ASSEMBLY

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



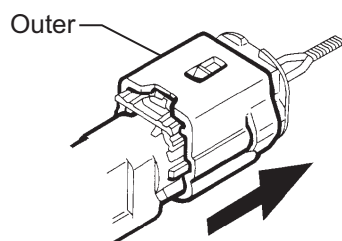
7. CONNECTION OF CONNECTOR FOR FRONT SEAT SIDE AIRBAG ASSEMBLY

- (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 slide. Be sure not to touch the slider while connecting, as it may result in an insecure fit.



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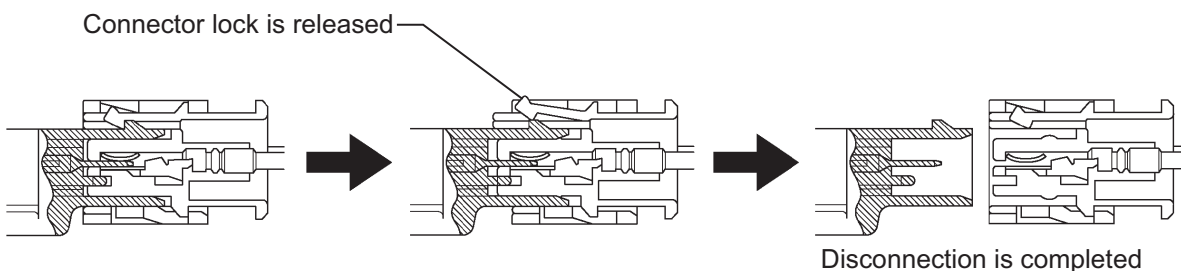
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8. DISCONNECTION OF CONNECTORS FOR FRONT AIRBAG SENSOR, SIDE AIRBAG SENSOR AND REAR AIRBAG SENSOR

- While holding both the sides of the outer connector locking sleeve, slide the outer in the direction shown by the arrow.
- When the connector lock is released, the connectors are disconnected.

HINT:

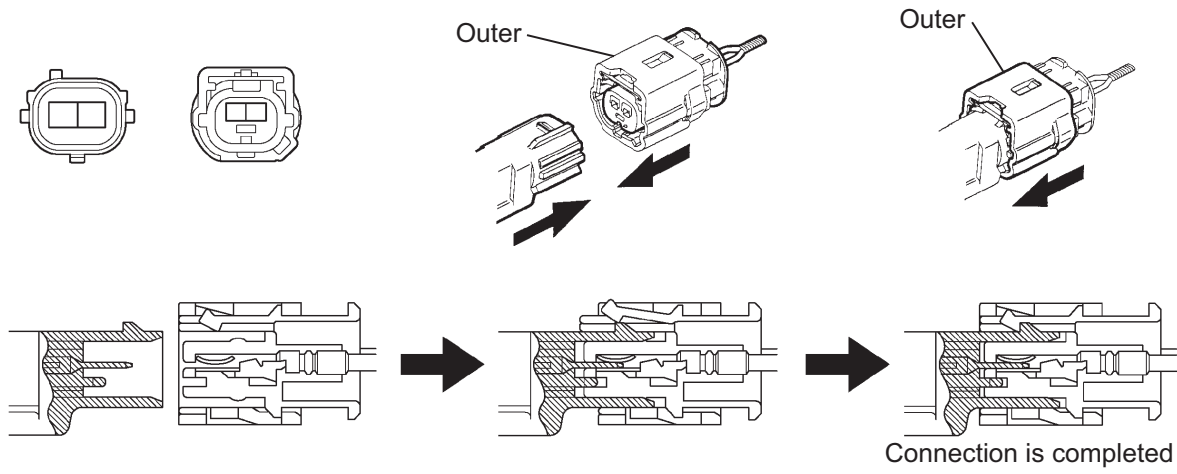
Be sure to hold both outer flank sides. Holding the top and bottom will make disconnection difficult.



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

- 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.



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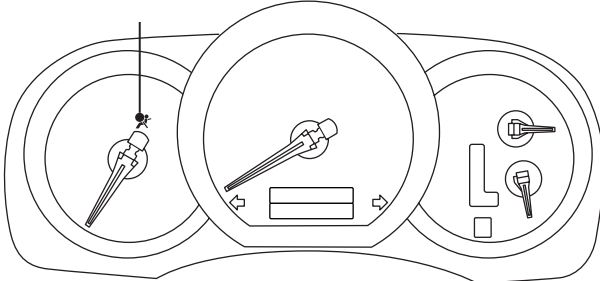
PARTS LOCATION

*1: w/o LEXUS NAVIGATION SYSTEM

*2: w/ LEXUS NAVIGATION SYSTEM

COMBINATION METER ASSEMBLY:

SRS WARNING LIGHT

**CENTER CLUSTER INTEGRATION SWITCH ASSEMBLY (*1):****MULTI-DISPLAY ASSEMBLY (*2):**

PASSENGER AIRBAG ON/OFF INDICATOR

FRONT AIRBAG SENSOR

SPIRAL CABLE

STEERING PAD

CURTAIN SHIELD
AIRBAG ASSEMBLYFRONT PASSENGER
AIRBAG ASSEMBLYCURTAIN SHIELD
AIRBAG ASSEMBLYFRONT SEAT SIDE
AIRBAG ASSEMBLYSIDE AIRBAG
SENSORFRONT AIRBAG
SENSORDRIVER SIDE KNEE
AIRBAG ASSEMBLY

SIDE AIRBAG SENSOR

FRONT SEAT OUTER
BELT ASSEMBLY

SEAT POSITION SENSOR

FRONT SEAT SIDE AIRBAG ASSEMBLY

CENTER AIRBAG SENSOR ASSEMBLY

FRONT SEAT INNER BELT ASSEMBLY

REAR AIRBAG SENSOR

FRONT SEAT OUTER BELT ASSEMBLY

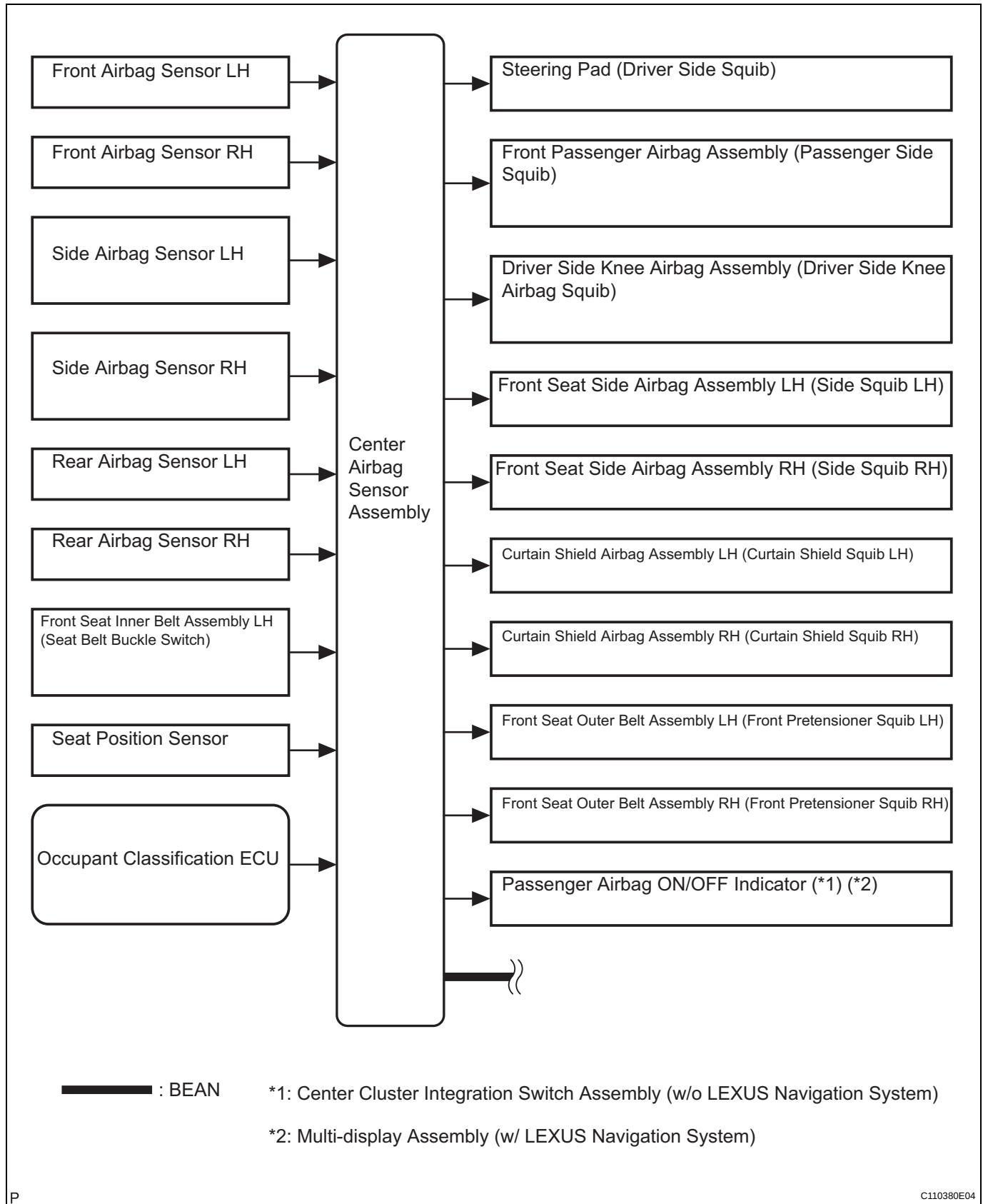
REAR AIRBAG SENSOR

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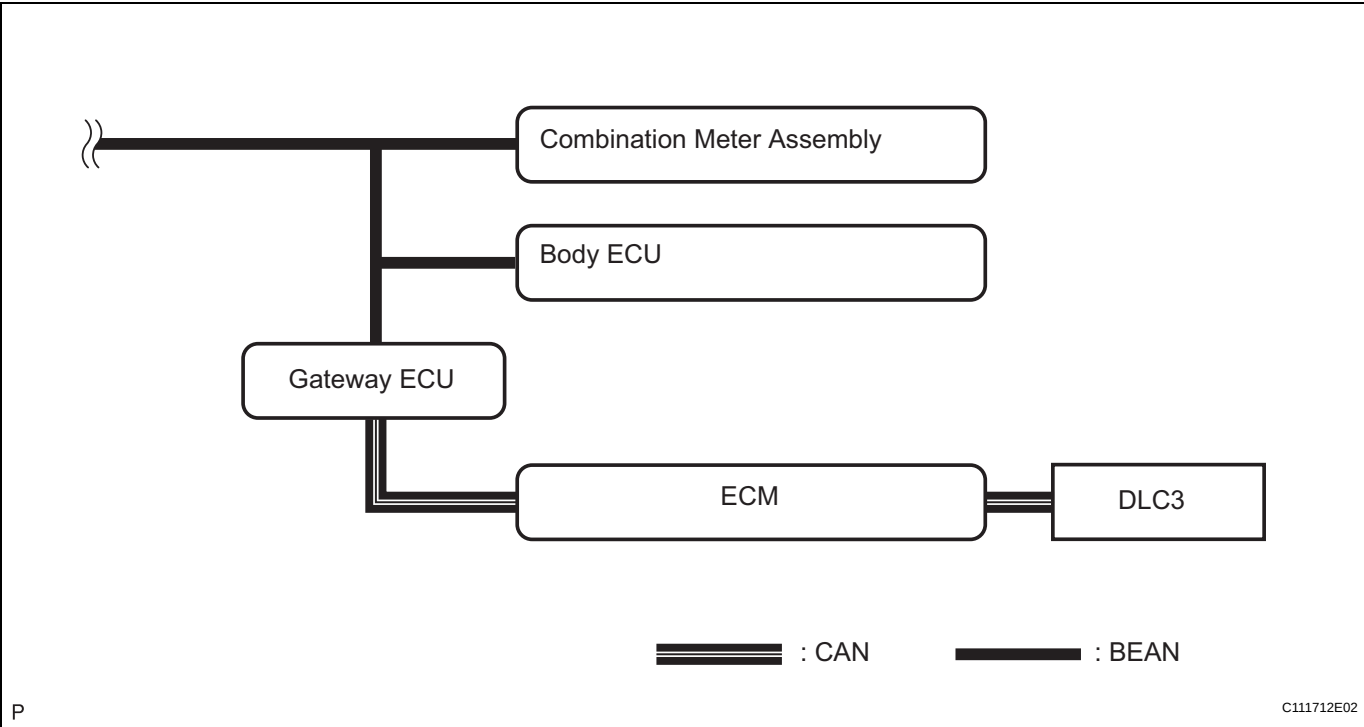
RS

SYSTEM DIAGRAM



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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.

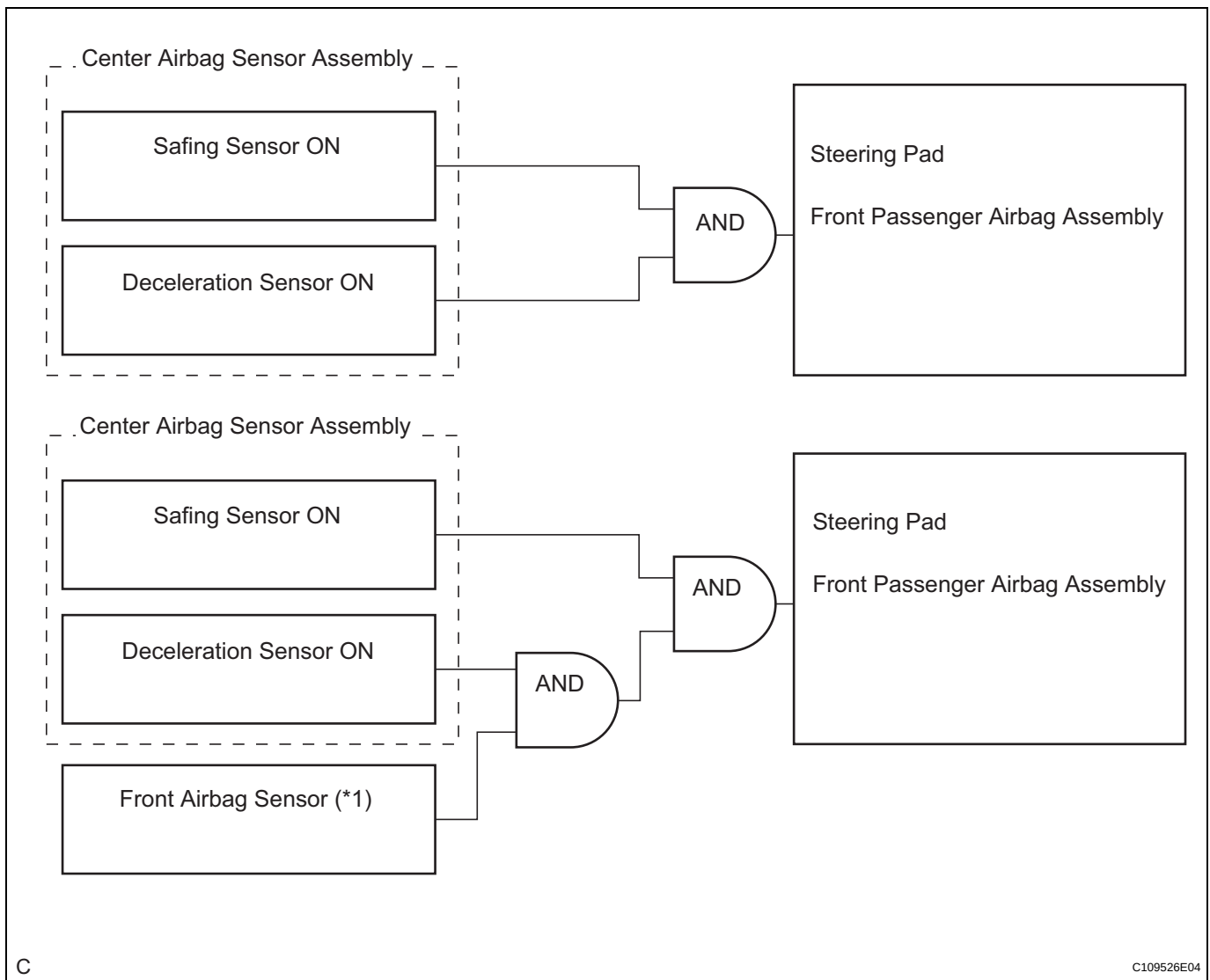
- The center airbag sensor assembly receives signals from the deceleration sensor and safing sensor built into the center airbag sensor assembly and front airbag sensor. Then the center airbag sensor assembly determines whether or not the driver airbag, front passenger airbag, driver side knee airbag 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.

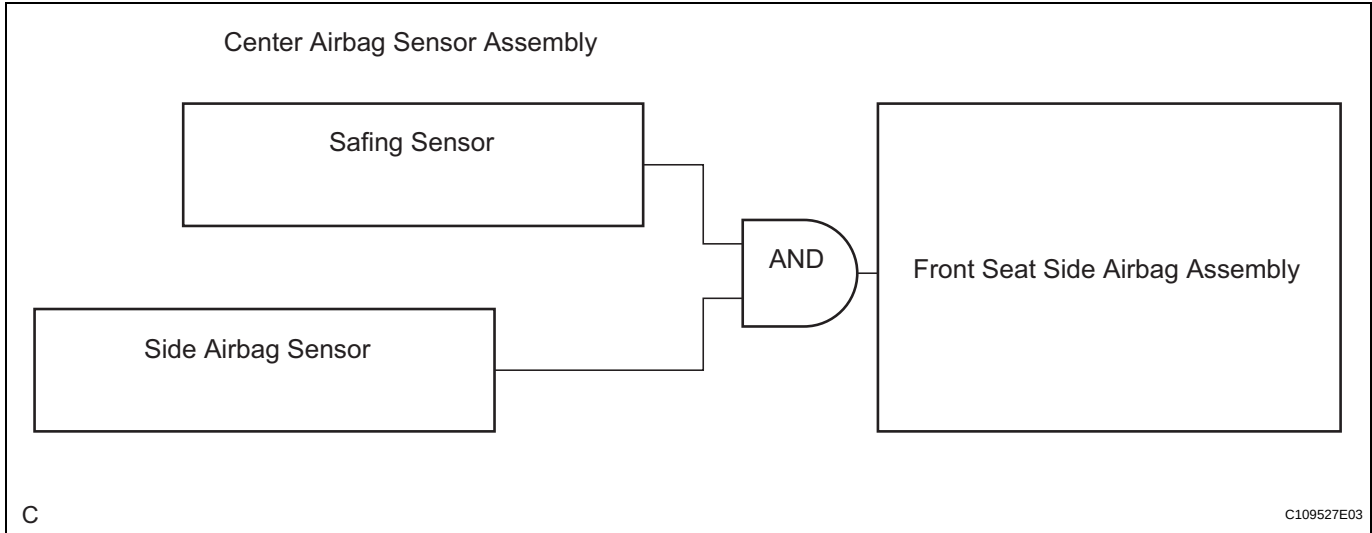
- (a) The center airbag sensor assembly determines whether or not ignition is necessary based on signals from the deceleration sensor and the front airbag sensor (*1). If the safing sensor and deceleration sensor turn on simultaneously, current flows to the squibs to deploy the SRS as shown in the illustration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

RS

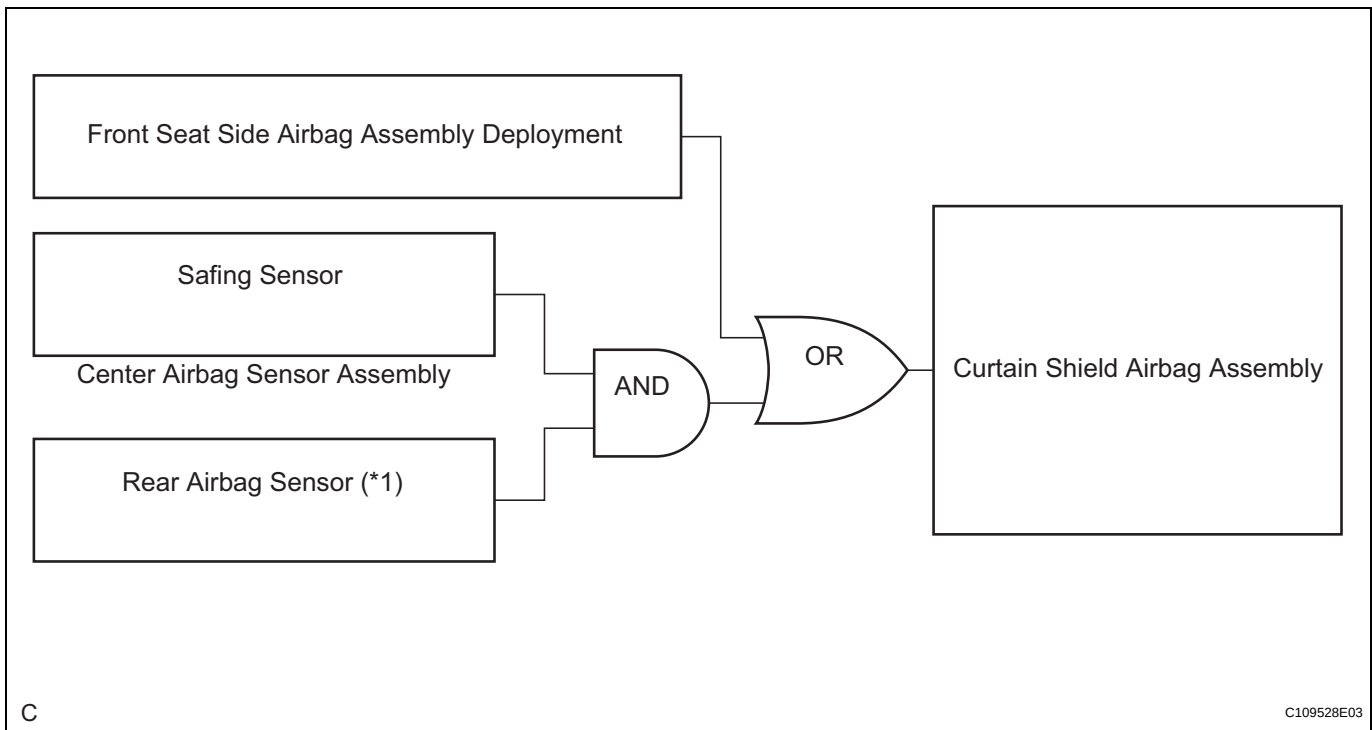
HINT:

*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.



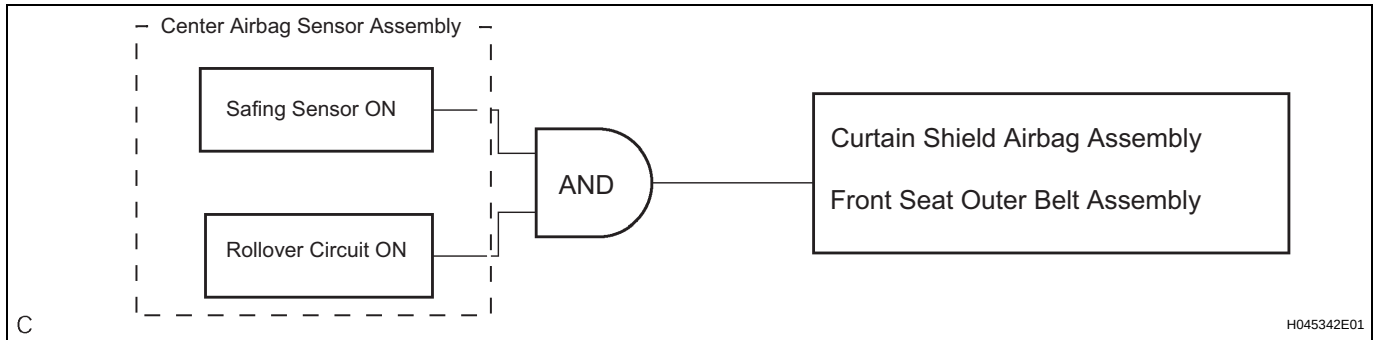
- (c) The center airbag sensor assembly determines whether or not ignition is necessary based on signals from the rear airbag sensor. If the safing sensor and rear airbag sensor turn on simultaneously, current flows to the squib to deploy the SRS as shown in the illustration below (*1).



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

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PROBLEM SYMPTOMS TABLE

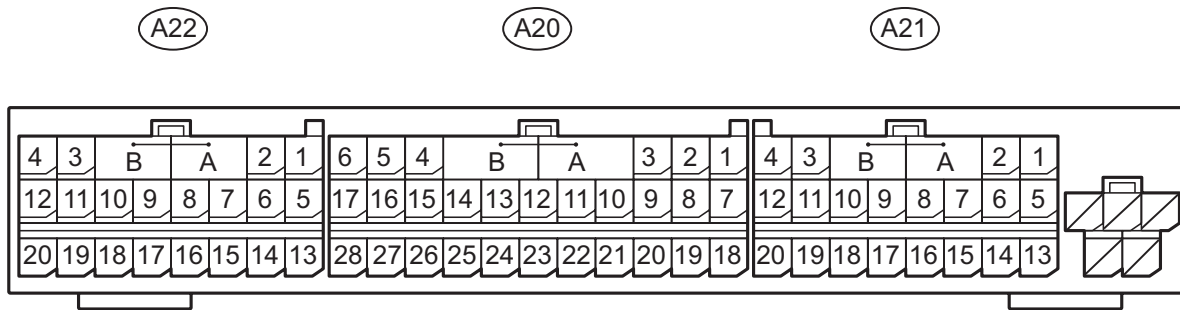
HINT:
Proceed with troubleshooting of each circuit in the table below.

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



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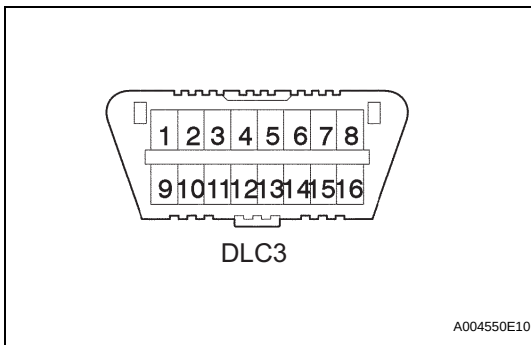
Terminal No.	Terminal Symbol	Terminal Description
A	-	Half Connection Detection Mechanism
B	-	Half Connection Detection Mechanism
A20-1	P-AB	Passenger Airbag ON/OFF Indicator
A20-4	GSW	Body ECU
A20-5	IG2	IGN Fuse
A20-7	P2-	Front Passenger Airbag Assembly (Passenger Side Squib 2nd Step)
A20-8	P2+	Front 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 M Ω or higher
CANH (6) - CG (4)	HIGH-level CAN bus line	Ignition switch off	3 M Ω or higher
CANL (14) - Battery positive	LOW-level CAN bus line	Ignition switch off	1 M Ω or higher
CANL (14) - CG (4)	LOW-level CAN bus line	Ignition switch off	3 M Ω or higher

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.

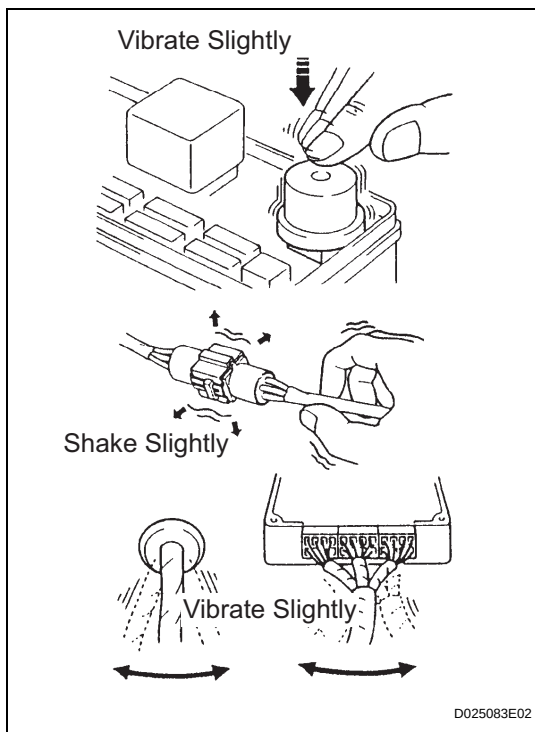
- If communication is normal when the tool is connected to another vehicle, inspect the DLC3 on the original vehicle.
- If communication is still not possible when the tool is connected to another vehicle, the problem is probably in the tool itself. Consult the Service Department listed in the tool's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

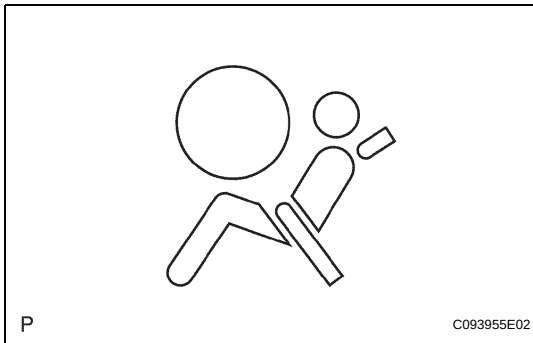
The SRS warning light comes on only for the primary check period (for approximately 6 seconds after the ignition switch is turned to the ON position).

(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

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

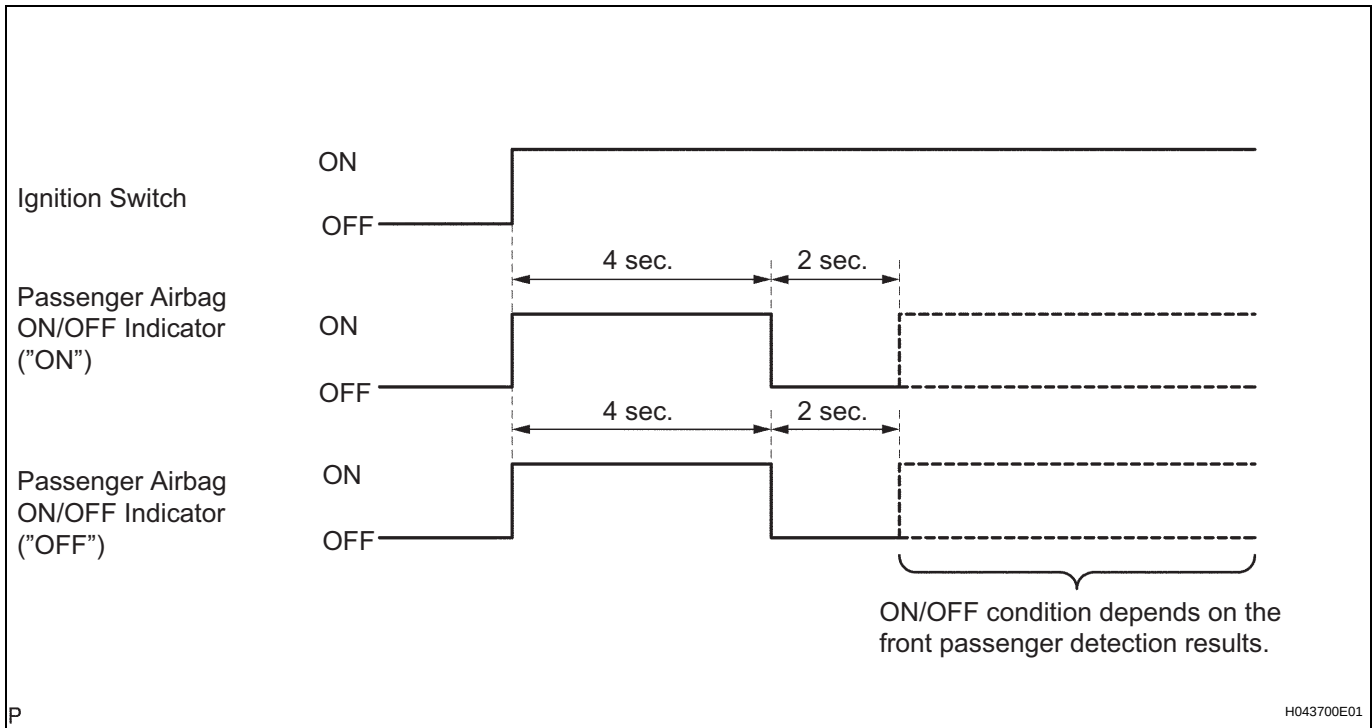
5. FUNCTION OF PASSENGER AIRBAG ON/OFF INDICATOR

- Initial check
 - Turn the ignition switch to the ON position.
 - The passenger airbag ON/OFF indicator comes on for approximately 4 seconds, then goes off for approximately 2 seconds.
 - 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.

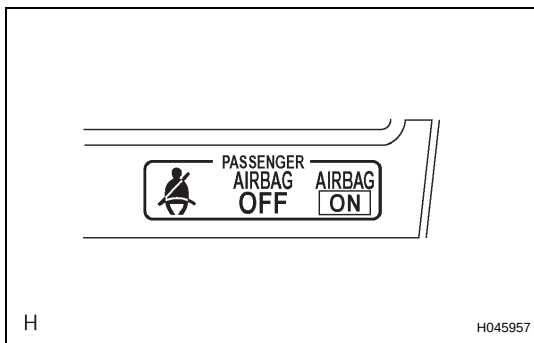
Condition	"ON" indicator	"OFF" indicator
Vacant	OFF	OFF
Adult is seated.	ON	OFF
Child is seated.	OFF	ON
Child restraint system is set.	OFF	ON
Front passenger occupant classification failure	OFF	ON

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

- Turn the ignition switch to the ON position.
- 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

- FUNCTION OF ACTIVATION PREVENTION MECHANISM
 - 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.

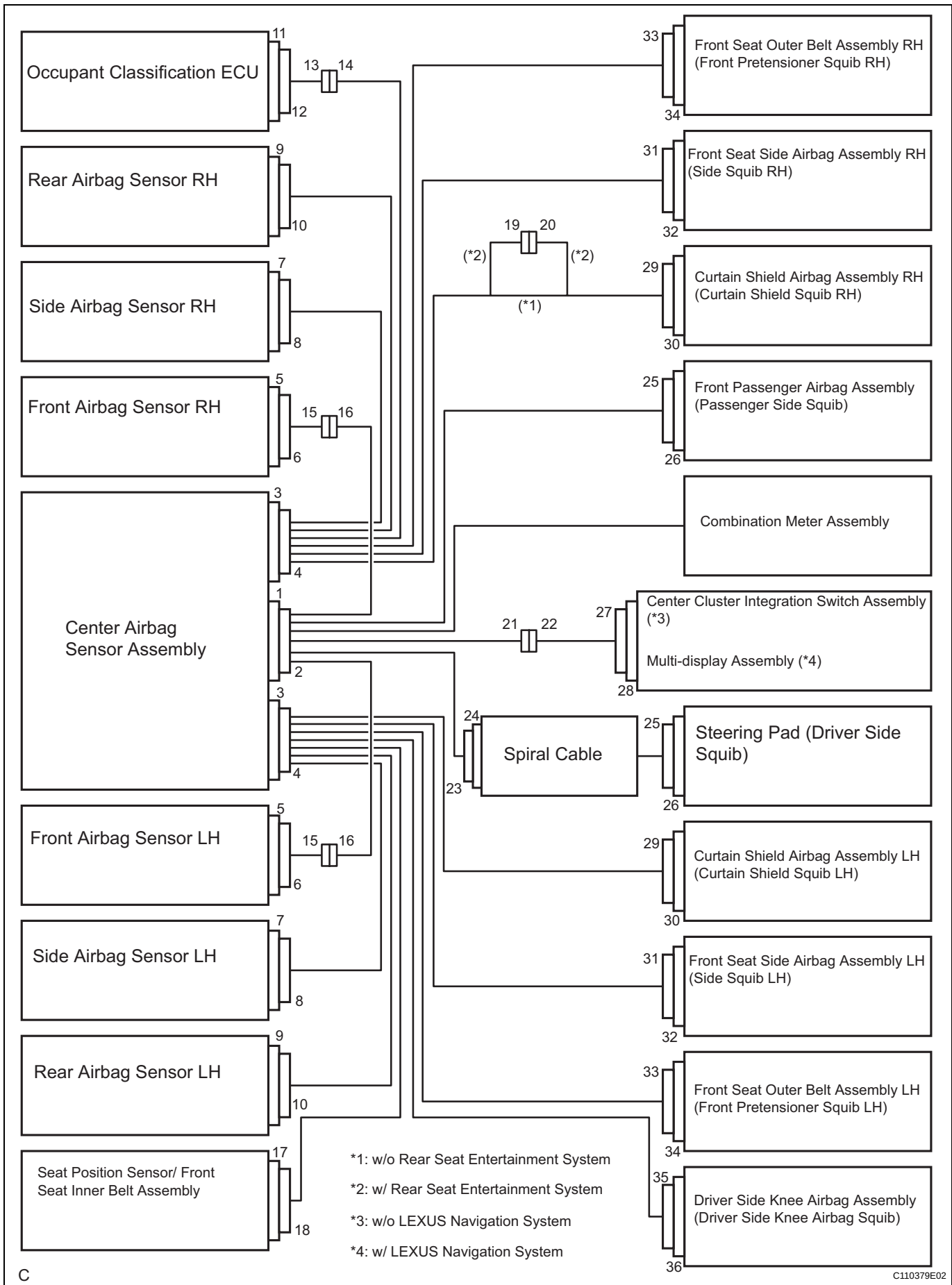
CAUTION:

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

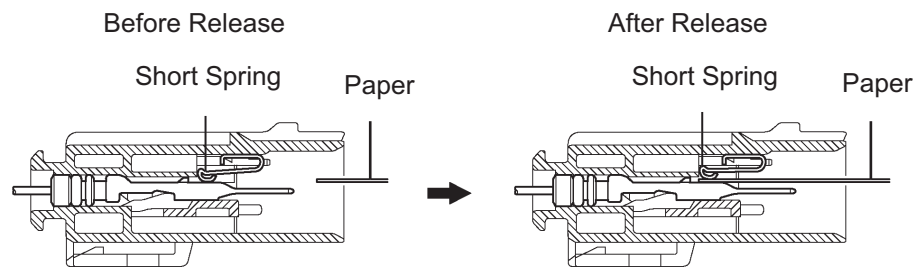
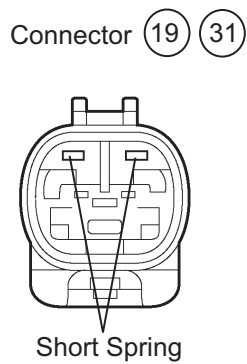
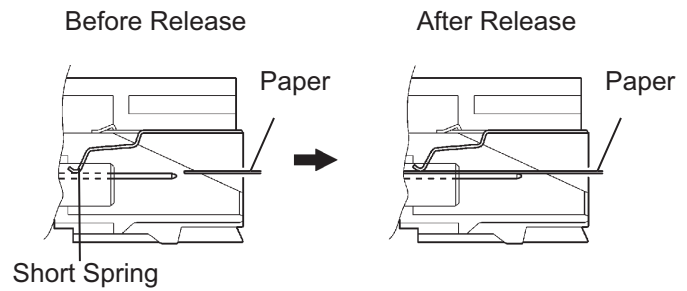
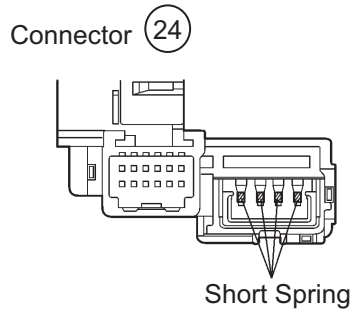
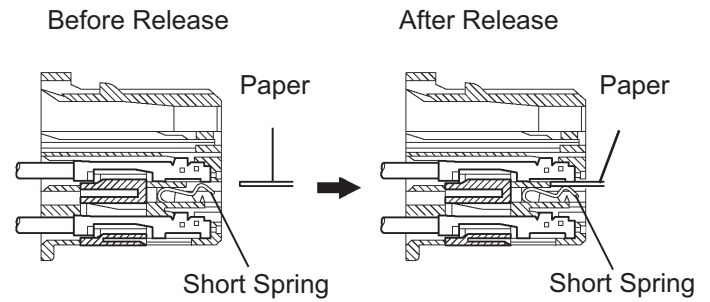
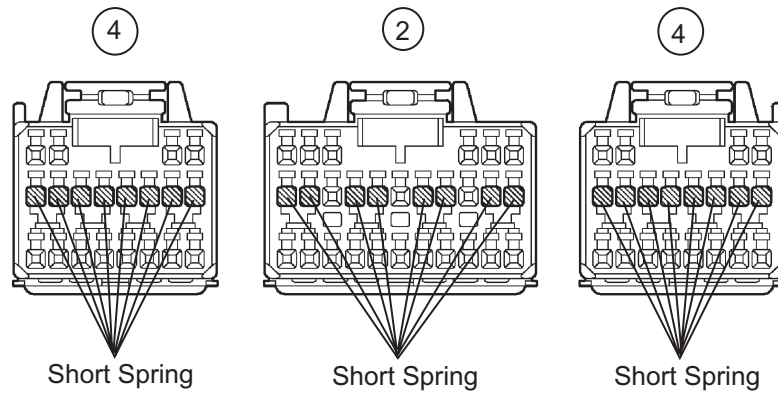
NOTICE:

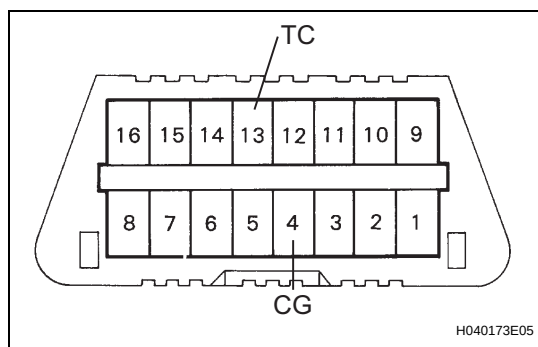
- Do not release the activation prevention mechanism unless specially directed by the troubleshooting procedure.
- To prevent the terminal and the short spring from becoming damaged, always use a piece of paper with the same thickness as the male terminal.

RS



Center Airbag Sensor Assembly





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

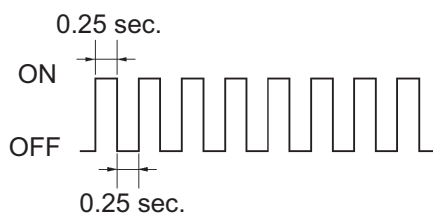
The first two blinkings indicate the first DTC. The second blinking occurs after a 1.5-second pause.

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.

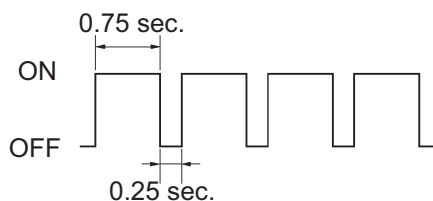
HINT:

- 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](#)).

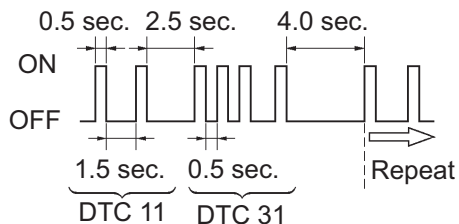
Normal System Code (w/o Past Trouble Code)



Normal System Code (w/ Past Trouble Code)



Trouble Code (Example Codes 11 and 31)



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.

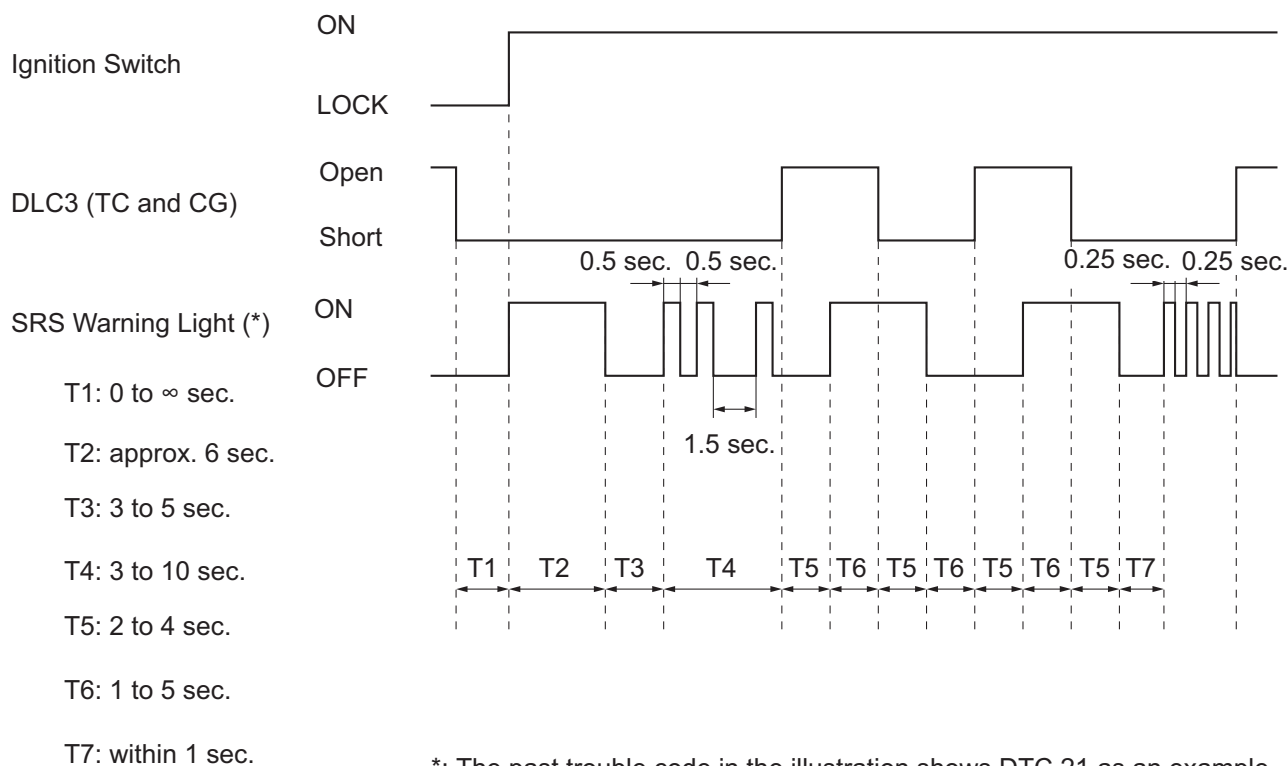
SST 09843-18040

- (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.

RS

- (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.

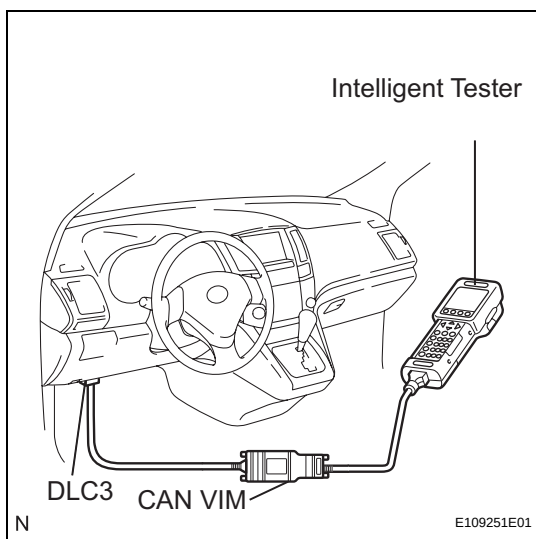
RS



*: The past trouble code in the illustration shows DTC 21 as an example.

C

C109537E02



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.

RS

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

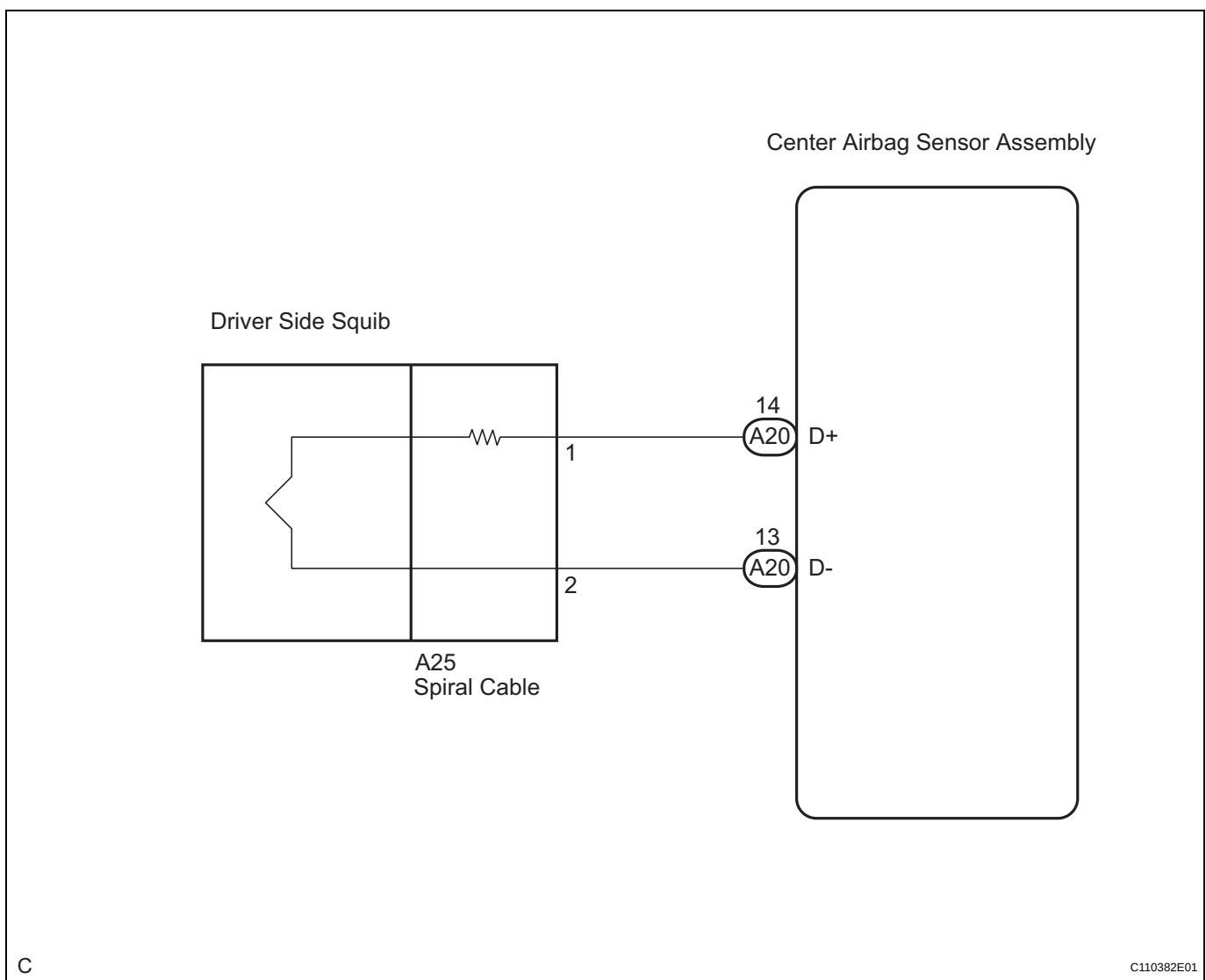
DTC No.	Detection Item	Trouble Area	SRS Warning Light	See page
B1161/84	Open in Curtain Shield Squib RH Circuit	1. Curtain shield airbag assembly RH (Curtain shield squib RH) 2. Center airbag sensor assembly 3. Floor wire 4. Roof wire No.2	Blink	RS-207
B1162/81	Short to GND in Curtain Shield Squib RH 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

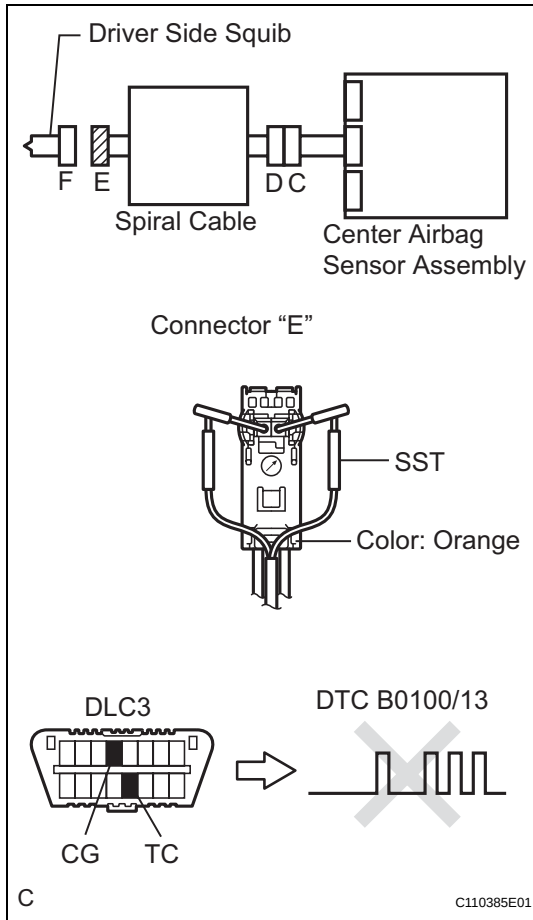
DTC**B0100/13****Short in Driver Side Squib Circuit****DESCRIPTION**

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)



- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the steering pad.
- Connect the white wire side of SST (resistance 2.1Ω) 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page RS-32).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the SST (resistance 2.1Ω) from the spiral cable.
- Check that the spiral cable connectors (on the steering pad side) are not damaged.

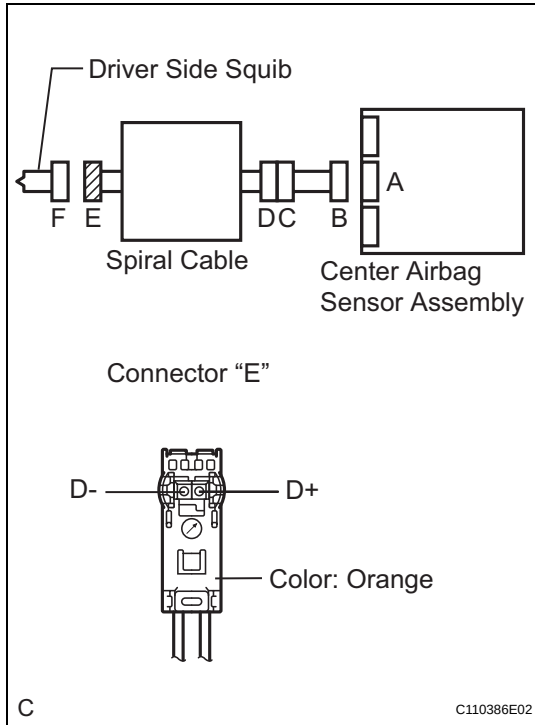
OK:

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

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

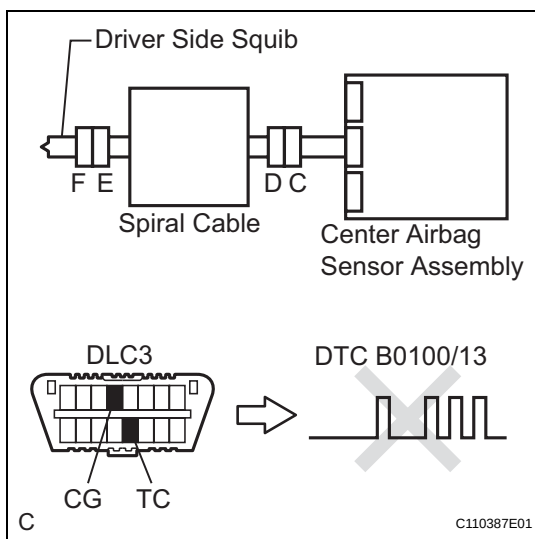
Resistance

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

NG

Go to step 5

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY

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

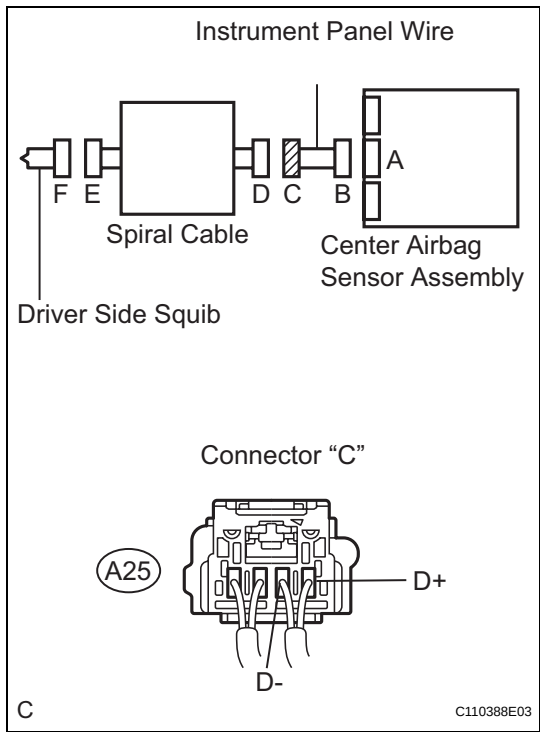
REPLACE CENTER AIRBAG SENSOR ASSEMBLY

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

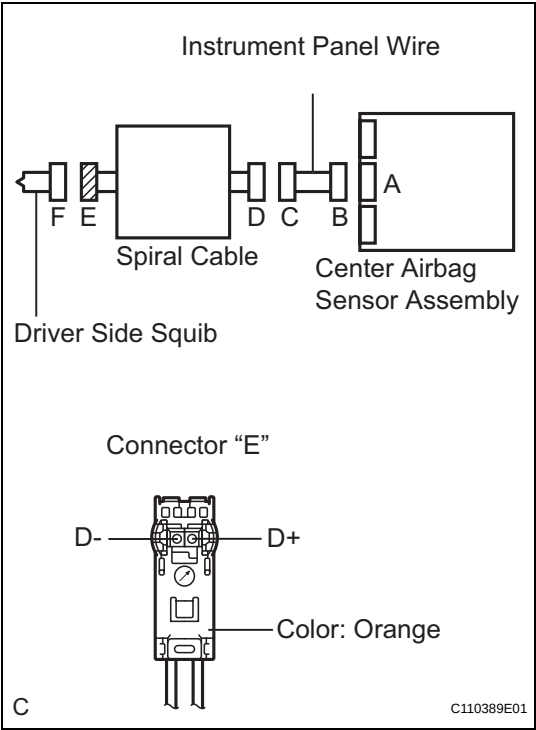
Tester connection	Condition	Specified condition
A25-1 (D+) - A25-2 (D-)	Always	1 MΩ or higher

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

RS

OK

USE SIMULATION METHOD TO CHECK

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.

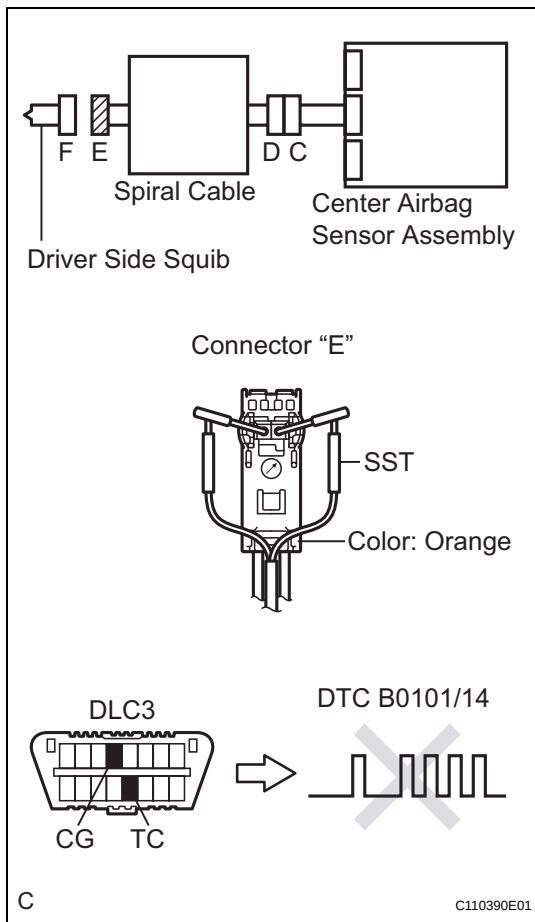
The circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the steering pad.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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.

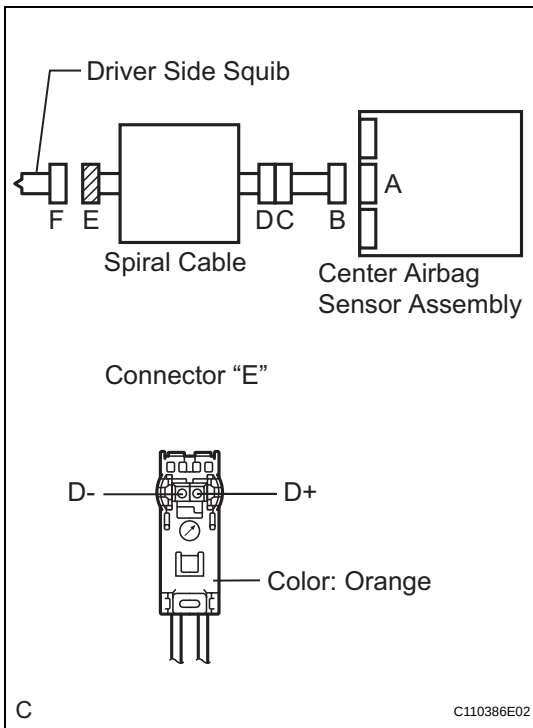
NG**Go to step 2**

OK

REPLACE SPIRAL CABLE

2

CHECK DRIVER SIDE SQUIB CIRCUIT



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

Resistance

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

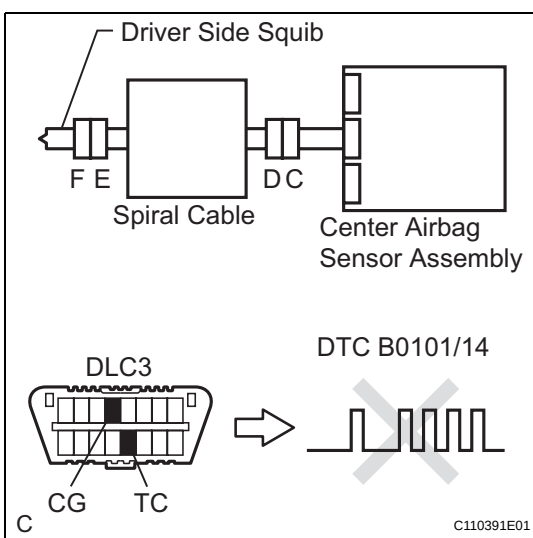
NG

Go to step 4

OK

3

CHECK CENTER AIRBAG SENSOR ASSEMBLY



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

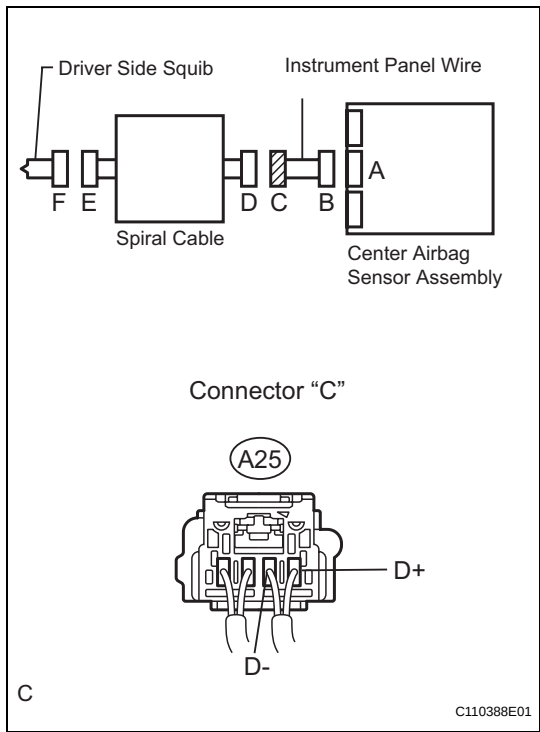
NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

4 CHECK INSTRUMENT PANEL WIRE



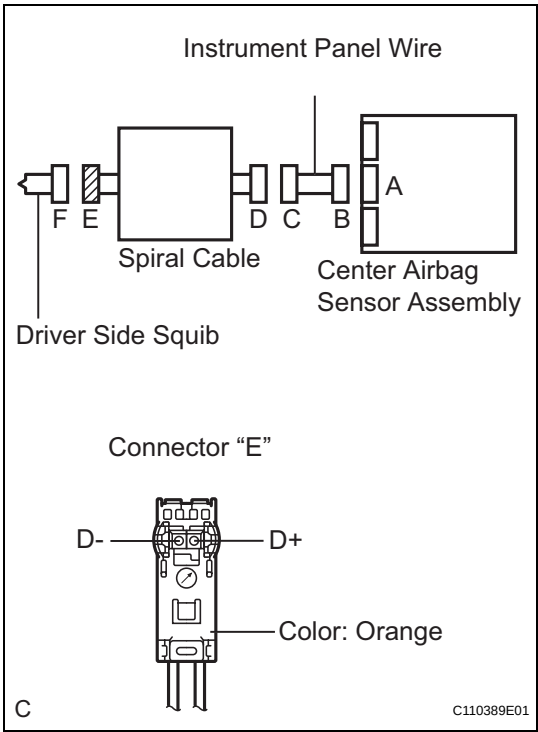
- (a) Disconnect the instrument panel wire connector from the spiral cable.
 - (b) Measure the resistance according to the value(s) in the table below.
- Resistance**

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.

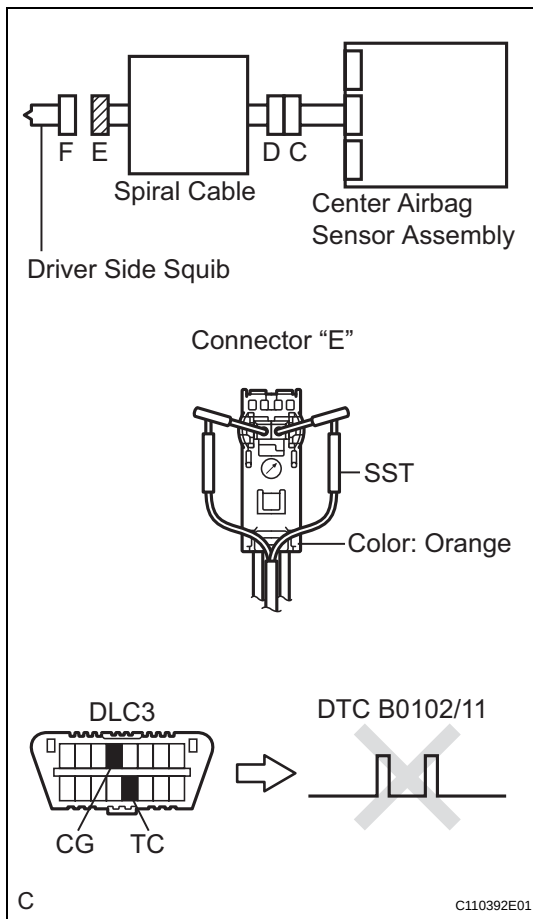
The circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the steering pad.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (See page [RS-32](#)).

OK:

DTC B0102/11 is not output.

HINT:

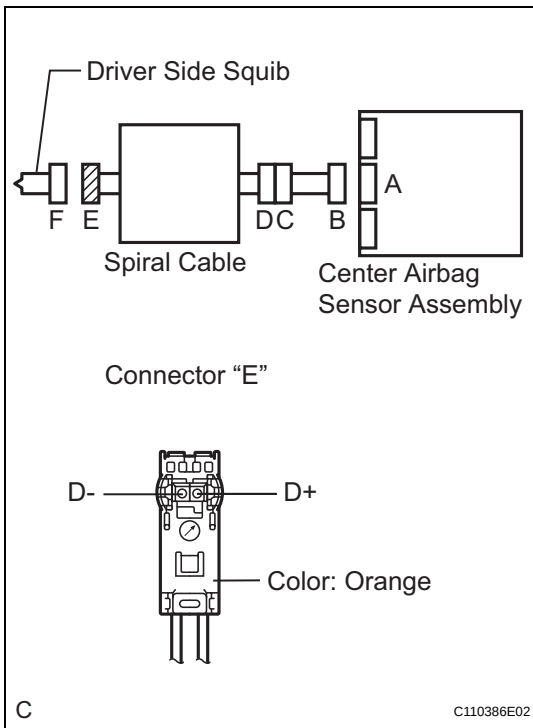
Codes other than DTC B0102/11 may be output at this time, but they are not related to this check.

NG**Go to step 2**

OK

REPLACE SPIRAL CABLE

2 CHECK DRIVER SIDE SQUIB CIRCUIT



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

Resistance

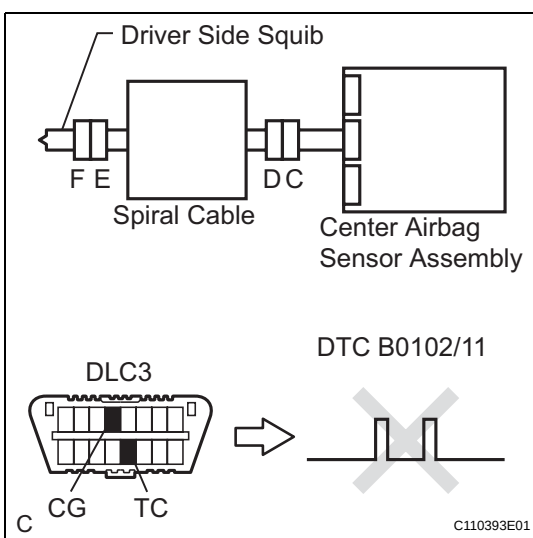
Tester connection	Condition	Specified condition
D+ - Body ground	Always	1 MΩ or higher
D- - Body ground	Always	1 MΩ or higher

NG

Go to step 4

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



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

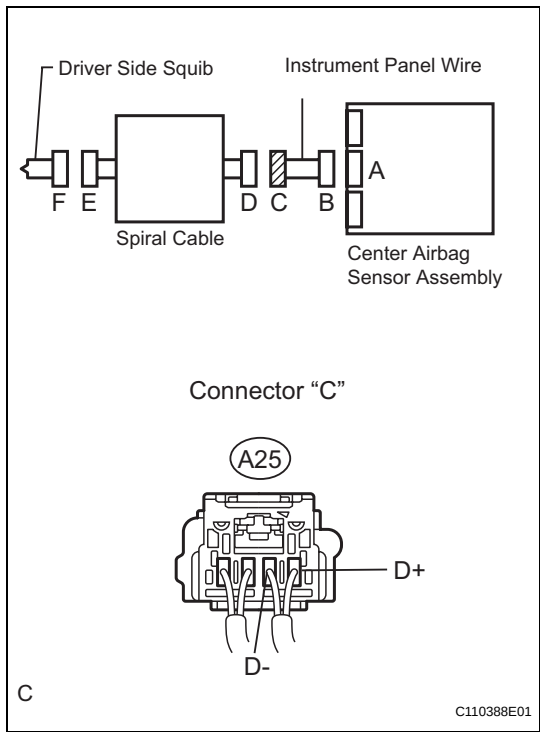
NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

4 CHECK INSTRUMENT PANEL WIRE



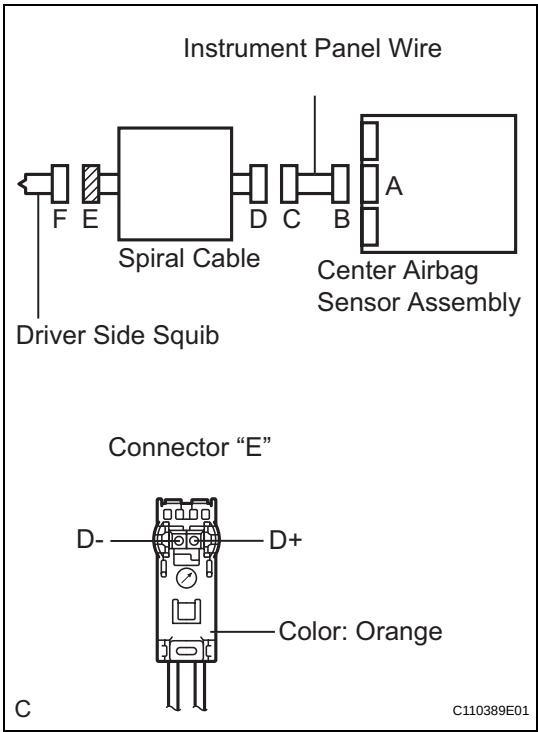
- (a) Disconnect the instrument panel wire connector from the spiral cable.
 - (b) Measure the resistance according to the value(s) in the table below.
- Resistance**

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.

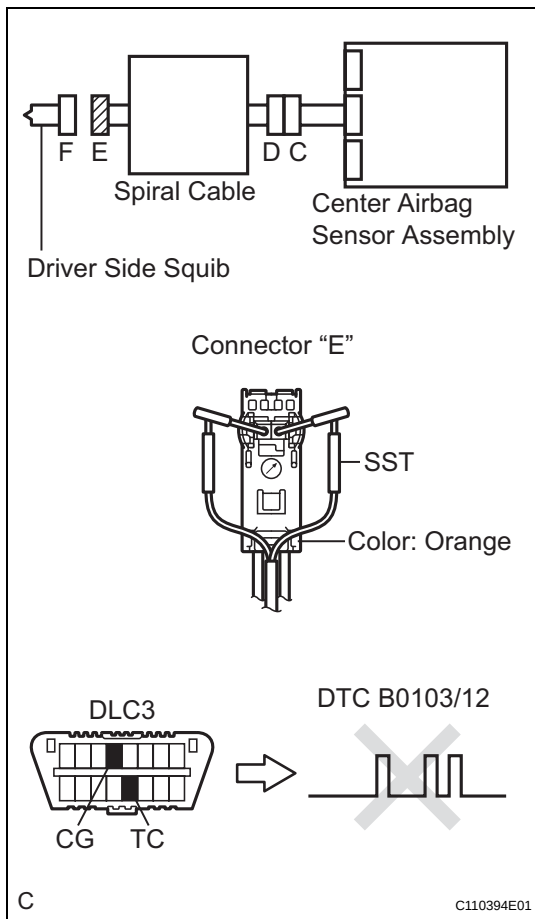
The circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the steering pad.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (See page [RS-32](#)).

OK:

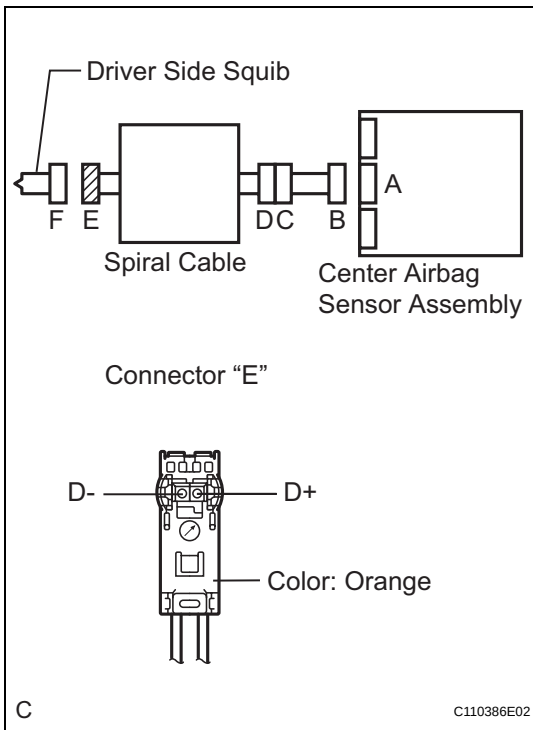
DTC B0103/12 is not output.

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**

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

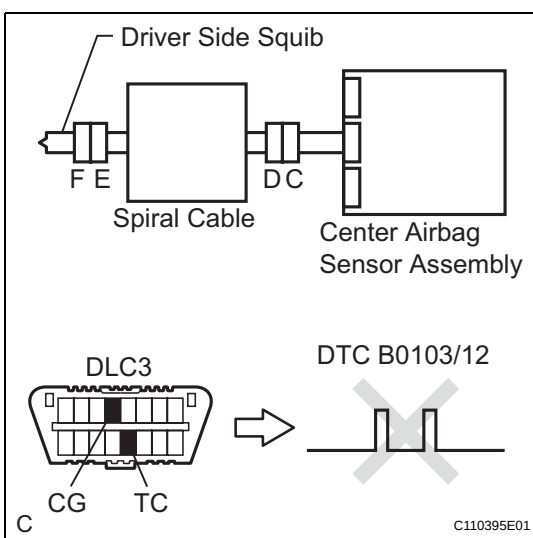
Voltage

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

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

RS

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

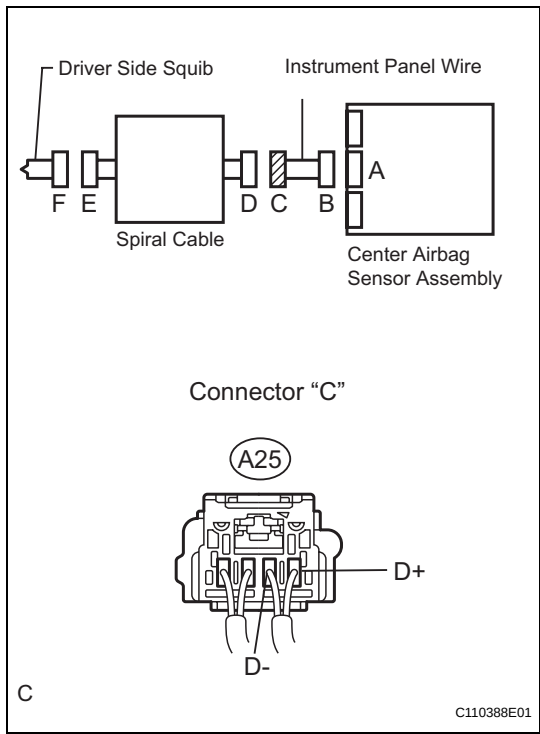
OK

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

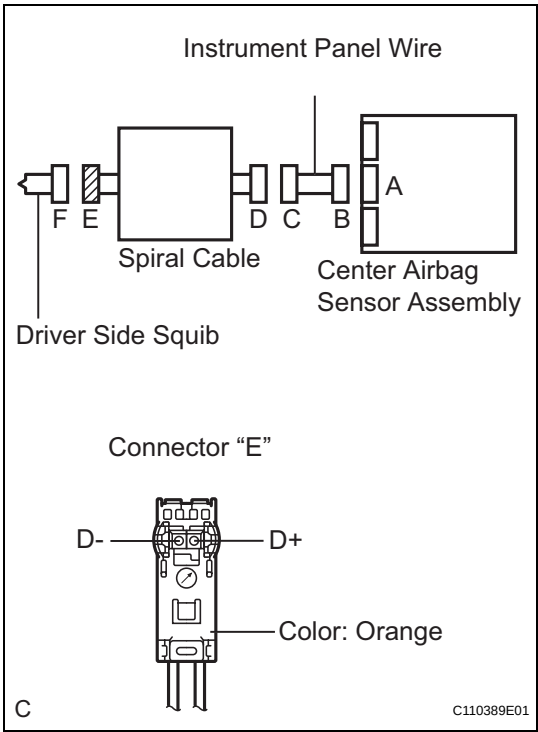
Tester connection	Condition	Specified condition
A25-1 (D+) - Body ground	Ignition switch ON	Below 1 V
A25-2 (D-) - Body ground	Ignition switch ON	Below 1 V

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.

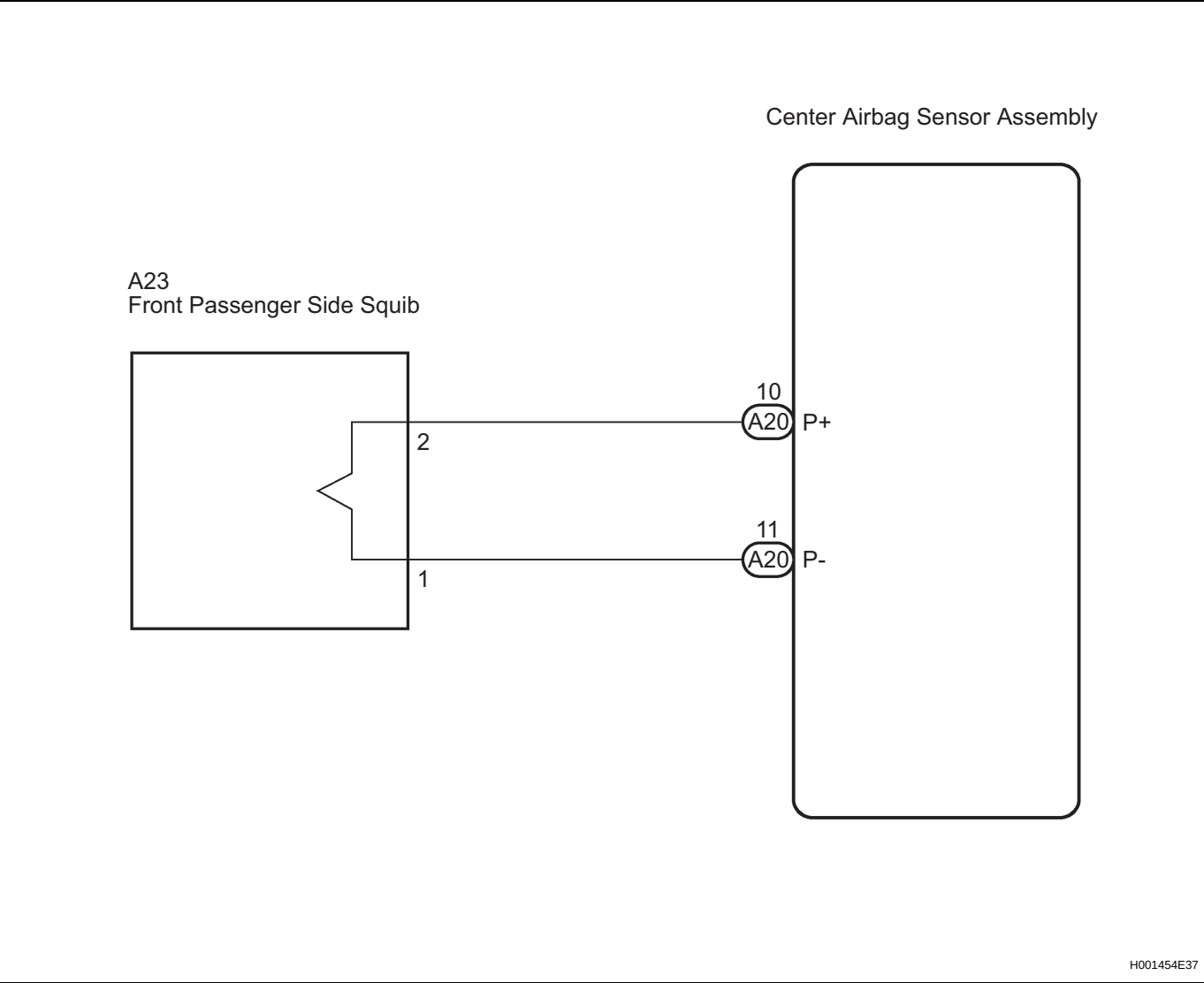
The circuit instructs the SRS to deploy when deployment conditions are met.

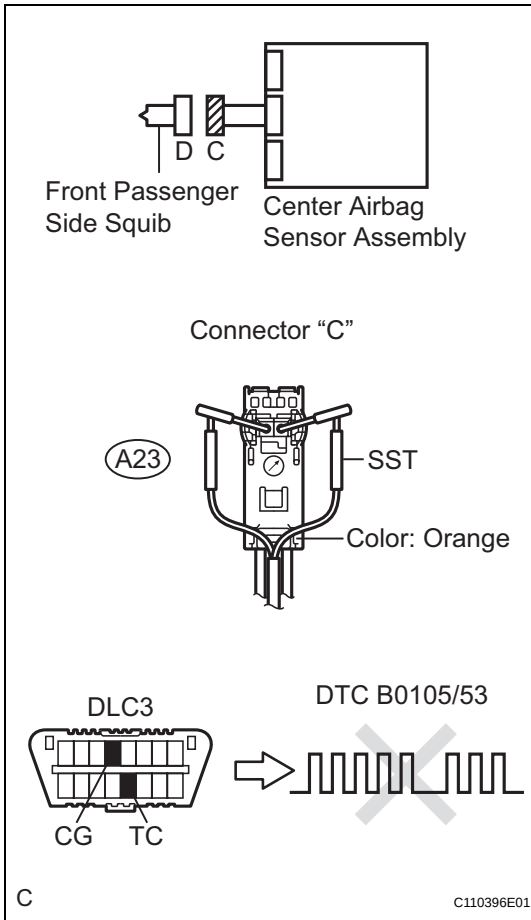
DTC B0105/53 is recorded when a short circuit is detected in the front passenger side squib circuit.

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.

RS

OK:

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

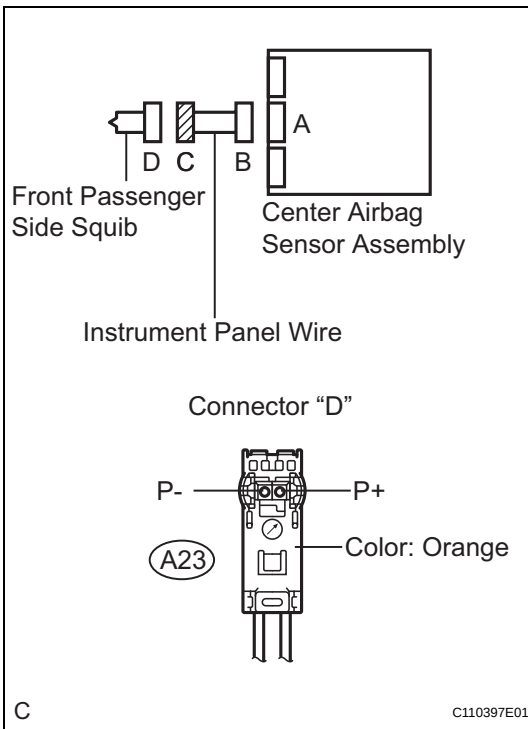
NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

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

RS



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

Resistance

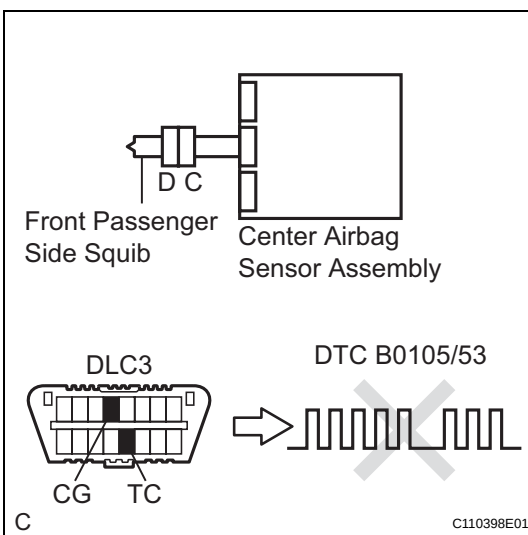
Tester connection	Condition	Specified condition
A23-2 (P+) - A23-1 (P-)	Always	1 MΩ or higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY



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

RS

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.

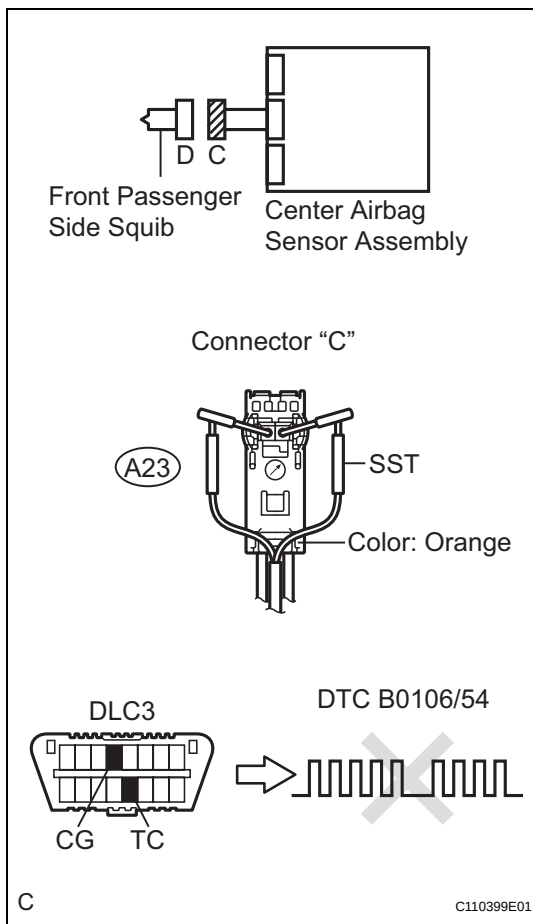
The circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front passenger airbag assembly.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (See page [RS-32](#)).

OK:

DTC B0106/54 is not output.

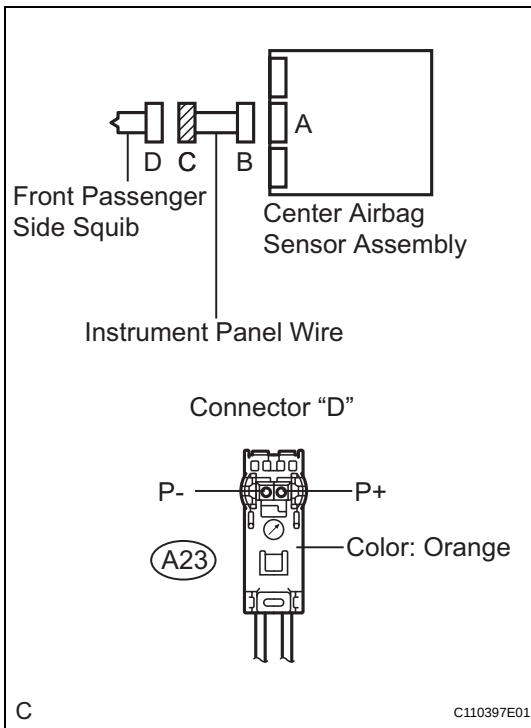
HINT:

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

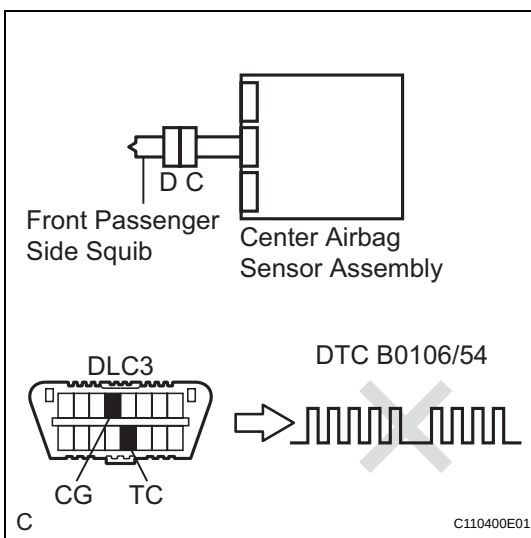
Tester connection	Condition	Specified condition
A23-2 (P+) - A23-1 (P-)	Always	Below 1 Ω

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

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.

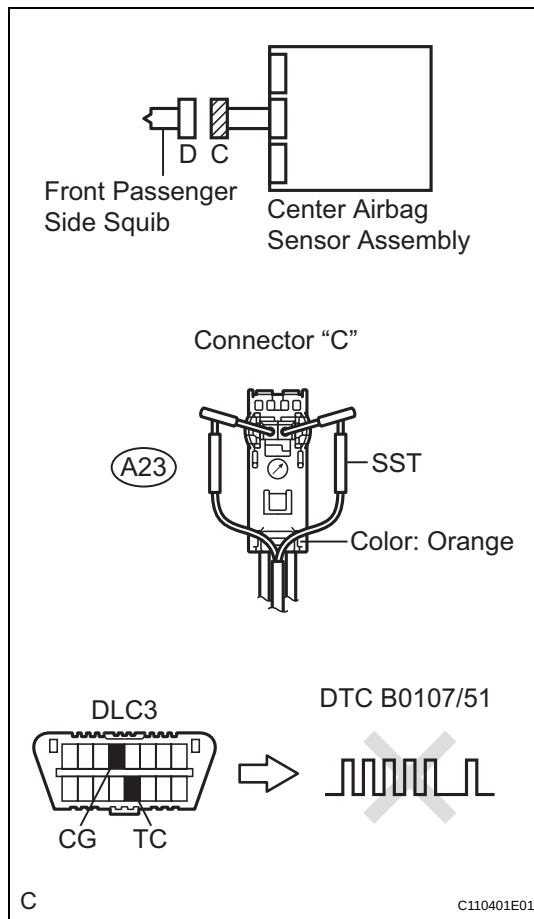
The circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front passenger airbag assembly.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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.

OK

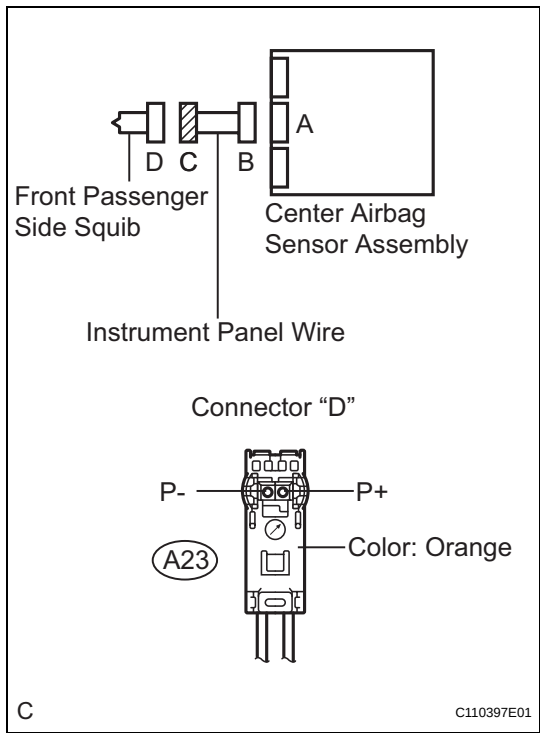
NG

Go to step 2

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

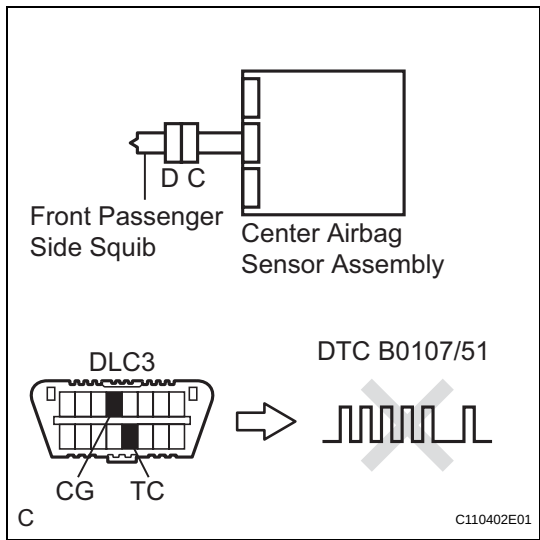
NG

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

RS

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.

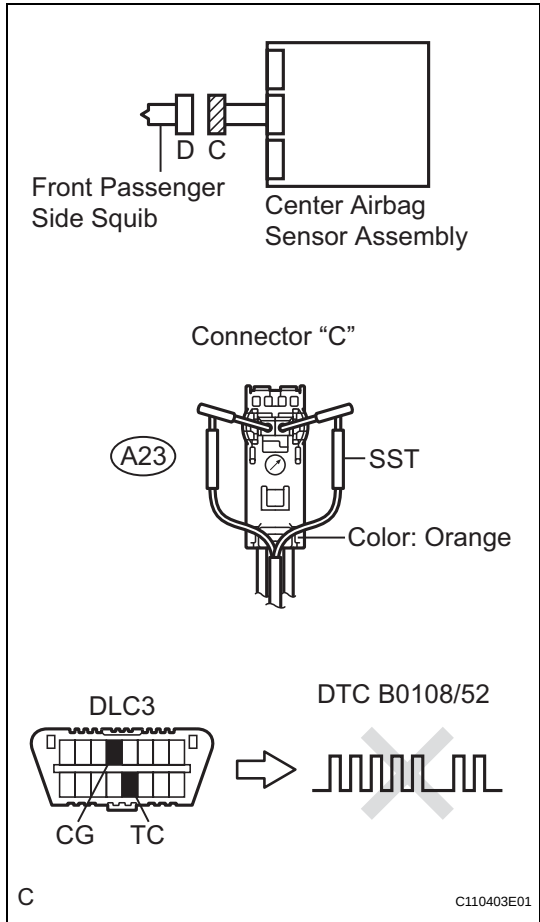
DTC B0108/52 is recorded when a short to B+ is detected in the front passenger side squib circuit.

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

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.

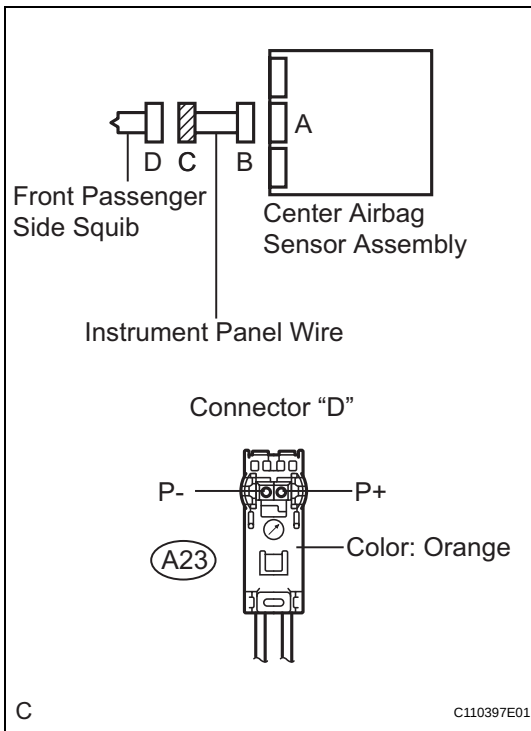
HINT:

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)**

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

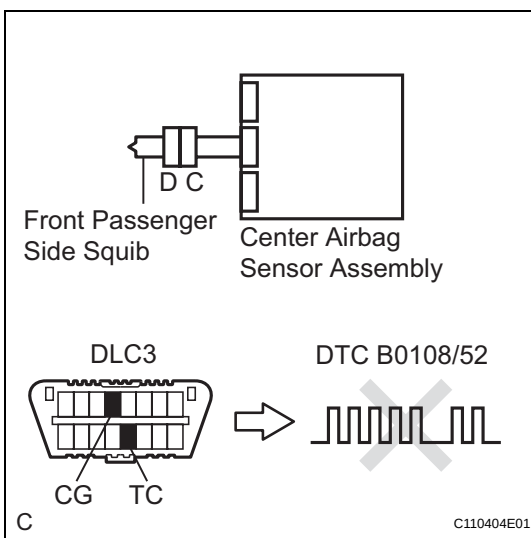
Voltage

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**

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

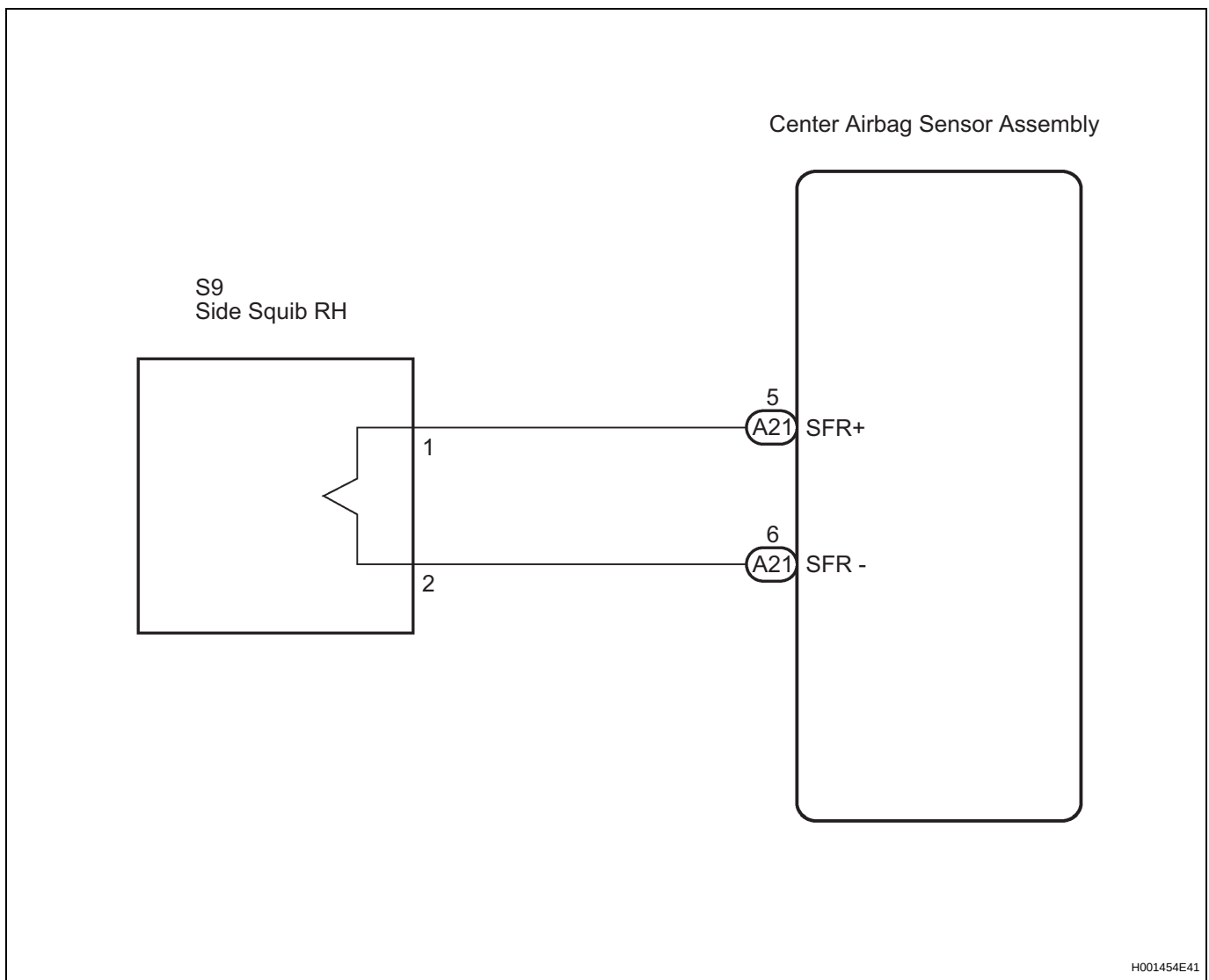
DTC**B0110/43****Short in Side Squib RH Circuit****DESCRIPTION**

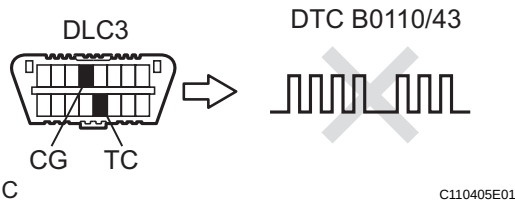
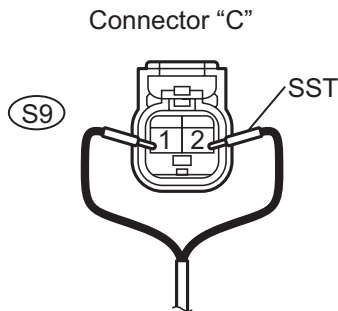
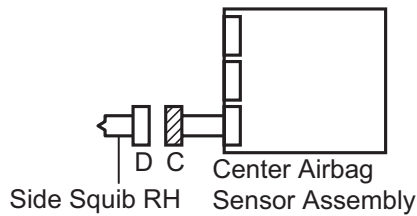
The side squib RH circuit consists of the center airbag sensor assembly and the front seat side airbag assembly RH (side squib RH).

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)**

C110405E01

- (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).

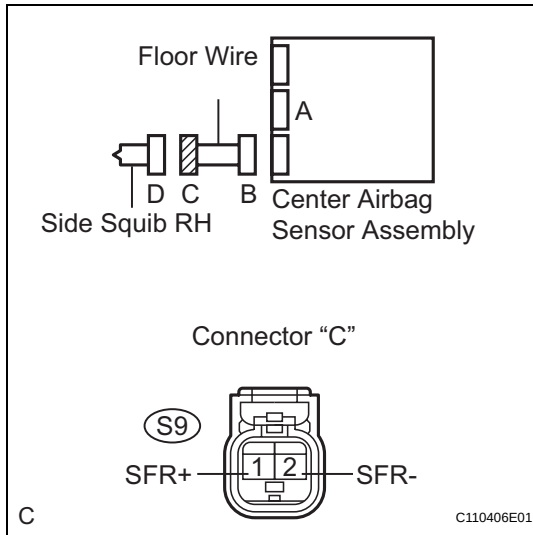
OK:

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.

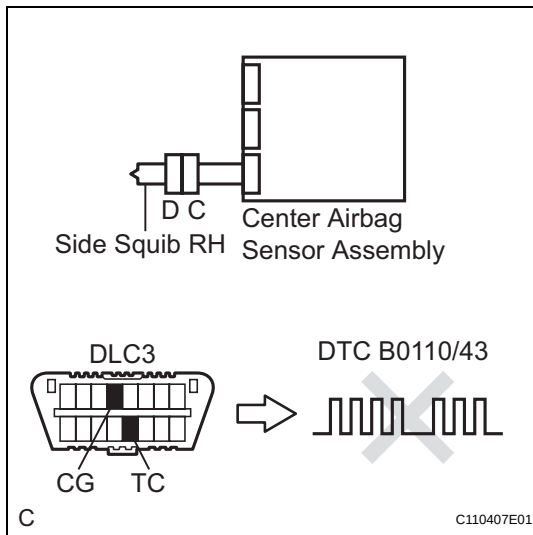
NG**Go to step 2****OK****REPLACE FRONT SEAT SIDE AIRBAG ASSEMBLY RH**

2 CHECK FLOOR WIRE (SIDE SQUIB RH CIRCUIT)

- Disconnect the connector from the center airbag sensor assembly.
- Release the activation prevention mechanism built into connector "B" (See page [RS-25](#)).
- 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

NG**REPAIR OR REPLACE FLOOR WIRE****OK****3 CHECK CENTER AIRBAG SENSOR ASSEMBLY**

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

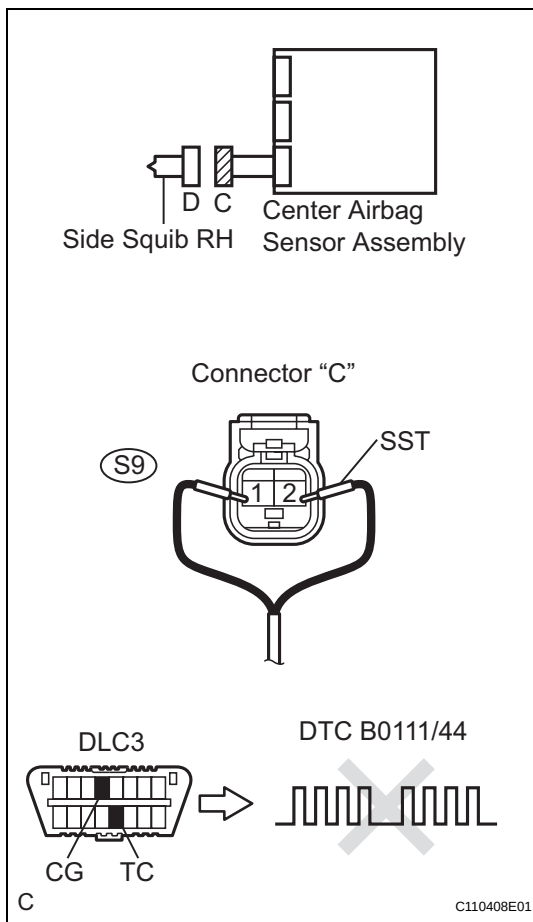
The circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front seat side airbag assembly RH.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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

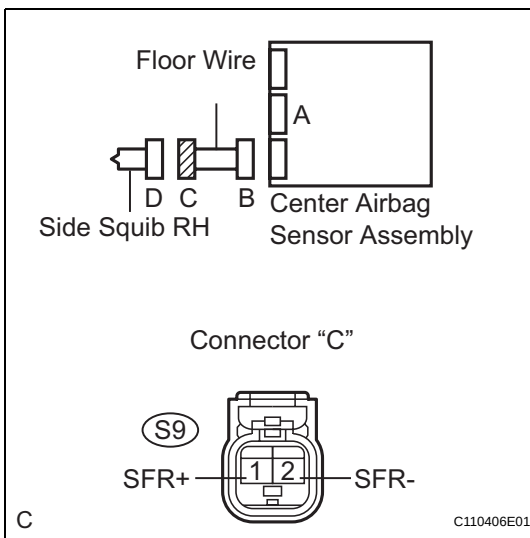
Go to step 2

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

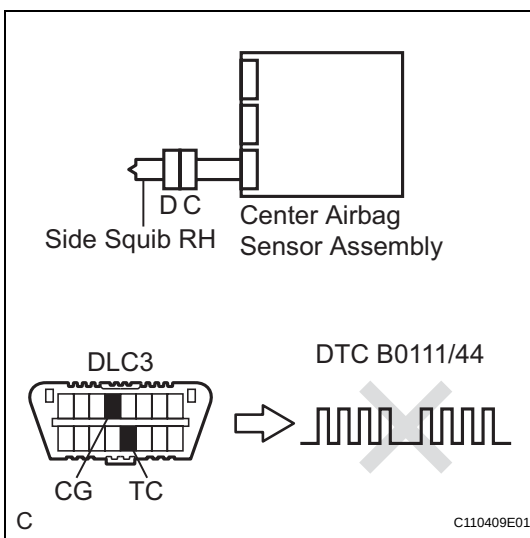
REPAIR OR REPLACE FLOOR WIRE

RS

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).

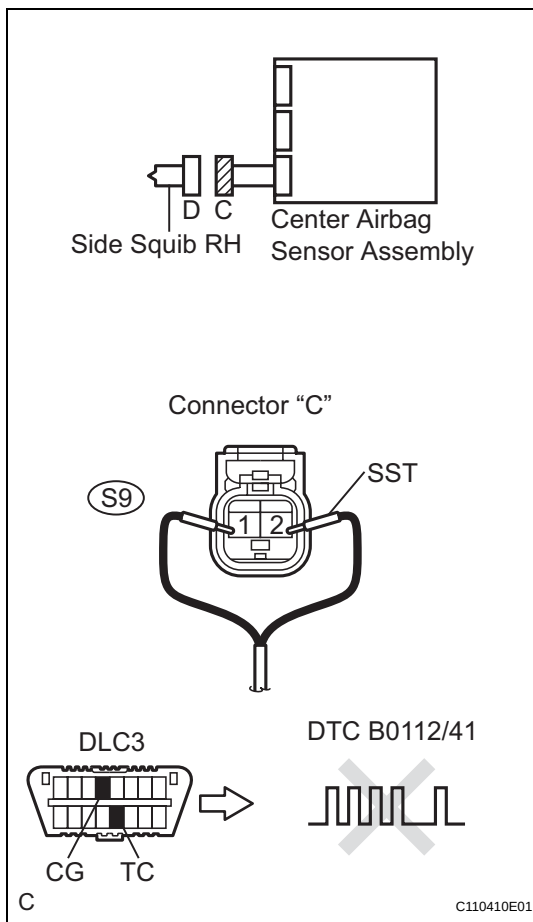
The circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front seat side airbag assembly RH.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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

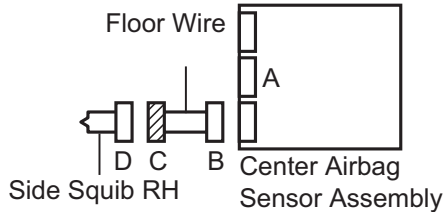
Go to step 2

OK

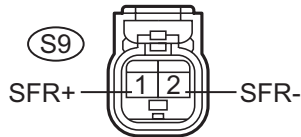
REPLACE FRONT SEAT SIDE AIRBAG ASSEMBLY RH

2

CHECK FLOOR WIRE (SIDE SQUIB RH CIRCUIT)



Connector "C"



C

C110406E01

(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

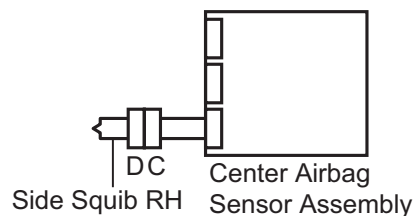
NG

REPAIR OR REPLACE FLOOR WIRE

OK

3

CHECK CENTER AIRBAG SENSOR ASSEMBLY



C

C110411E01

(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

RS

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.

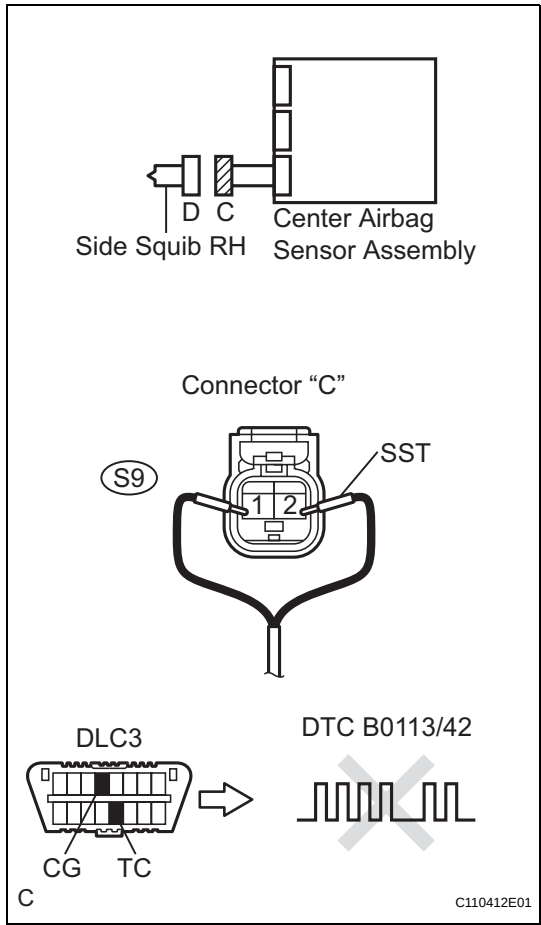
DTC No.	DTC Detecting Condition	Trouble Area
B0113/42	- Short circuit in side squib RH wire harness (to B+) - Side squib RH malfunction - Center airbag sensor assembly malfunction	- Front seat side airbag assembly RH (Side squib RH) - Center airbag sensor assembly - Floor wire

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

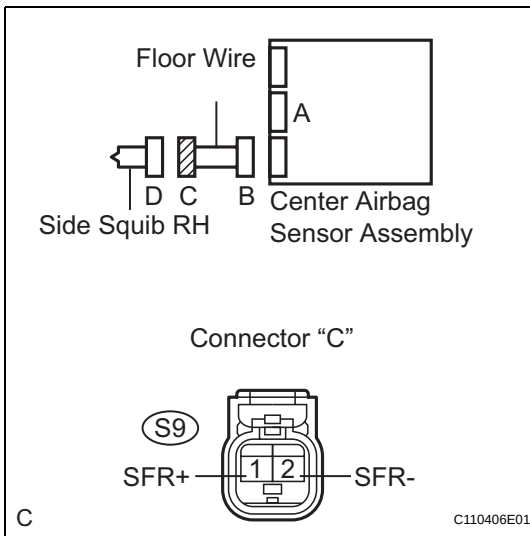
Go to step 2

OK

REPLACE FRONT SEAT SIDE AIRBAG ASSEMBLY RH

2

CHECK FLOOR WIRE (SIDE SQUIB RH CIRCUIT)



- Disconnect the connector from the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- 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

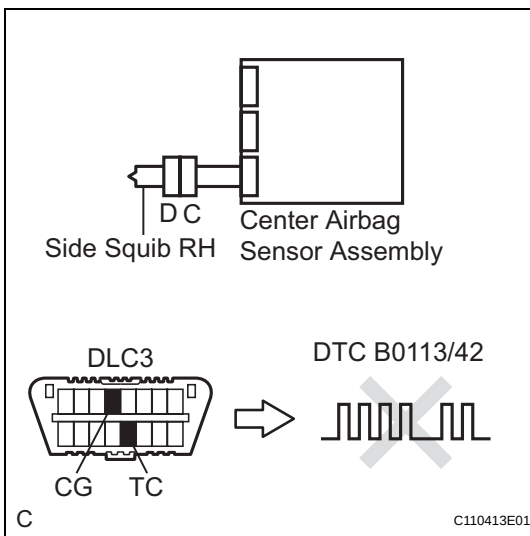
NG

REPAIR OR REPLACE FLOOR WIRE

OK

3

CHECK CENTER AIRBAG SENSOR ASSEMBLY



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

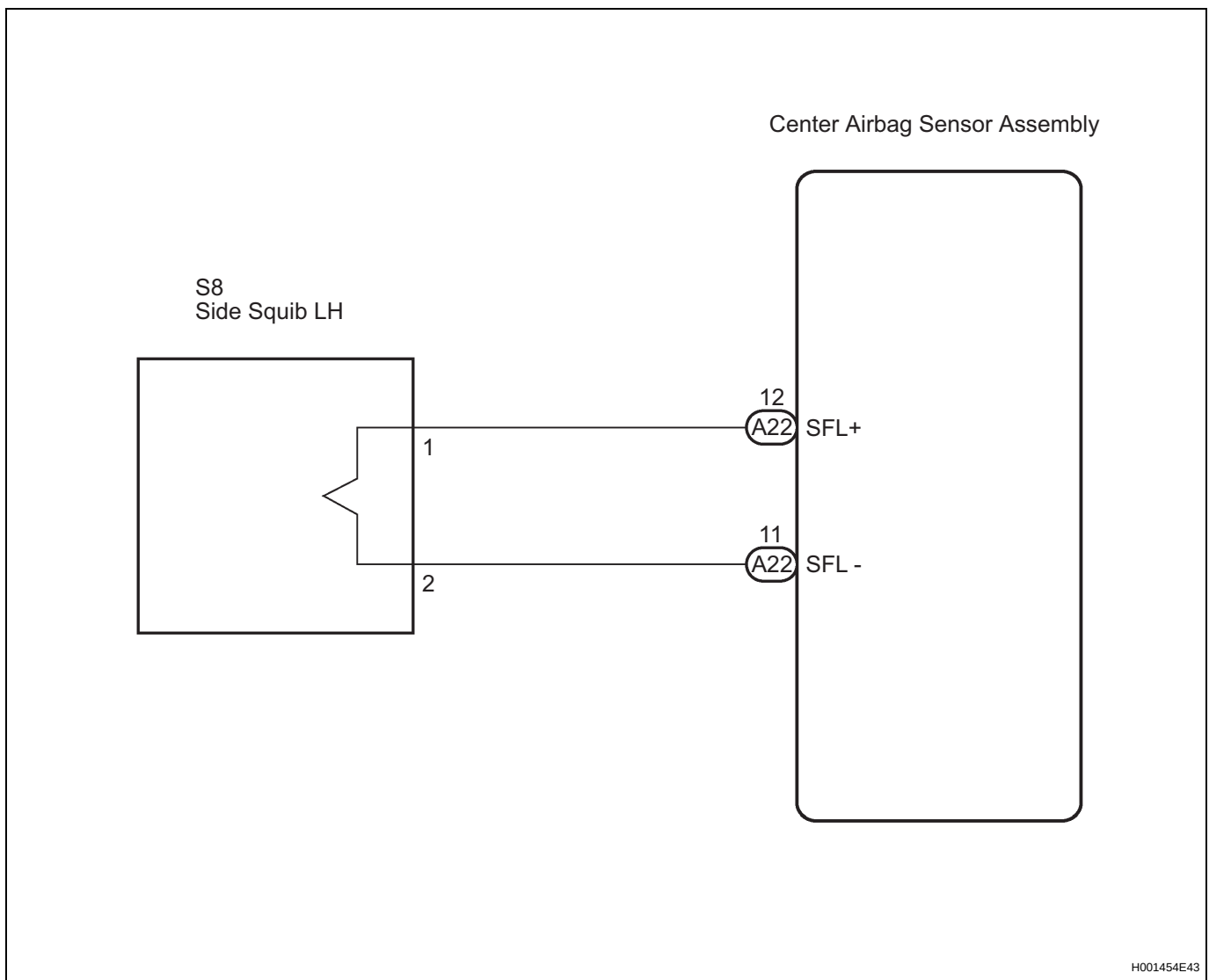
DTC**B0115/47****Short in Side Squib LH Circuit****DESCRIPTION**

The side squib LH circuit consists of the center airbag sensor assembly and the front seat side airbag assembly LH (side squib LH).

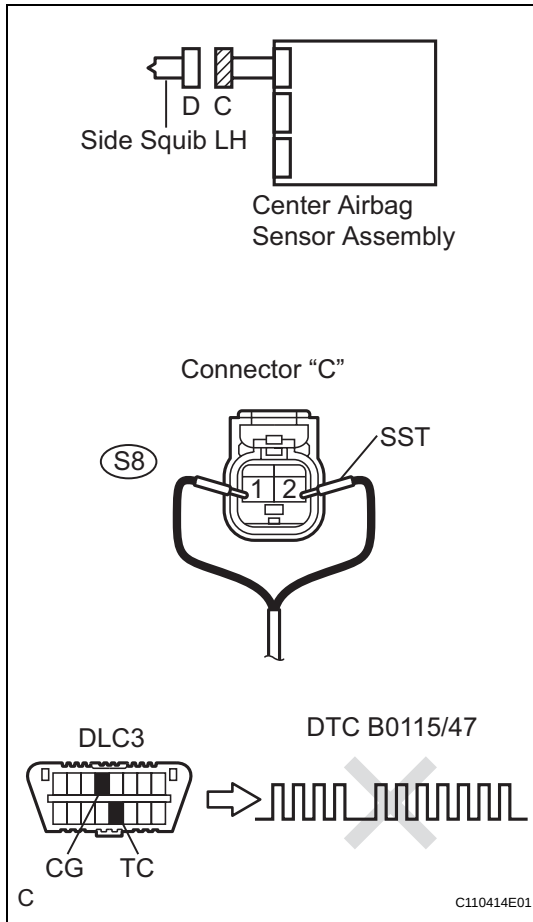
This circuit instructs the SRS to deploy when deployment conditions are met.

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)



- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front seat side airbag assembly LH.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page RS-32).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (See page RS-32).

OK:

DTC B0115/47 is not output.

HINT:

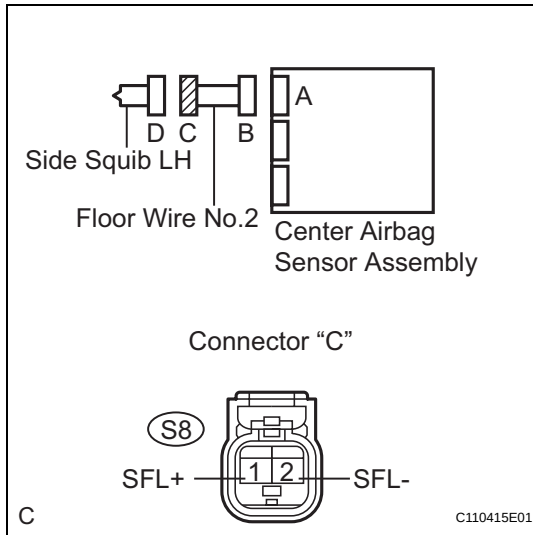
Codes other than DTC B0115/47 may be output at this time, but they are not related to this check.

NG

Go to step 2

OK

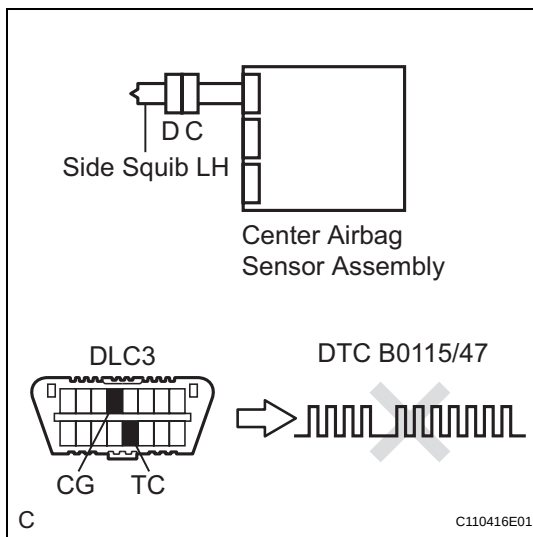
REPLACE FRONT SEAT AIRBAG ASSEMBLY LH

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

- Disconnect the connector from the center airbag sensor assembly.
- Release the activation prevention mechanism built into connector "B" (See page [RS-25](#)).
- 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

NG**REPAIR OR REPLACE FLOOR WIRE NO.2****OK****3 CHECK CENTER AIRBAG SENSOR ASSEMBLY**

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

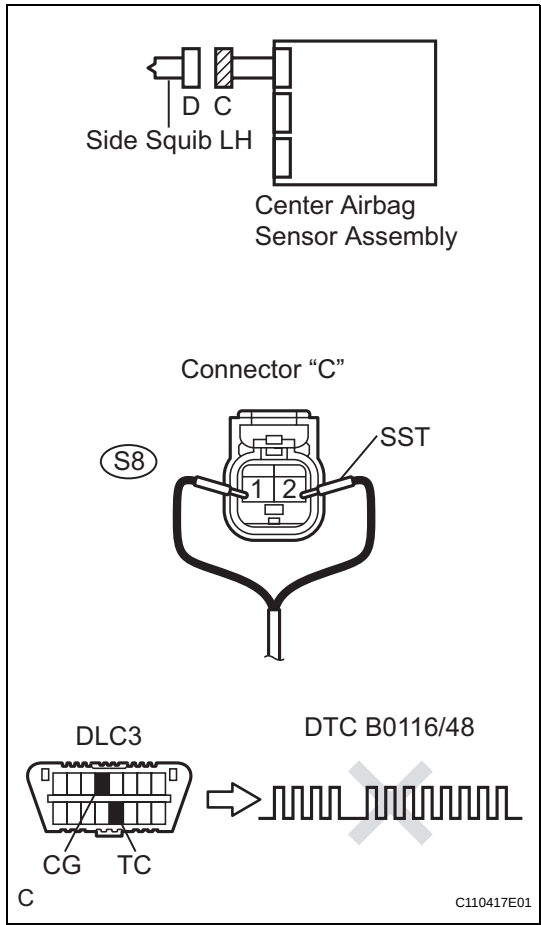
DTC No.	DTC Detecting Condition	Trouble Area
B0116/48	- Open circuit in SFL+ wire harness or SFL- wire harness of side squib LH - Side squib LH malfunction - Center airbag sensor assembly malfunction	- Front seat side airbag assembly LH (Side squib LH) - Center airbag sensor assembly - Floor wire No.2

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

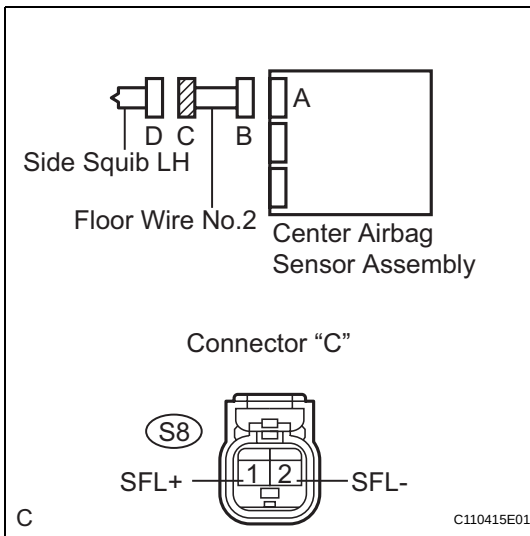
Go to step 2

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

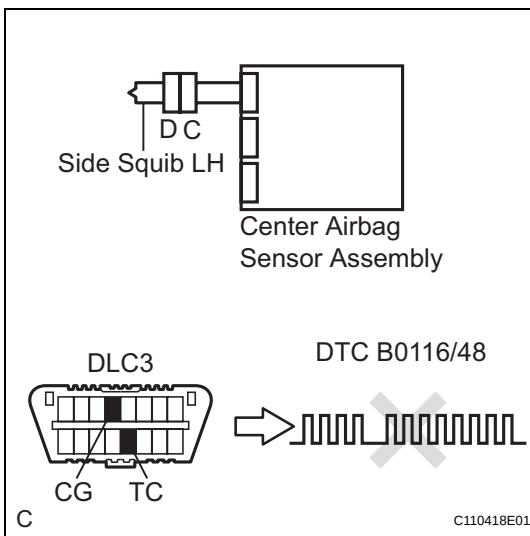
NG

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).

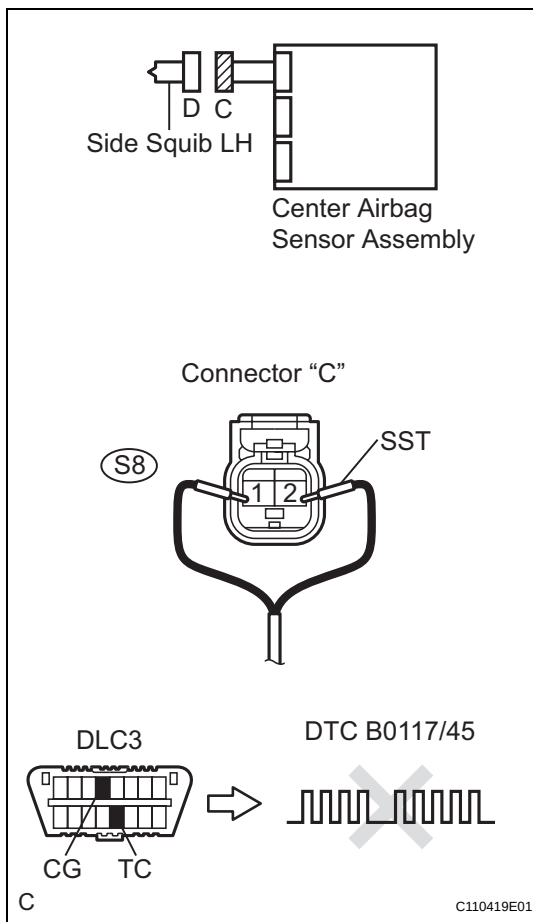
This circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front seat side airbag assembly LH.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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

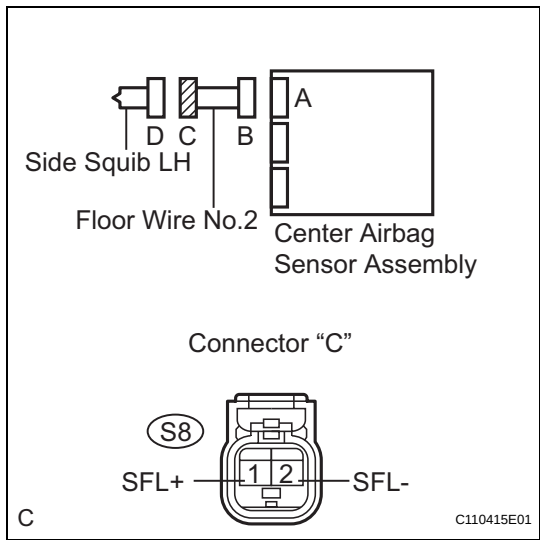
Go to step 2

OK

REPLACE FRONT SEAT SIDE AIRBAG ASSEMBLY LH

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

RS



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

Resistance

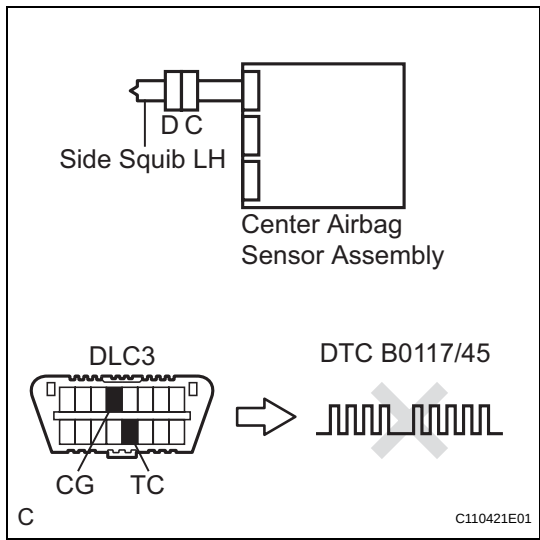
Tester connection	Condition	Specified condition
S8-1 (SFL+) - Body ground	Always	1 MΩ or higher
S8-2 (SFL-) - Body ground	Always	1 MΩ or higher

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

RS

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).

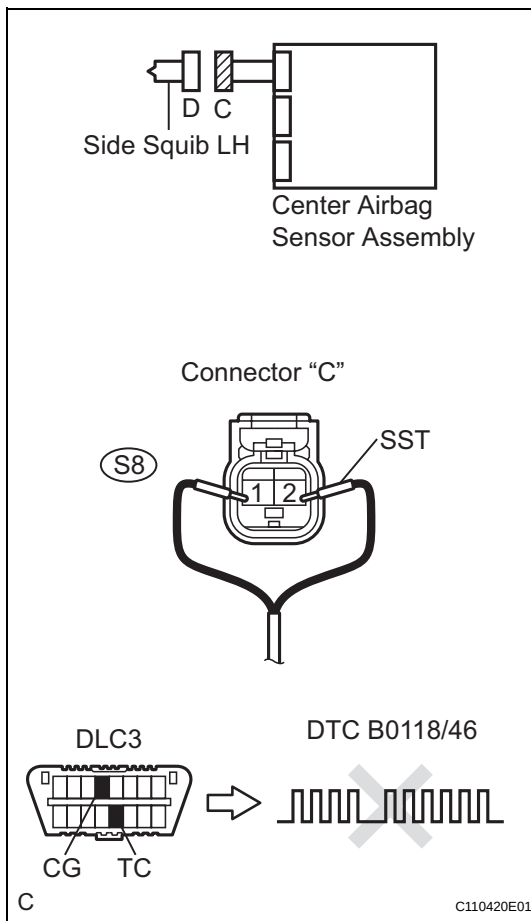
This circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front seat side airbag assembly LH.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (See page [RS-32](#)).

OK:

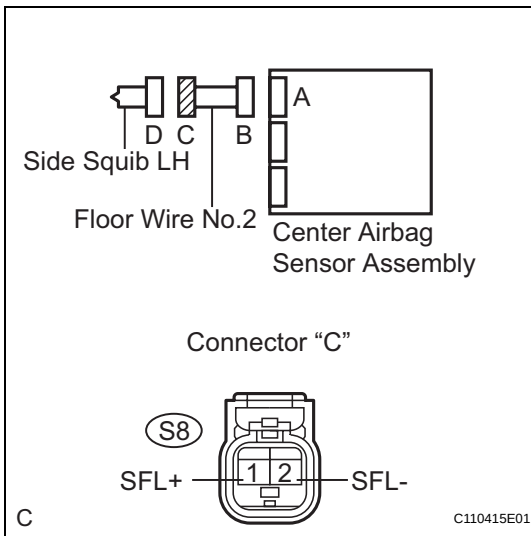
DTC B0118/46 is not output.

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)**

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

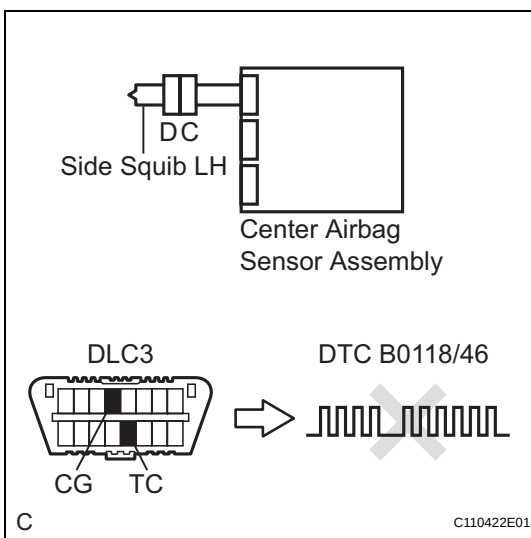
Voltage

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

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

OK

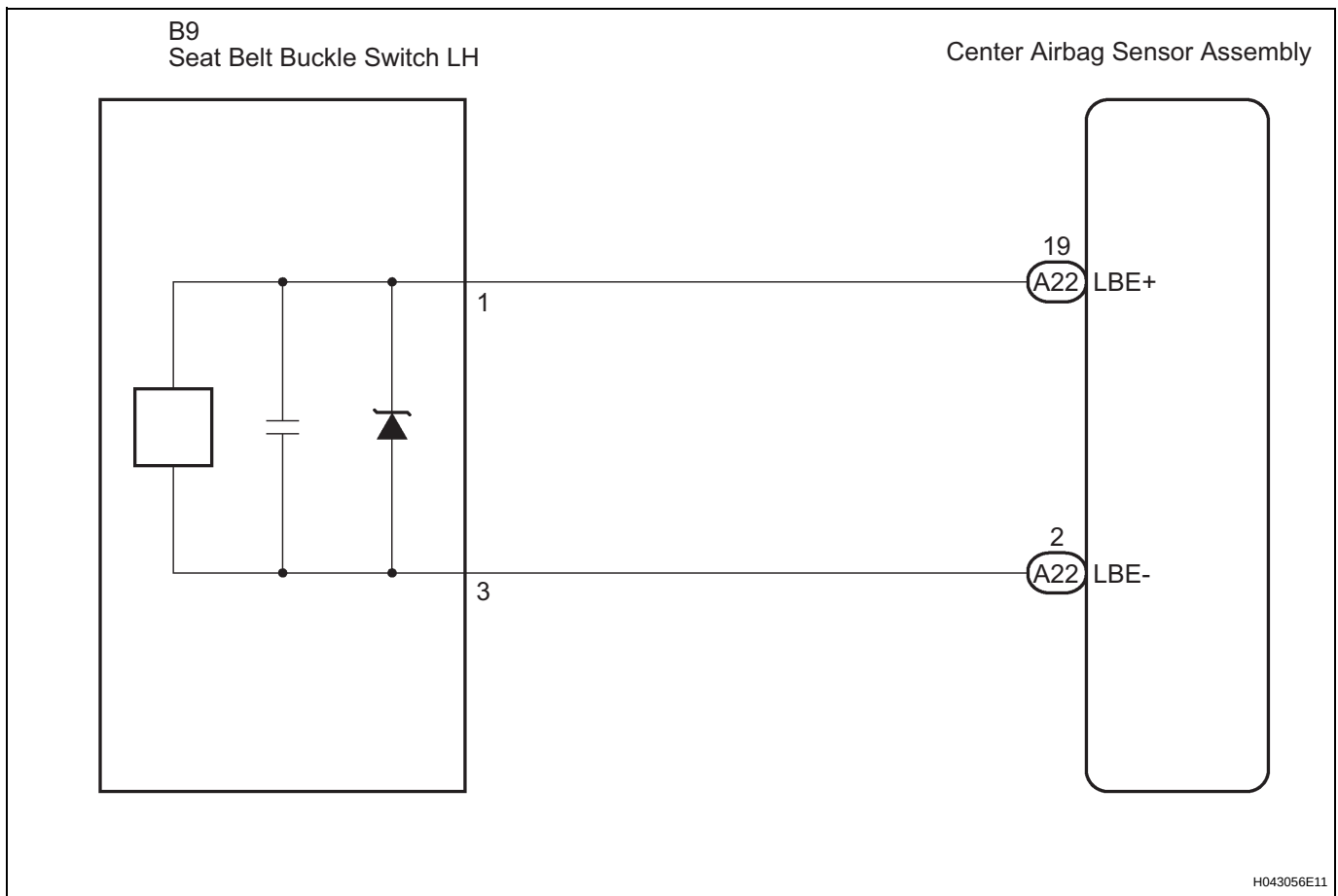
USE SIMULATION METHOD TO CHECK

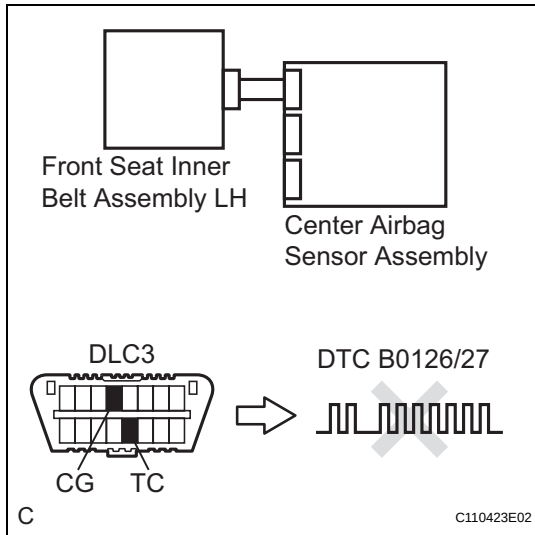
DTC**B0126/27****Seat Belt Buckle Switch LH Circuit Malfunction****DESCRIPTION**

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](#)).

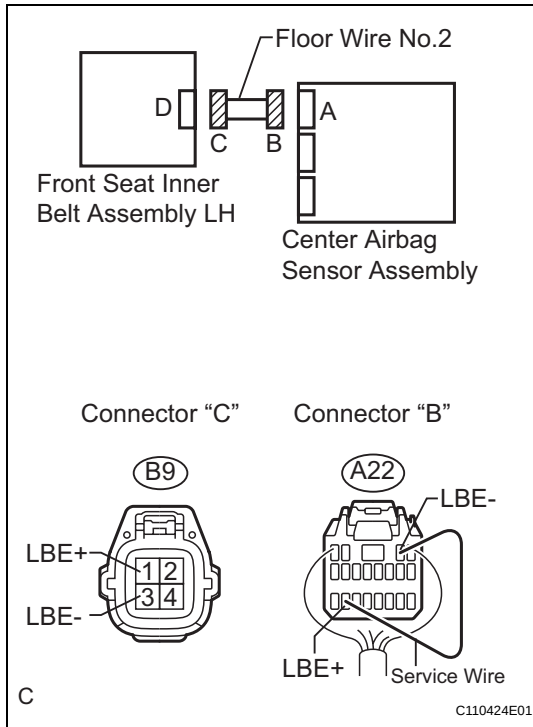
OK:**DTC B0126/27 is not output.****HINT:**

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.

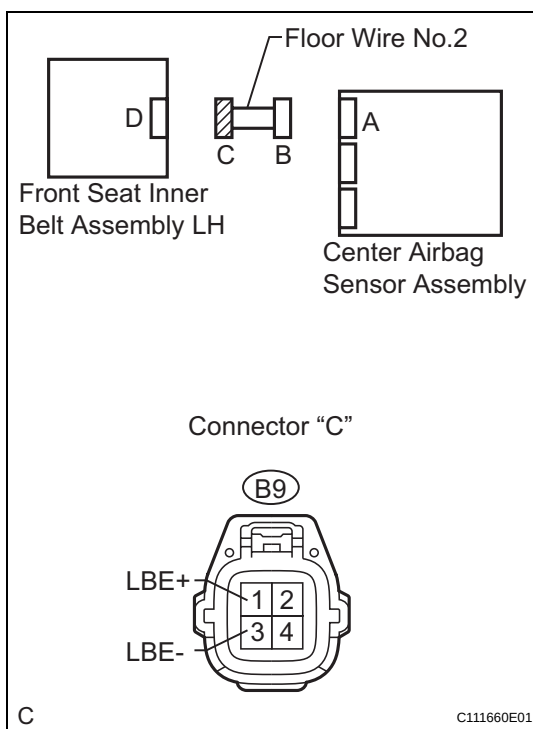
Voltage

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

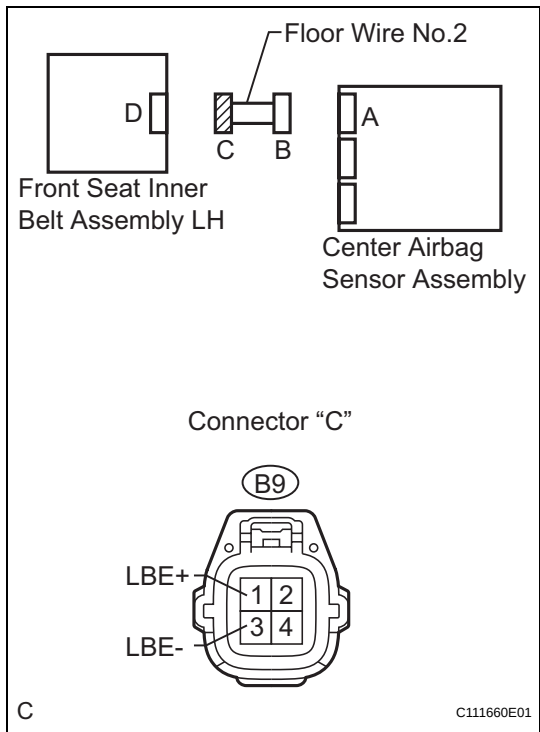
NG

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

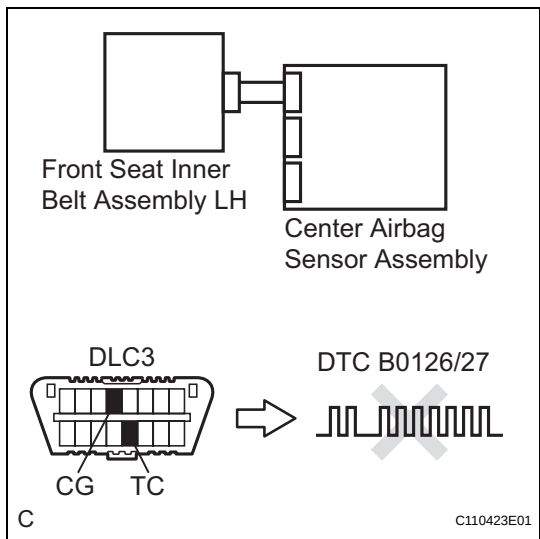
NG

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

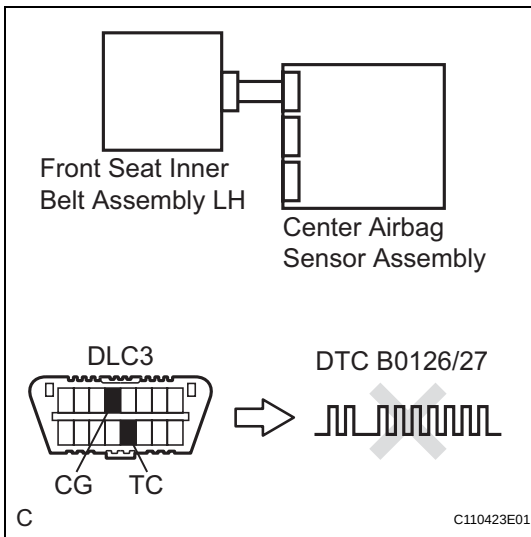
USE SIMULATION METHOD TO CHECK

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**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****RS**

DTC	B0130/63	Short in Front Pretensioner Squib RH Circuit

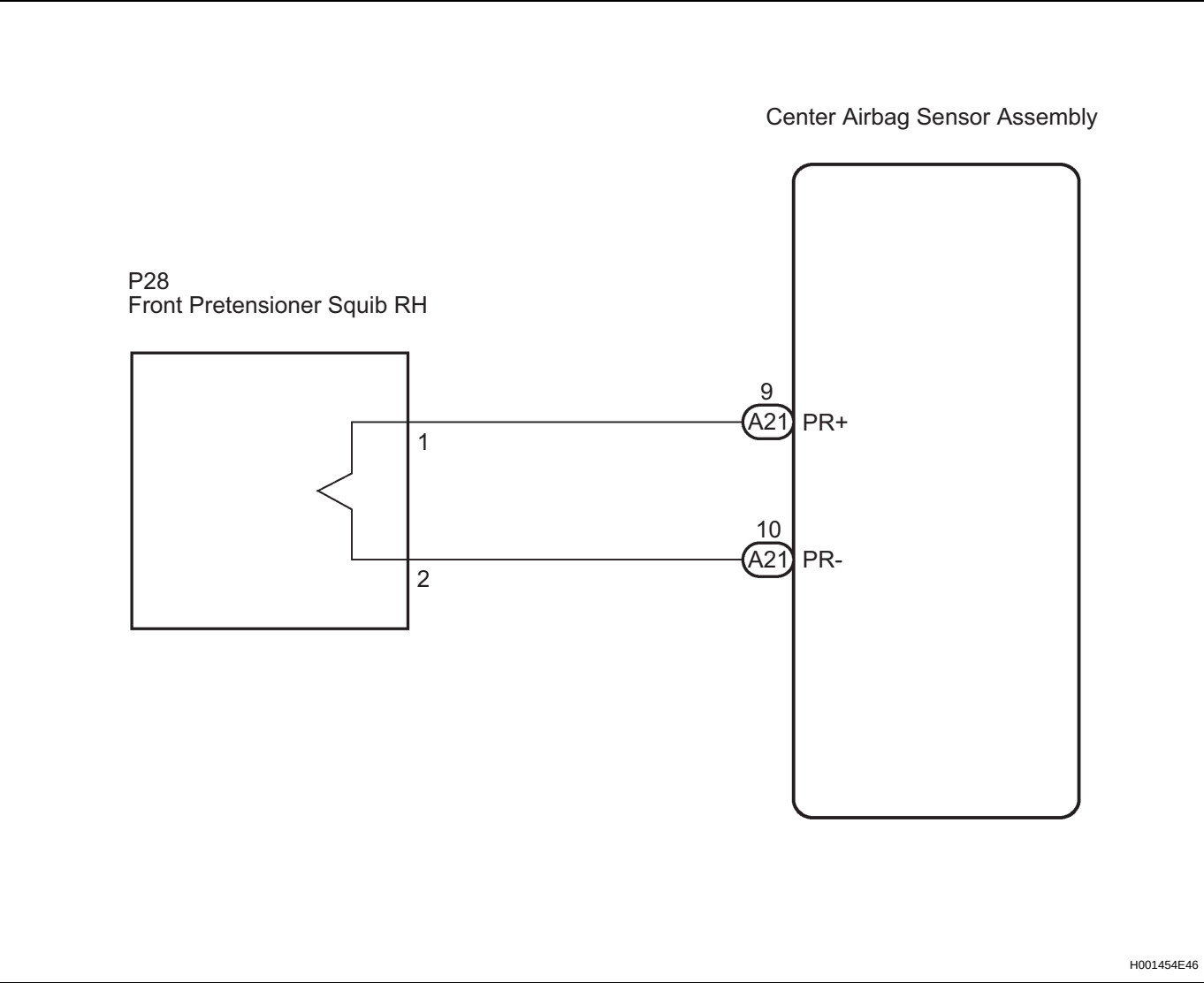
DESCRIPTION

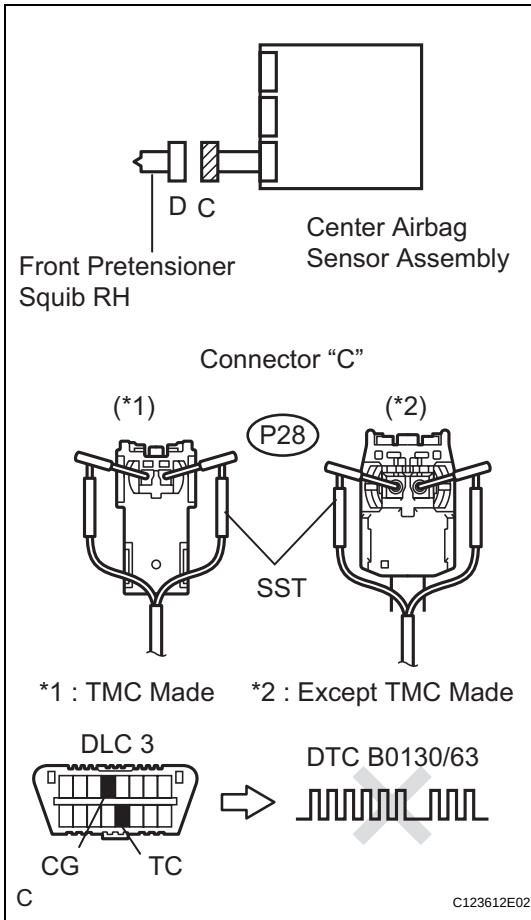
The front pretensioner squib RH circuit consists of the center airbag sensor assembly and the front seat outer belt assembly RH (front pretensioner squib RH).
This circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0130/63 is recorded when a short circuit is detected in the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

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front seat outer belt assembly RH.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page RS-32).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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**

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

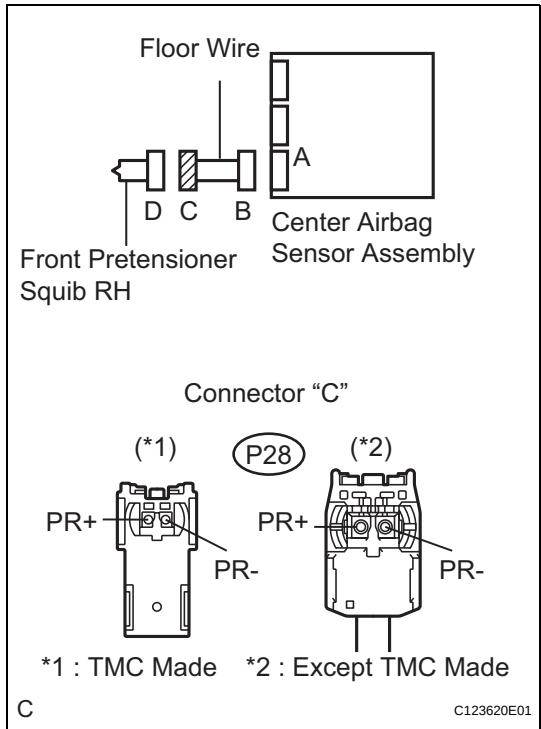
RS

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.

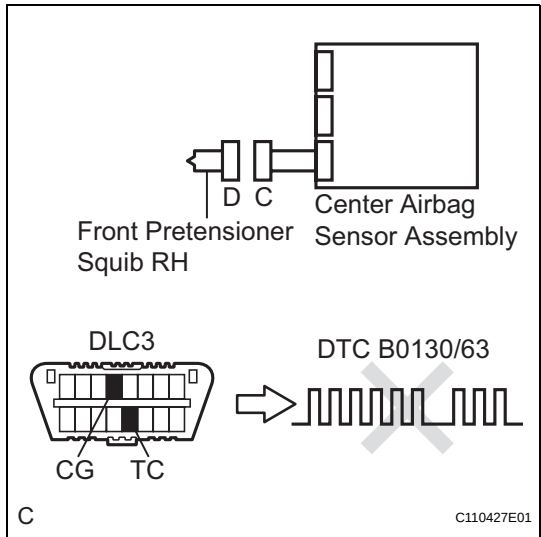
Resistance

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

RS

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).

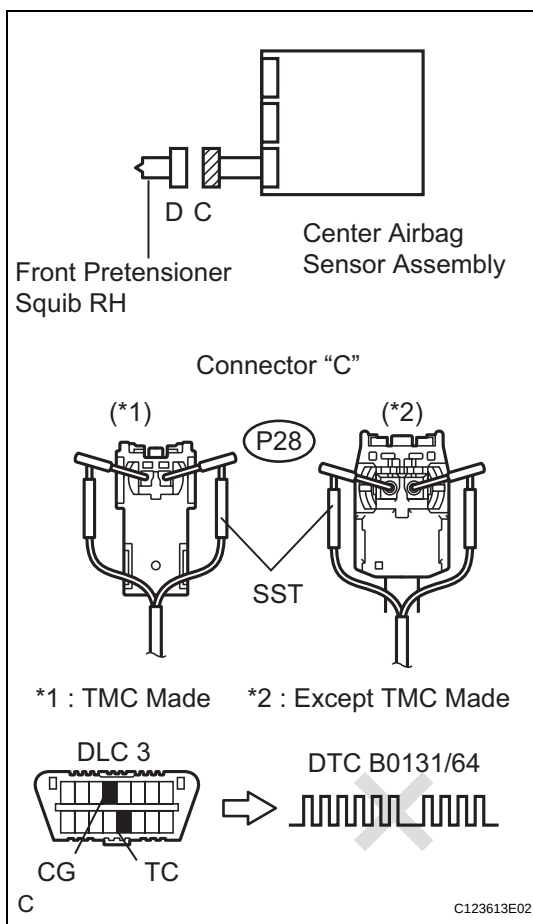
This circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front seat outer belt assembly RH.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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

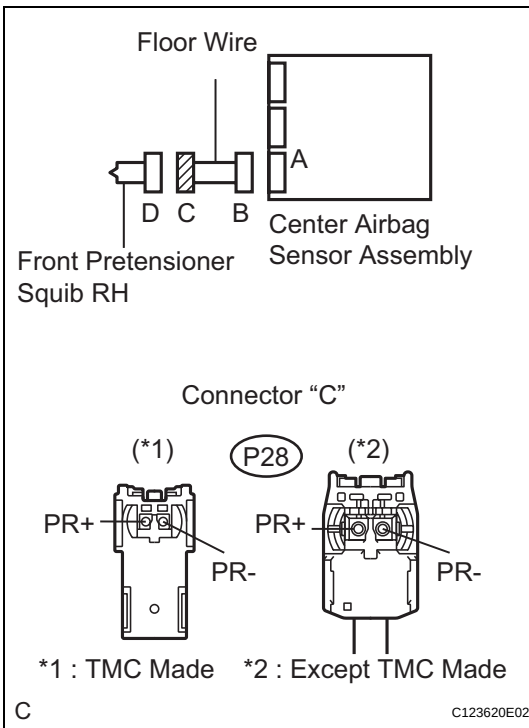
Go to step 2

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

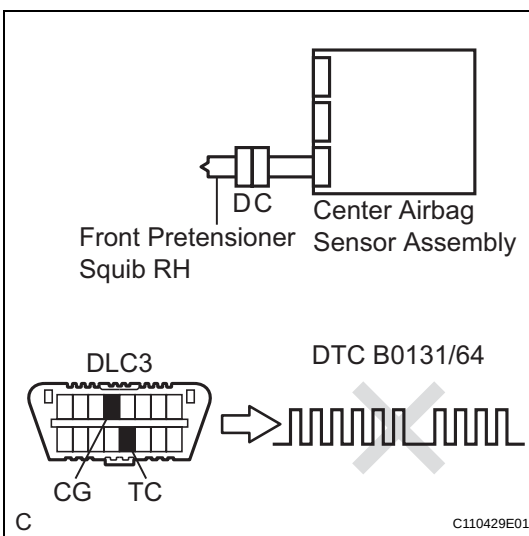
REPAIR OR REPLACE FLOOR WIRE

RS

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).

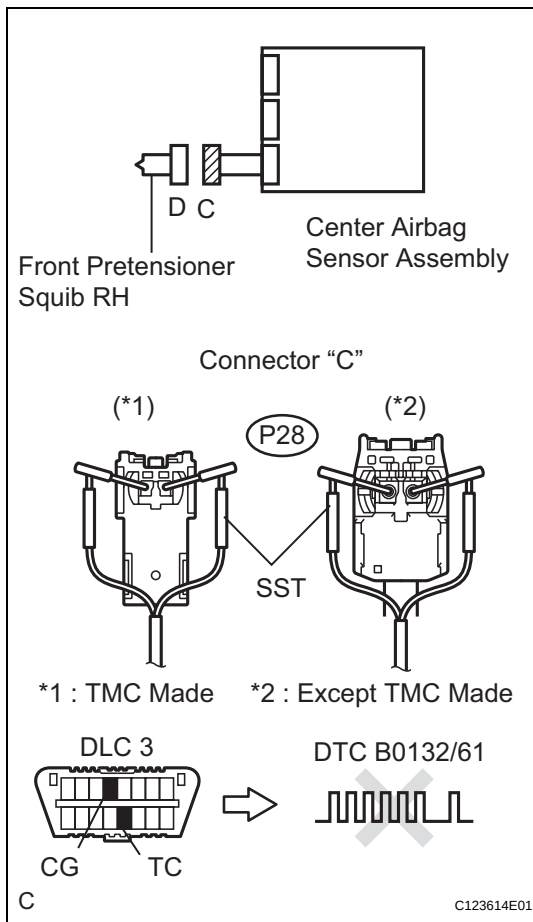
This circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front seat outer belt assembly RH.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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

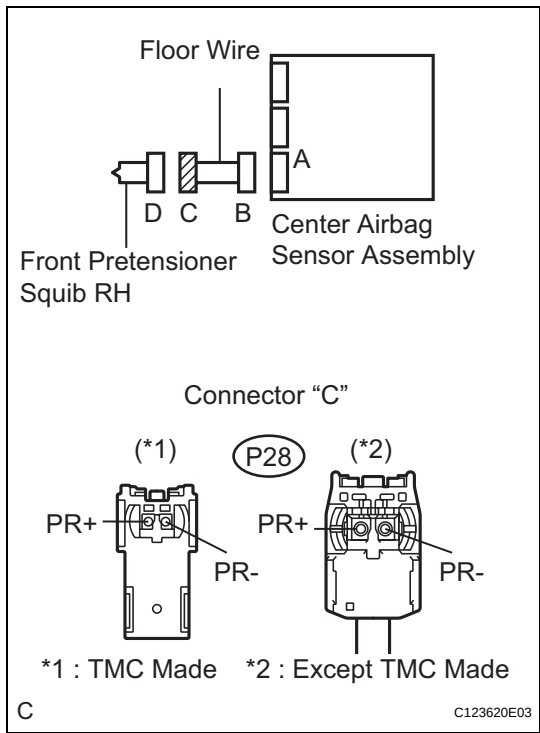
Go to step 2

OK

REPLACE FRONT SEAT OUTER BELT ASSEMBLY RH

2 CHECK FLOOR WIRE (FRONT PRETENSIONER SQUIB RH CIRCUIT)

RS



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

Resistance

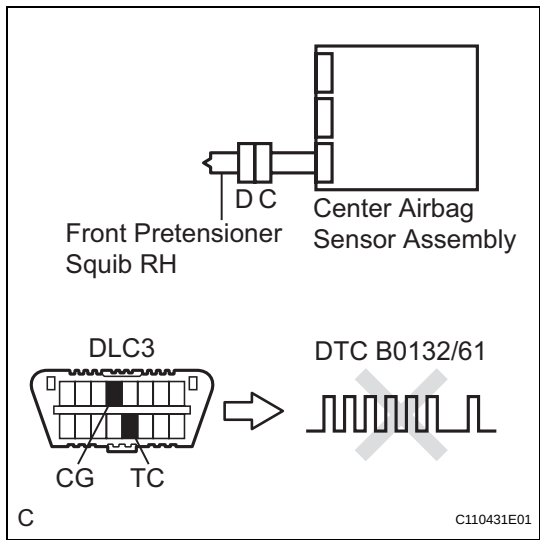
Tester connection	Condition	Specified condition
P28-1 (PR+) - Body ground	Always	1 MΩ or higher
P28-2 (PR-) - Body ground	Always	1 MΩ or higher

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

RS

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).

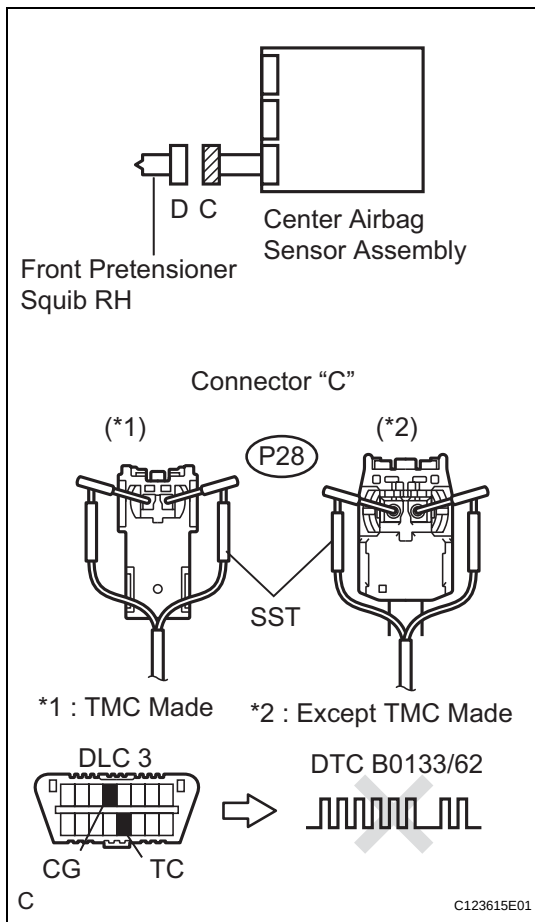
This circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front seat outer belt assembly RH.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (See page [RS-32](#)).

OK:

DTC B0133/62 is not output.

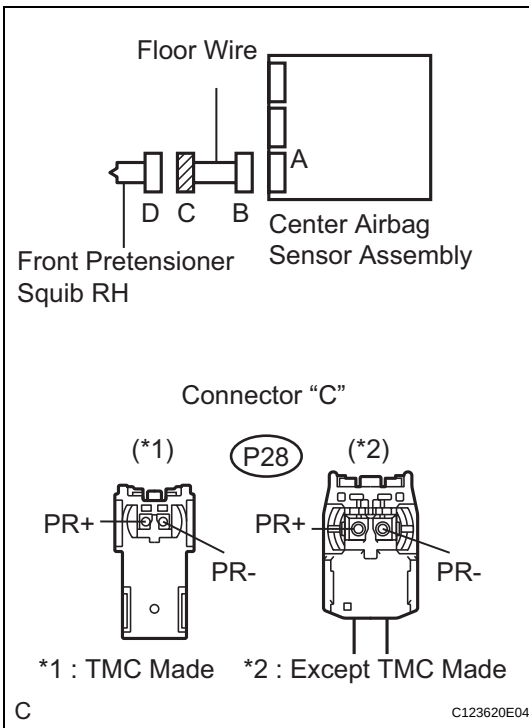
HINT:

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)**

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

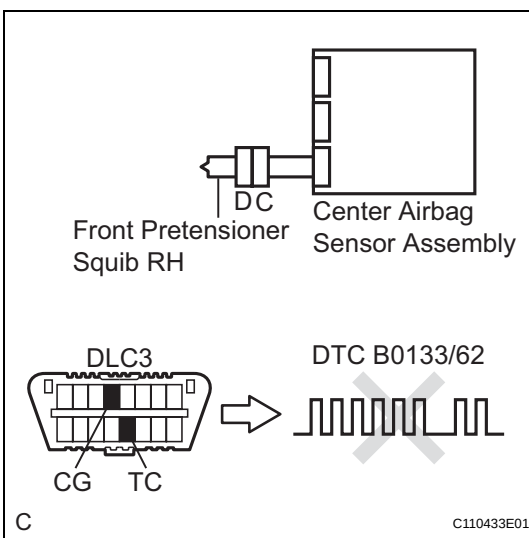
Voltage

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**

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

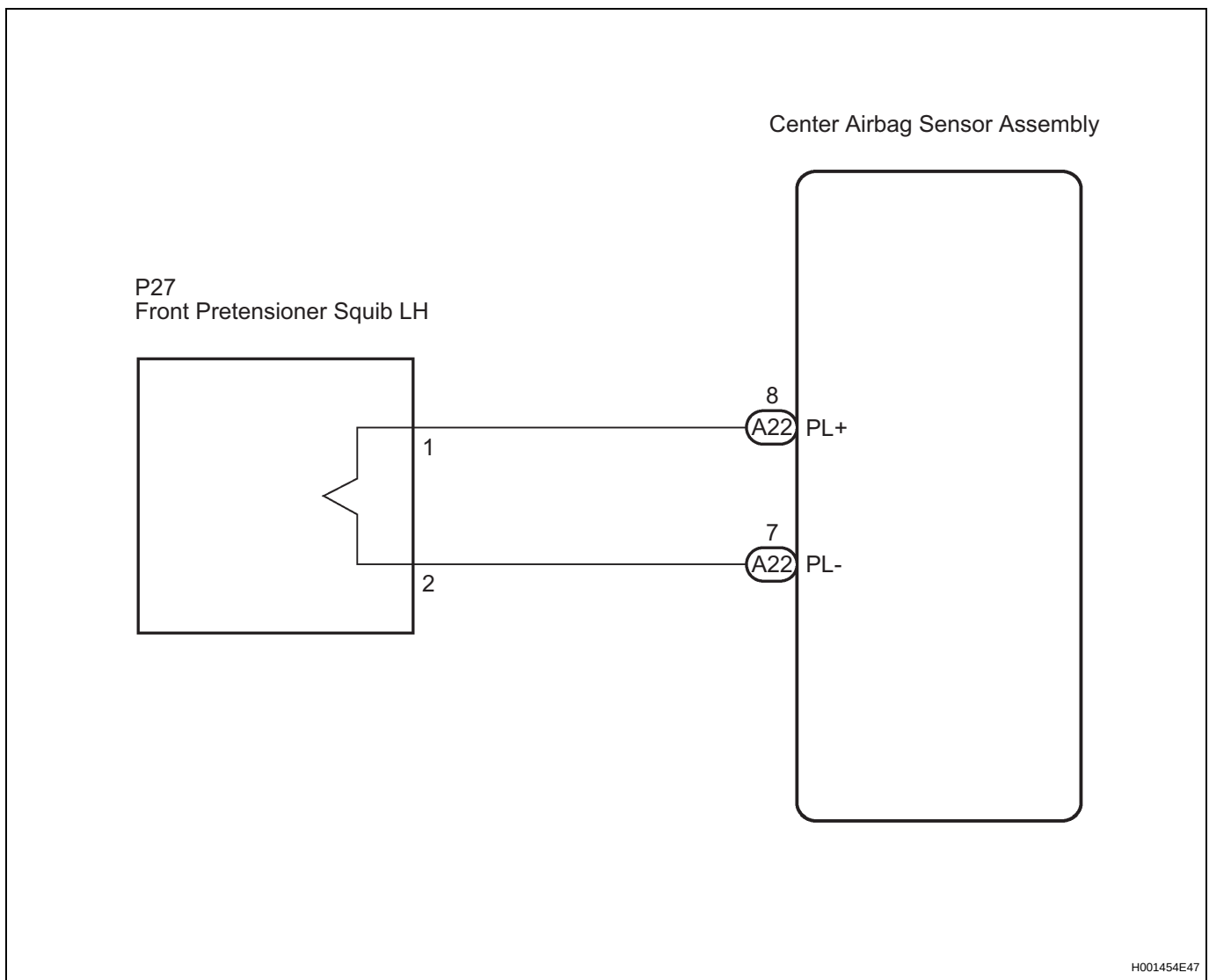
DTC**B0135/73****Short in Front Pretensioner Squib LH Circuit****DESCRIPTION**

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.

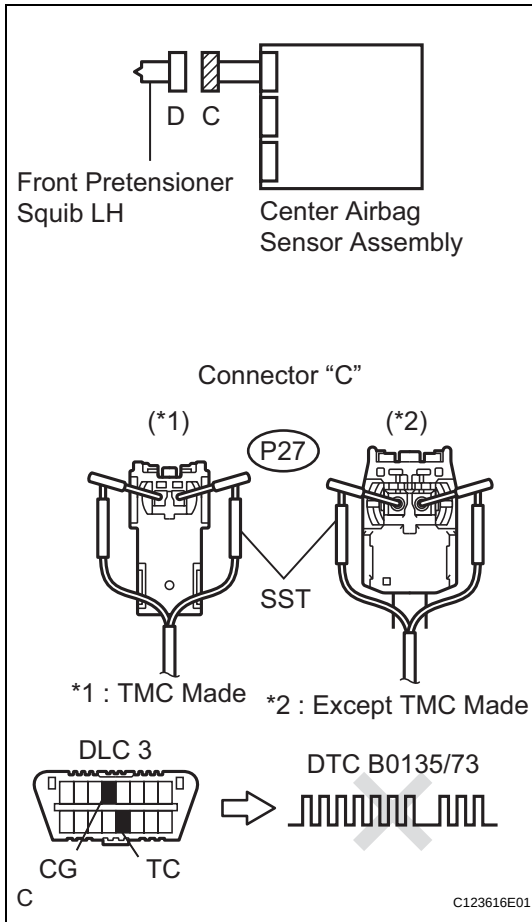
DTC B0135/73 is recorded when a short circuit is detected in the front pretensioner squib LH circuit.

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)



- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front seat outer belt assembly LH.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page RS-32).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the SST (resistance 2.1 Ω) from the floor wire No.2.
- 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.

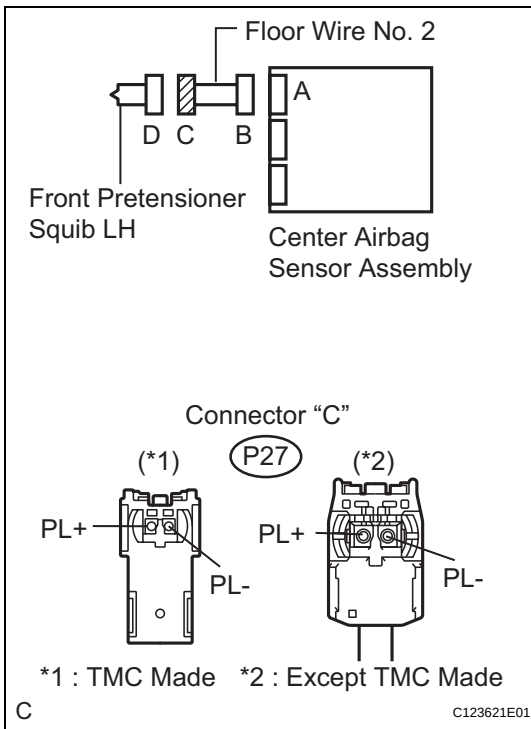
NG

REPAIR OR REPLACE FLOOR WIRE NO.2

OK

3

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



- Disconnect the connector from the center airbag sensor assembly.
- Release the activation prevention mechanism built into connector "B" (See page RS-25).
- 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

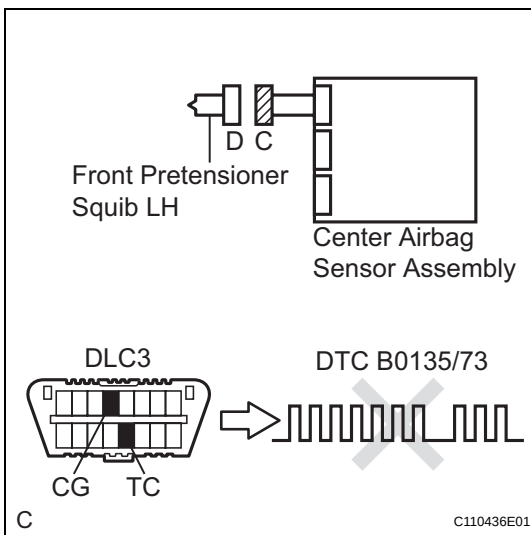
NG

REPAIR OR REPLACE FLOOR WIRE NO.2

OK

4

CHECK CENTER AIRBAG SENSOR ASSEMBLY



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

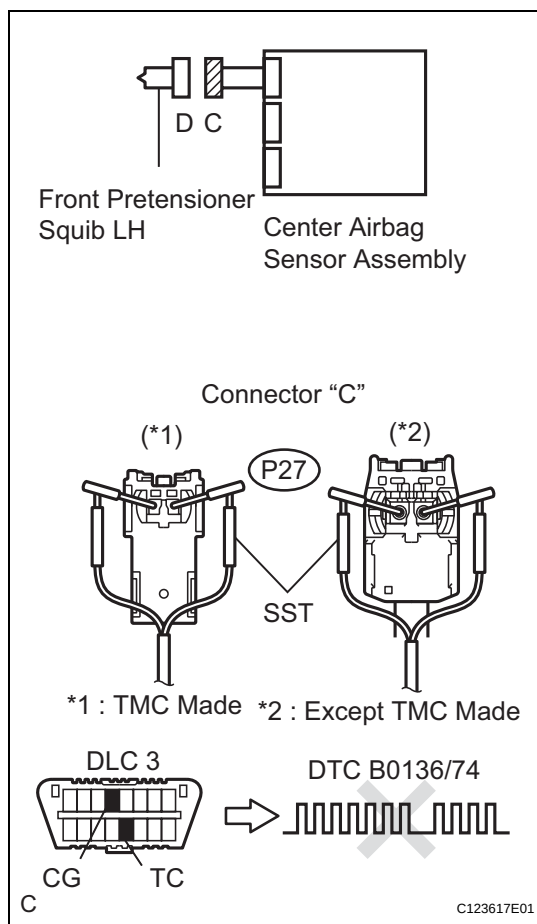
This circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front seat outer belt assembly LH.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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

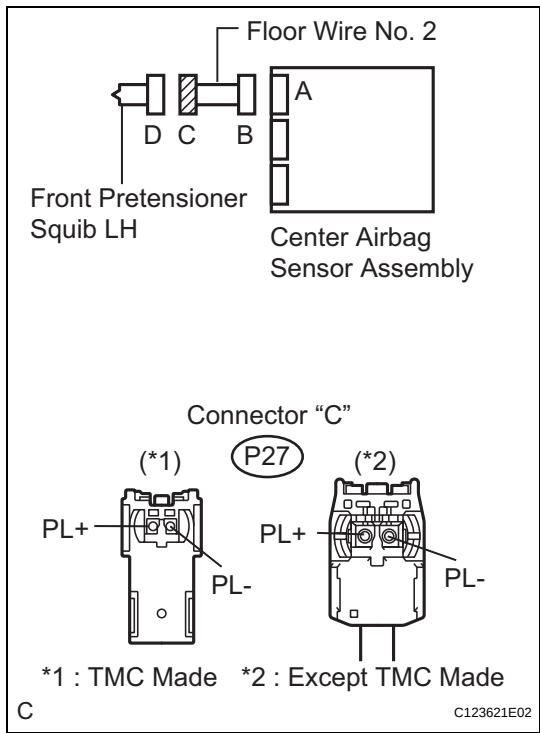
Go to step 2

OK

REPLACE FRONT SEAT OUTER BELT ASSEMBLY LH

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

RS



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

Resistance

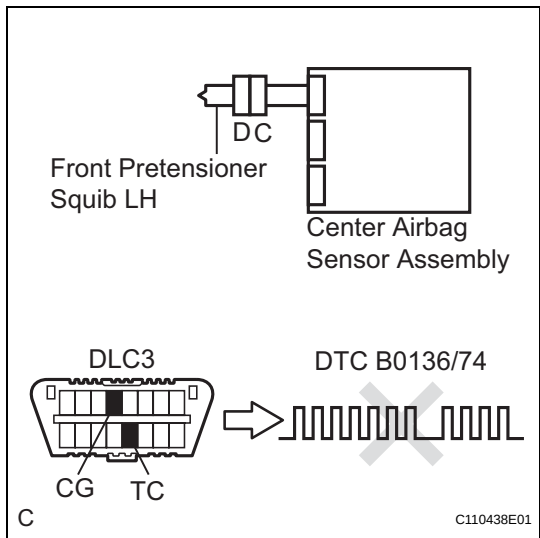
Tester connection	Condition	Specified condition
P27-1 (PL+) - P27-2 (PL-)	Always	Below 1 Ω

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

RS

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

DESCRIPTION

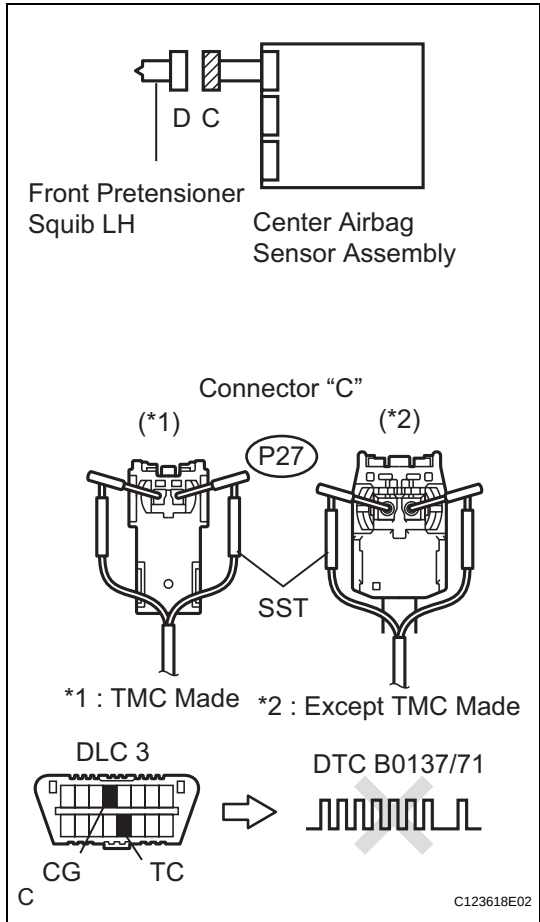
The front pretensioner squib LH circuit consists of the center airbag sensor assembly and the front seat outer belt assembly LH (front pretensioner squib LH).
This circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0137/71 is recorded when a short to ground is detected in the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

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

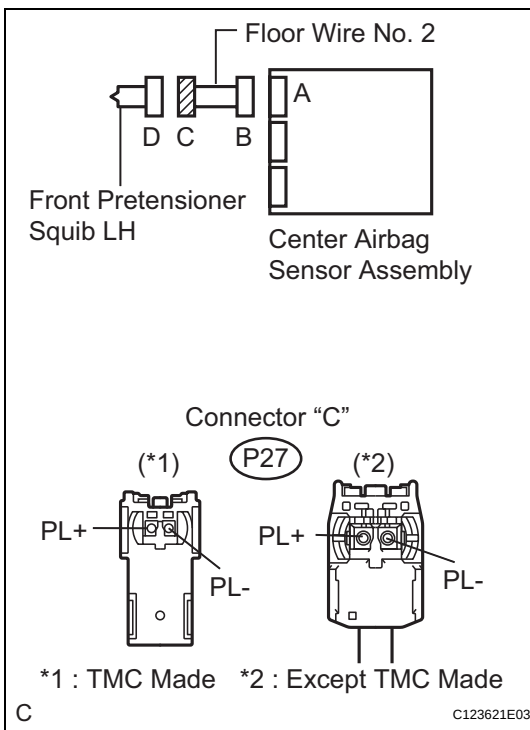
Go to step 2

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

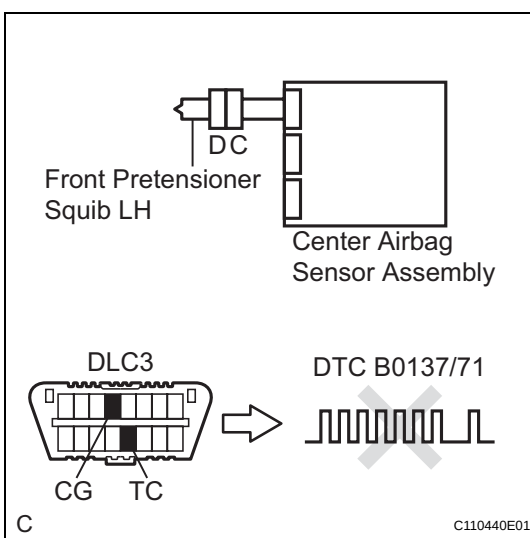
REPAIR OR REPLACE FLOOR WIRE NO.2

RS

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).

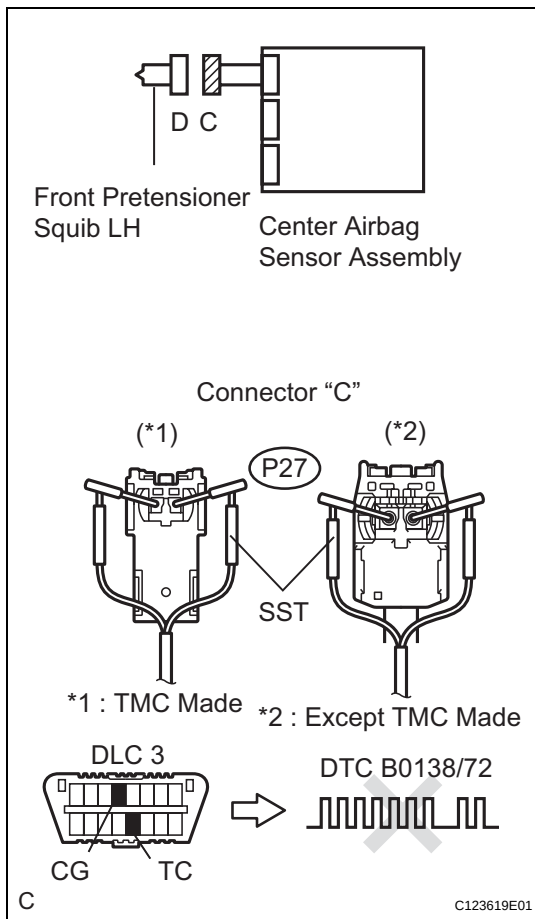
This circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front seat outer belt assembly LH.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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.

OK

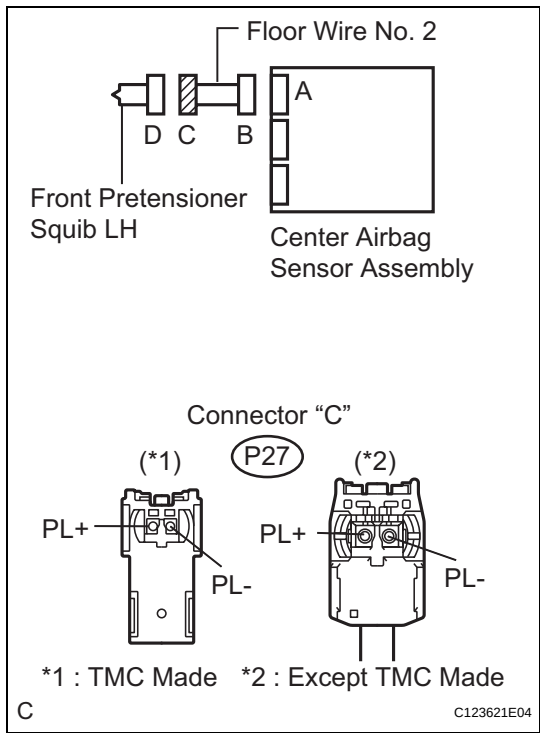
NG

Go to step 2

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

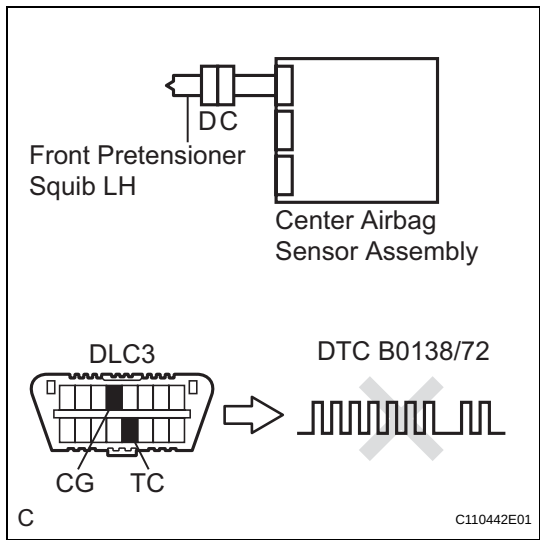
NG

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

RS

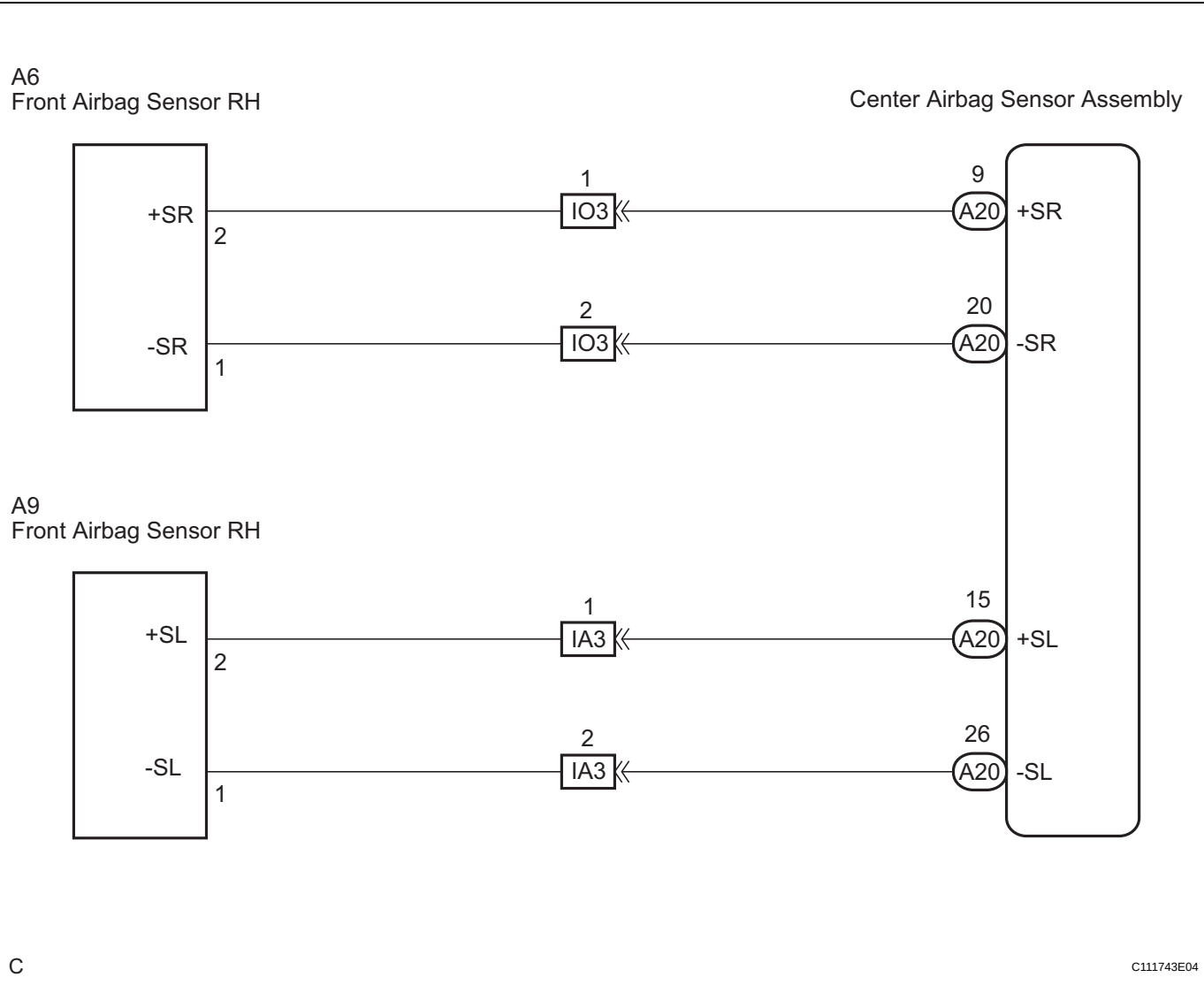
DTC	B1100/31	Center Airbag Sensor Assembly Malfunction

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

WIRING DIAGRAM



A9
Front Airbag Sensor RH

+SL

2

-SL

1

1

IA3

2

IA3

15

A20

+SL

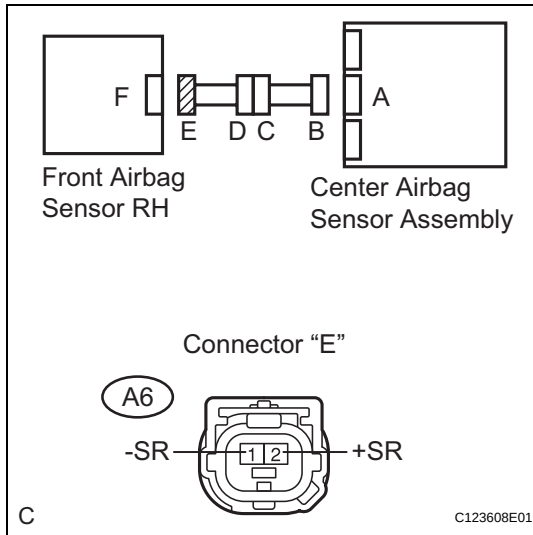
26

A20

-SL

C

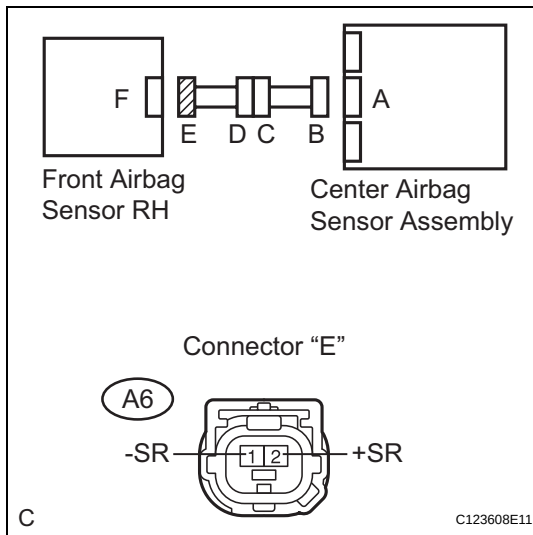
C111743E04

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

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front airbag sensor RH and the center airbag sensor assembly.
- 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**Go to step 8****OK****2 CHECK FRONT AIRBAG SENSOR RH CIRCUIT (SHORT TO B+)**

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

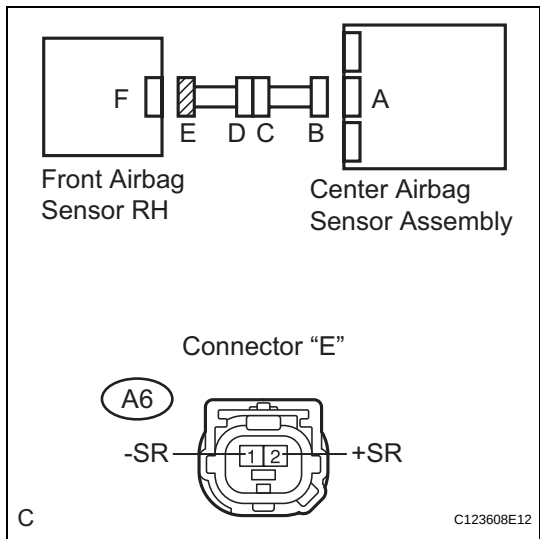
Voltage

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)



OK

- (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.

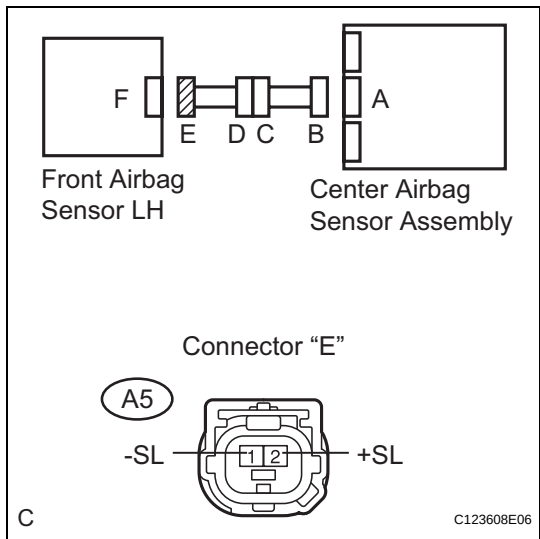
Resistance

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

NG Go to step 10

4

CHECK FRONT AIRBAG SENSOR LH CIRCUIT (SHORT TO GROUND)



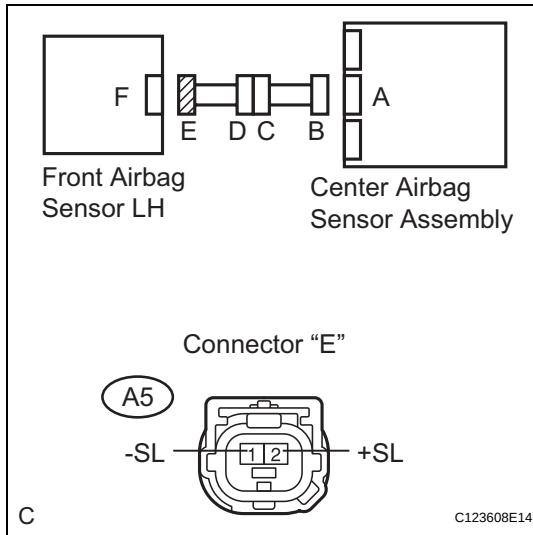
OK

- (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

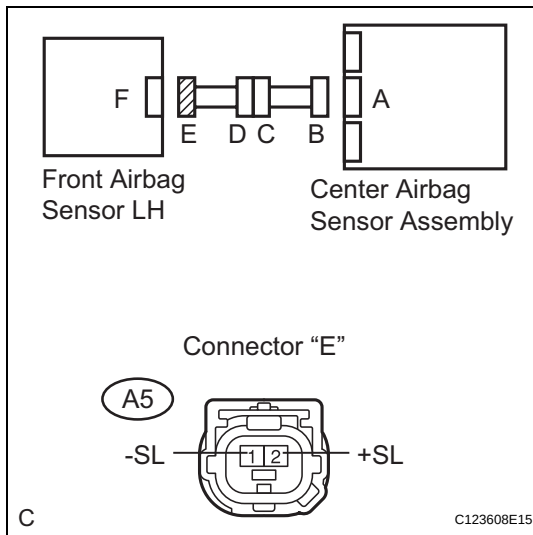
NG Go to step 11

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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- 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

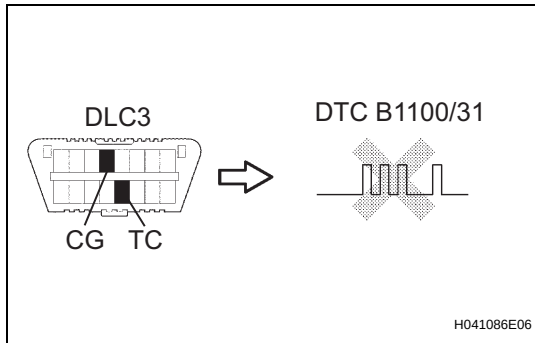
NG**Go to step 12****OK****6 CHECK FRONT AIRBAG SENSOR LH CIRCUIT (SHORT)**

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

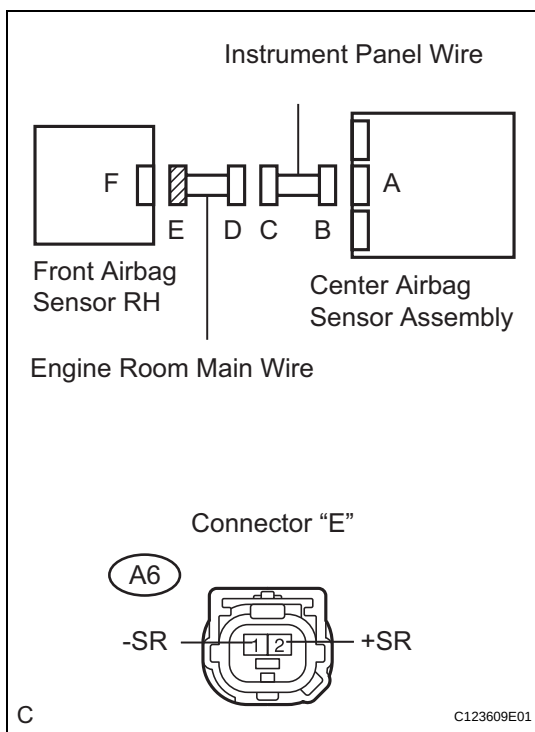
Resistance

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

NG**Go to step 13****OK****RS**

7 CHECK CENTER AIRBAG SENSOR ASSEMBLY

- Connect the connectors to the center airbag sensor assembly, front airbag sensors RH and LH.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page RS-32).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (See page RS-32).

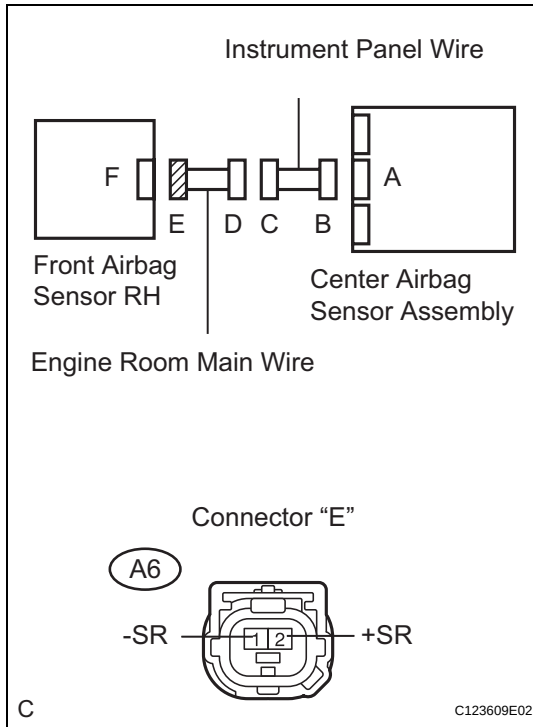
OK:**DTC B1100/31 is not output.****NG****REPLACE CENTER AIRBAG SENSOR ASSEMBLY****OK****USE SIMULATION METHOD TO CHECK****8 CHECK ENGINE ROOM MAIN WIRE (SHORT TO GROUND)**

- Disconnect the engine room main wire connector from the instrument panel wire.
- 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+)**

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

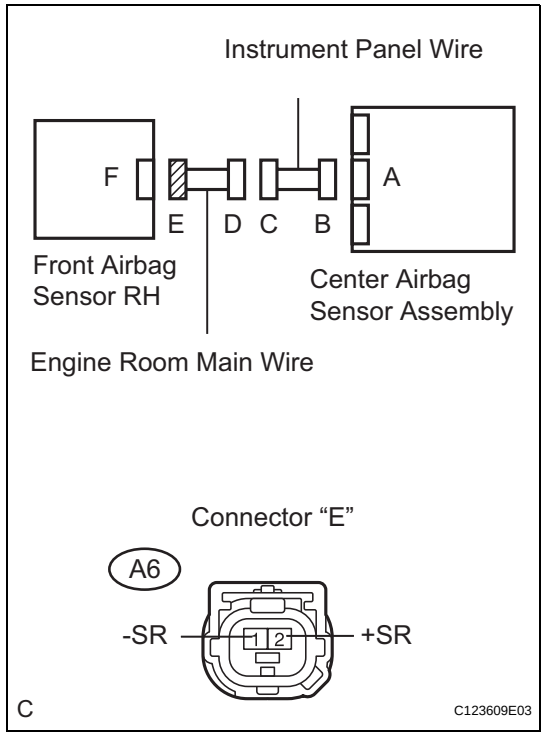
Voltage

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

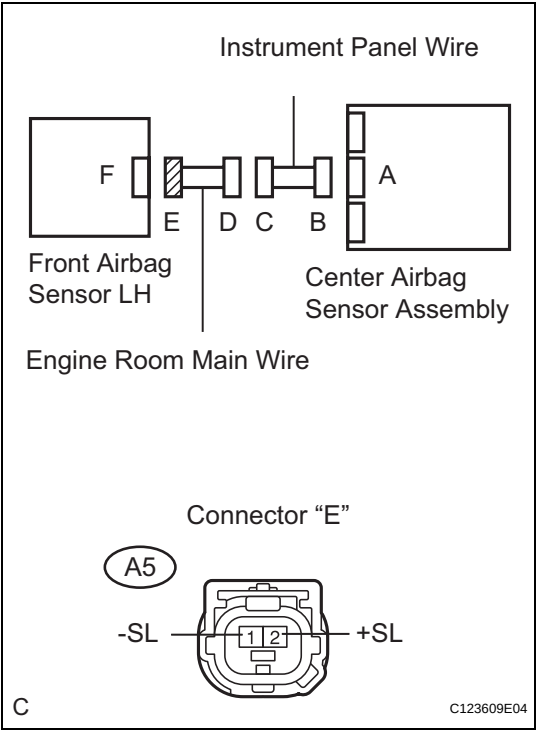
NG

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

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

NG

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

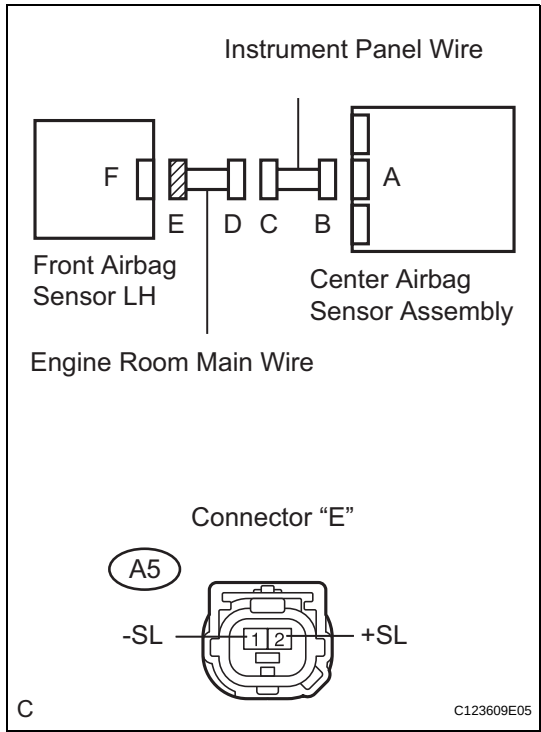
OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

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

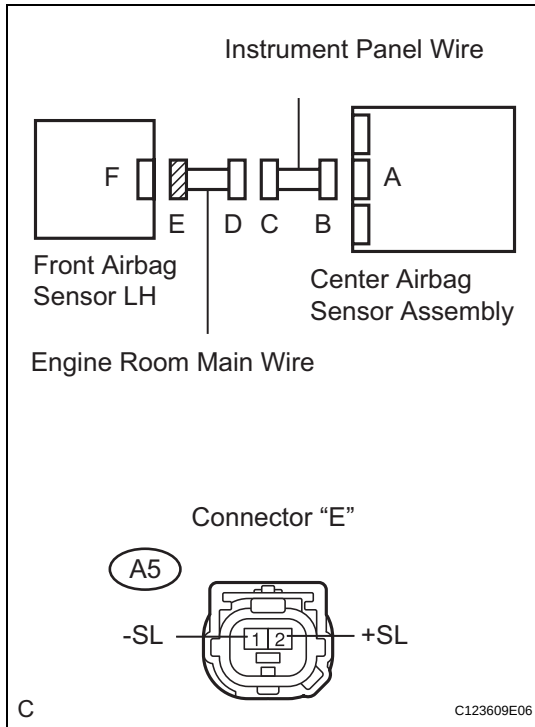
Tester connection	Condition	Specified condition
A5-2 (+SL) - Body ground	Ignition switch ON	Below 1 V
A5-1 (-SL) - Body ground	Ignition switch ON	Below 1 V

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****RS****OK****REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

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

1	CHECK CENTER AIRBAG SENSOR ASSEMBLY CONNECTOR

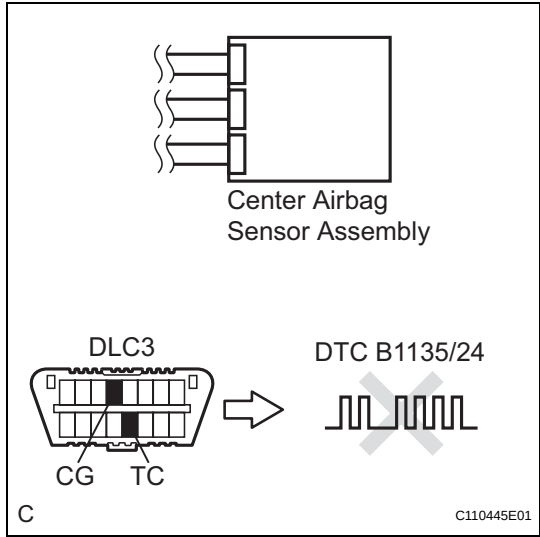
- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Check the connection of the center airbag sensor assembly connectors.

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.

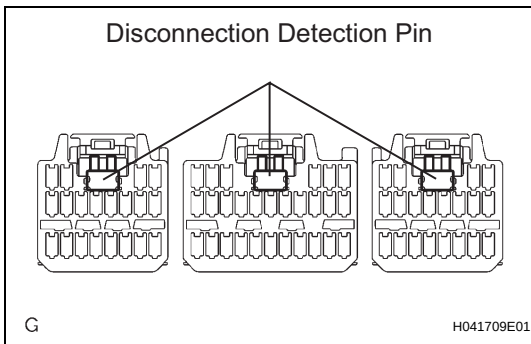
NG	Go to step 3

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.

NG

REPAIR OR REPLACE CENTER AIRBAG
SENSOR ASSEMBLY CONNECTOR

OK

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

RS

DTC	B1140/32	Side Airbag Sensor Assembly RH Circuit Malfunction

DESCRIPTION

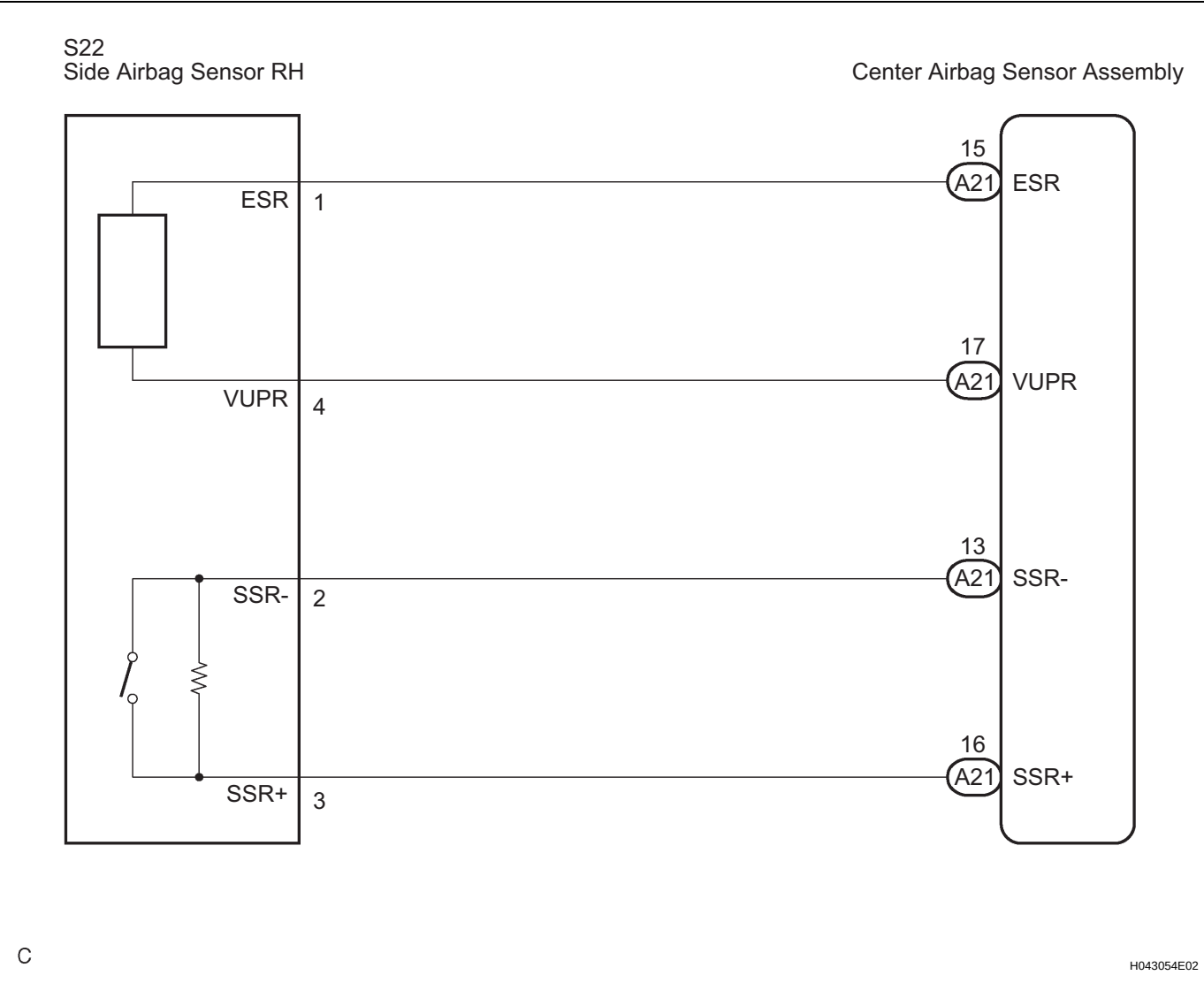
The side airbag sensor RH circuit consists of the safing sensor, the diagnostic circuit and the lateral deceleration sensor, etc.

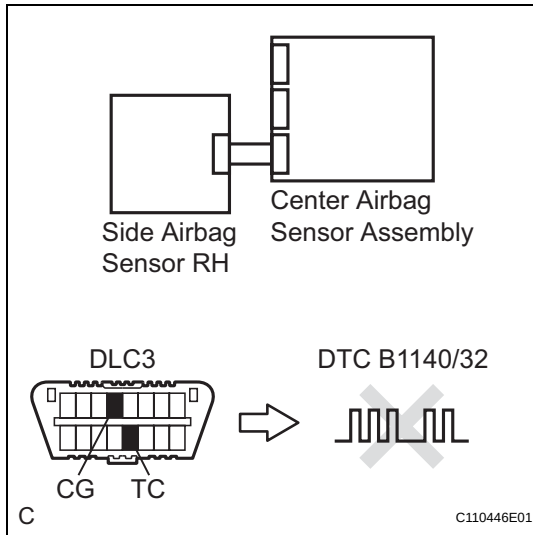
If the center airbag sensor assembly receives signals from the lateral deceleration sensor, it judges whether or not the SRS should be activated.

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

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.

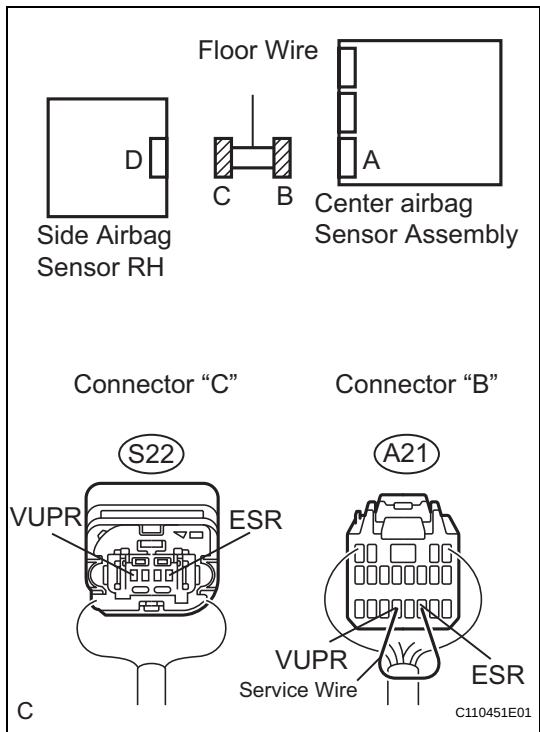
NG**Go to step 2****OK****RS****USE SIMULATION METHOD TO CHECK****2 CHECK CONNECTION OF CONNECTORS**

- (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

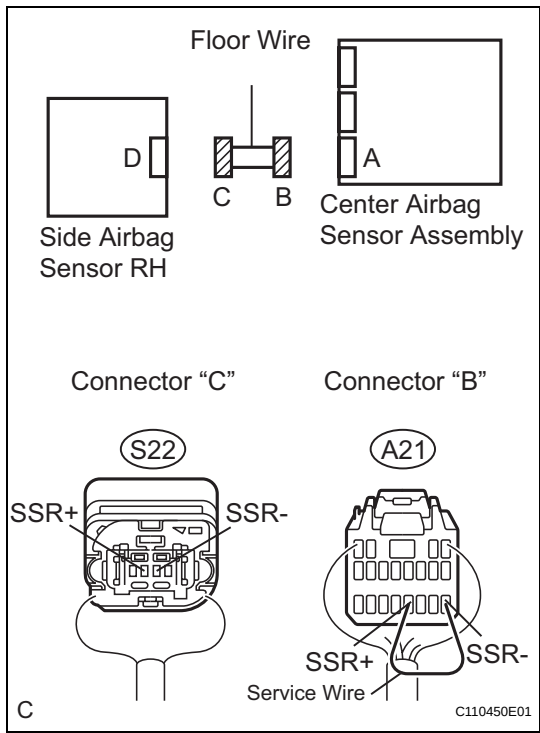
CHECK FLOOR WIRE (OPEN)



- (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.

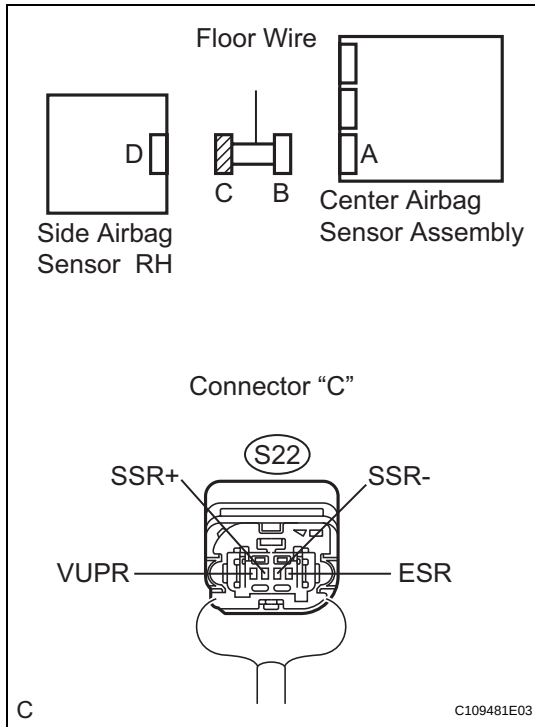
Resistance

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

NG

REPAIR OR REPLACE FLOOR WIRE

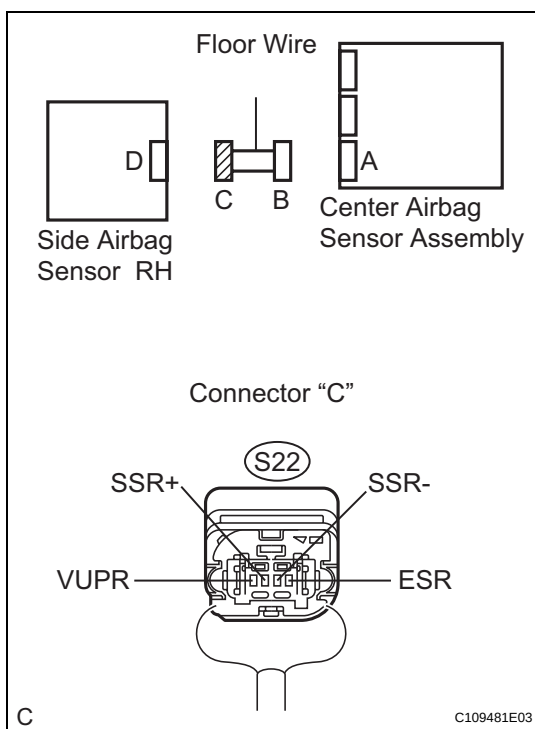
OK

4 CHECK FLOOR WIRE (SHORT TO B+)

- Disconnect the service wire from connector "B".
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- 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)**

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

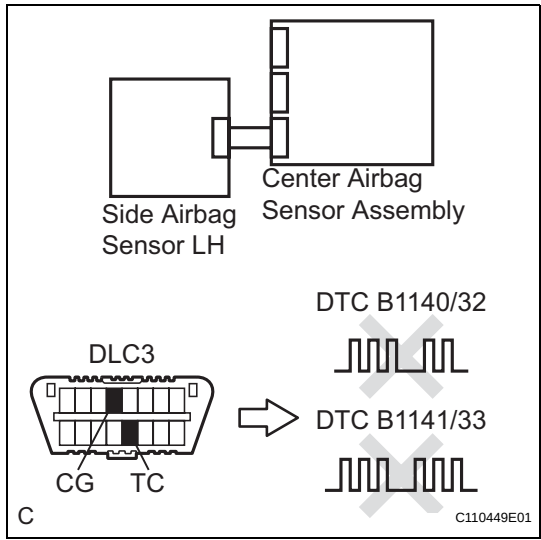
Resistance

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**

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

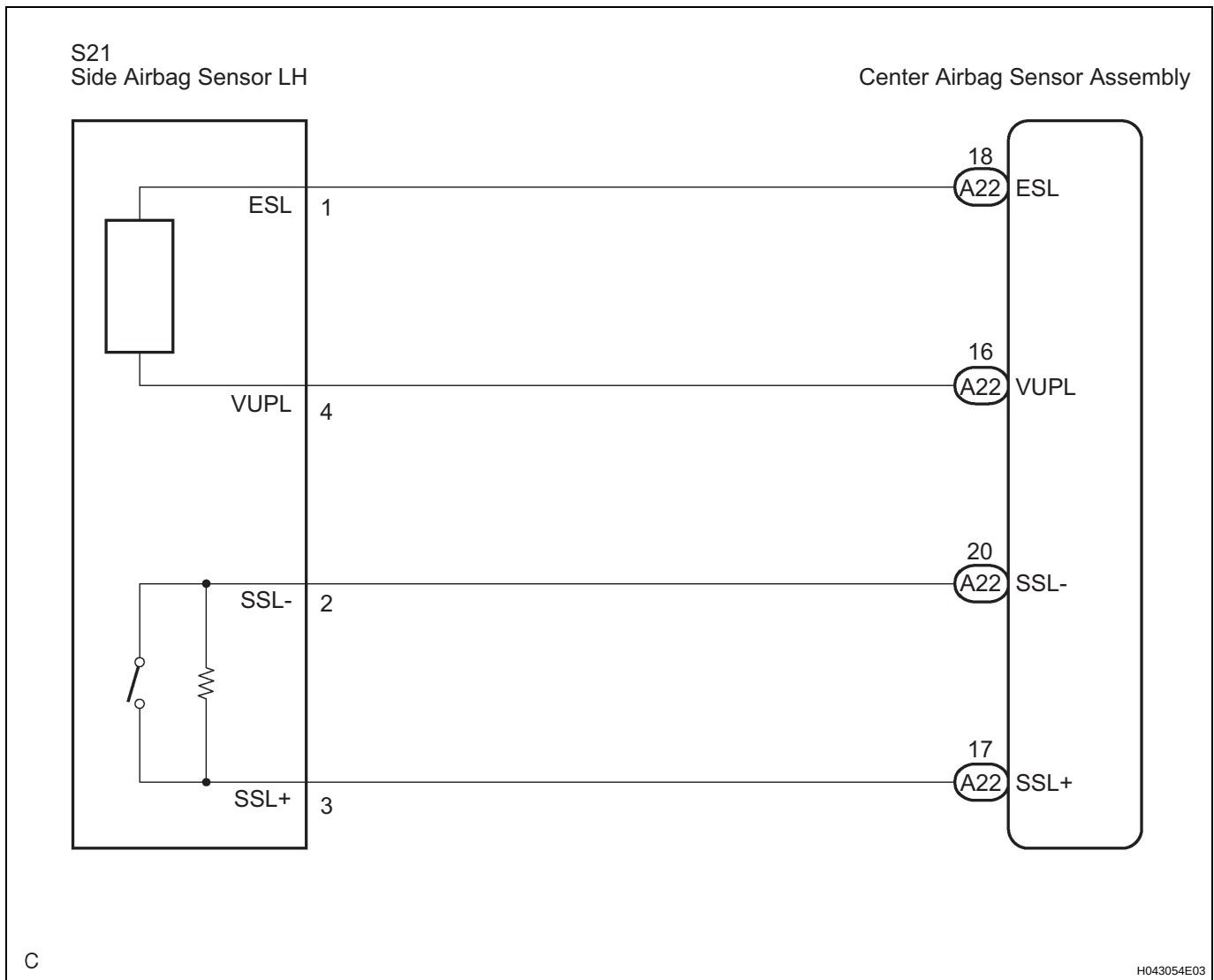
DTC**B1141/33****Side Airbag Sensor Assembly LH Circuit Malfunction****DESCRIPTION**

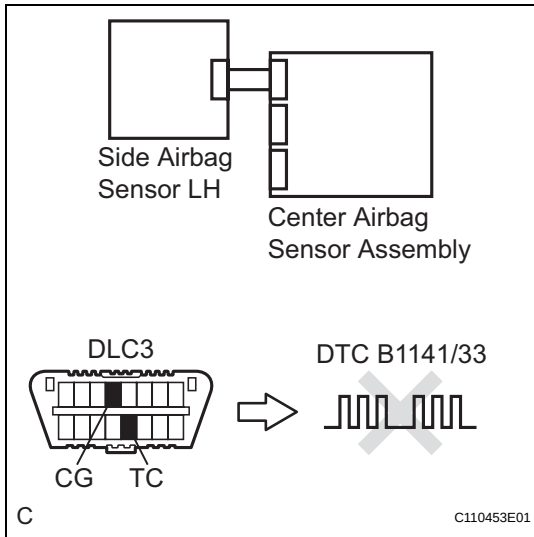
The side airbag sensor LH circuit consists of the safing sensor, the diagnostic circuit and the lateral deceleration sensor, etc.

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

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

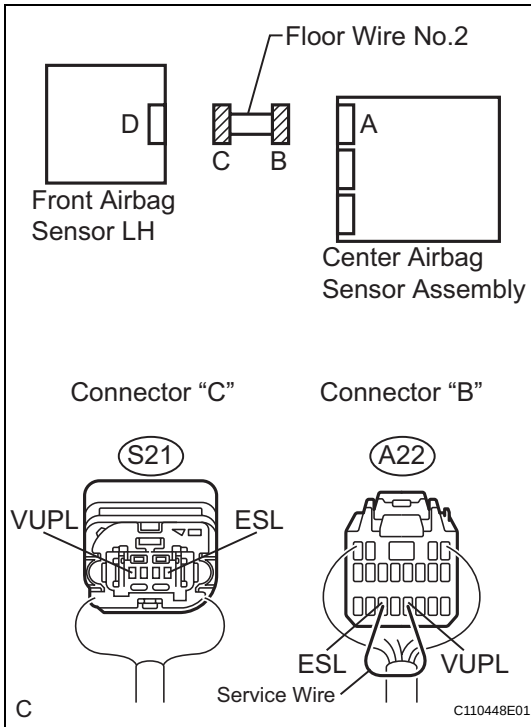
NG**Go to step 2****OK****USE SIMULATION METHOD TO CHECK****2 CHECK CONNECTION OF CONNECTORS**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- 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".

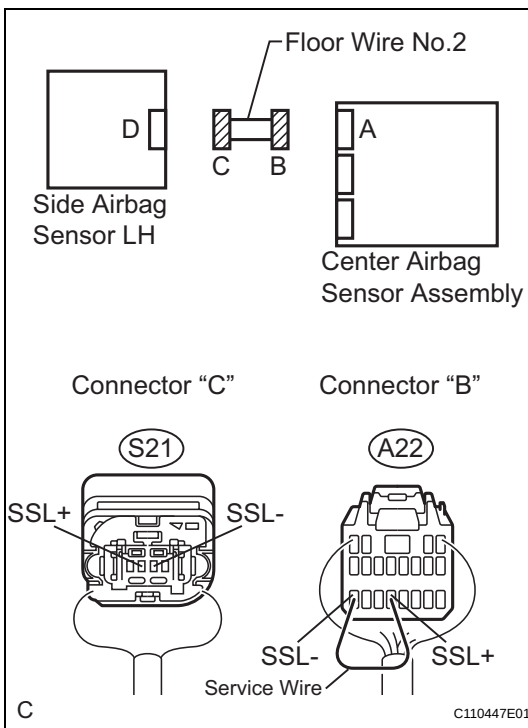
HINT:

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



(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.

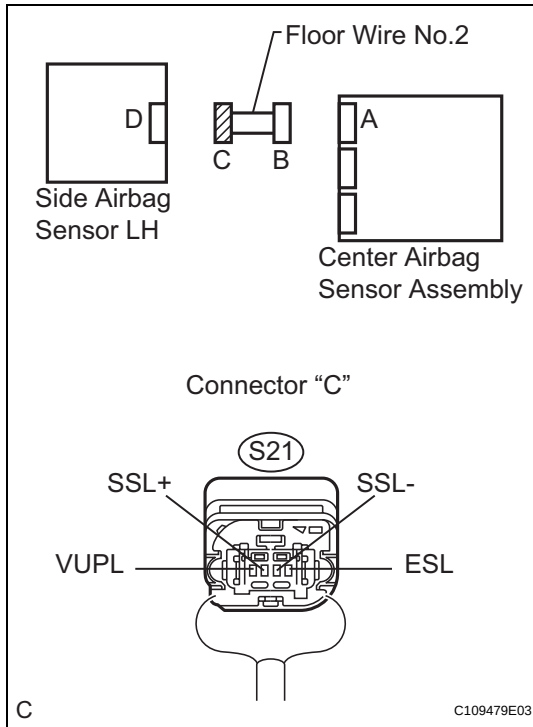
Resistance

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

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

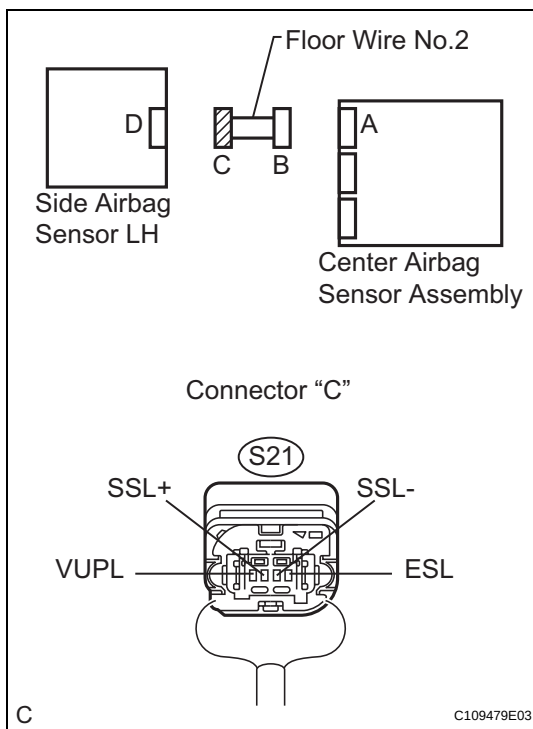
OK

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

- Disconnect the service wire from connector "B".
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- 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

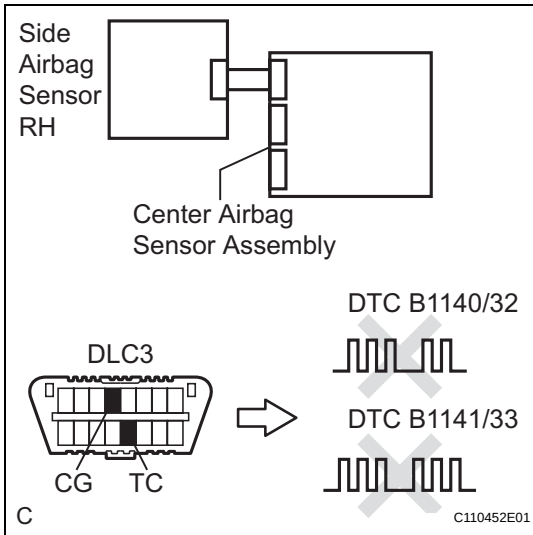
NG**REPAIR OR REPLACE FLOOR WIRE NO.2****OK****5 CHECK FLOOR WIRE NO.2 (SHORT TO GROUND)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- 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****RS**

DTC

B1148/36

Front Airbag Sensor RH Circuit Malfunction

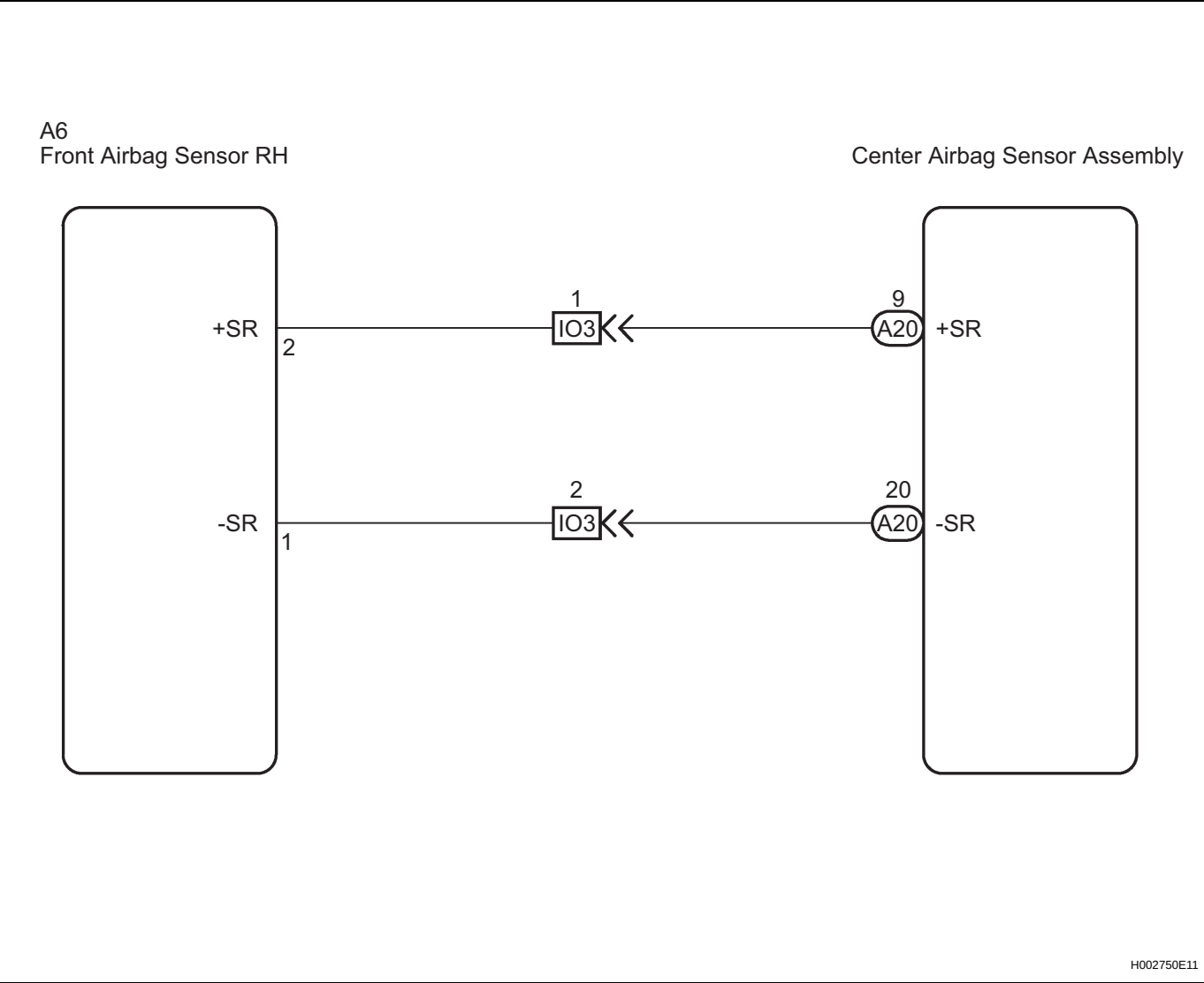
DESCRIPTION

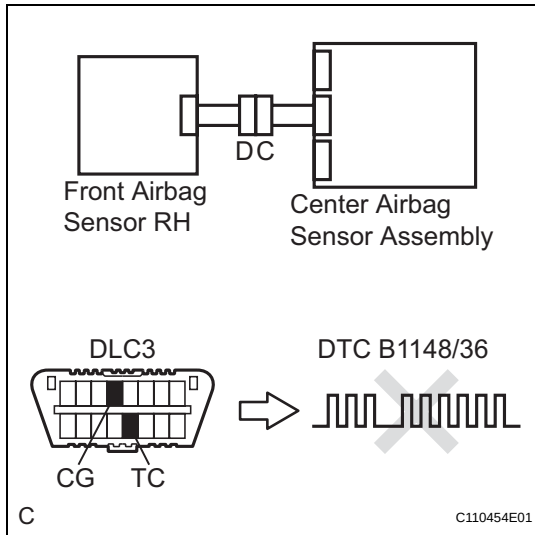
The front airbag sensor RH circuit consists of the diagnosis circuit and the frontal deceleration sensor, etc. If the center airbag sensor assembly receives signals from the frontal deceleration sensor, it judges whether or not the SRS should be activated.
DTC B1148/36 is recorded when a malfunction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

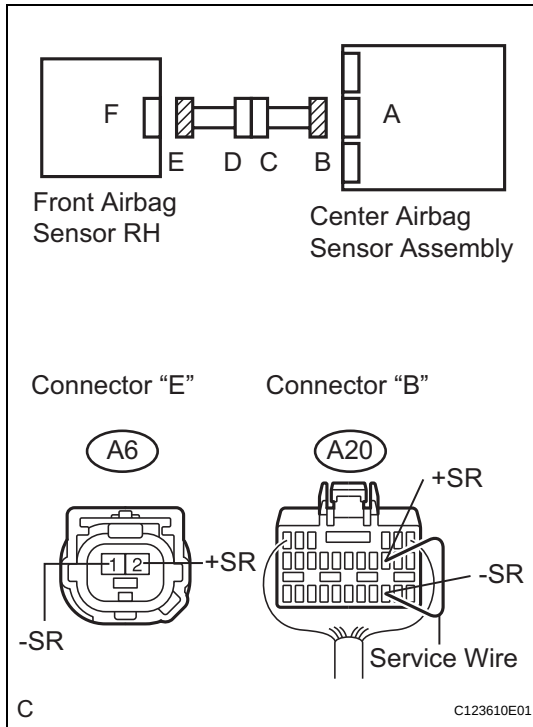
OK:**DTC B1148/36 is not output.****HINT:**

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****RS****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)

- Disconnect the connectors from the center airbag sensor assembly and the front airbag sensor RH.
- Using a service wire, connect A20-9 (+SR) and A20-20 (-SR) of connector "B".

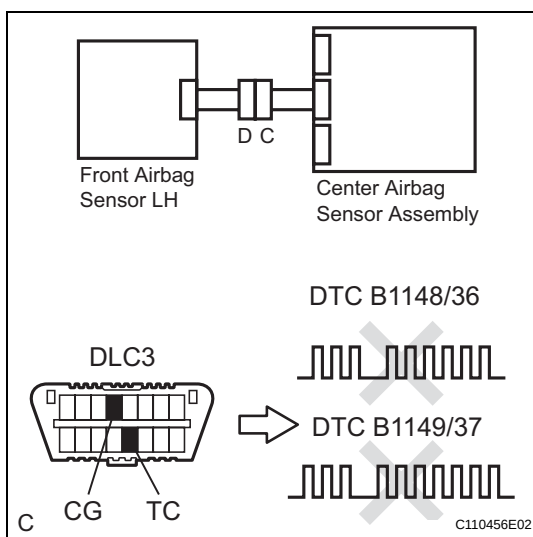
HINT:

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

- 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**

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

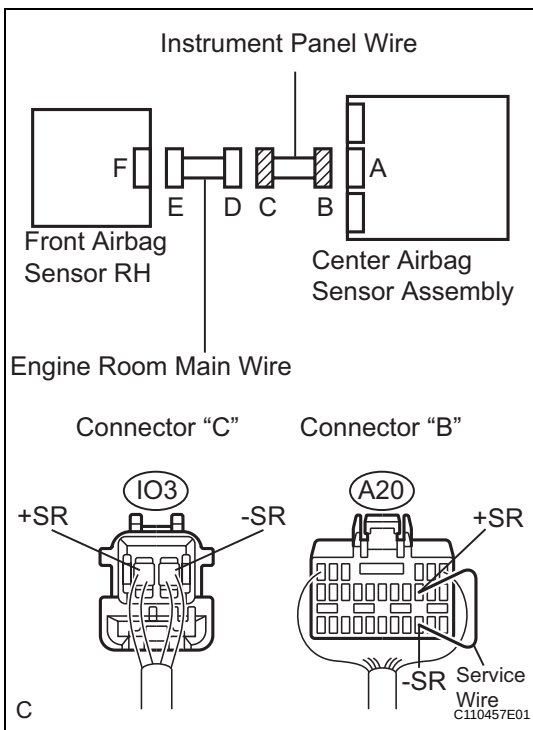
REPLACE FRONT AIRBAG SENSOR RH

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

RS

DTC	B1149/37	Front Airbag Sensor LH Circuit Malfunction

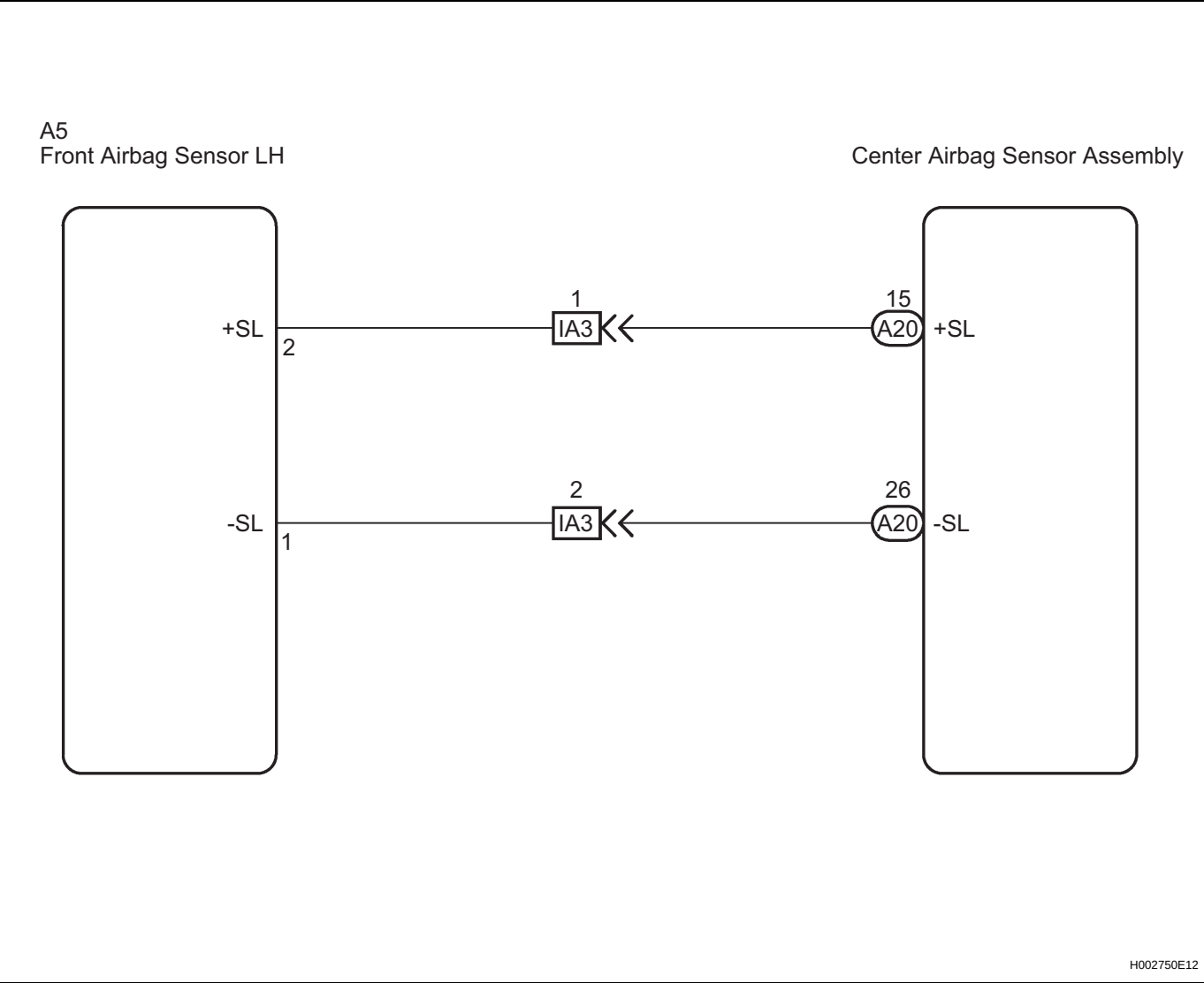
DESCRIPTION

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.

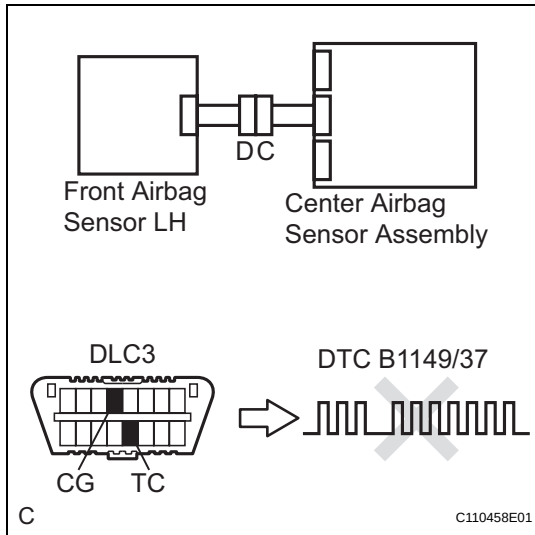
DTC No.	DTC Detecting Condition	Trouble Area
B1149/37	- Open circuit in +SL wire harness or -SL wire harness of front airbag sensor LH circuit - Front airbag sensor LH malfunction - Center airbag sensor assembly malfunction	- Front airbag sensor LH - Center airbag sensor assembly - Engine room main wire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

RS

WIRING DIAGRAM



H002750E12

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).

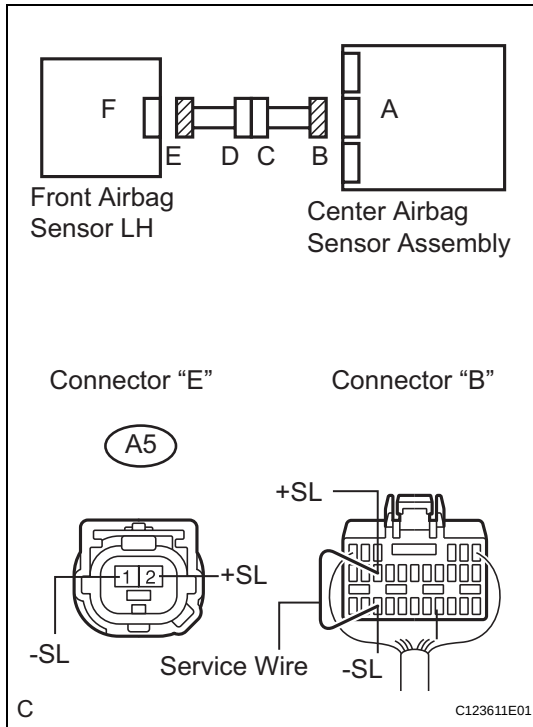
OK:**DTC B1149/37 is not output.****HINT:**

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

NG**Go to step 2****OK****RS****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.

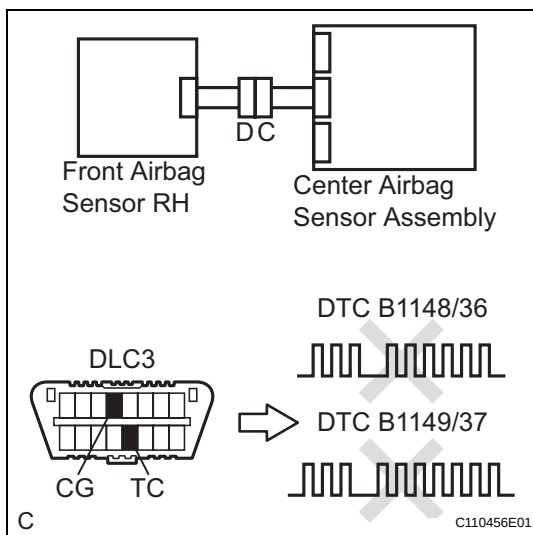
Resistance

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.

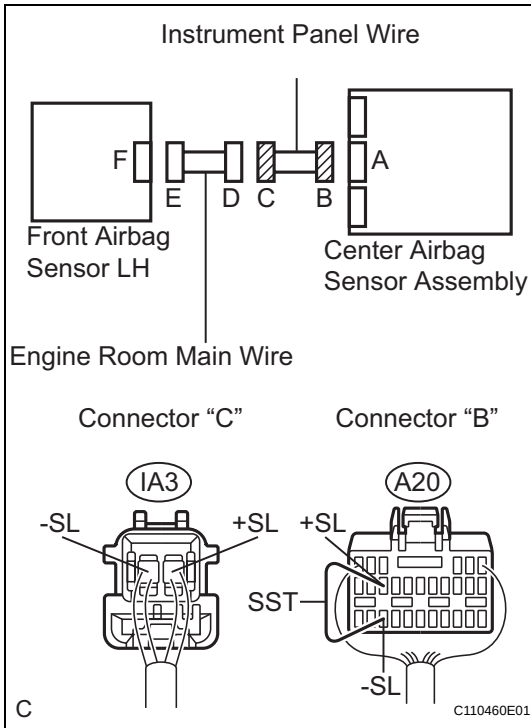
NG:A

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

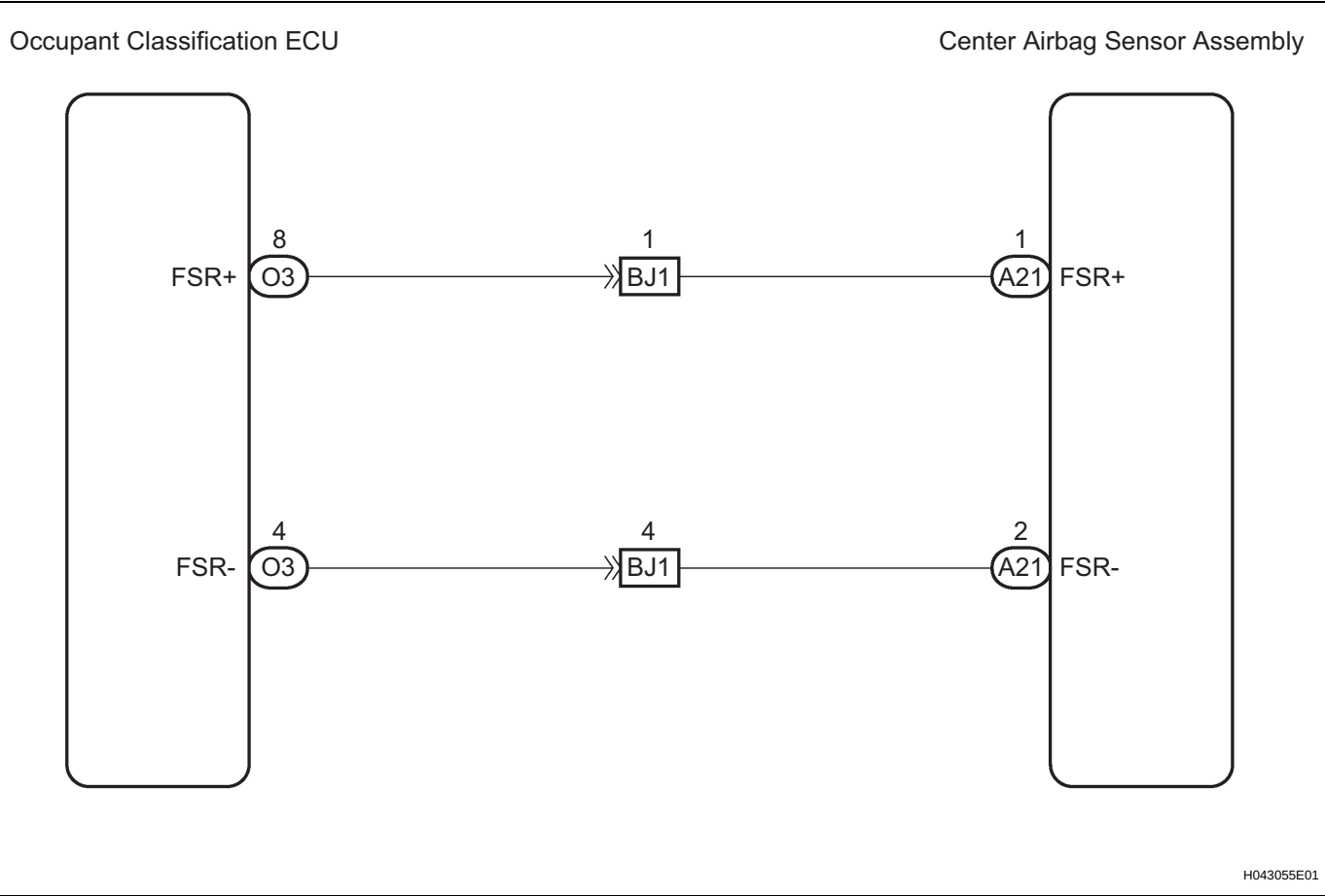
The occupant classification system circuit consists of the center airbag sensor assembly and the occupant classification ECU.

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

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:

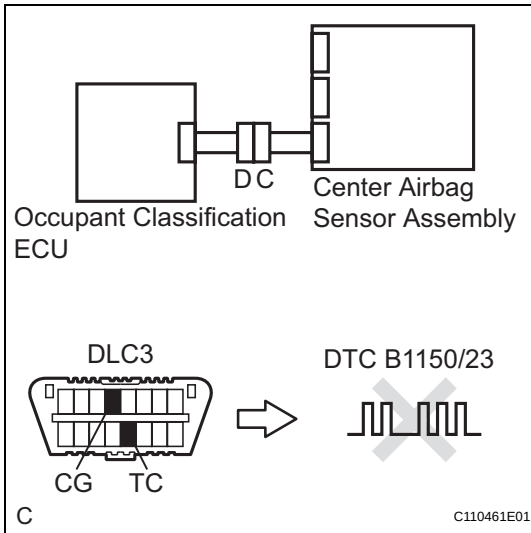
DTC is not output.

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.

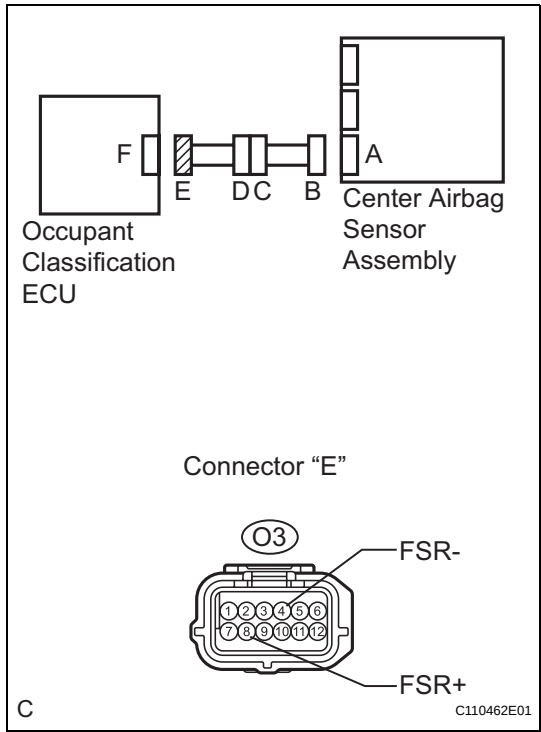
NG

CONNECT CONNECTORS, THEN GO TO STEP 1

OK

RS

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

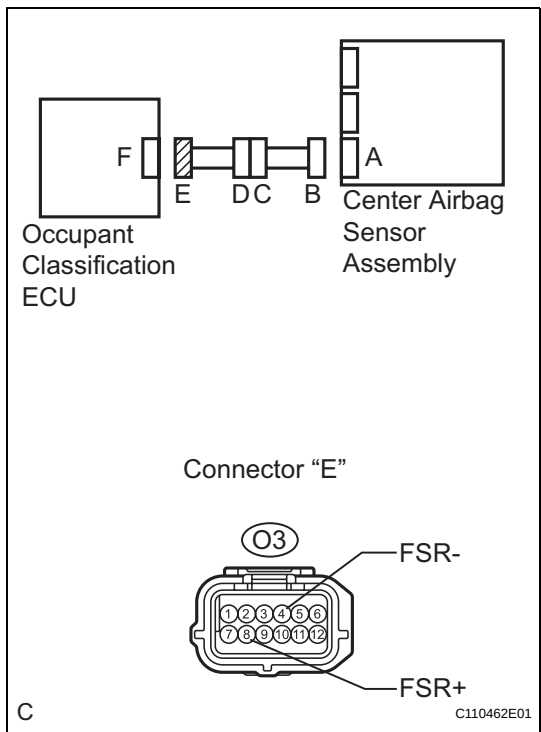
Tester connection	Condition	Specified condition
O3-8 (FSR+) - Body ground	Always	1 MΩ or Higher
O3-4 (FSR-) - Body ground	Always	1 MΩ or Higher

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.

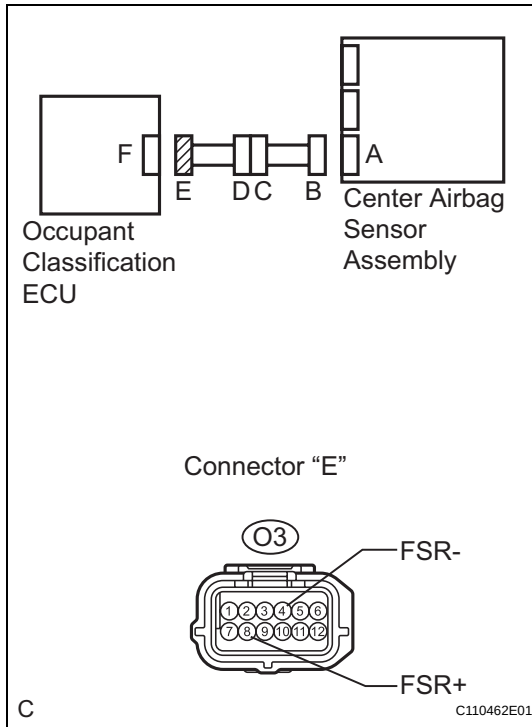
Voltage

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

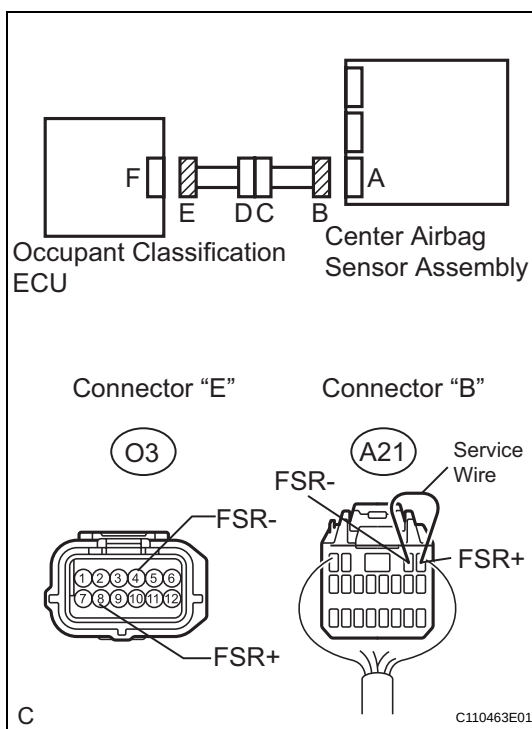
OK

6 CHECK OCCUPANT CLASSIFICATION ECU CIRCUIT (SHORT)

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- 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)**

- 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.

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

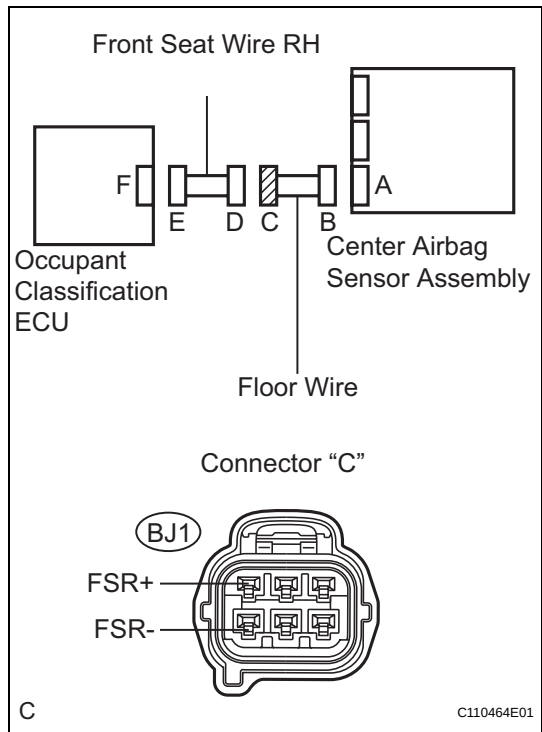
Resistance

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

NG**Go to step 11****OK****RS**

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

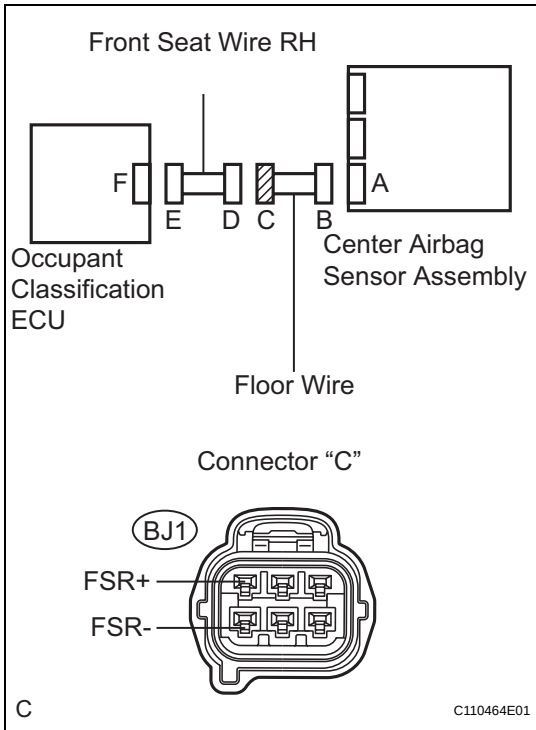
NG

REPAIR OR REPLACE FLOOR WIRE

OK

REPAIR OR REPLACE FRONT SEAT WIRE RH

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

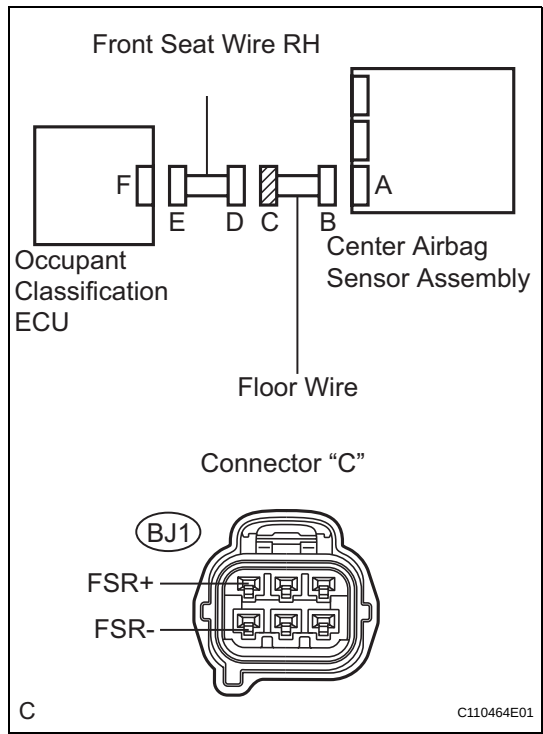
OK

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

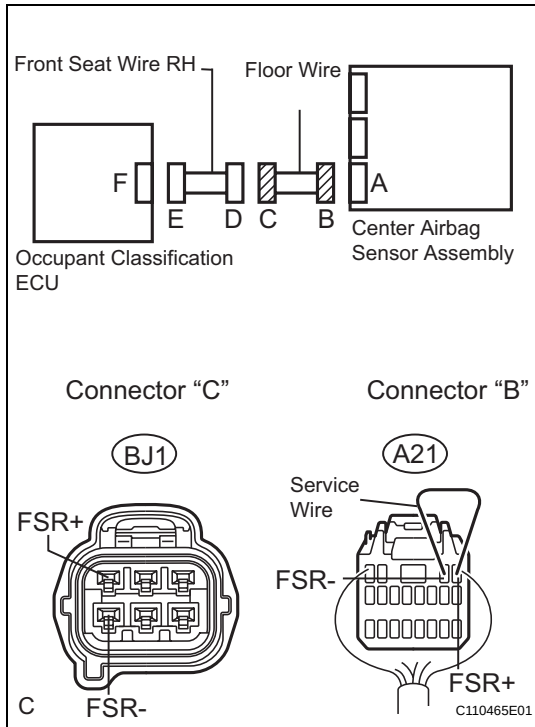
Tester connection	Condition	Specified condition
BJ1-1 (FSR+) - BJ1-4 (FSR-)	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE FLOOR WIRE

OK

REPAIR OR REPLACE FRONT SEAT WIRE RH

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

NG

REPAIR OR REPLACE FLOOR WIRE

OK

REPAIR OR REPLACE FRONT SEAT WIRE RH

RS

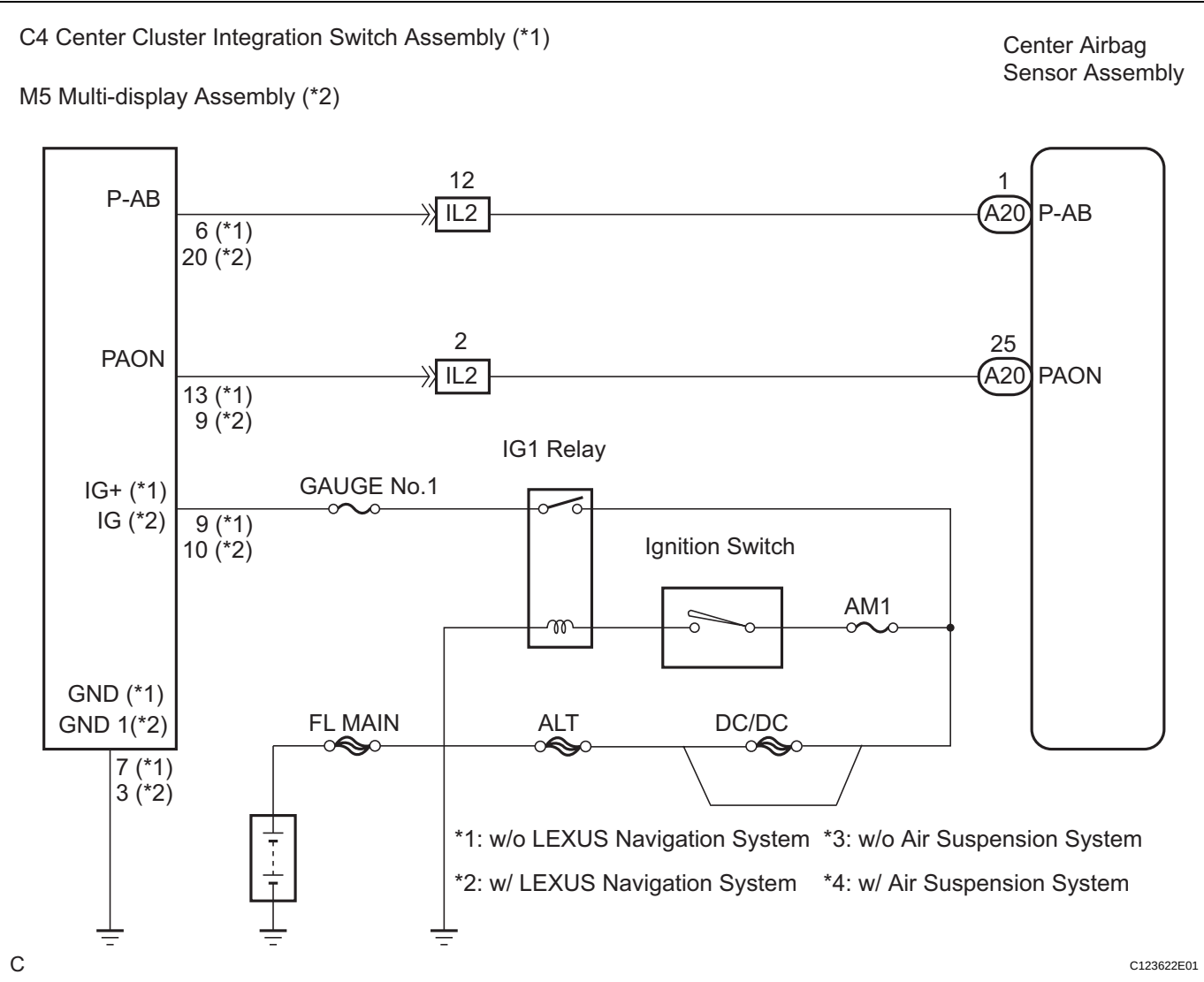
DTC	B1152/28	Passenger Airbag ON/OFF Indicator Circuit Malfunction

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

WIRING DIAGRAM

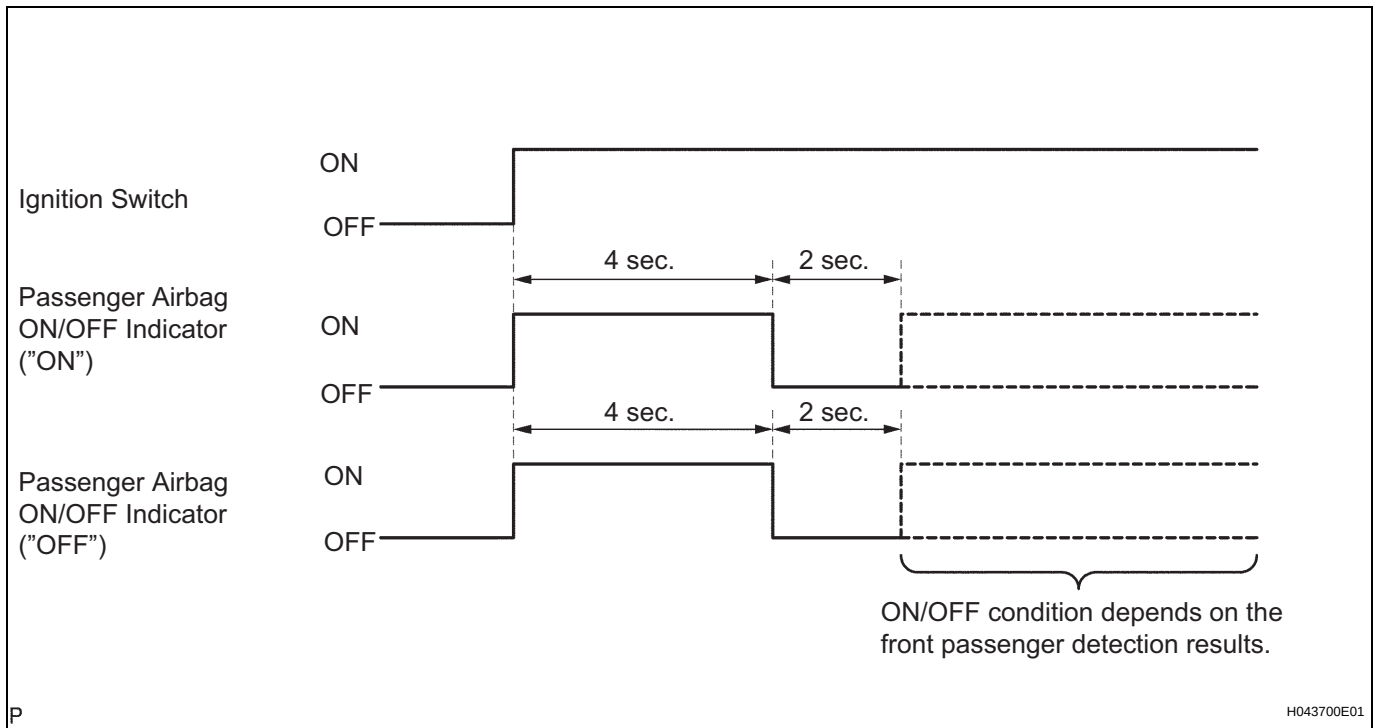


1**CHECK PASSENGER AIRBAG ON/OFF INDICATOR OPERATION**

- (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**

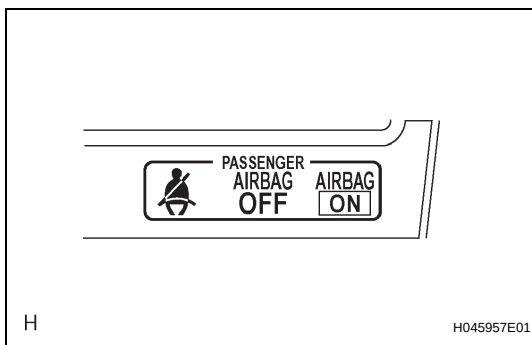
(a) w/o LEXUS Navigation System:

- (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:

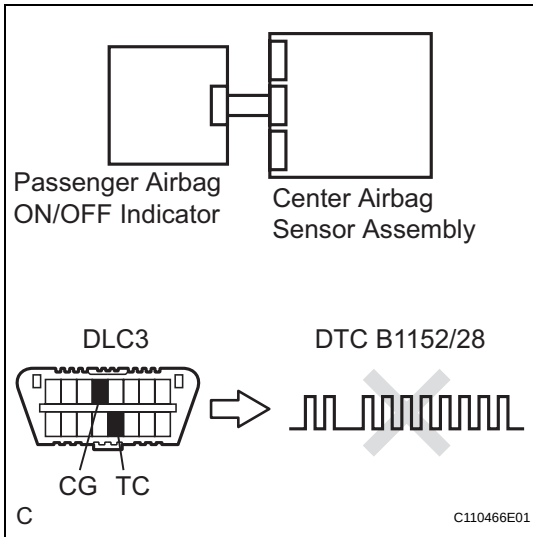
Connect the connector to the multi-display assembly.

(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](#)).

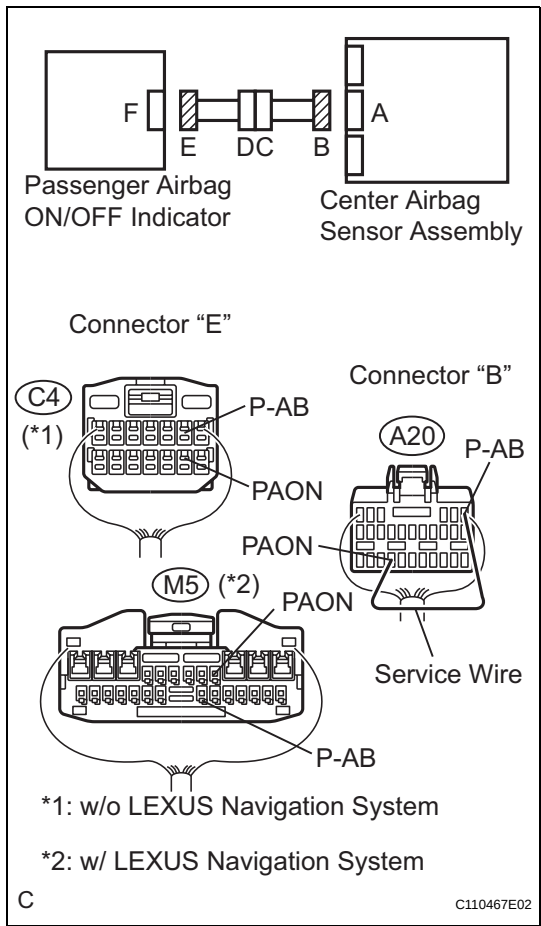
OK:**DTC B1152/28 is not output.****HINT:**

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

NG**REPLACE CENTER AIRBAG SENSOR ASSEMBLY****OK****USE SIMULATION METHOD TO CHECK****RS**

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

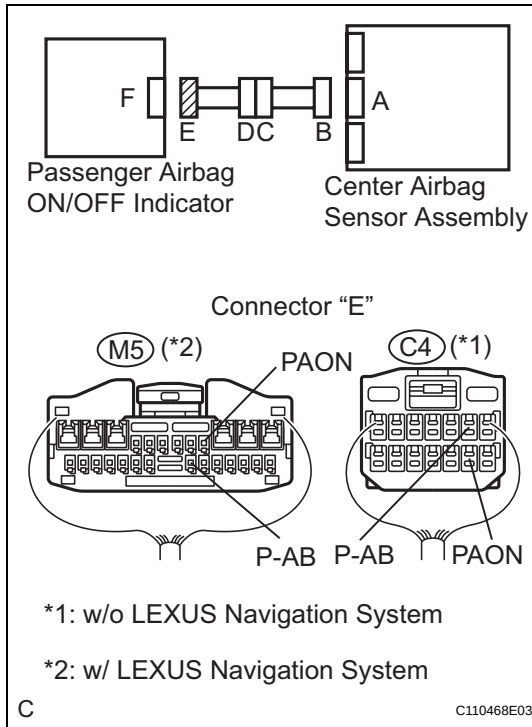
w/ LEXUS Navigation system

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)**

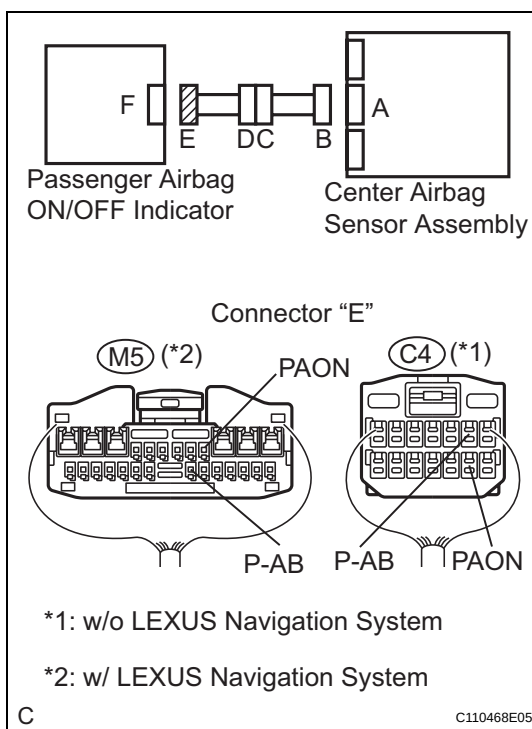
- (a) Disconnect the SST from connector "B".
(b) Measure the resistance according to the value(s) in the table below.

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

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

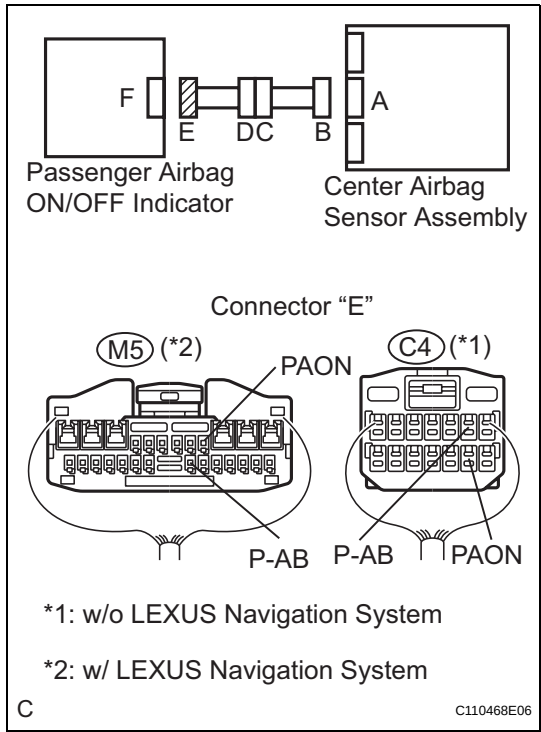
w/ LEXUS Navigation system

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

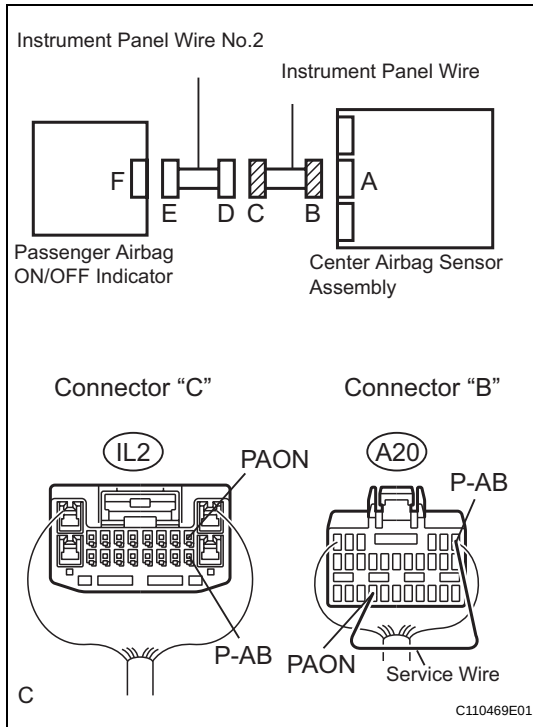
REPLACE CENTER CLUSTER INTEGRATION SWITCH ASSEMBLY (W/O LEXUS NAVIGATION SYSTEM)

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

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

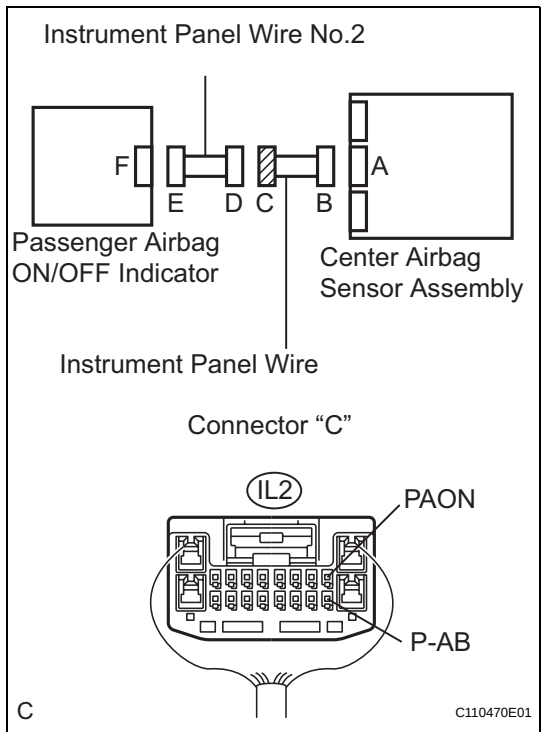
OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.2

RS

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

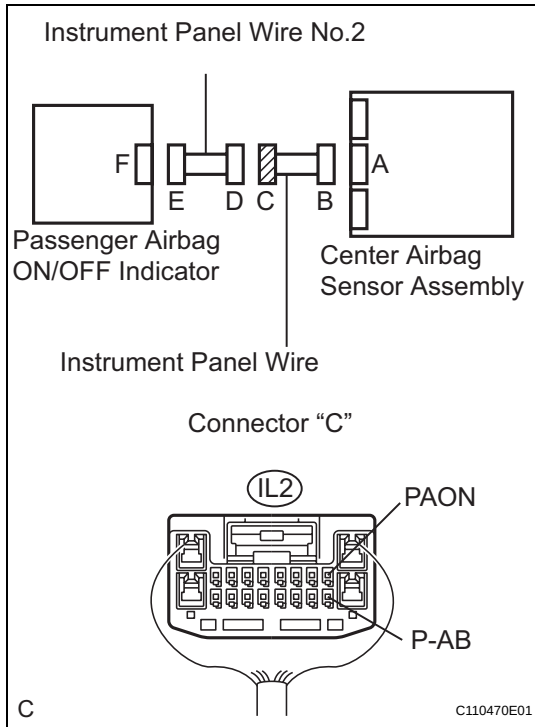
Tester connection	Condition	Specified condition
IL2-12 (P-AB) - IL2-2 (PAON)	Always	1 MΩ or higher

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.

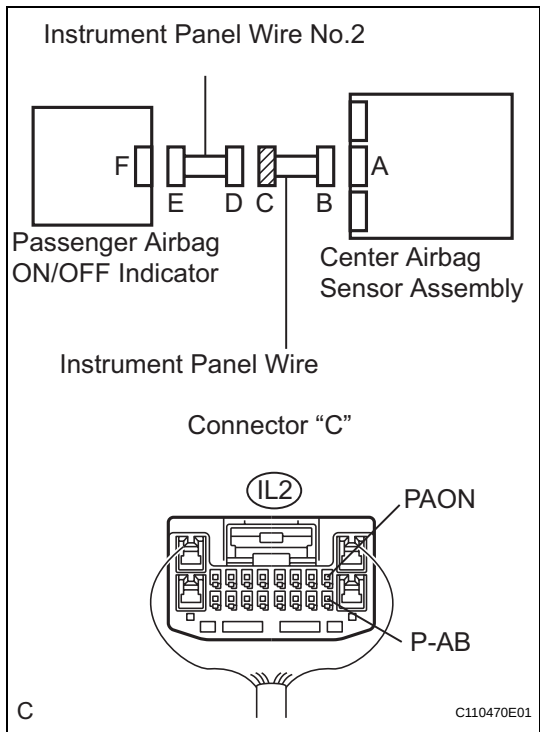
Resistance

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

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.

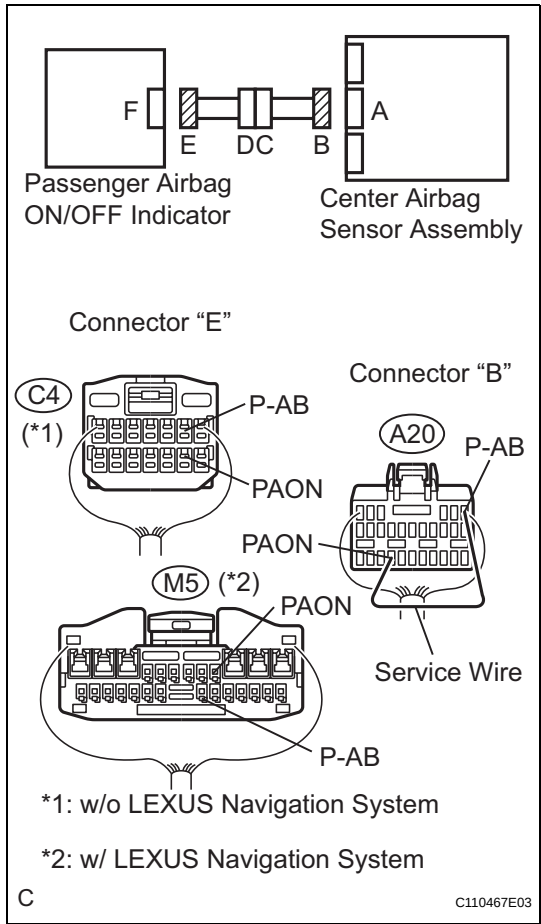
OK:**The connectors are not deformed or damaged.**

- (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.****NG****REPAIR OR REPLACE WIRE HARNESS****OK****RS**

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".
- (f) Measure the resistance according to the value(s) in the table below.

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

Resistance:
w/o LEXUS Navigation system

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

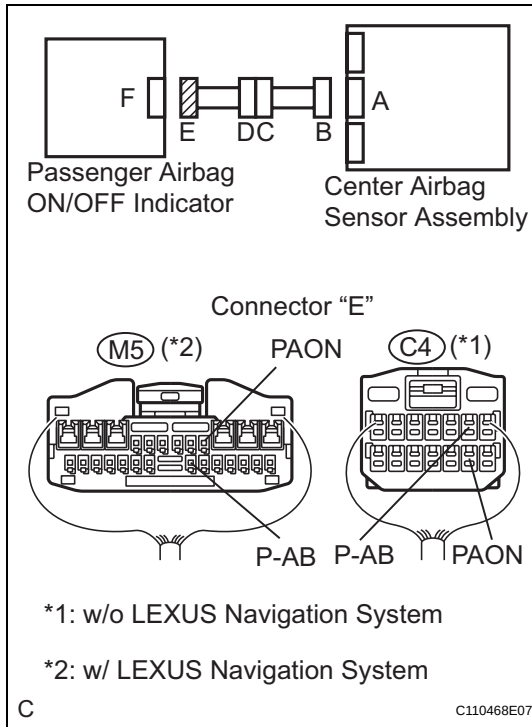
w/ LEXUS Navigation system

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)

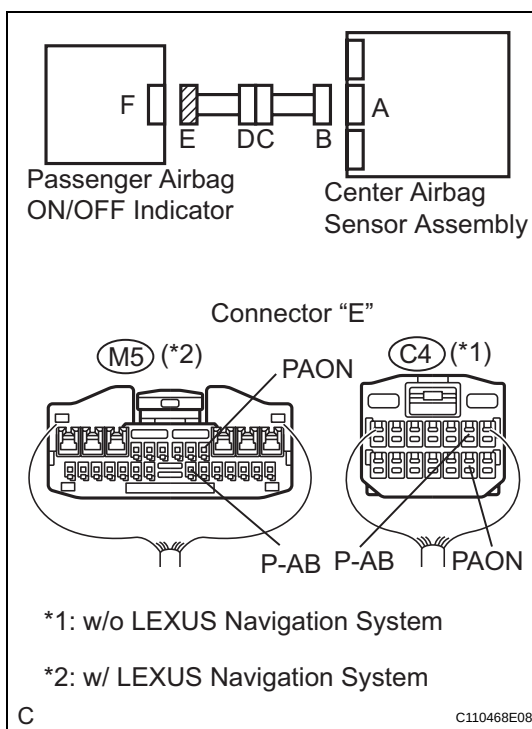
- (a) Disconnect the service wire from connector "B".
(b) Measure the resistance according to the value(s) in the table below.

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

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.

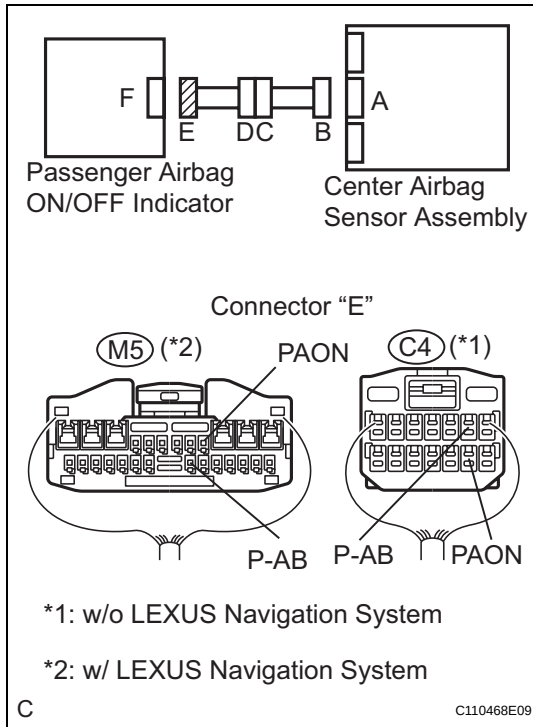
Resistance:**w/o LEXUS Navigation system**

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+)

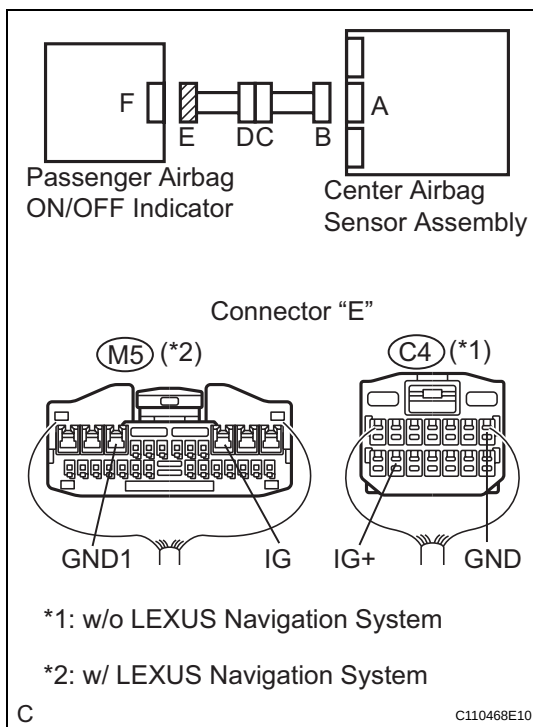
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- Measure the voltage according to the value(s) in the table below.

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)**

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

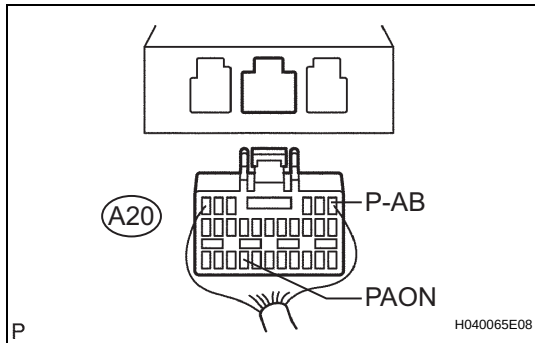
Voltage and Resistance:**w/o LEXUS Navigation system**

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

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

Result

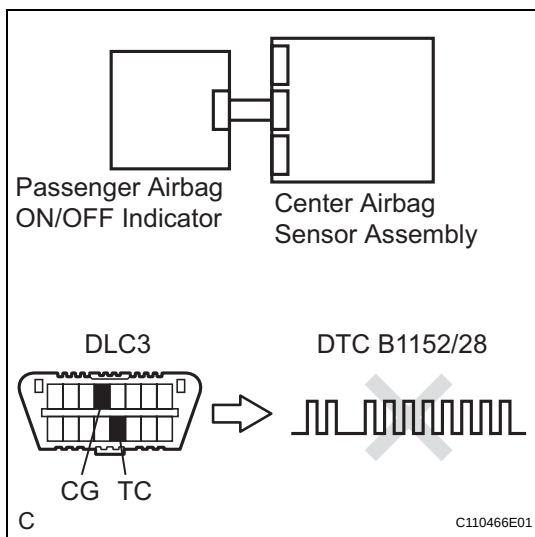
Tester connection	Condition	Passenger airbag ON/OFF indicator condition
A20-25 (PAON) - Body ground	Ignition switch ON	"ON" comes on
A20-1 (P-AB) - Body ground	Ignition switch ON	"OFF" comes on

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**

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

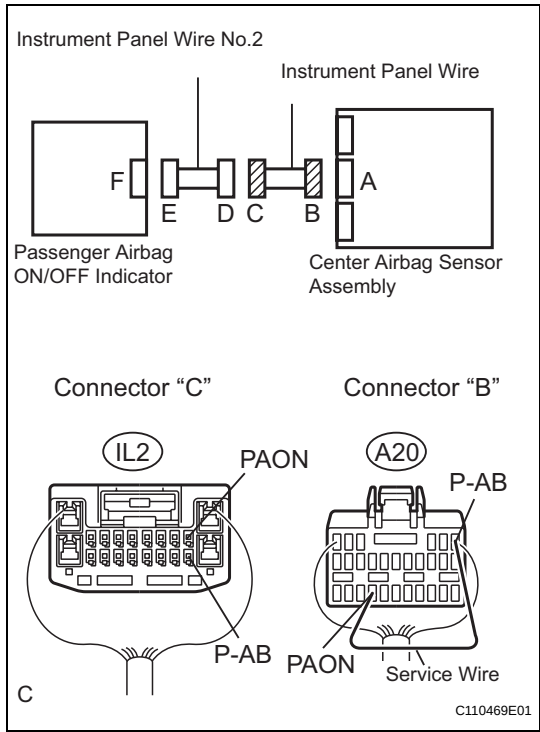
REPLACE CENTER AIRBAG SENSOR ASSEMBLY

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

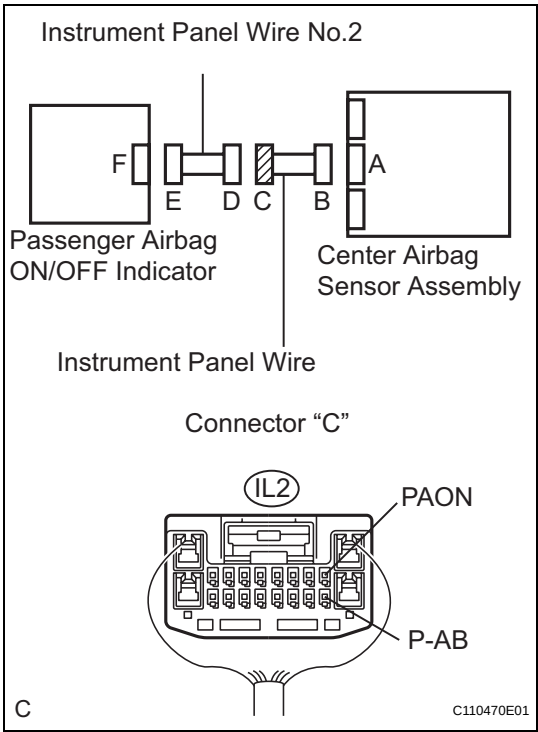
NG

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

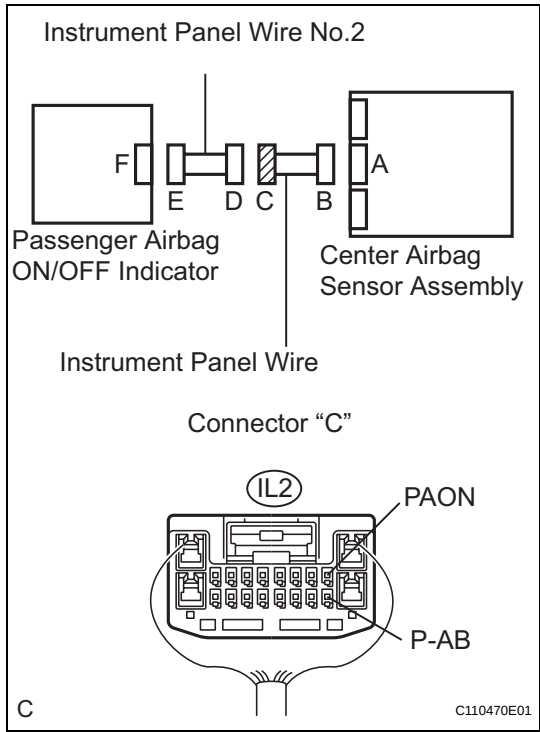
RS

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.2

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

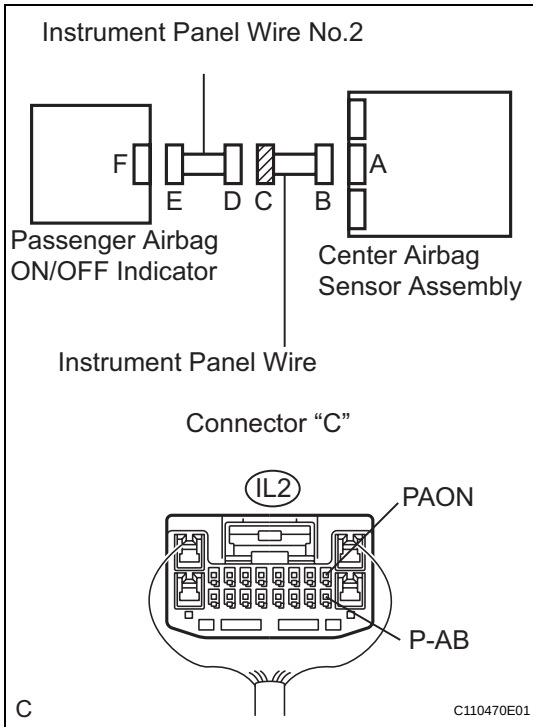
Tester connection	Condition	Specified condition
IL2-12 (P-AB) - Body ground	Always	1 MΩ or higher
IL2-2 (PAON) - Body ground	Always	1 MΩ or higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.2

26 CHECK INSTRUMENT PANEL WIRE (SHORT TO B+)

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the instrument panel wire connector from the instrument panel wire No.2.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- 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

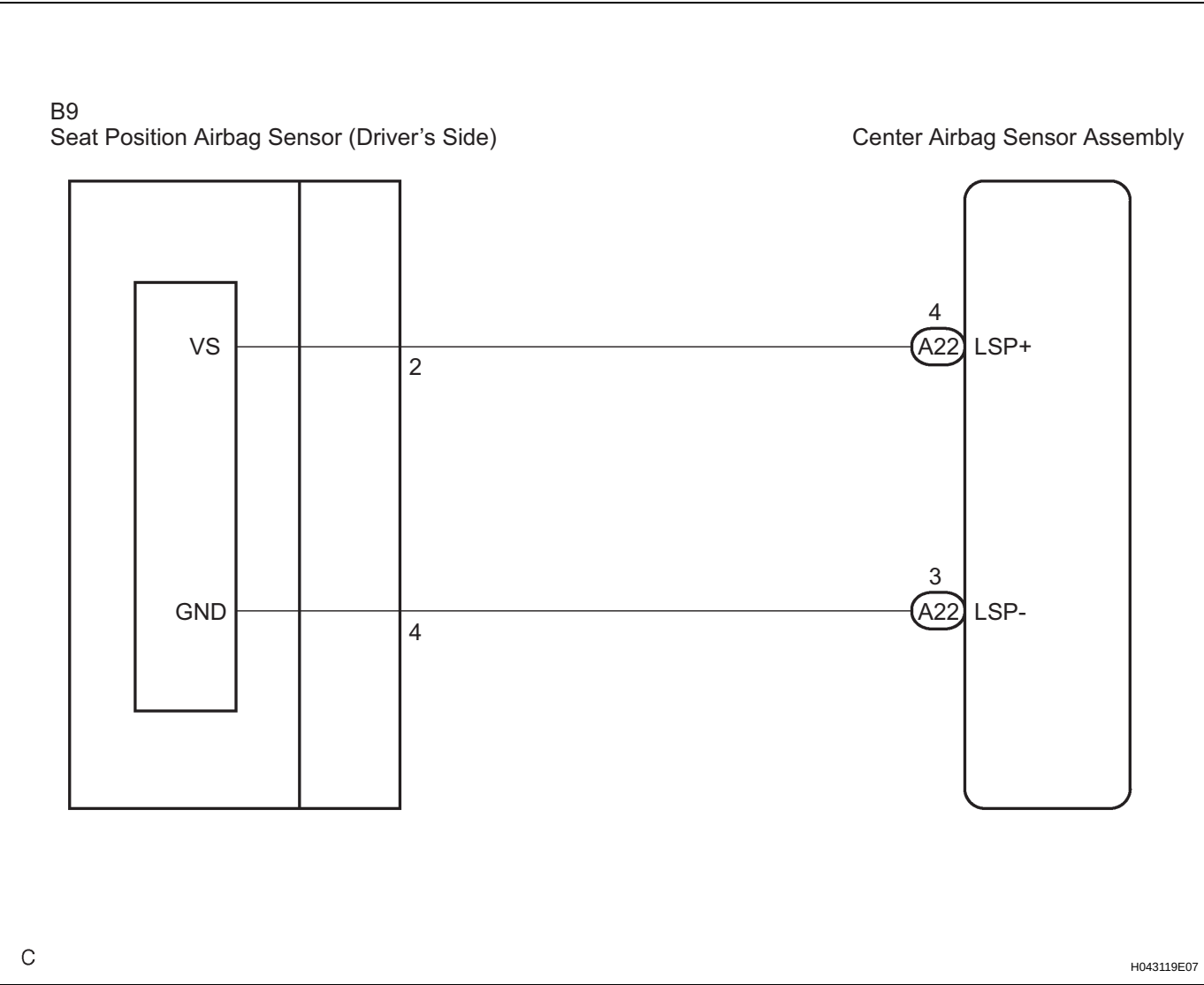
DESCRIPTION

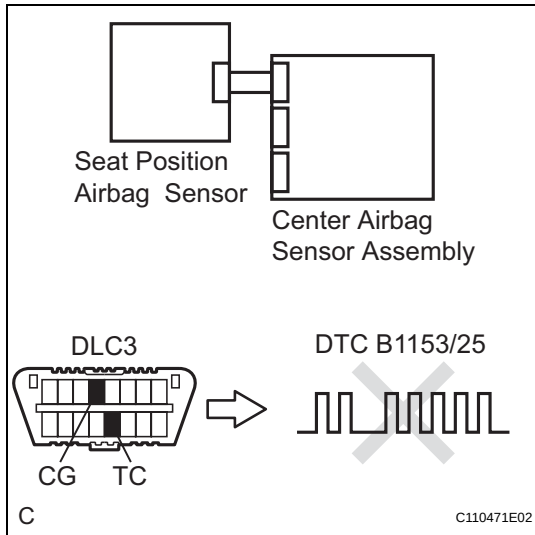
The seat position airbag sensor circuit consists of the center airbag sensor assembly and the seat position airbag sensor.

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

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).

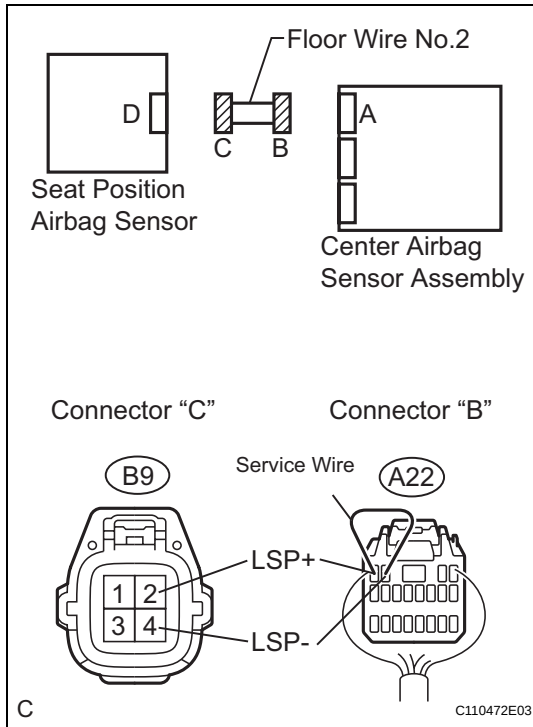
OK:**DTC B1153/25 is not output.****HINT:**

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

NG**Go to step 2****OK****RS****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".

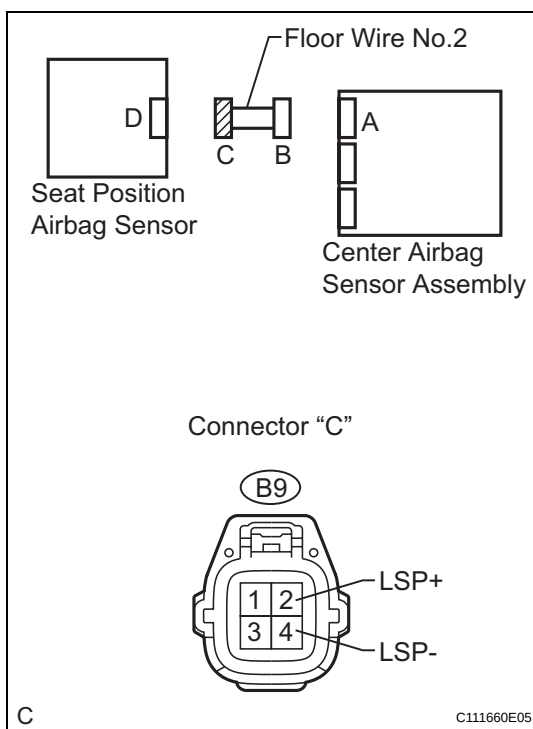
HINT:

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.

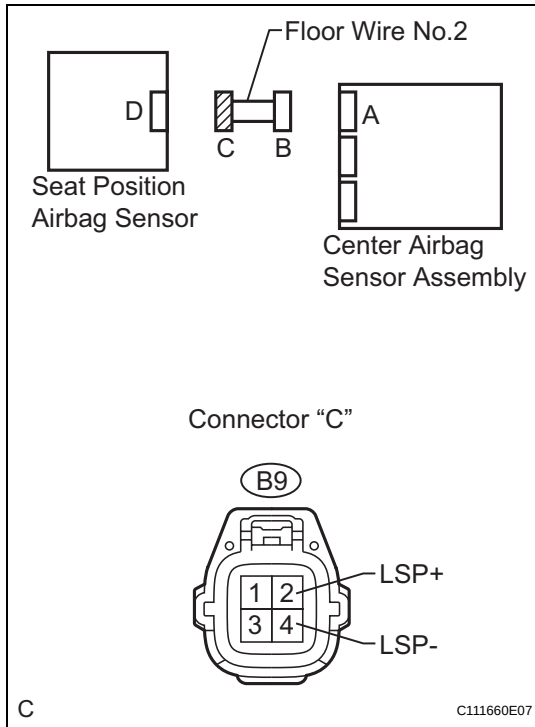
(c) Turn the ignition switch to the ON position.

(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

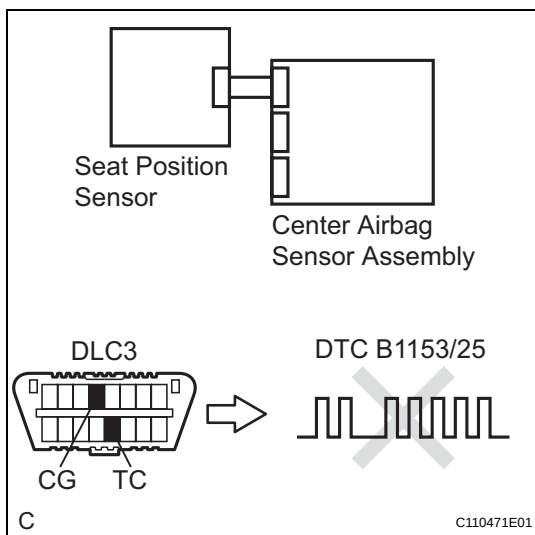
NG**REPAIR OR REPLACE FLOOR WIRE NO.2****OK**

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

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- 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

NG**REPAIR OR REPLACE FLOOR WIRE NO.2****OK****6 CHECK SEAT POSITION AIRBAG SENSOR**

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

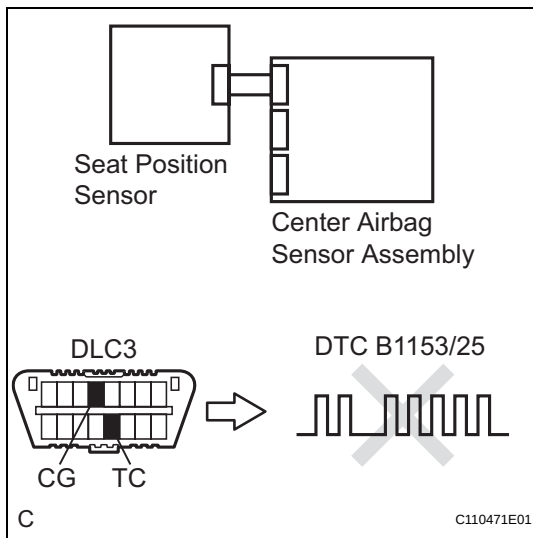
7 REPLACE SEAT POSITION AIRBAG SENSOR

- Turn the ignition switch to the LOCK position.
 - Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - 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



- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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

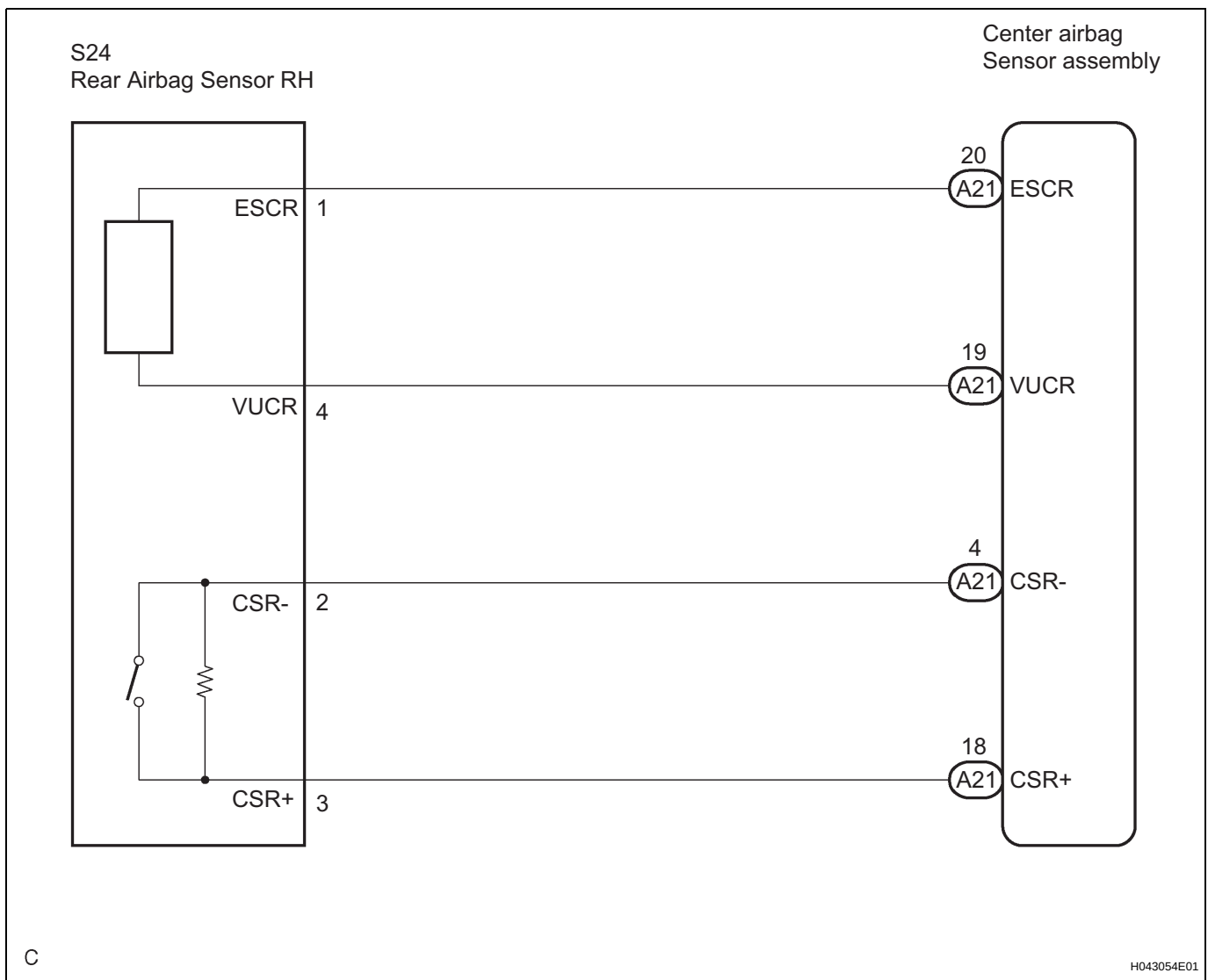
OK

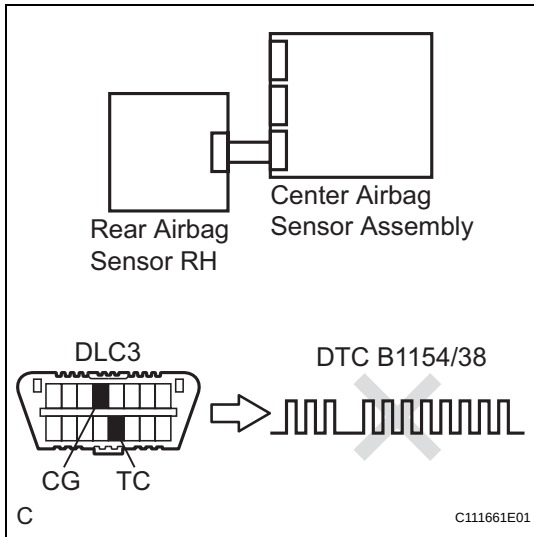
END

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

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

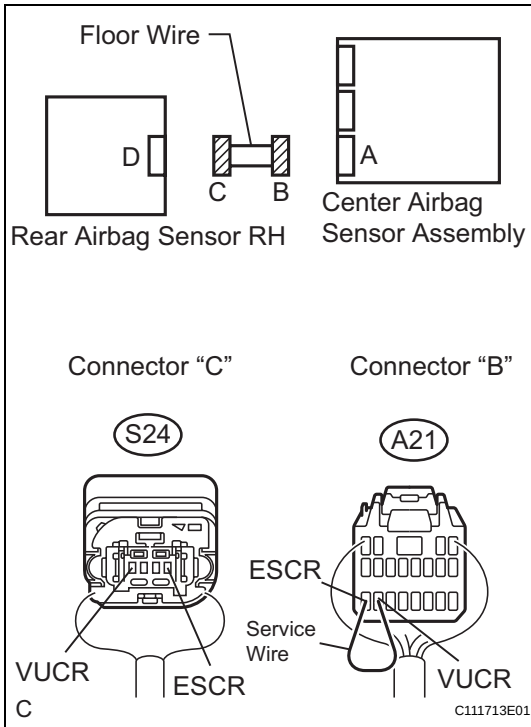
OK:**DTC B1154/38 is not output.****HINT:**

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**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- 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".

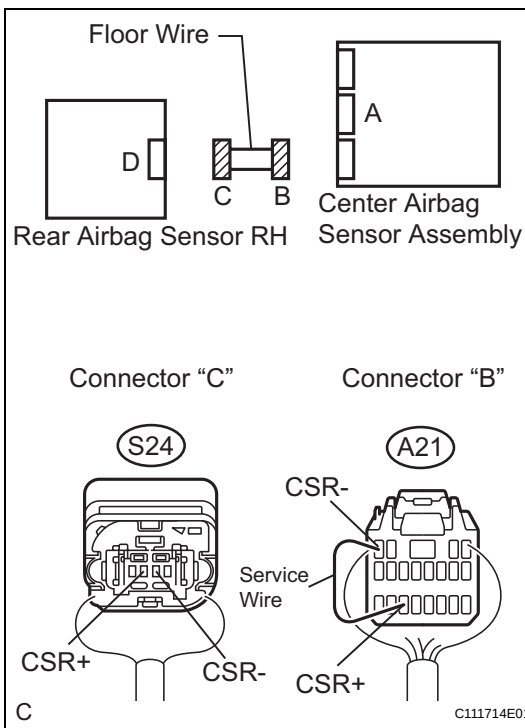
HINT:

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:

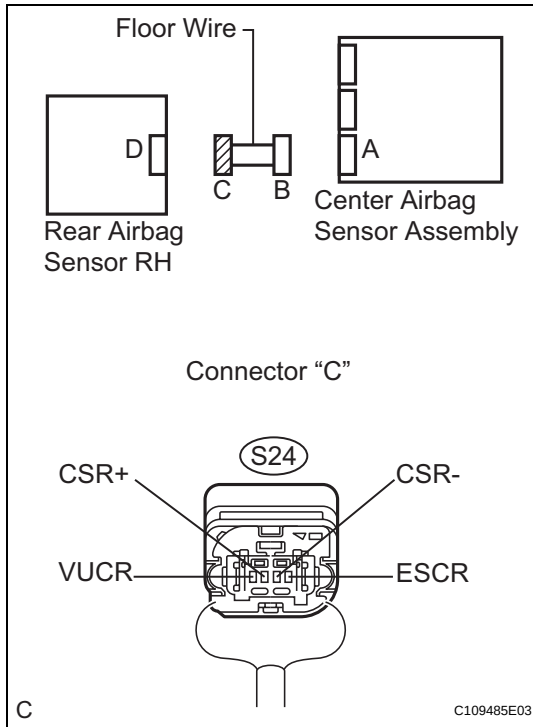
Do not forcibly insert a service wire into the terminals of the connector when connecting.

(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

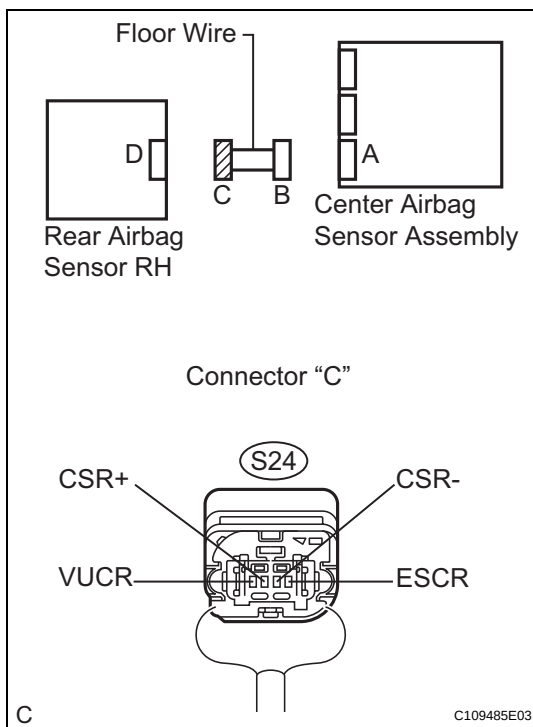
NG**REPAIR OR REPLACE FLOOR WIRE****OK**

4 CHECK FLOOR WIRE (SHORT TO B+)

- Disconnect the service wire from connector "B".
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- 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

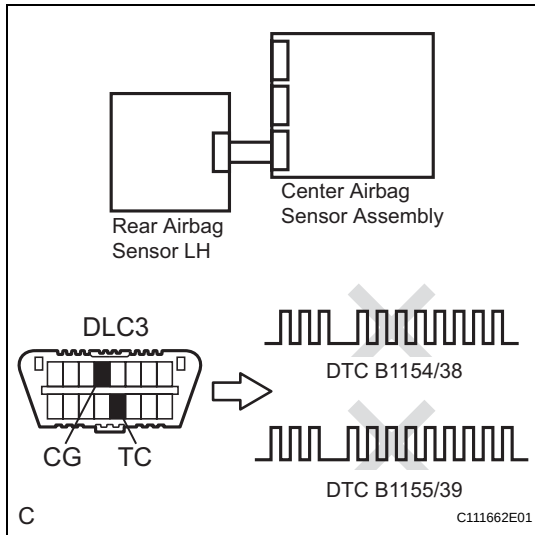
NG**REPAIR OR REPLACE FLOOR WIRE****OK****5 CHECK FLOOR WIRE (SHORT TO GROUND)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- 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

- Connect the connector to the center airbag sensor assembly.
- Interchange the rear airbag sensor LH with RH and connect the connectors to them.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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****RS**

DTC	B1155/39	Rear Airbag Sensor LH Circuit Malfunction

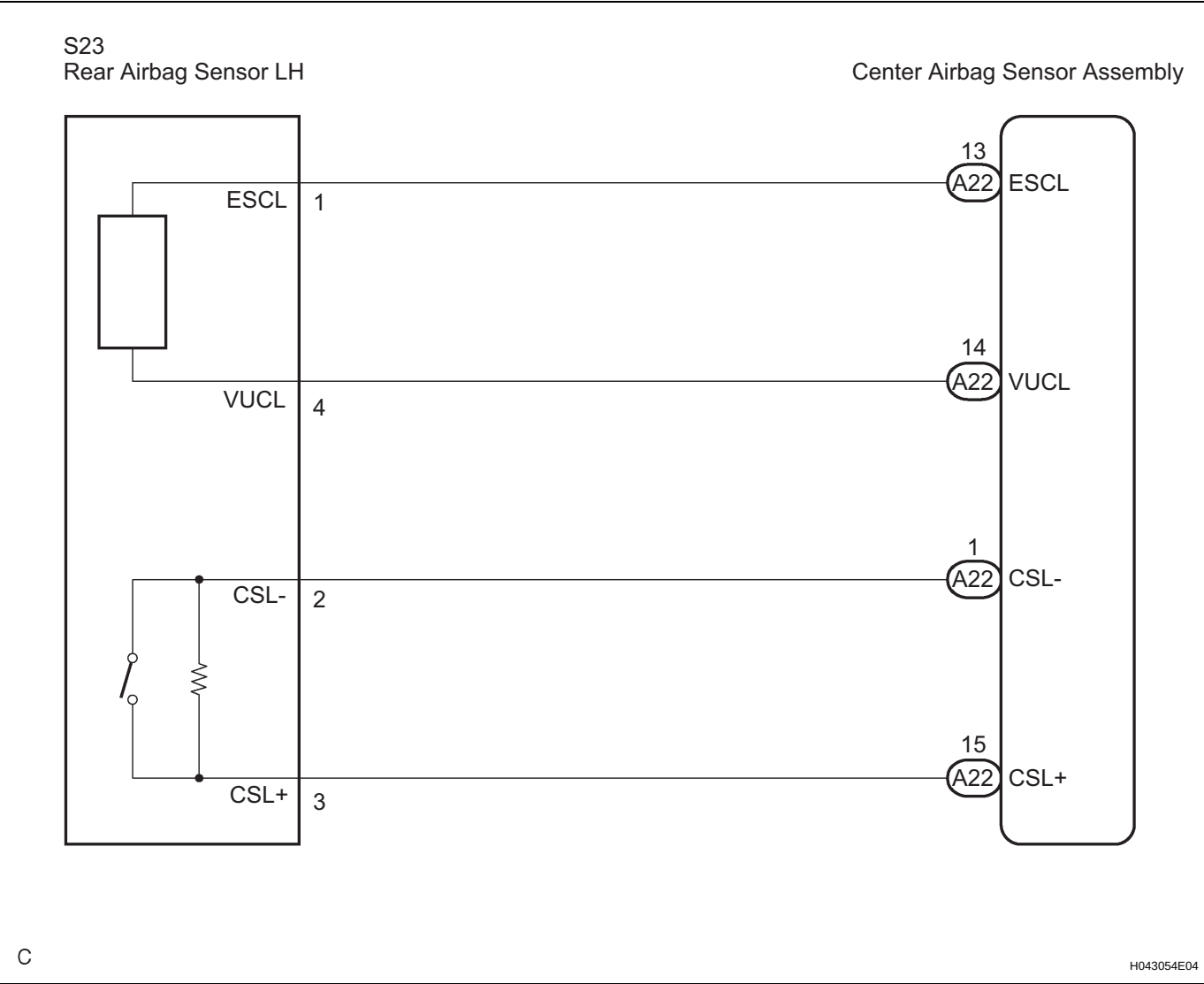
DESCRIPTION

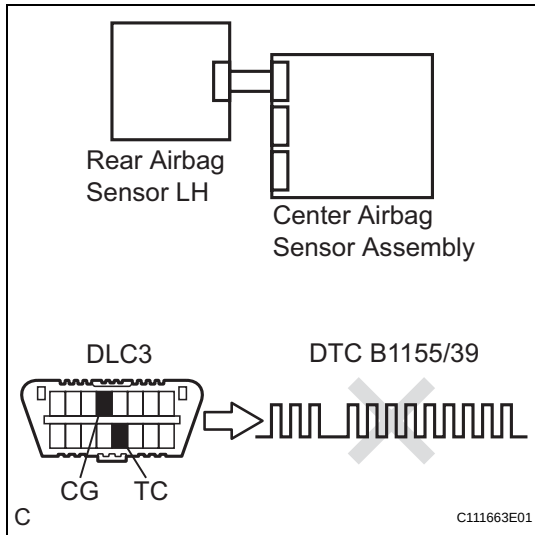
The rear airbag sensor LH circuit consists of the safing sensor, the diagnostic circuit and the lateral deceleration sensor, etc.
If the center airbag sensor assembly receives signals from the lateral deceleration sensor, it judges whether or not the SRS should be activated.

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

WIRING DIAGRAM



1 CHECK DTC**OK**

- (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.

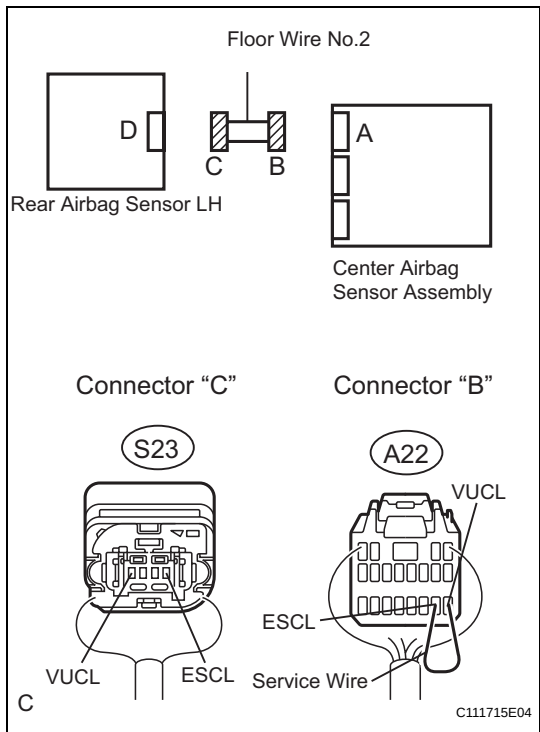
NG**Go to step 2****RS****USE SIMULATION METHOD TO CHECK****2 CHECK CONNECTION OF CONNECTORS**

- (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

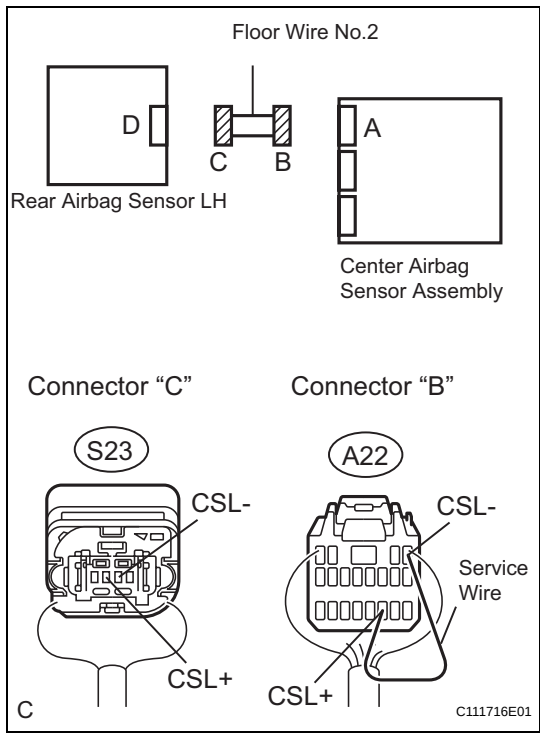
CHECK FLOOR WIRE NO.2 (OPEN)



- (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.

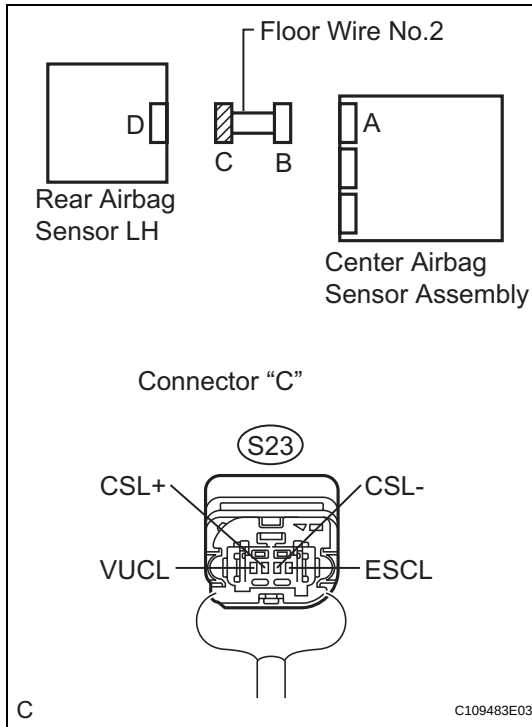
Resistance

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

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

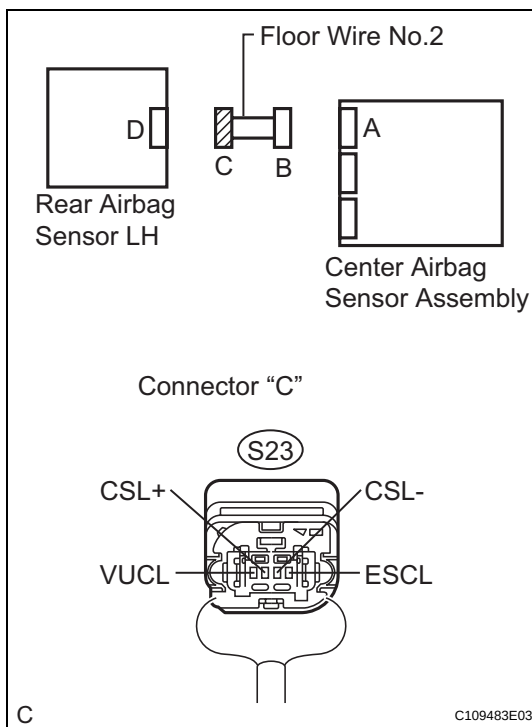
OK

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

- Disconnect SST from connector "B".
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- 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)**

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

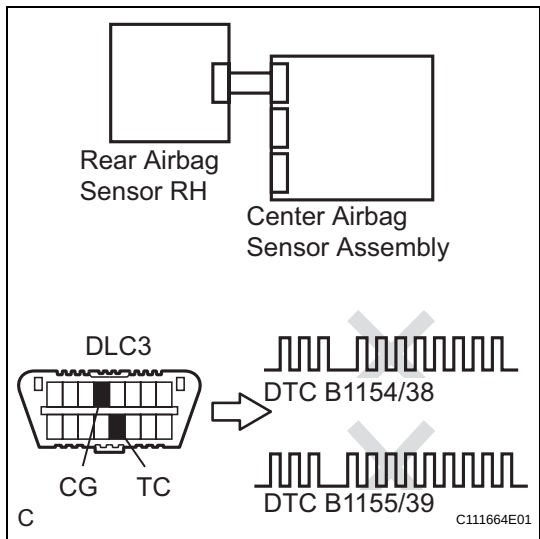
Resistance

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

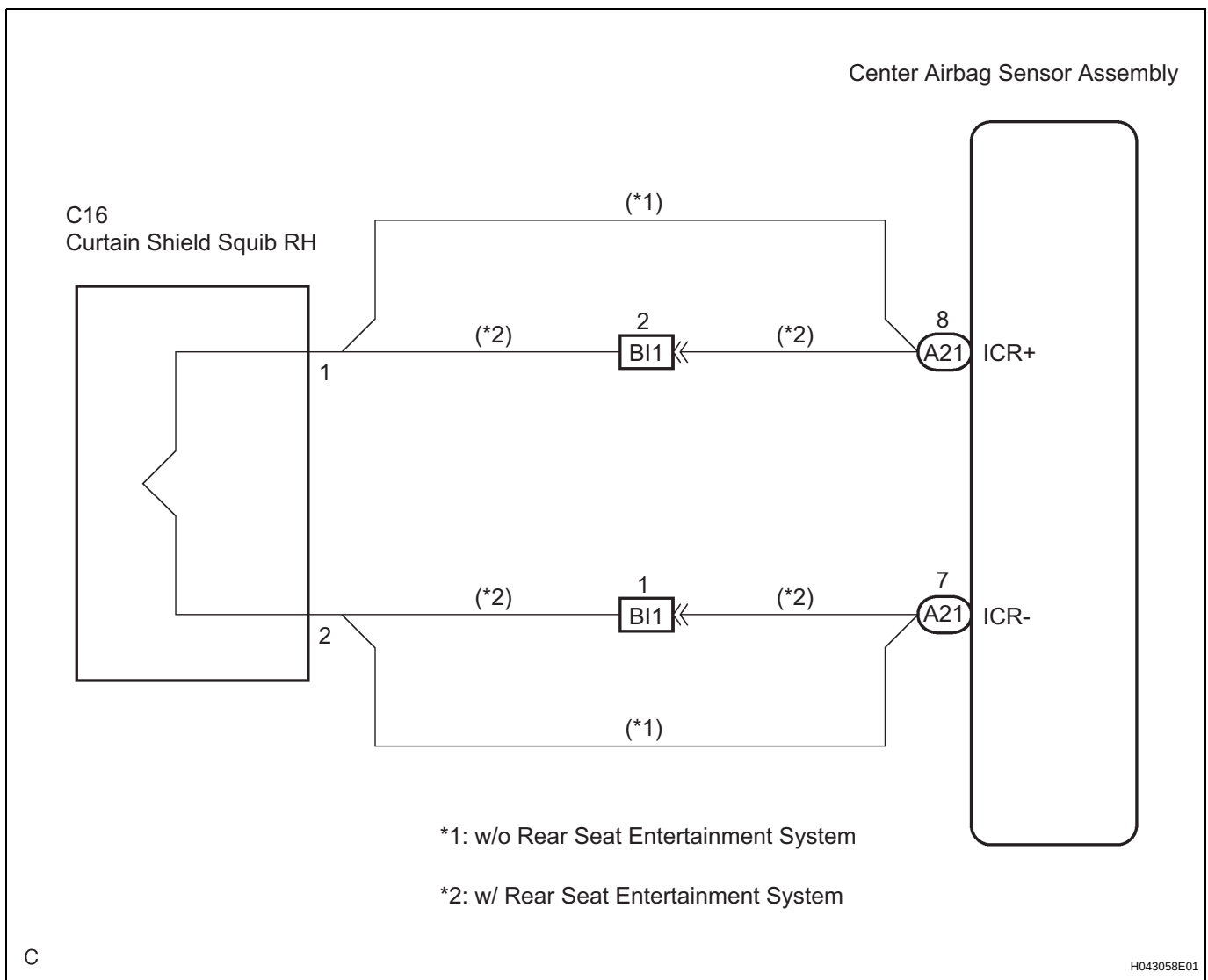
DTC**B1160/83****Short in Curtain Shield Squib RH Circuit****DESCRIPTION**

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.

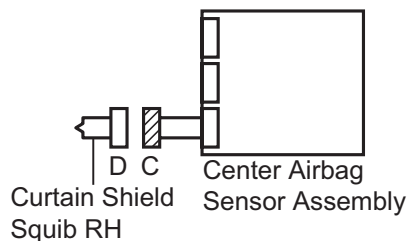
DTC B1160/83 is recorded when a short circuit is detected in the curtain shield squib RH circuit.

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

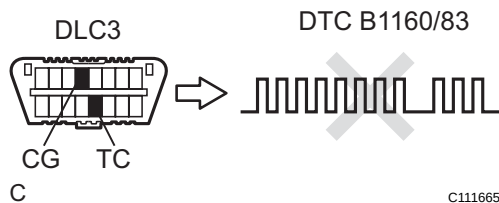
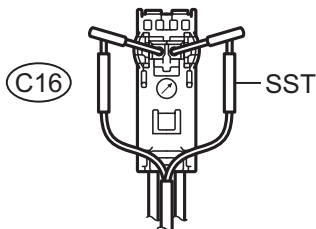
RS**WIRING DIAGRAM**

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

Connector "C"



- (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****RS**

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:

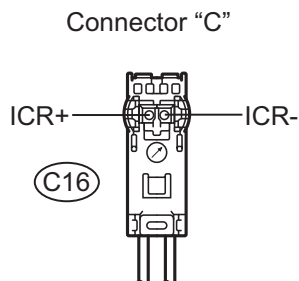
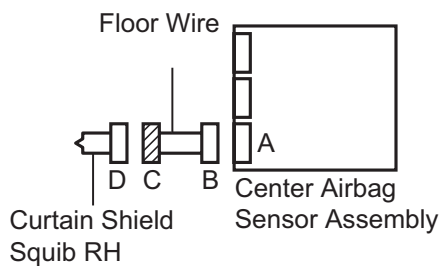
The lock button is not disengaged, and the claw of the lock is not deformed or damaged.

NG

REPAIR OR REPLACE FLOOR WIRE

OK

4 CHECK FLOOR WIRE (CURTAIN SHIELD SQUIB RH CIRCUIT)



C

C111666E01

- (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

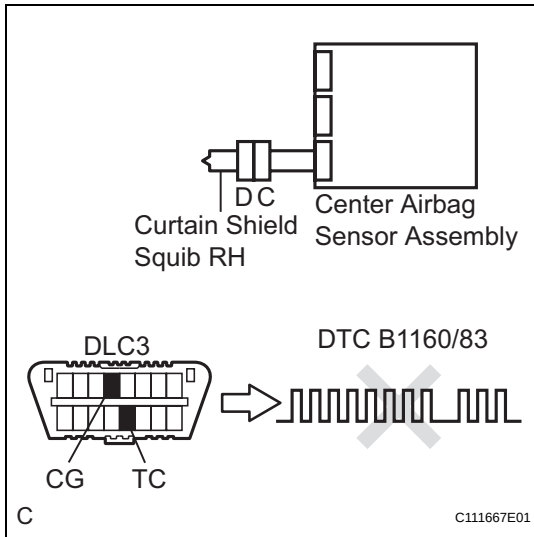
Tester connection	Condition	Specified condition
C16-1 (ICR+) - C16-2 (ICR-)	Always	1 M Ω or higher

NG

REPAIR OR REPLACE FLOOR WIRE

OK

5 CHECK CENTER AIRBAG SENSOR ASSEMBLY



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

OK:

DTC B1160/83 is not output.

HINT:

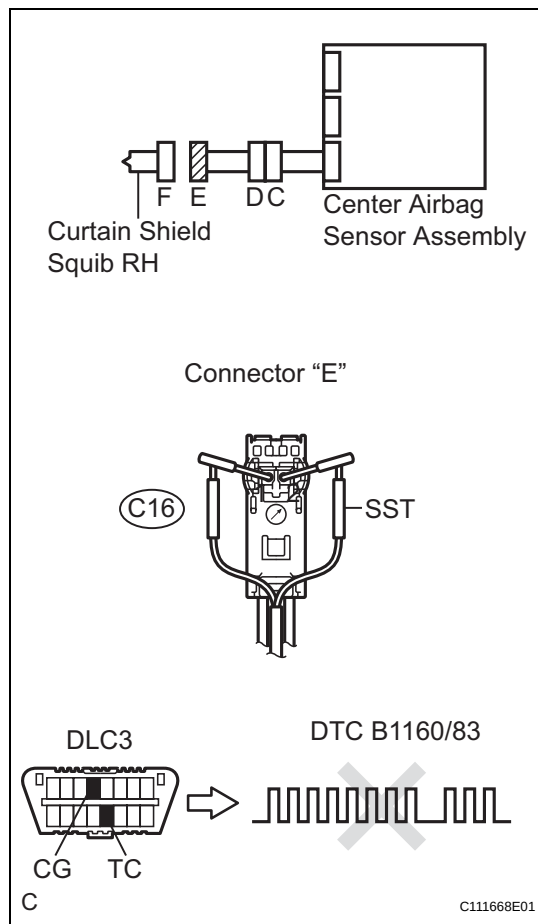
Codes other than DTC B1160/83 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

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

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the curtain shield airbag assembly RH.
- 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.

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- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page RS-32).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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**

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

RS

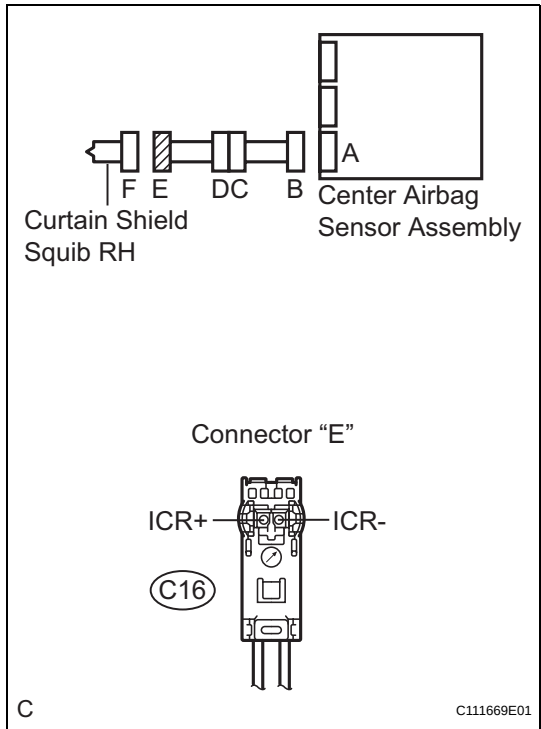
OK:
The lock button is not disengaged, and the claw of the lock is not deformed or damaged.

NG REPAIR OR REPLACE ROOF WIRE NO.2

OK

8 CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH CIRCUIT

RS



- (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.

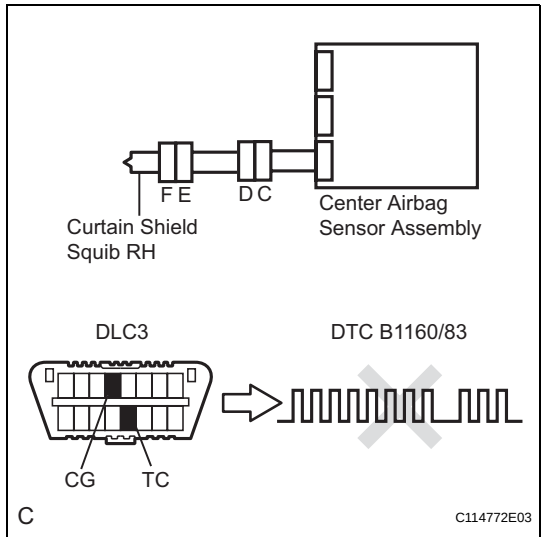
Resistance

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).

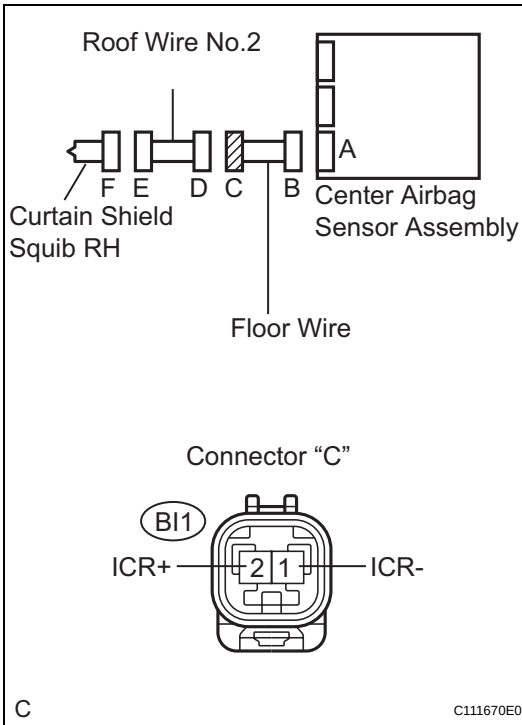
OK:
DTC B1160/83 is not output.

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

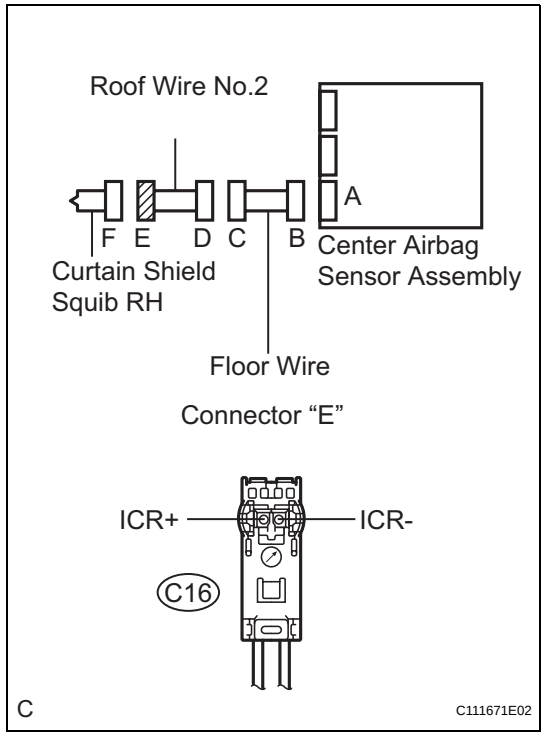
REPLACE CENTER AIRBAG SENSOR ASSEMBLY

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:

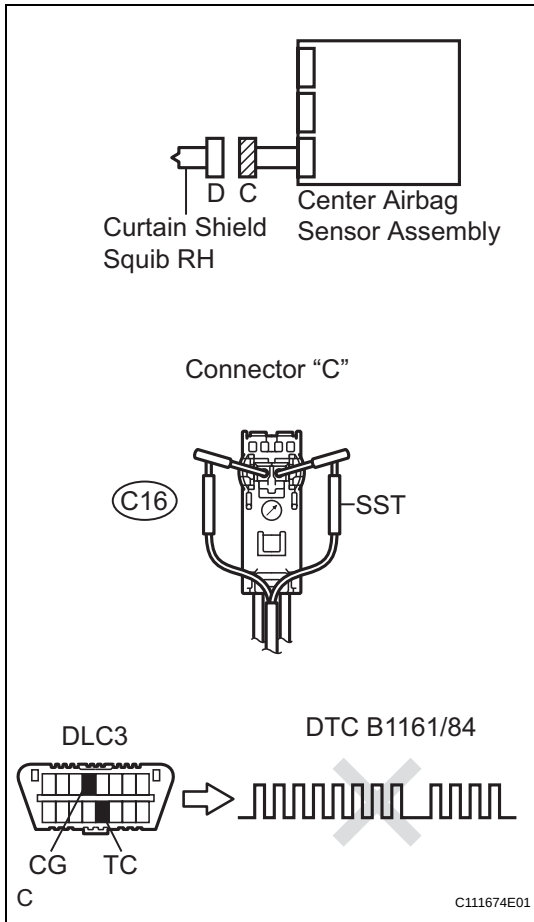
A:

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the curtain shield airbag assembly RH.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (See page [RS-32](#)).

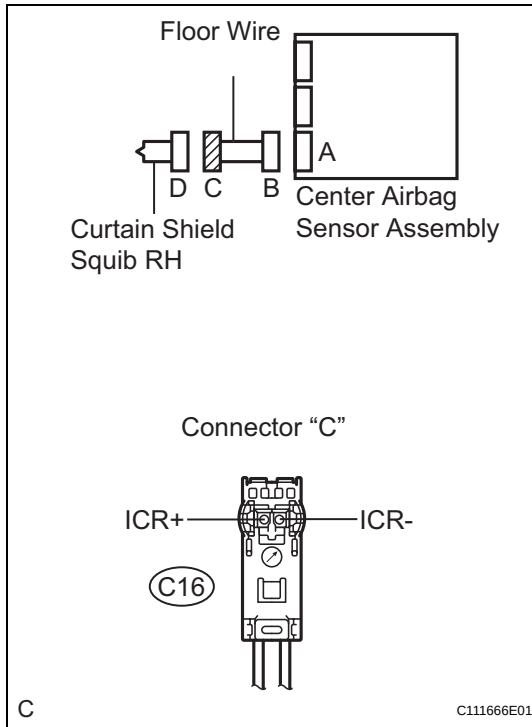
OK:

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.

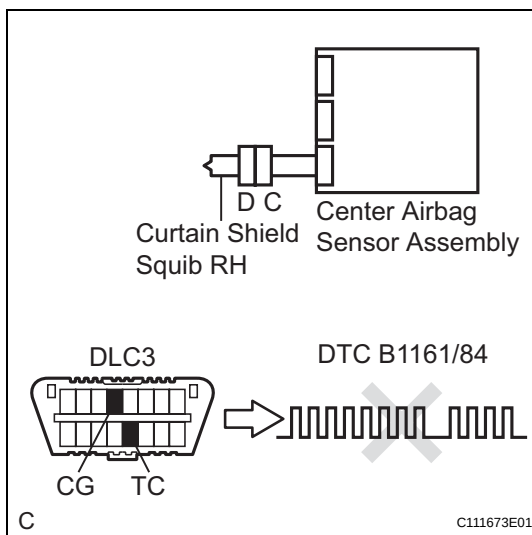
NG**Go to step 3****OK****REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH**

3 CHECK FLOOR WIRE (CURTAIN SHIELD SQUIB RH CIRCUIT)

- Disconnect the connector from the center airbag sensor assembly.
- 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**

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

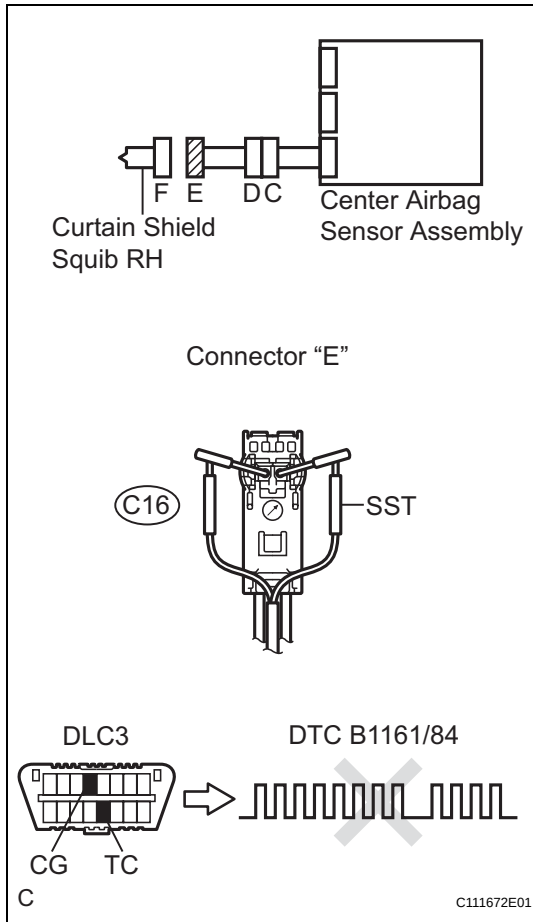
OK:**DTC B1161/84 is not output.****HINT:**

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:

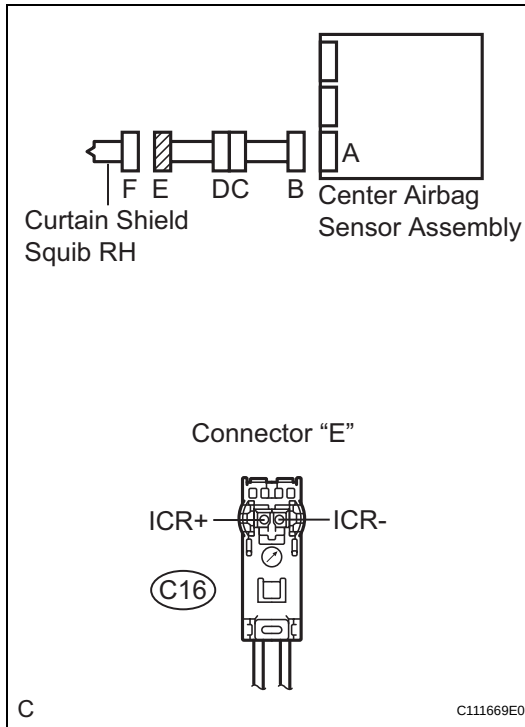
Codes other than DTC B1161/84 may be output at this time, but they are not related to this check.

NG

Go to step 6

OK

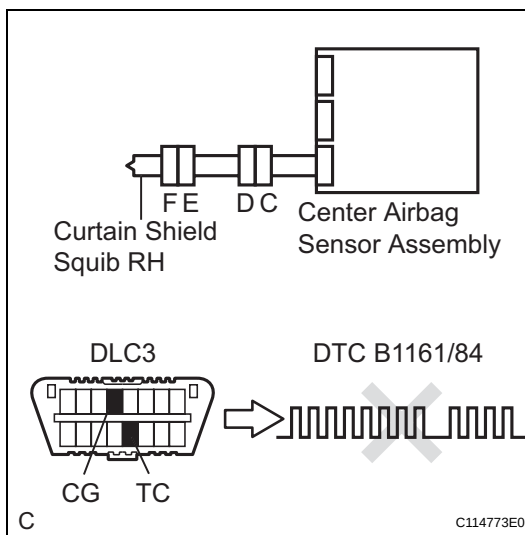
REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH

6 CHECK CURTAIN SHIELD SQUIB RH CIRCUIT

- Disconnect the connector from the center airbag sensor assembly.
- 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****RS****OK****7 CHECK CENTER AIRBAG SENSOR ASSEMBLY**

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

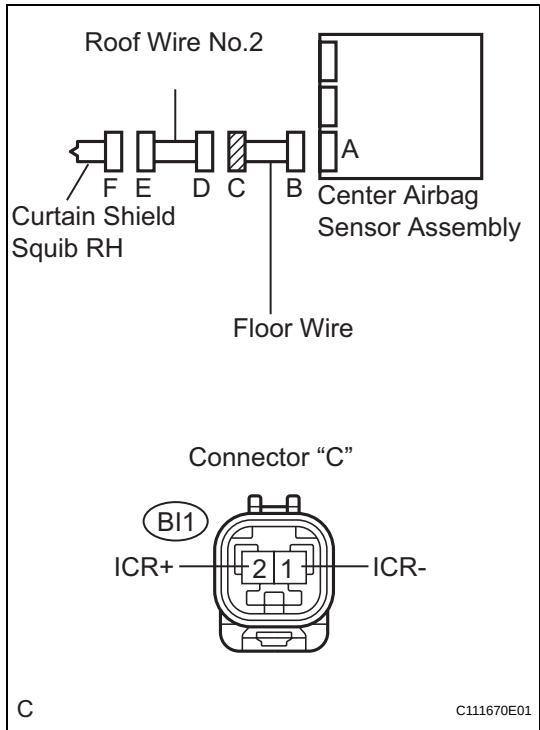
OK:**DTC B1161/84 is not output.****HINT:**

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

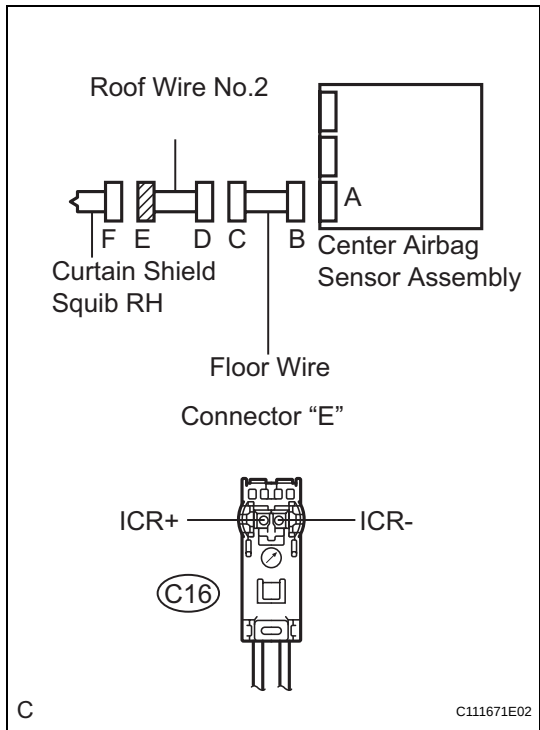
NG

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

A button with a black border and a downward-pointing arrow shape at the bottom, containing the text "OK".

OK

A rectangular button with a black border containing the text "USE SIMULATION METHOD TO CHECK".

USE SIMULATION METHOD TO CHECK

A black rectangular logo with the white text "RS".

RS

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

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:

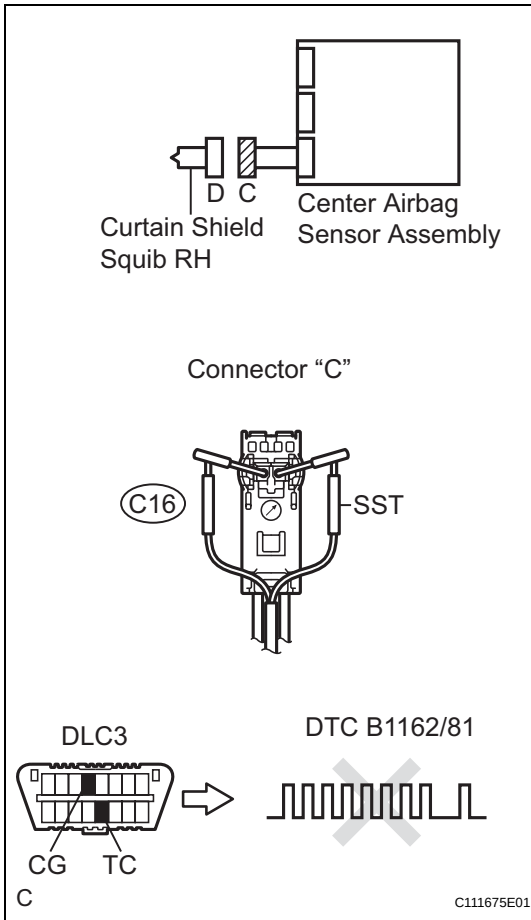
w/o Rear seat entertainment system

B:

w/ Rear seat entertainment system



Go to step 5

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

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the curtain shield airbag assembly RH.
- 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.

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- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (See page [RS-32](#)).

OK:

DTC B1162/81 is not output.

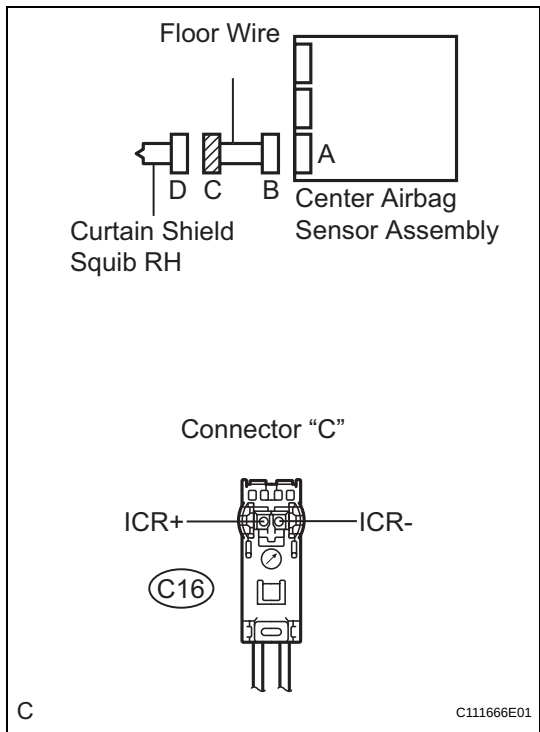
HINT:

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

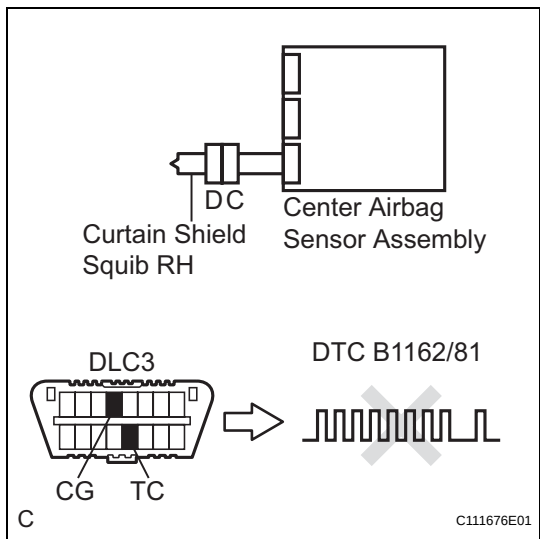
NG

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

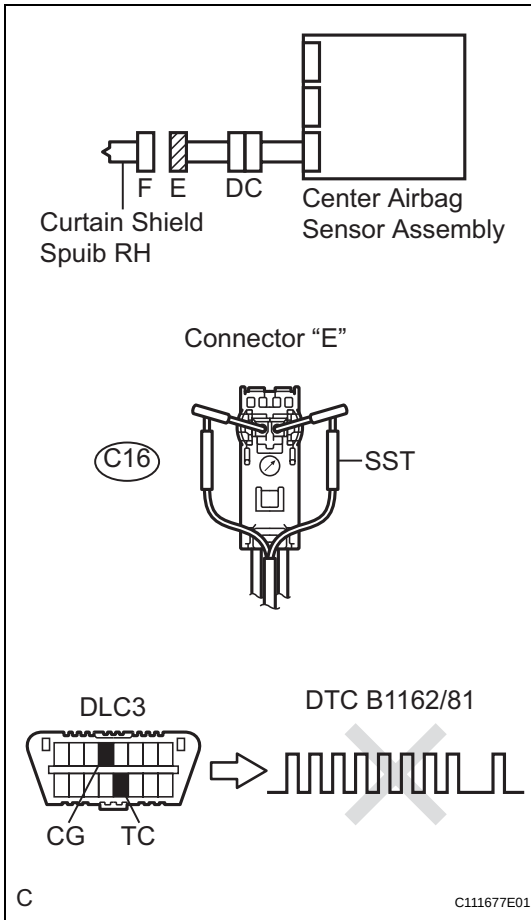
REPLACE CENTER AIRBAG SENSOR ASSEMBLY

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 2.1Ω) 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

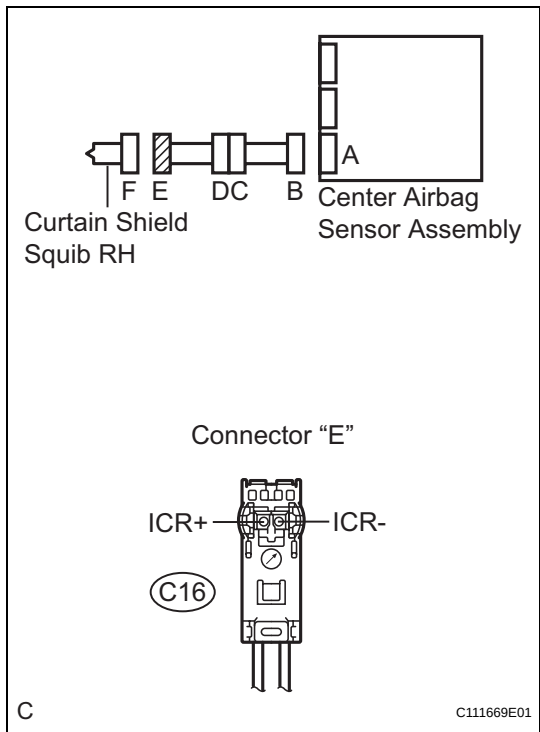
Go to step 6

OK

REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH

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

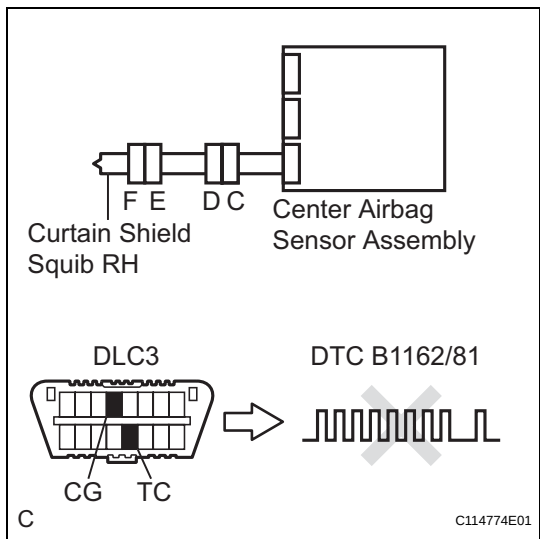
NG

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:

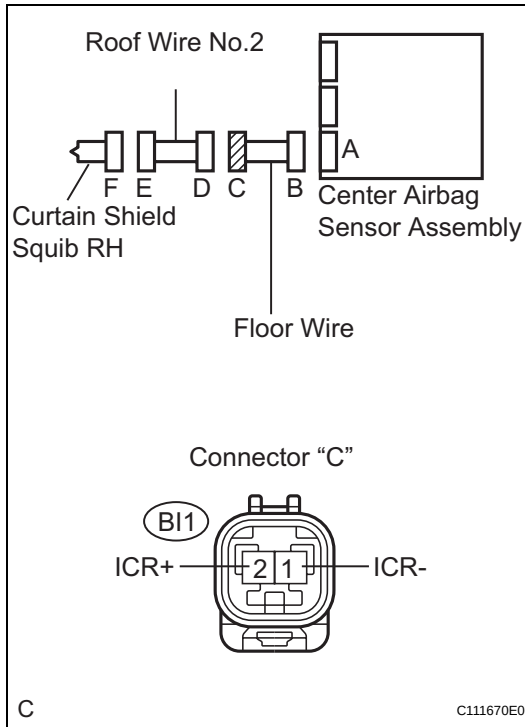
Codes other than DTC B1162/81 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

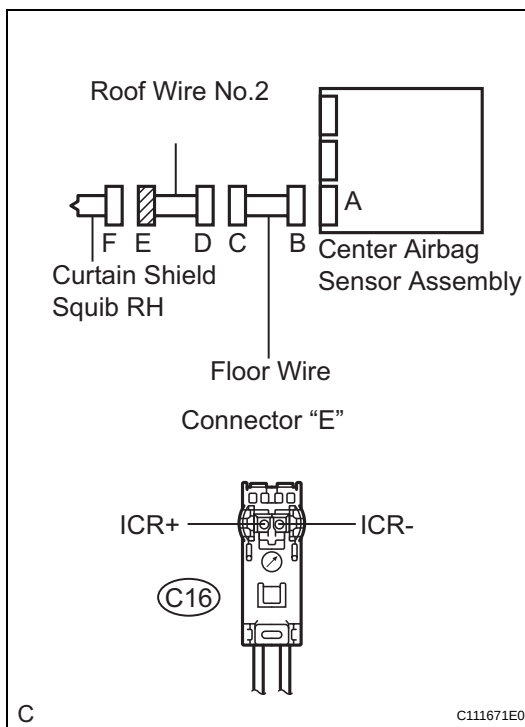
USE SIMULATION METHOD TO CHECK

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

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

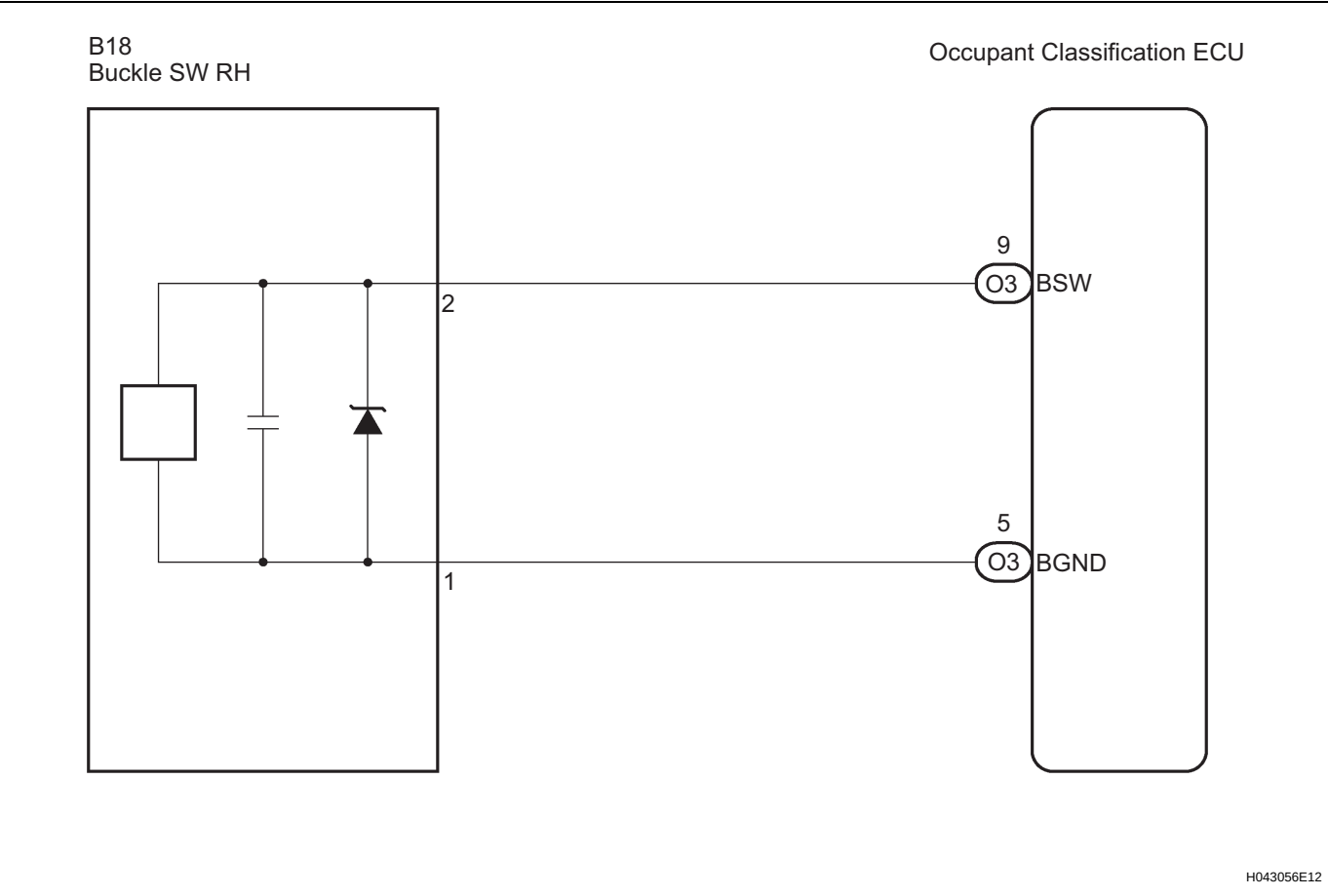
The passenger side buckle switch circuit consists of the occupant classification ECU and the front seat inner belt assembly RH.

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

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:

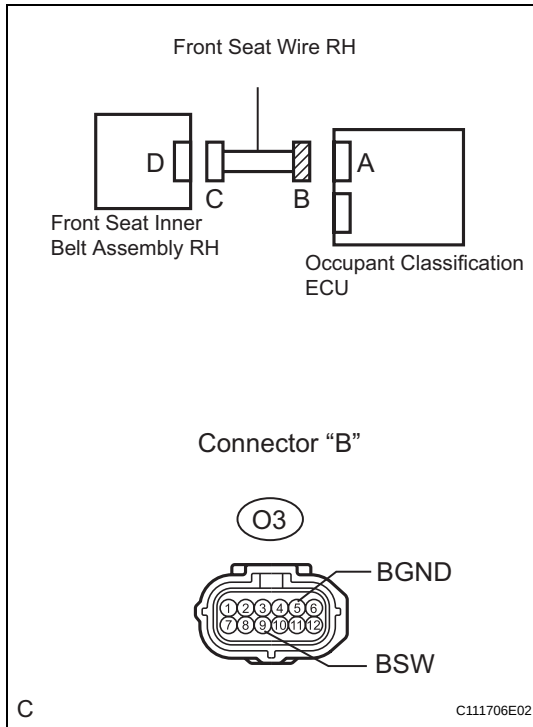
The connectors are connected.

NG

CONNECT CONNECTORS, THEN GO TO STEP 1

OK

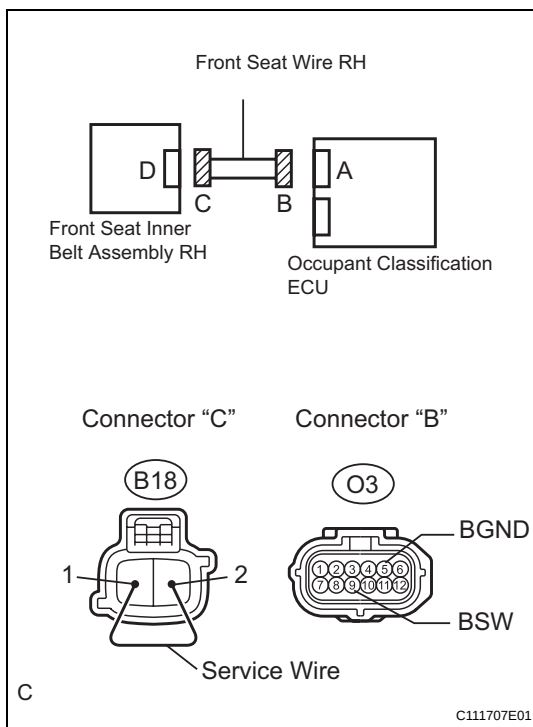
RS

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

- Disconnect the connectors from the occupant classification ECU and the front seat inner belt assembly RH.
- Connect the negative (-) terminal cable to the battery.
- Turn the ignition switch to the ON position.
- 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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery.
- 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.**

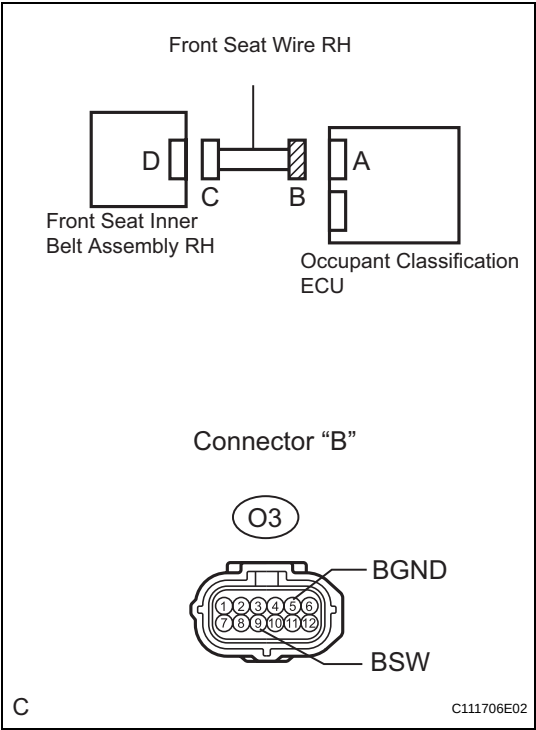
- Measure the resistance according to the value(s) in the table below.

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

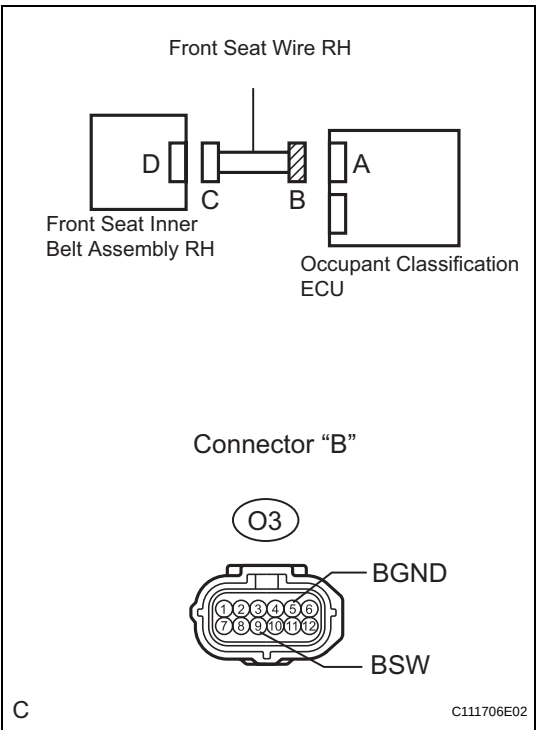
NG

REPAIR OR REPLACE FRONT SEAT WIRE RH

RS

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

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

RS

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****RS**

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:

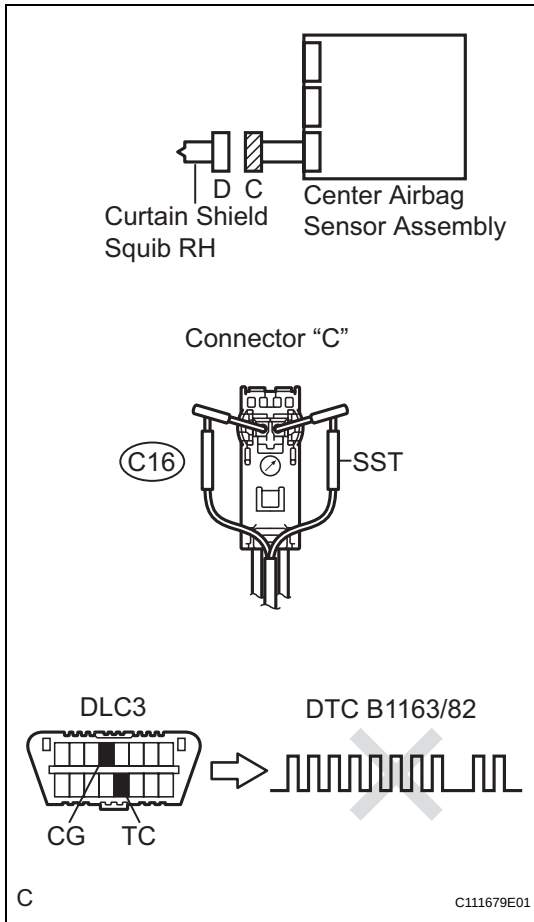
A:

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.

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- (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](#)).

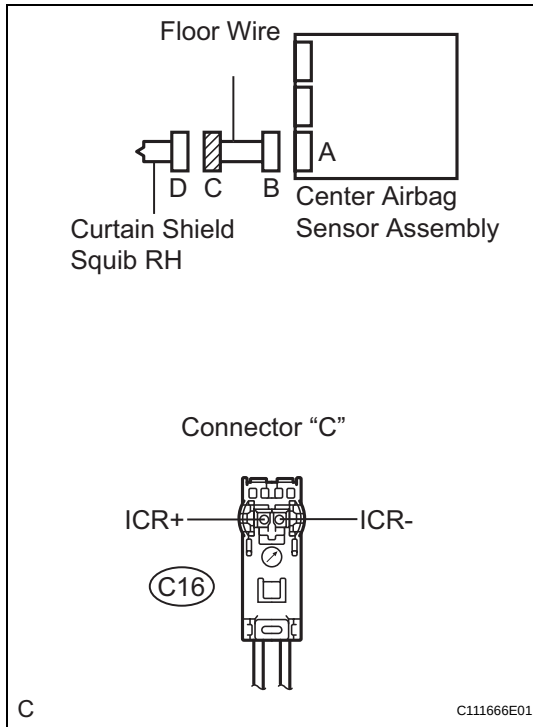
OK:

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.

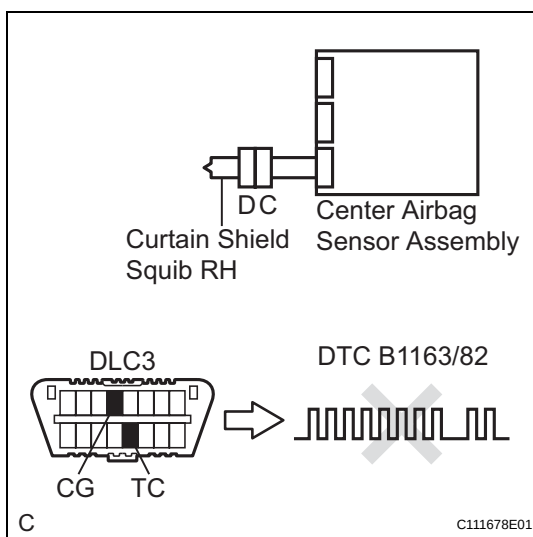
NG**Go to step 3****OK****REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH**

3 CHECK FLOOR WIRE (CURTAIN SHIELD SQUIB RH CIRCUIT)

- Disconnect the connector from the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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**

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

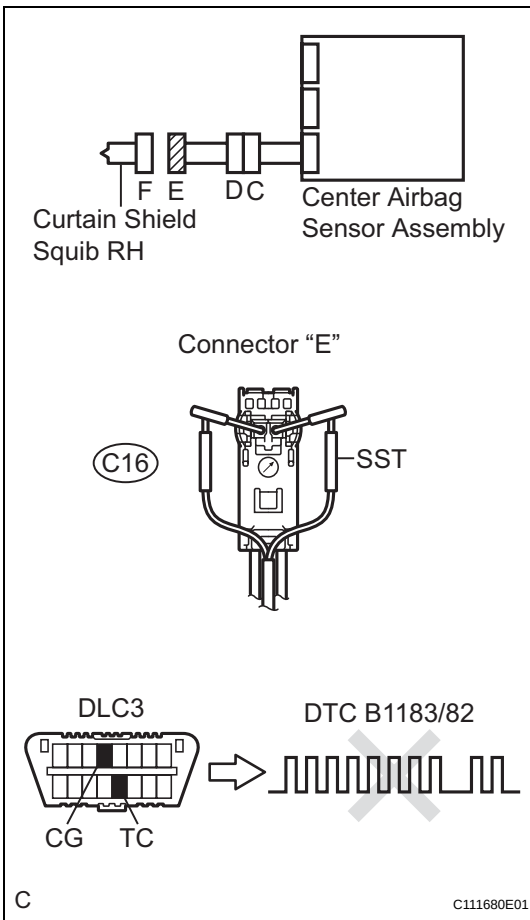
NG**REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

5

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



- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the curtain shield airbag assembly RH.
- 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.

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- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page RS-32).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (See page RS-32).

OK:

DTC B1163/82 is not output.

HINT:

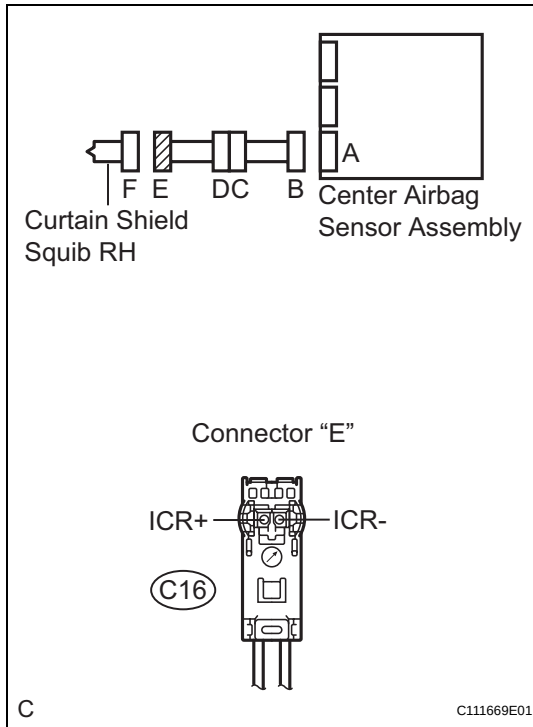
Codes other than DTC B1163/82 may be output at this time, but they are not related to this check.

NG

Go to step 6

OK

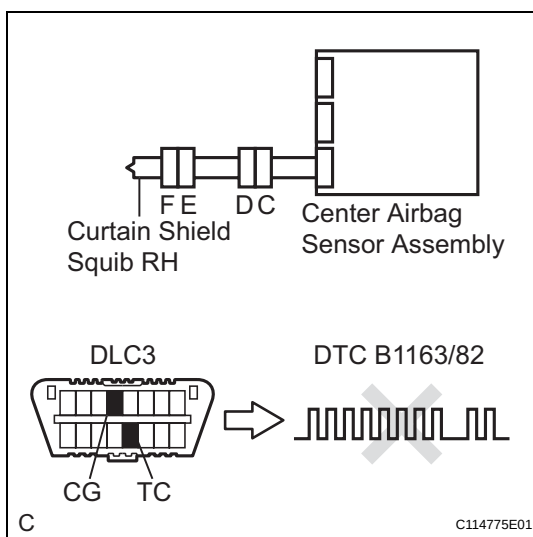
REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH

6 CHECK CURTAIN SHIELD SQUIB RH CIRCUIT**OK**

- Disconnect the connector from the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- 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**Go to step 8****7 CHECK CENTER AIRBAG SENSOR ASSEMBLY**

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

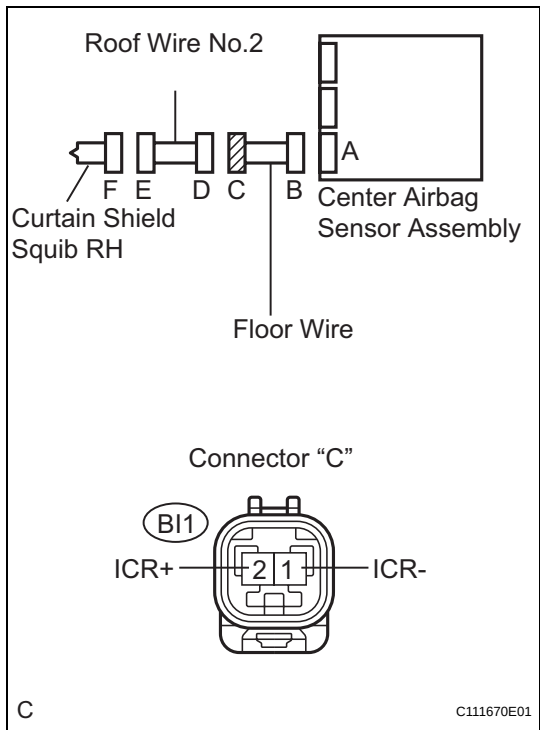
NG**REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

8 CHECK FLOOR WIRE

RS



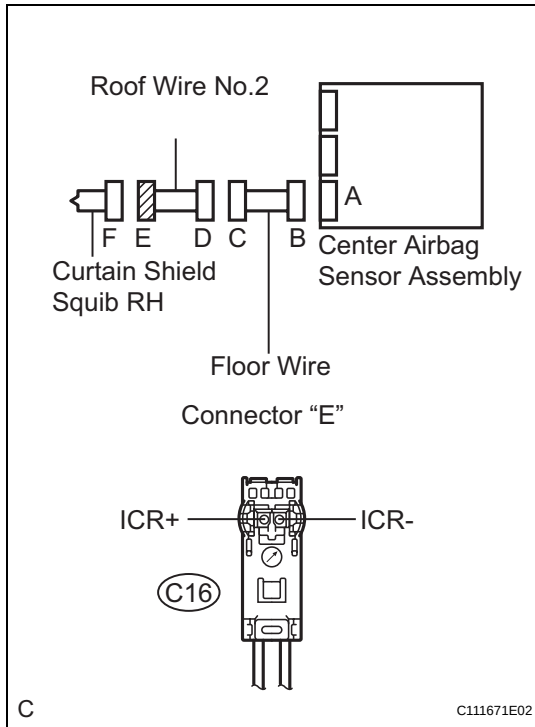
- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the floor wire connector from the roof wire No.2.
- (d) Connect the negative (-) terminal cable to the battery, and wait for at least 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.

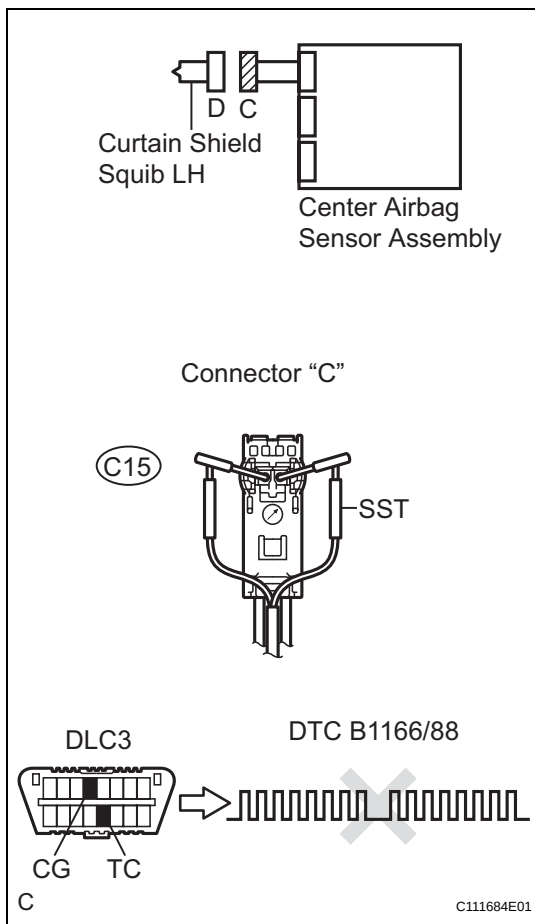
The circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the curtain shield airbag assembly LH.
- 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.

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- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (See page [RS-32](#)).

OK:

DTC B1166/88 is not output.

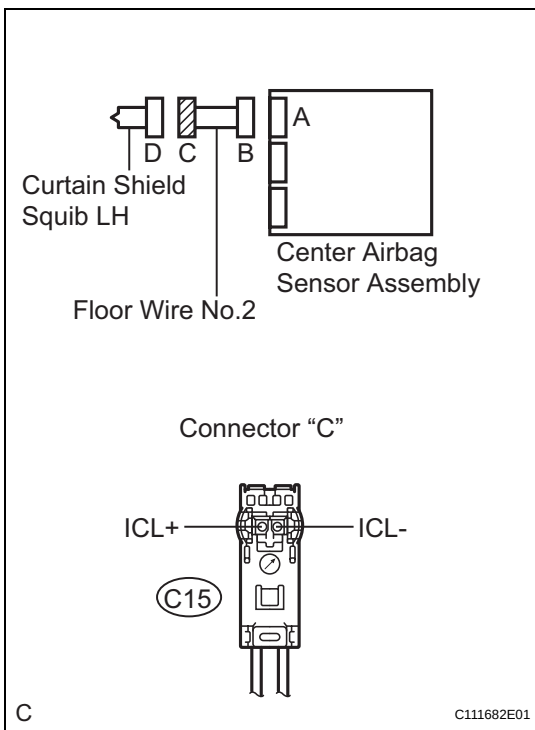
HINT:

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

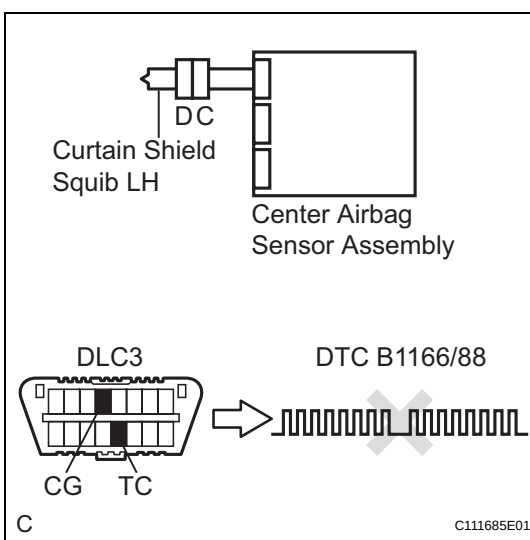
Tester connection	Condition	Specified condition
C15-1 (ICL+) - C15-2 (ICL-)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

RS

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.

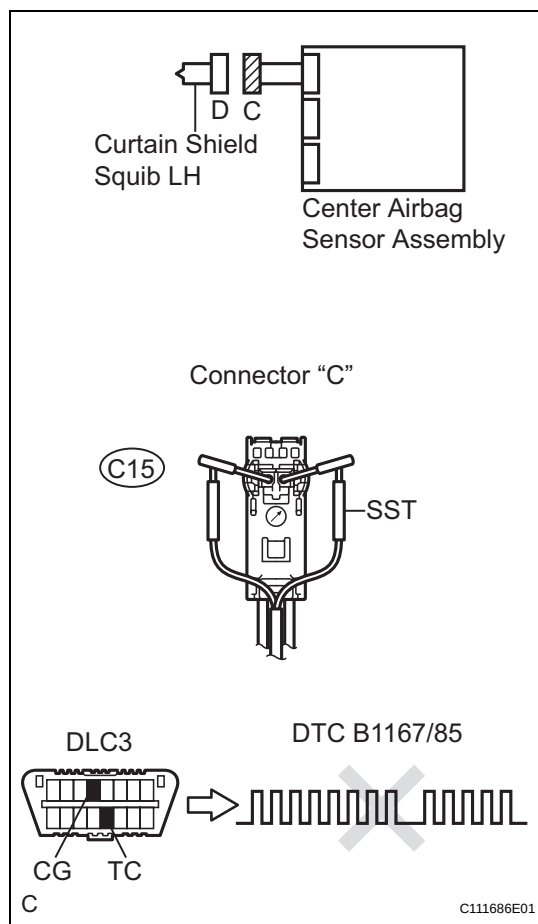
The circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the curtain shield airbag assembly LH.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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.

OK

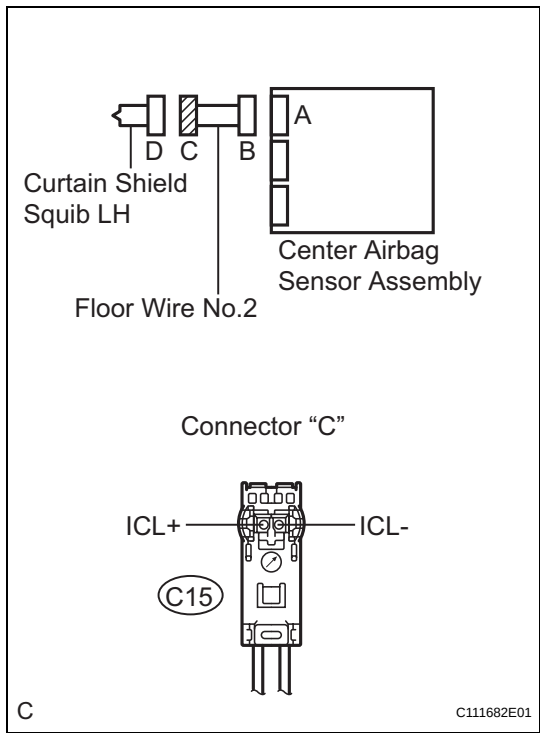
NG

Go to step 2

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

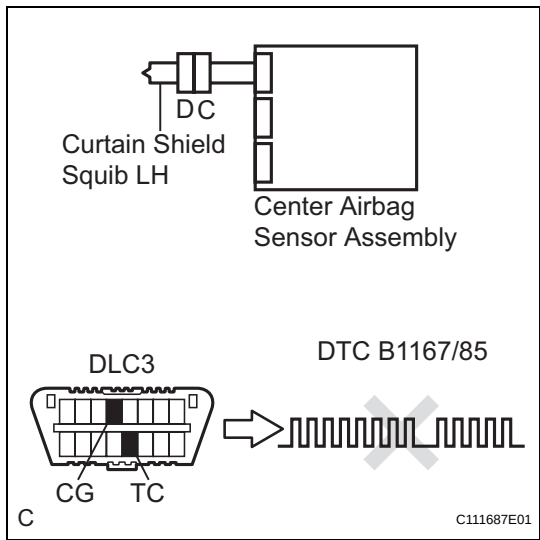
NG

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

RS

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.

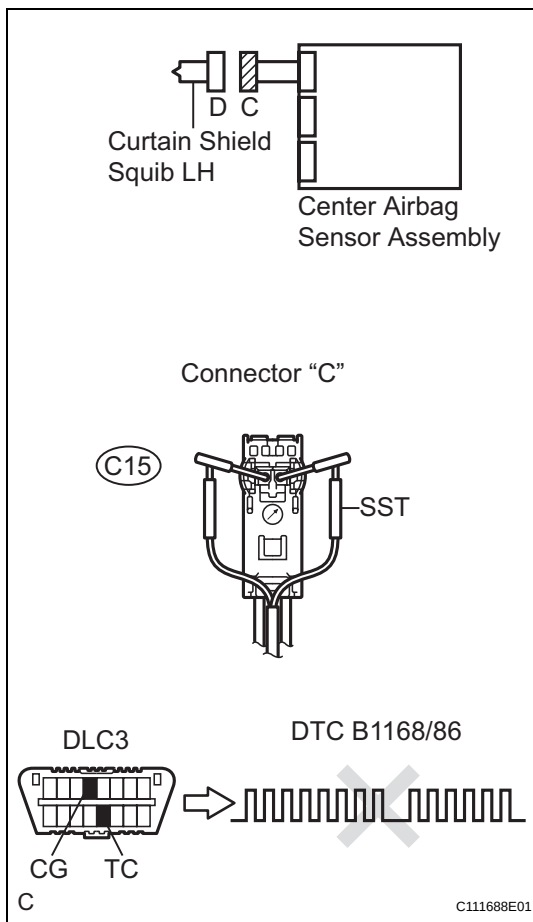
The circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the curtain shield airbag assembly LH.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (See page [RS-32](#)).

OK:

DTC B1168/86 is not output.

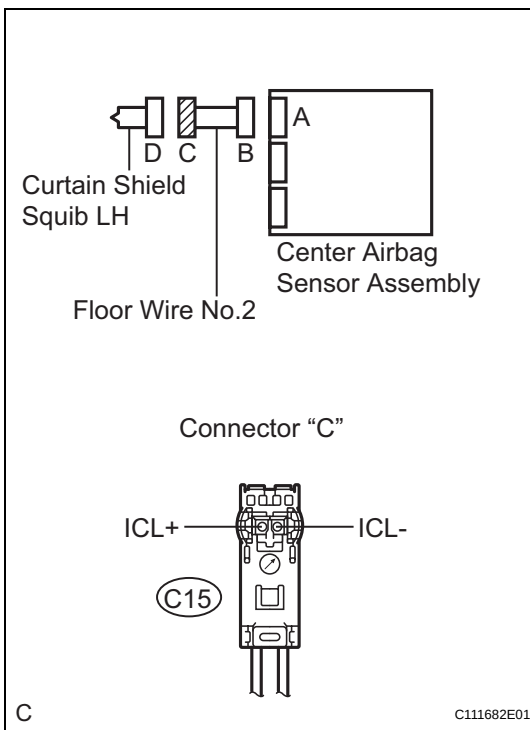
HINT:

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)**

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

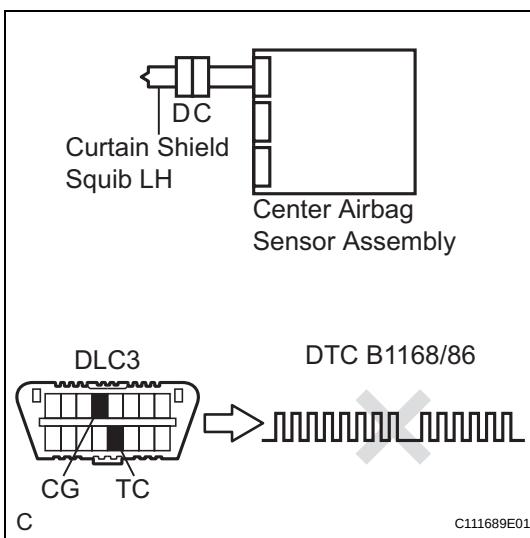
Voltage

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**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Connect the connectors to the curtain shield airbag assembly LH and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page RS-32).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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

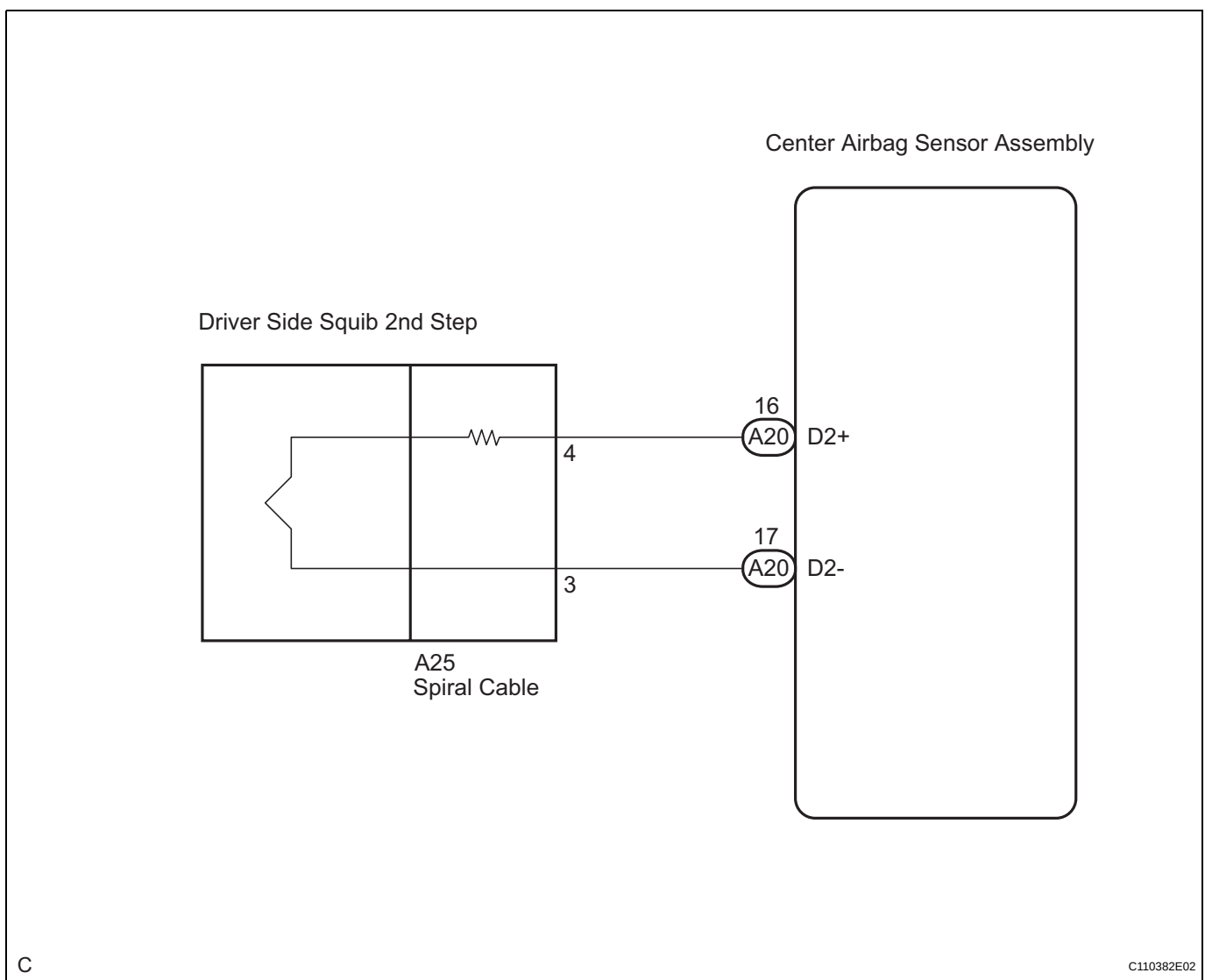
DTC**B1180/17****Short in Driver Side Squib 2nd Step Circuit****DESCRIPTION**

The driver side squib 2nd step circuit consists of the center airbag sensor assembly, the spiral cable and the steering pad.

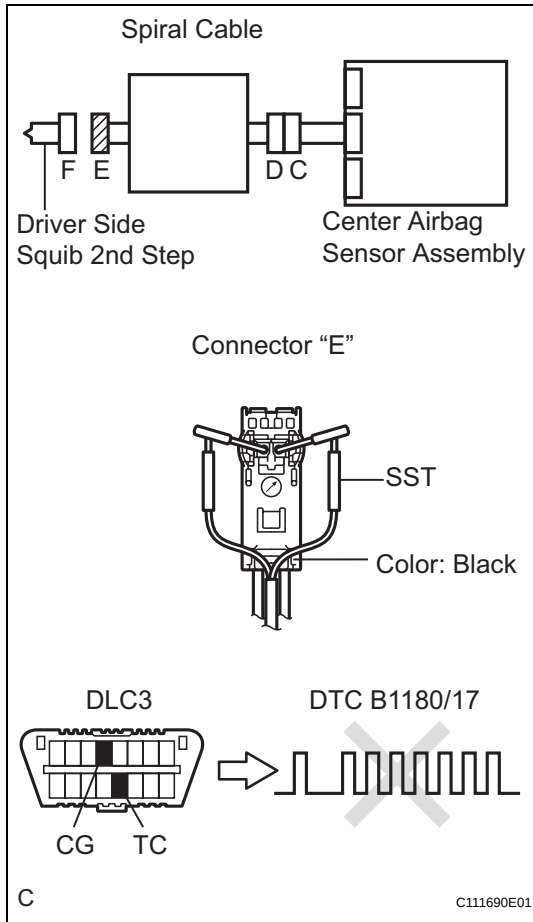
The circuit instructs the SRS to deploy when deployment conditions are met.

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)



- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the steering pad.
- Connect the white wire side of SST (resistance 2.1Ω) 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See Page RS-32).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the SST (resistance 2.1Ω) from the spiral cable.
- Check that the spiral cable connectors (on the steering pad side) are not damaged.

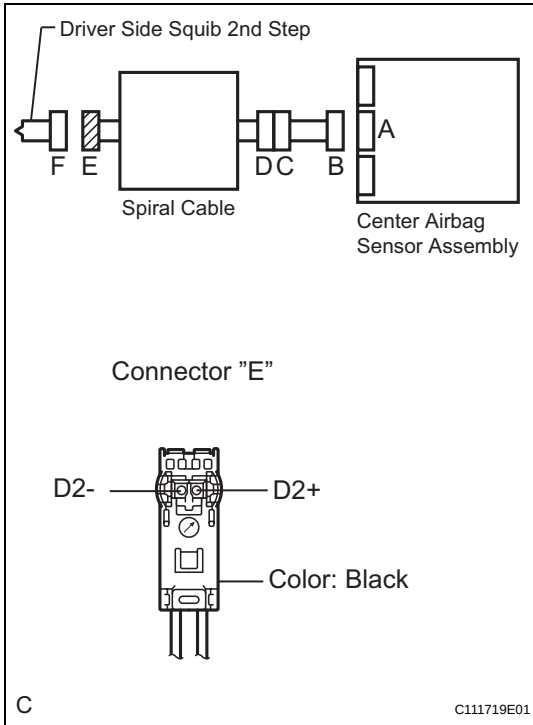
OK:

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

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

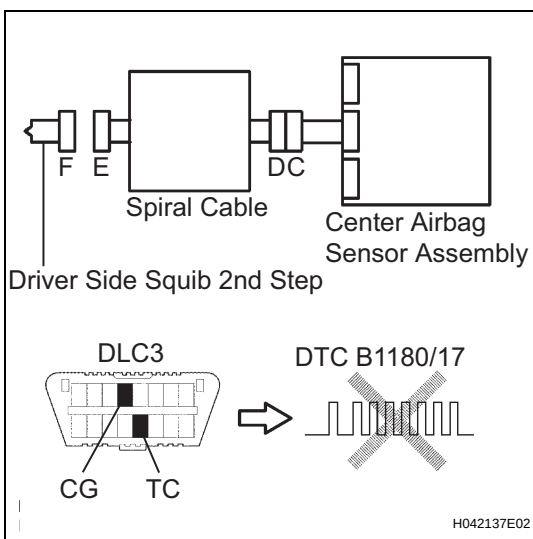
Resistance

Tester connection	Condition	Specified condition
D2+ - D2-	Always	1 MΩ or higher

NG

Go to step 5

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY

- Connect the connectors to the steering pad and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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.

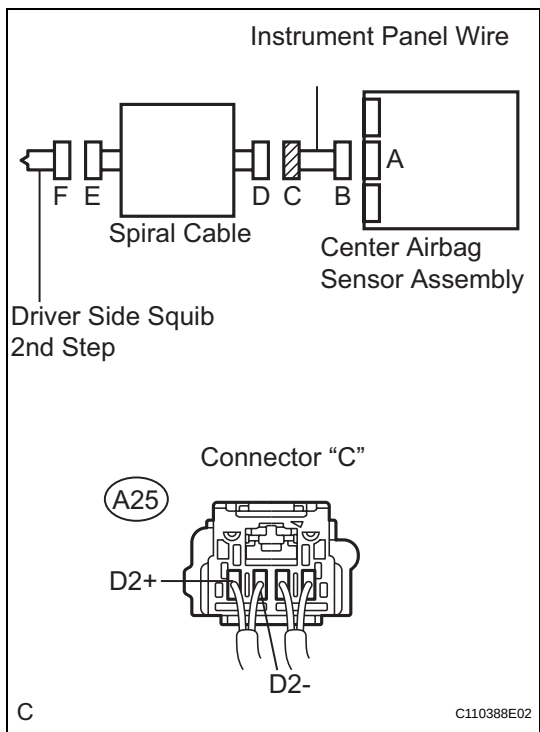
NG

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.

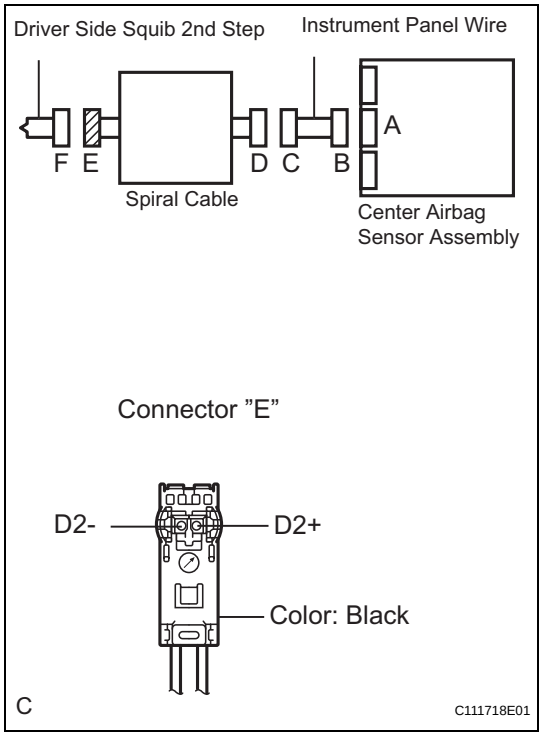
Resistance

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

RS

OK

USE SIMULATION METHOD TO CHECK

DTC**B1181/18****Open in Driver Side Squib 2nd Step Circuit****DESCRIPTION**

The driver side squib 2nd step circuit consists of the center airbag sensor assembly, the spiral cable and the steering pad.

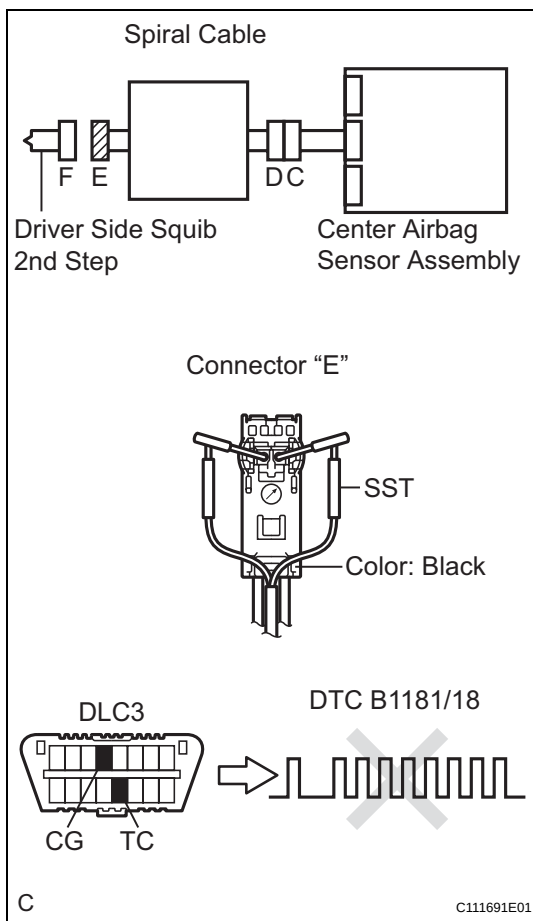
The circuit instructs the SRS to deploy when deployment conditions are met.

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:

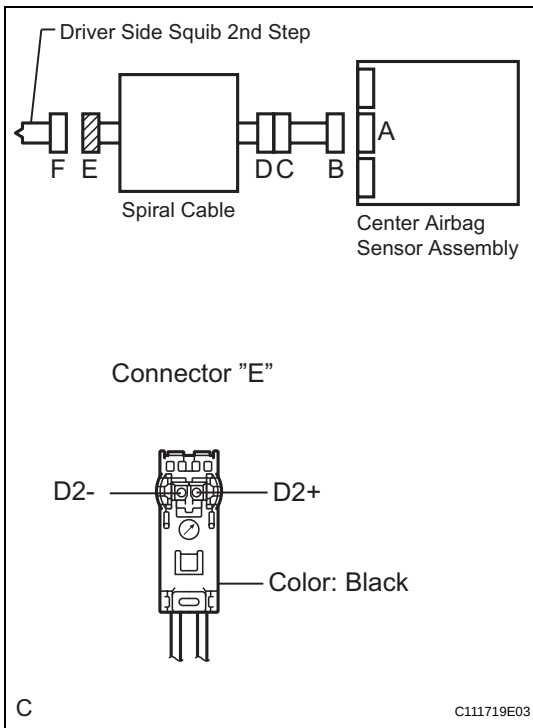
Codes other than DTC B1181/18 may be output at this time, but they are not related to this check.

NG**Go to step 2**

OK

REPLACE STEERING PAD

2 CHECK DRIVER SIDE SQUIB 2ND STEP CIRCUIT



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

Resistance

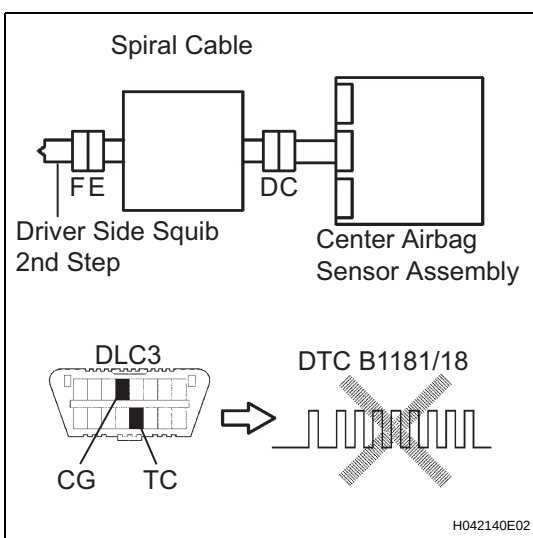
Tester connection	Condition	Specified condition
D2+ - D2-	Always	Below 1 Ω

NG

Go to step 4

OK

3 CENTER AIRBAG SENSOR ASSEMBLY



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

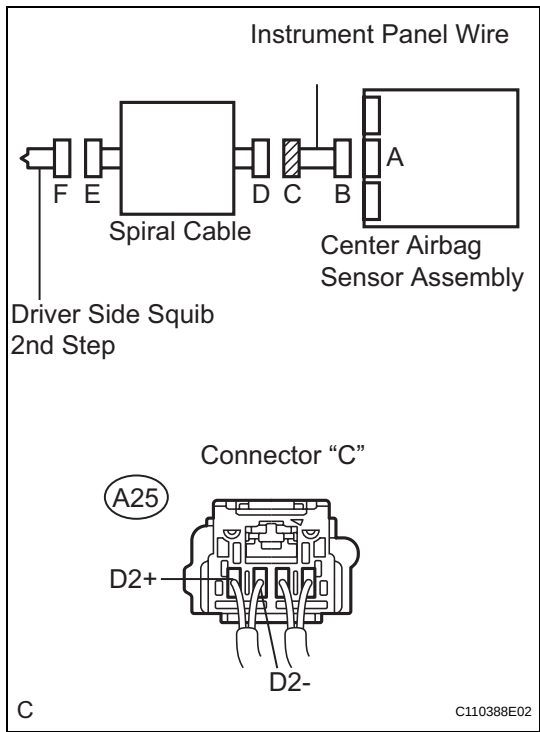
NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

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**

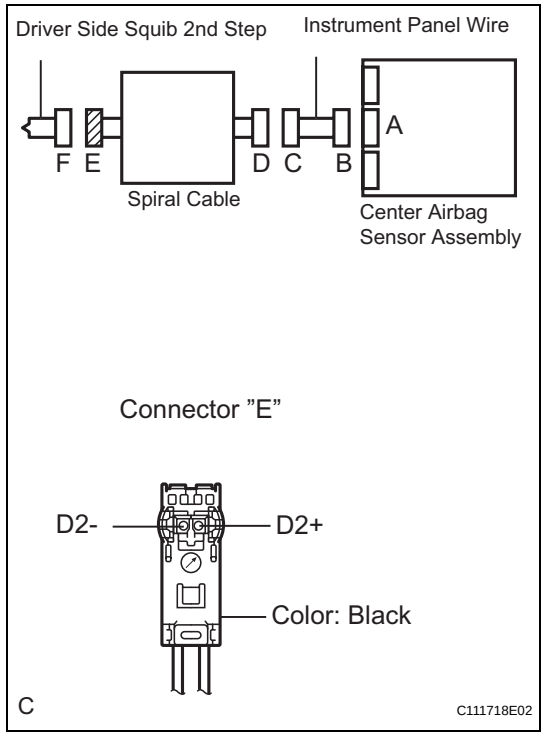
Tester connection	Condition	Specified condition
A25-4 (D2+) - A25-3 (D2-)	Always	Below 1 Ω

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.

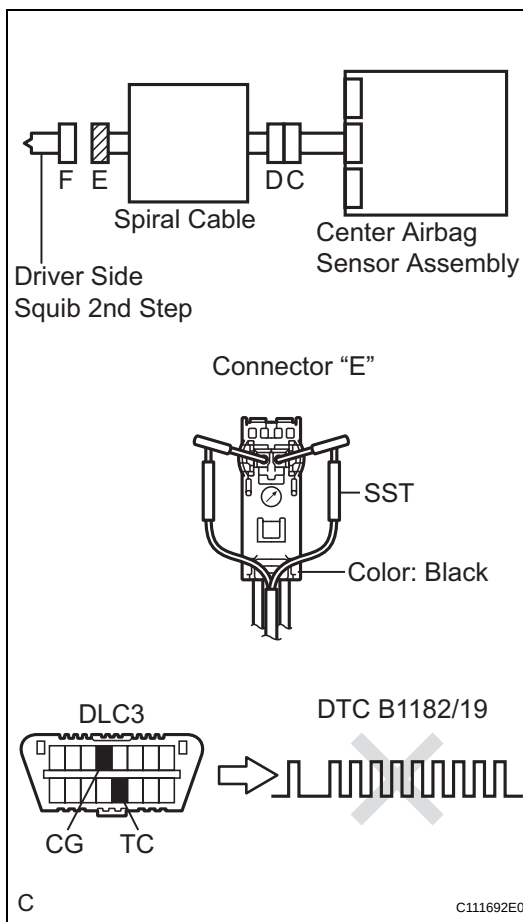
The circuit instructs the SRS to deploy when deployment conditions are met.

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

WIRING DIAGRAM

See page [RS-241](#).

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

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the steering pad.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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

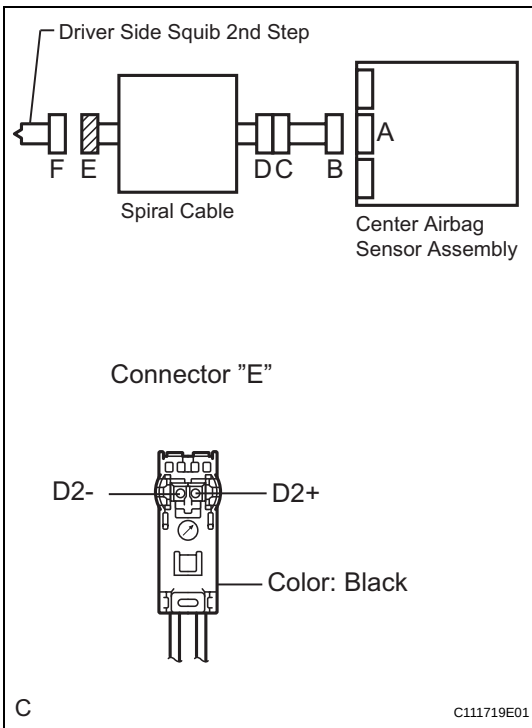
Go to step 2

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

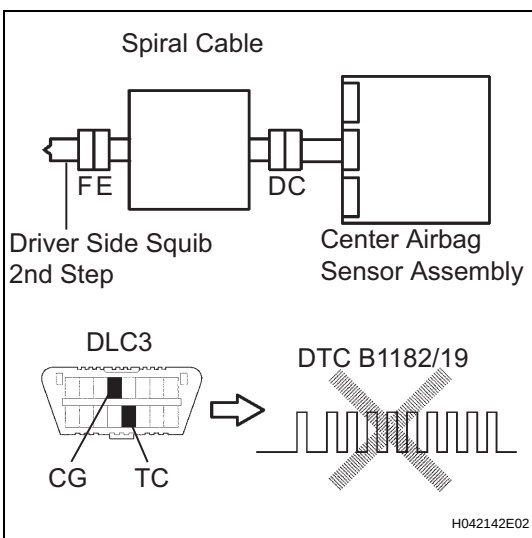
NG

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

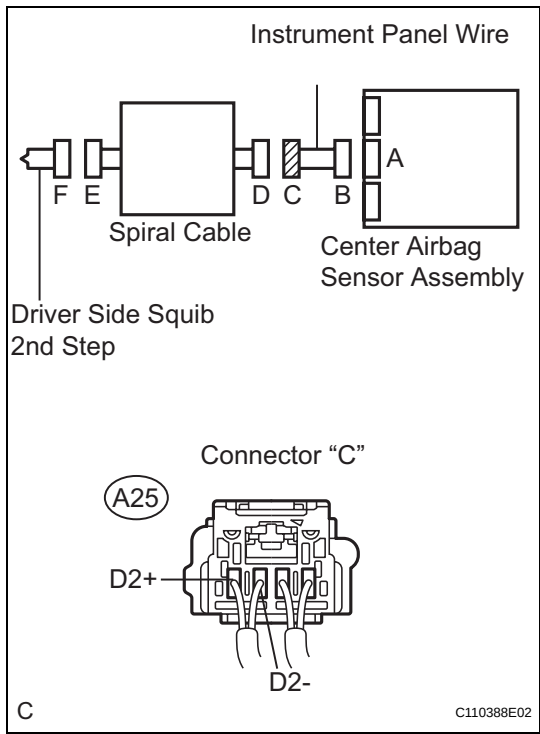
OK

USE SIMULATION METHOD TO CHECK

4

CHECK INSTRUMENT PANEL WIRE

RS



OK

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

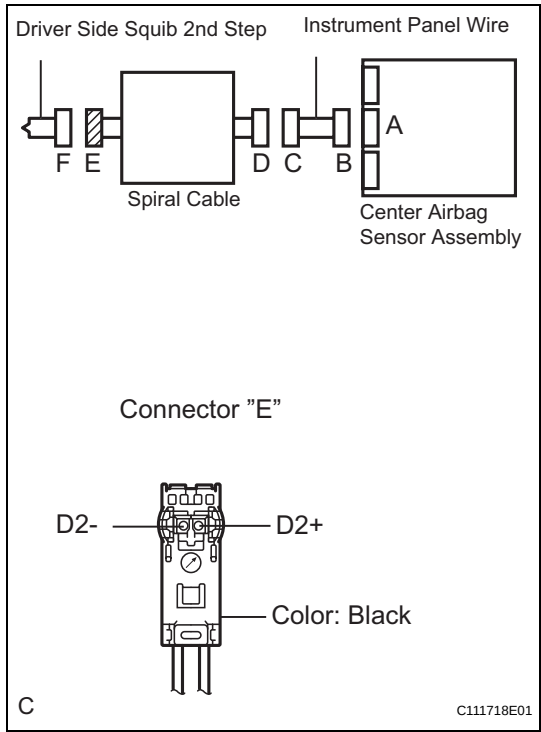
Resistance

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

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.

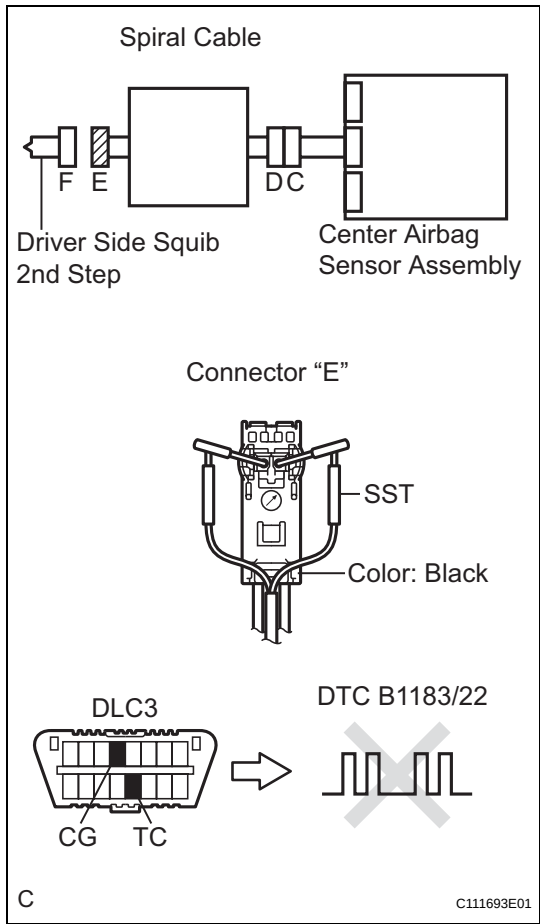
DTC B1183/22 is recorded when a short to B+ is detected in the driver side squib 2nd step circuit.

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

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).

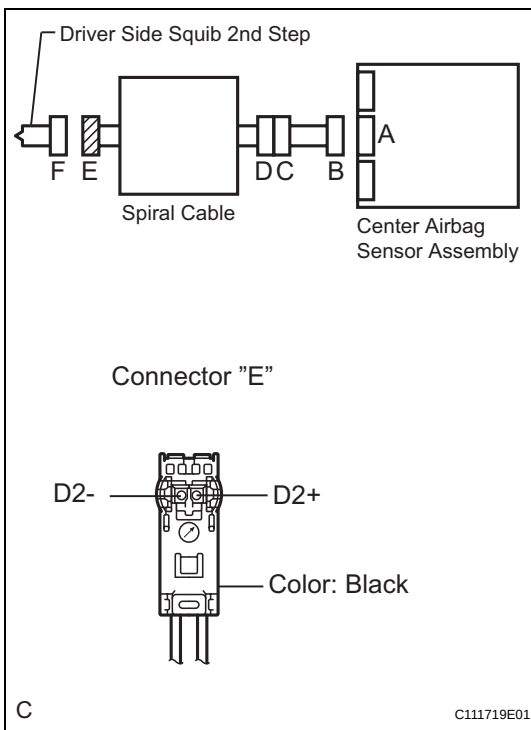
OK:
DTC B1183/22 is not output.

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**

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

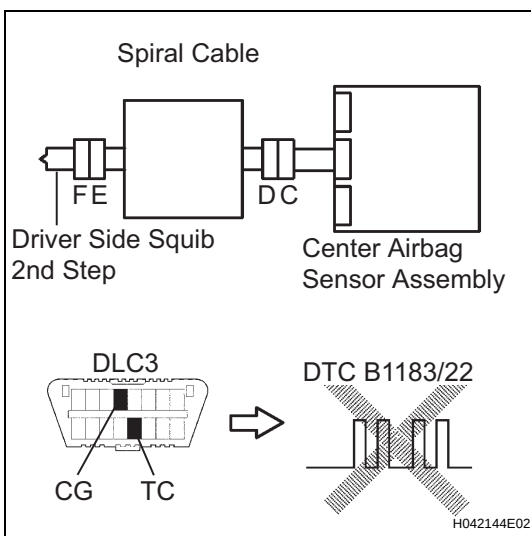
Voltage

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**

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

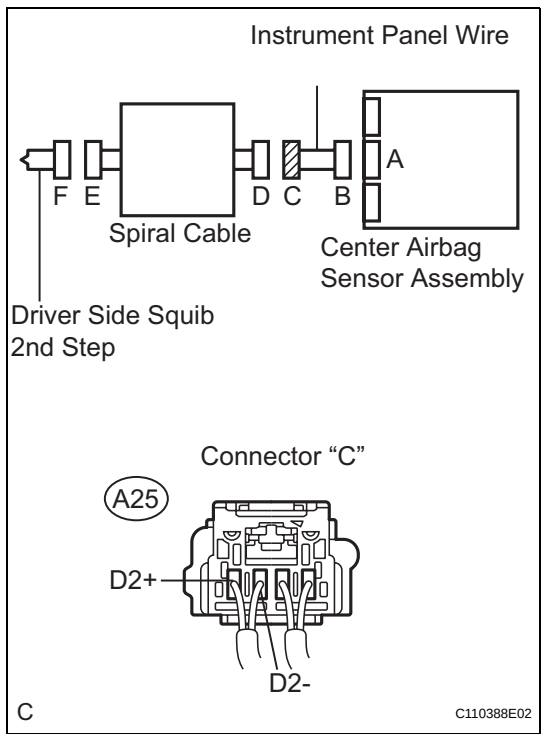
OK

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

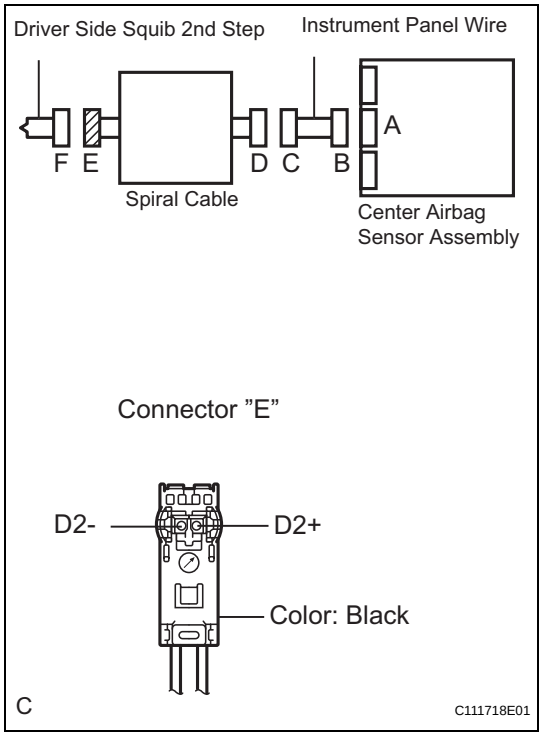
Tester connection	Condition	Specified condition
A25-4 (D2+) - Body ground	Ignition switch ON	Below 1 V
A25-3 (D2-) - Body ground	Ignition switch ON	Below 1 V

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

RS

OK

USE SIMULATION METHOD TO CHECK

DTC	B1185/57	Short in Front Passenger Side Squib 2nd Step Circuit

DESCRIPTION

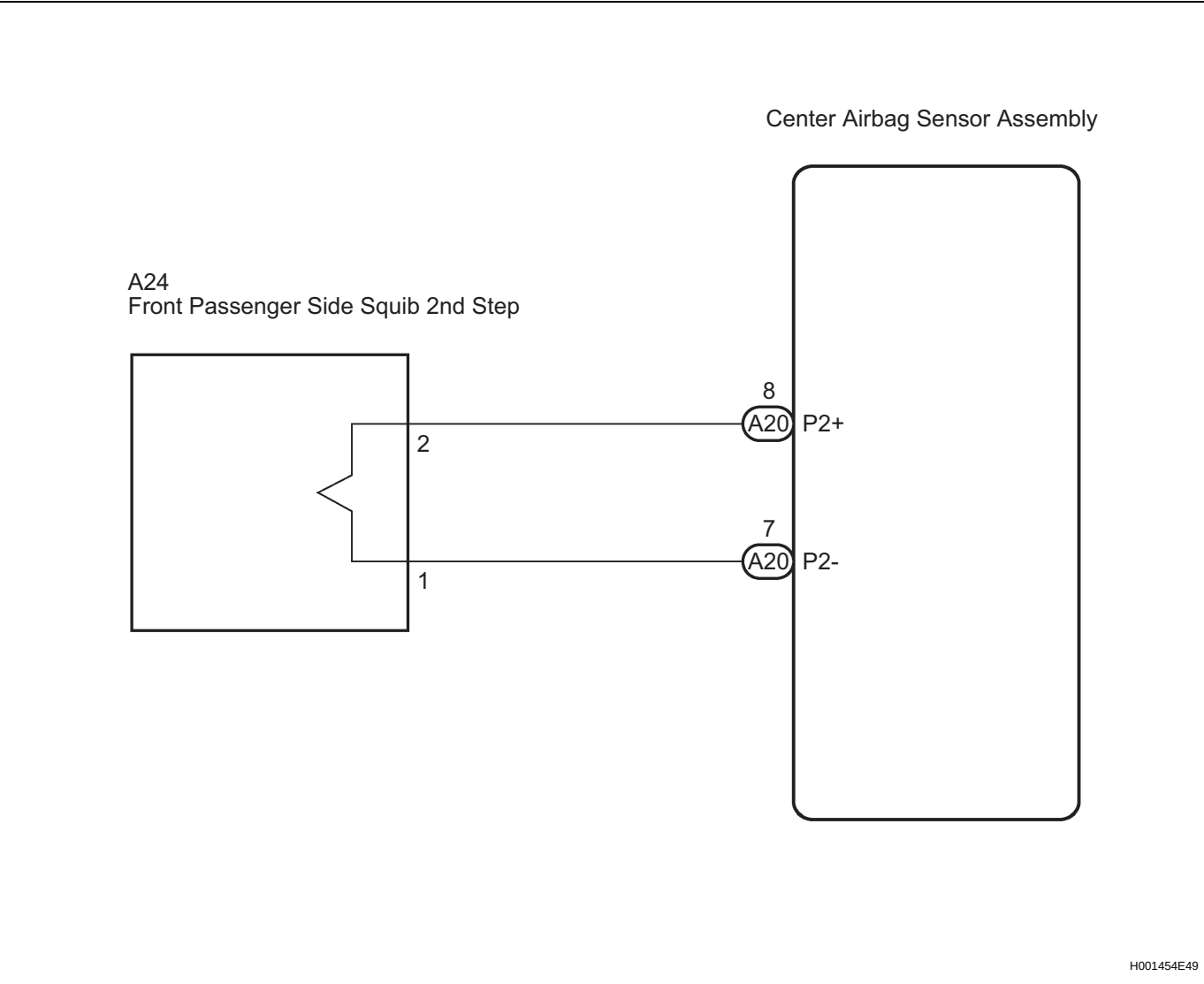
The front passenger side squib 2nd step circuit consists of the center airbag sensor assembly and the front passenger airbag assembly.

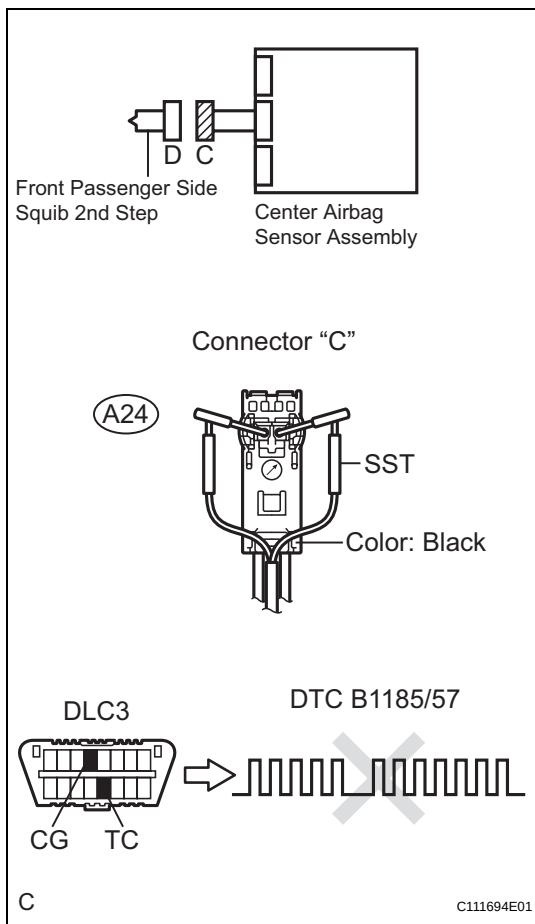
The circuit instructs the SRS to deploy when deployment conditions are met.

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

WIRING DIAGRAM



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

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front passenger airbag assembly.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page RS-32).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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**

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

RS

OK:

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

NG

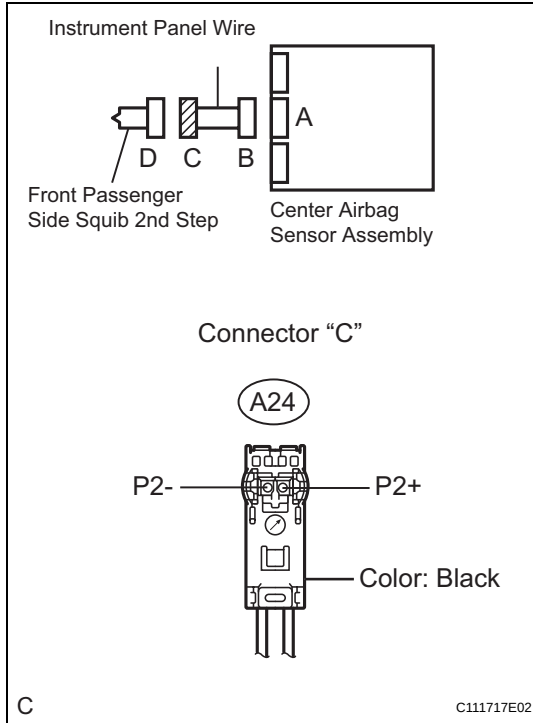
REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

3

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

RS



- Disconnect the connector from the center airbag sensor assembly.
- Release the activation prevention mechanism built into connector "B" (See page [RS-25](#)).
- 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

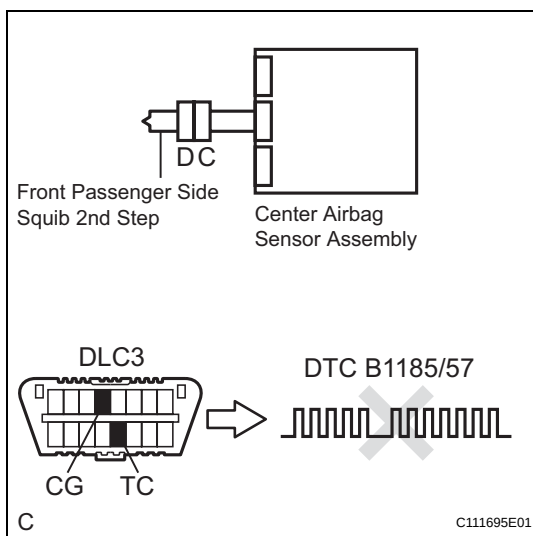
NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

4

CHECK CENTER AIRBAG SENSOR ASSEMBLY



- Connect the connectors to the front passenger airbag assembly and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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

RS

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.

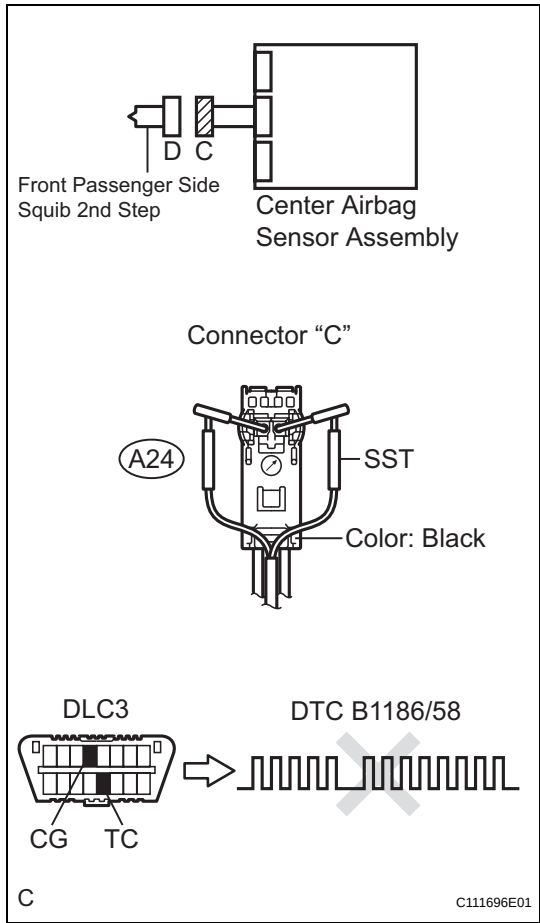
DTC B1186/58 is recorded when an open circuit is detected in the front passenger side squib 2nd step circuit.

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

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

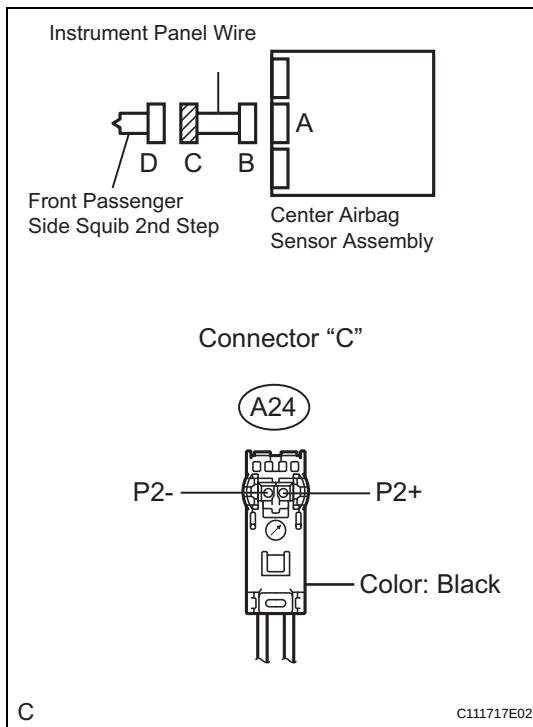
OK

REPLACE FRONT PASSENGER AIRBAG ASSEMBLY

2

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

RS



- (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

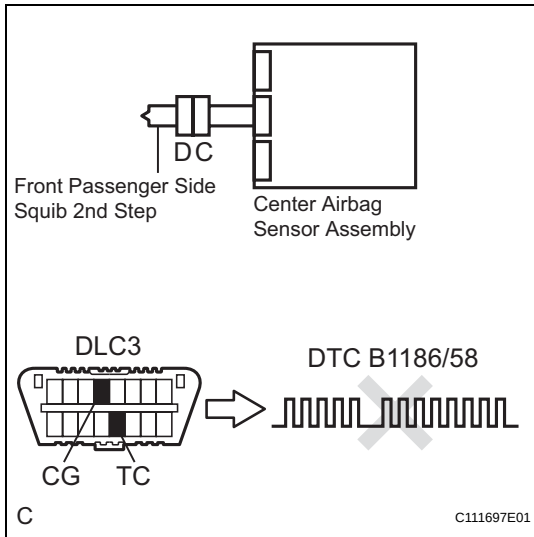
NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

3

CHECK CENTER AIRBAG SENSOR ASSEMBLY



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

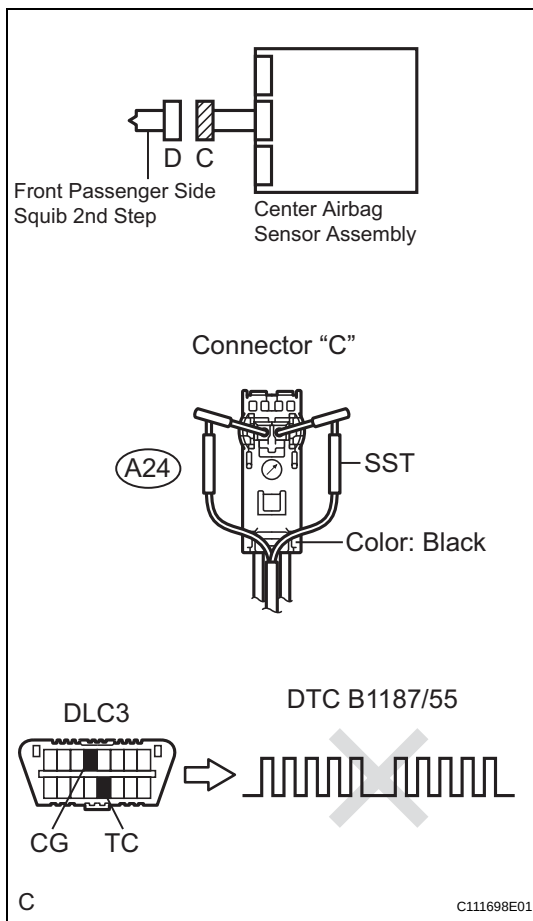
The circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front passenger airbag assembly.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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

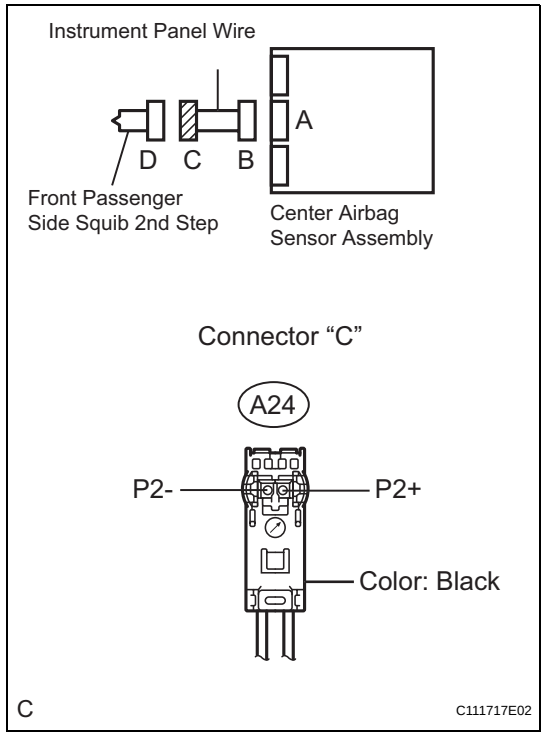
OK

REPLACE FRONT PASSENGER AIRBAG ASSEMBLY

2

CHECK INSTRUMENT PANEL WIRE (PASSENGER SIDE SQUIB 2ND STEP CIRCUIT)

RS



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

Resistance

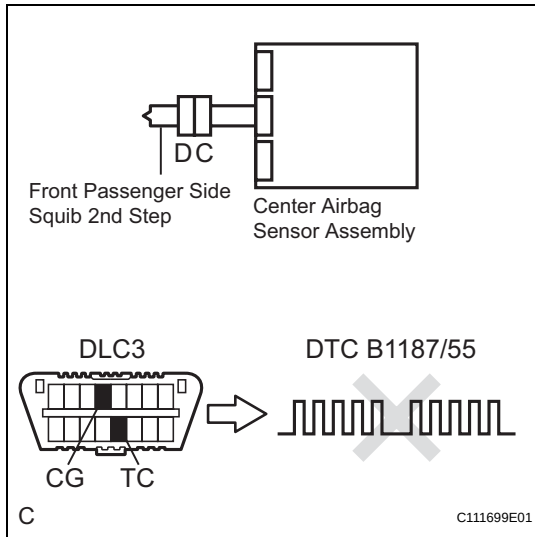
Tester connection	Condition	Specified condition
A24-2 (P2+) - Body ground	Always	1 MΩ or higher
A24-1 (P2-) - Body ground	Always	1 MΩ or higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



- Connect the connectors to the front passenger airbag assembly and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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

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.

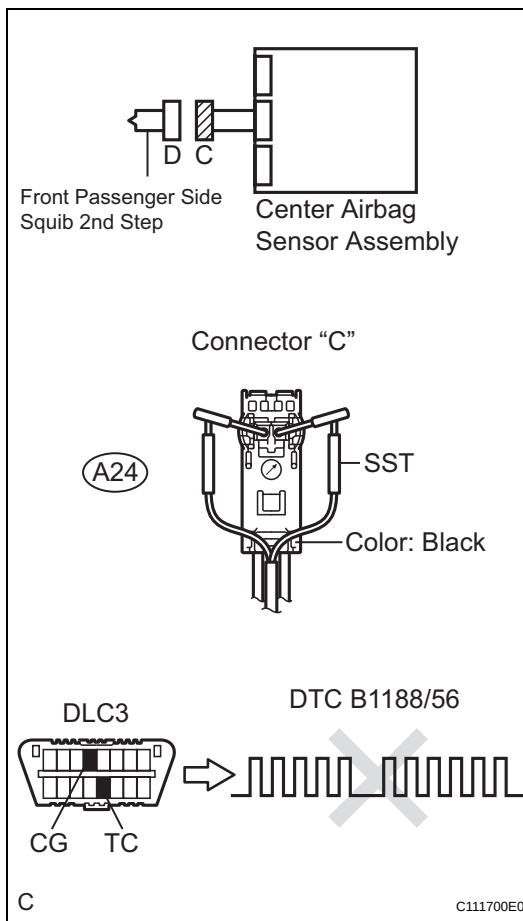
The circuit instructs the SRS to deploy when deployment conditions are met.

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

WIRING DIAGRAM

See page [RS-258](#).

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

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front passenger airbag assembly.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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

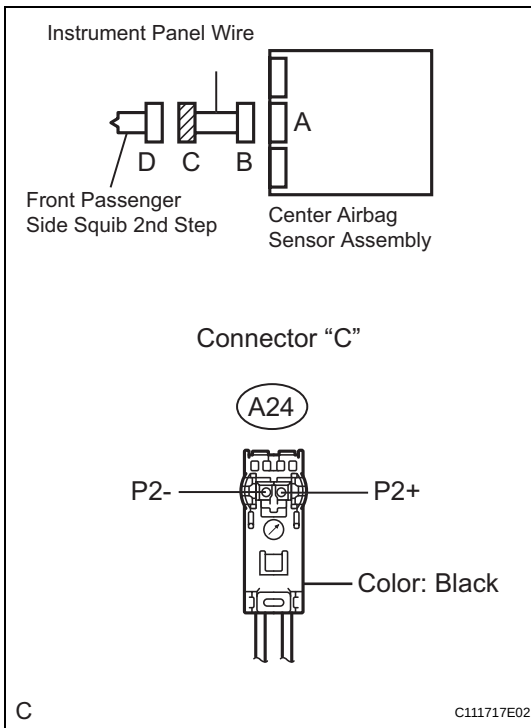
Go to step 2

OK

REPLACE FRONT PASSENGER AIRBAG ASSEMBLY

2

CHECK INSTRUMENT PANEL WIRE (PASSENGER SIDE SQUIB 2ND STEP CIRCUIT)



- Disconnect the connector from the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- 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

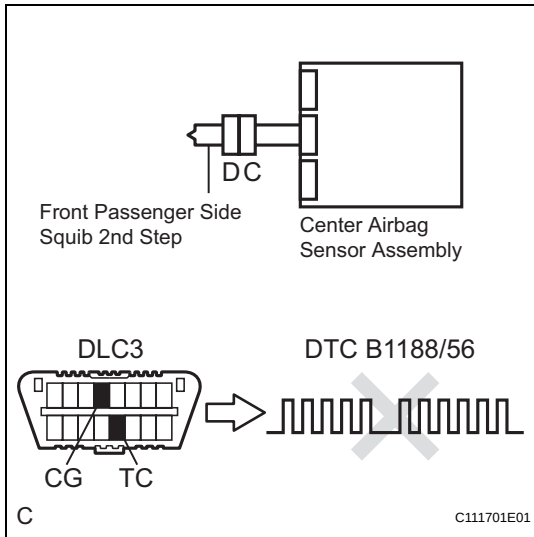
REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

RS

3

CHECK CENTER AIRBAG SENSOR ASSEMBLY



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

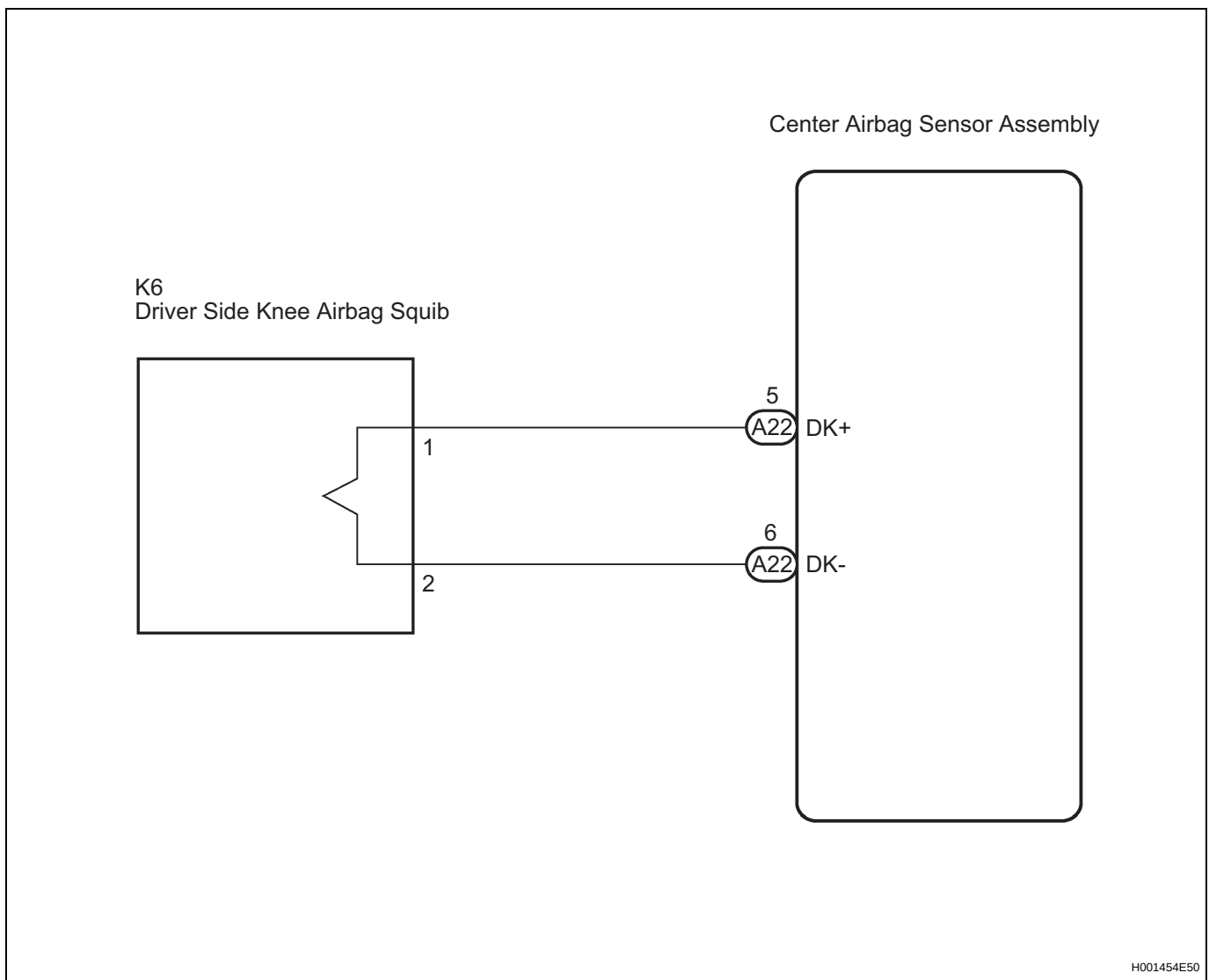
DTC**B1650/49****Short in Driver Side Knee Airbag Squib Circuit****DESCRIPTION**

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.

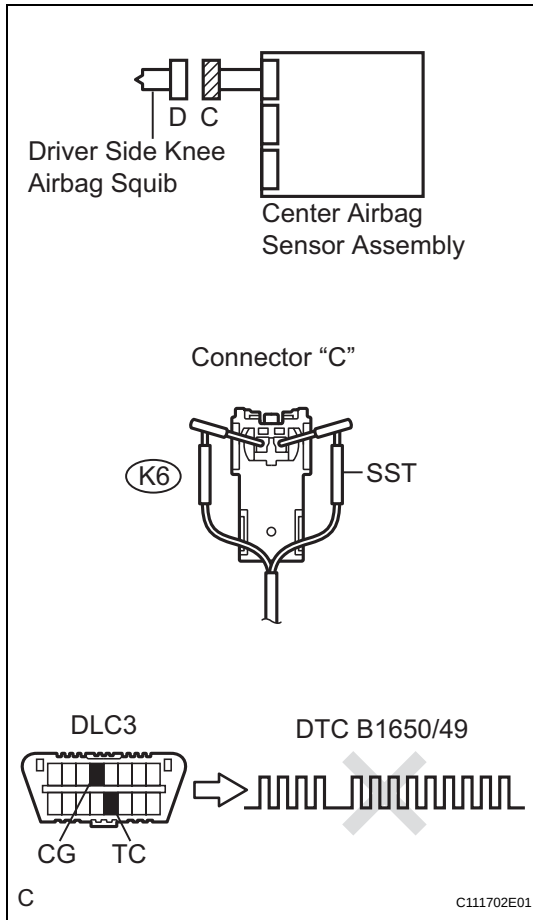
DTC B1650/49 is recorded when a short circuit is detected in the driver side knee airbag squib circuit.

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)



- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the driver side knee airbag assembly.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page RS-32).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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

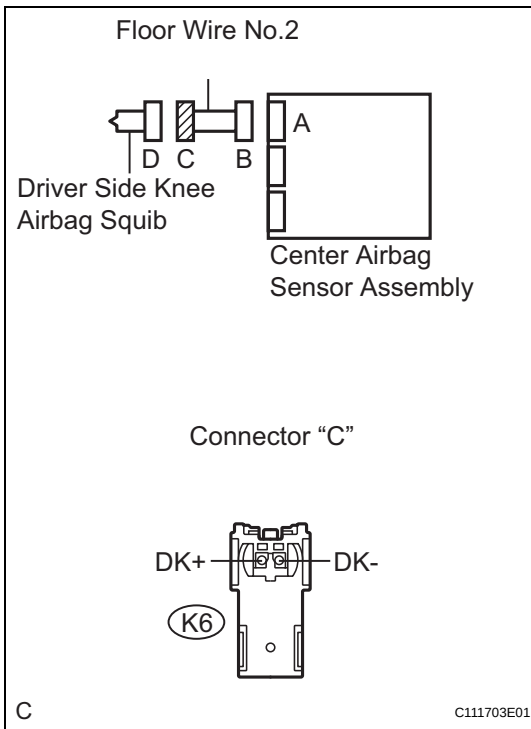
2

CHECK CONNECTORS

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the SST (resistance 2.1 Ω) from the floor wire No.2.
- Check that the floor wire No.2 connector (on the driver side knee airbag assembly side) is not damaged.

OK:

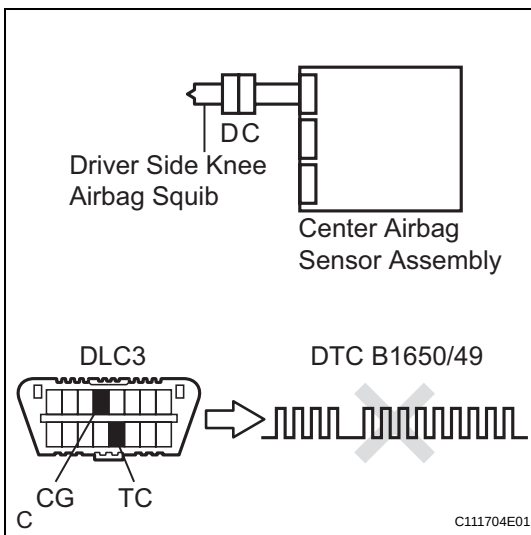
The lock button is not disengaged, and the claw of the lock is not deformed or damaged.

NG**REPAIR OR REPLACE FLOOR WIRE NO.2****OK****3****CHECK FLOOR WIRE NO.2 (DRIVER SIDE KNEE AIRBAG SQUIB CIRCUIT)**

- Disconnect the connector from the center airbag sensor assembly.
- Release the activation prevention mechanism built into connector "B" (See page [RS-25](#)).
- 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**

- Connect the connectors to the driver side knee airbag assembly and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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.

RS

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.

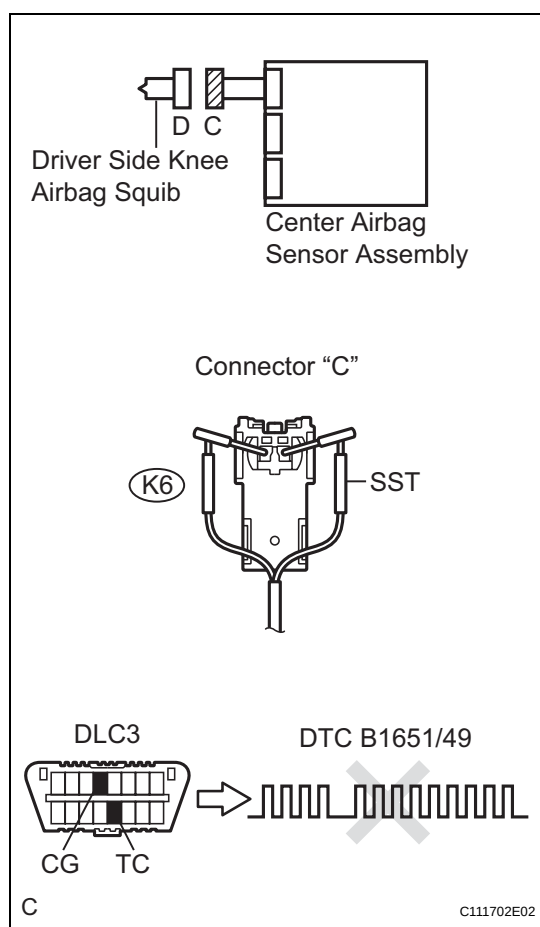
The circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the driver side knee airbag assembly.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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.

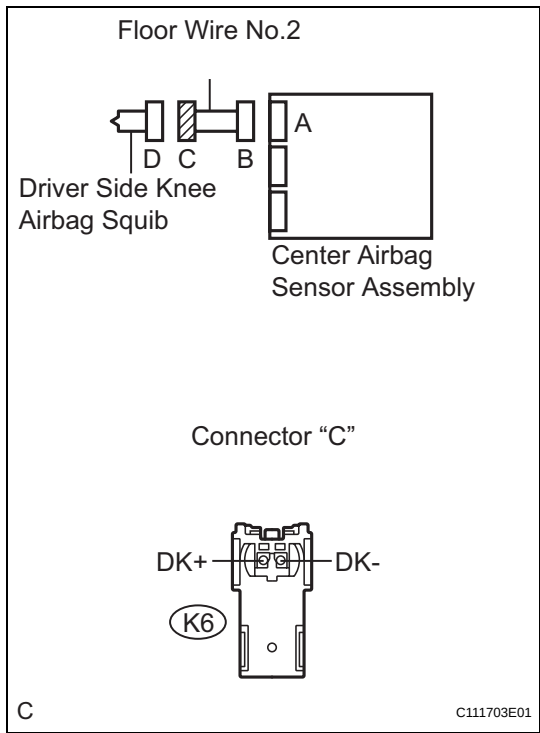
OK

NG

Go to step 2

REPLACE DRIVER SIDE KNEE AIRBAG ASSEMBLY

2CHECK 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

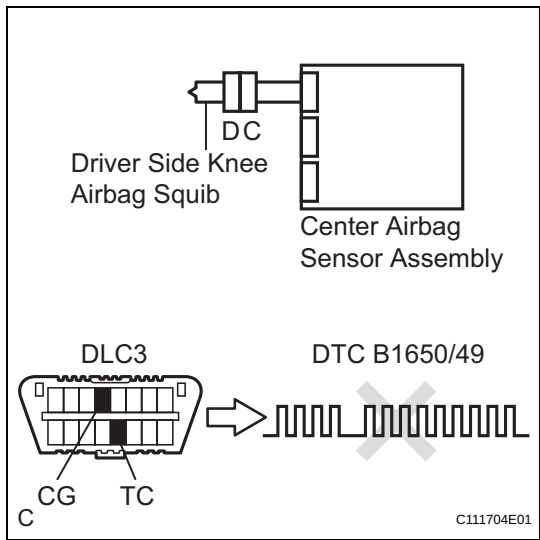
Tester connection	Condition	Specified condition
K6-1 (DK+) - K6-2 (DK-)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

OK

3CHECK 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

RS

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.

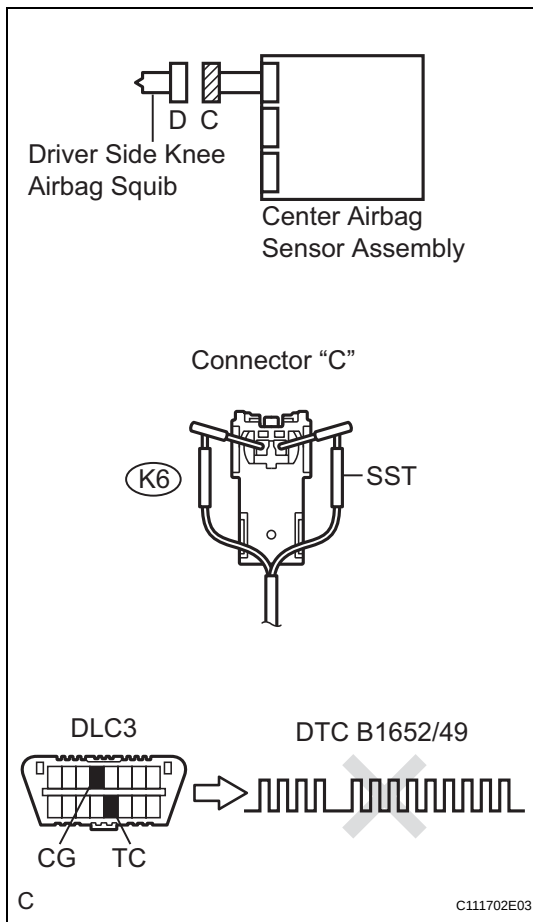
The circuit instructs the SRS to deploy when deployment conditions are met.

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

WIRING DIAGRAM

See page [RS-271](#).

1**CHECK DRIVER SIDE KNEE AIRBAG ASSEMBLY (DRIVER SIDE KNEE AIRBAG SQUIB)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the driver side knee airbag assembly.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (See page [RS-32](#)).

OK:

DTC B1652/49 is not output.

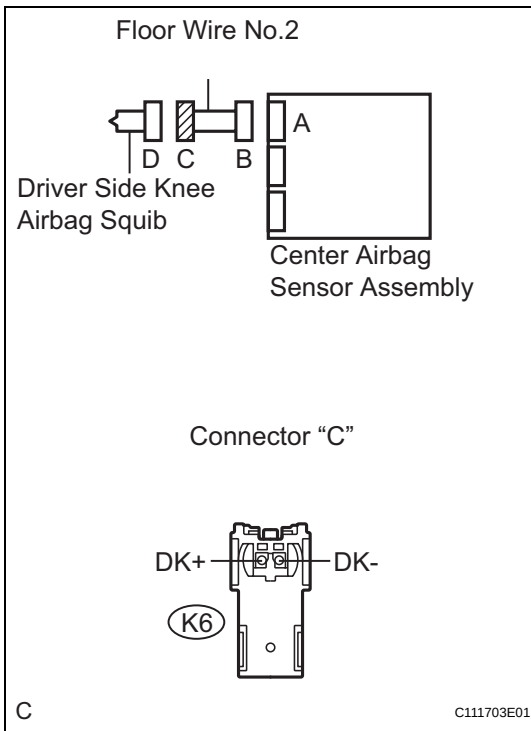
HINT:

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

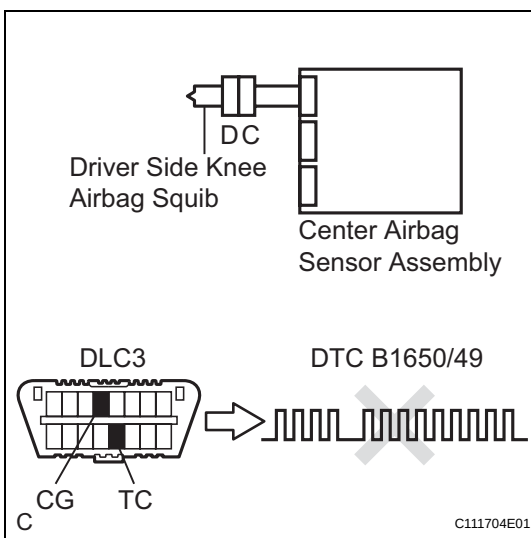
Tester connection	Condition	Specified condition
K6-1 (DK+) - Body ground	Always	1 MΩ or higher
K6-2 (DK-) - Body ground	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

RS

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.

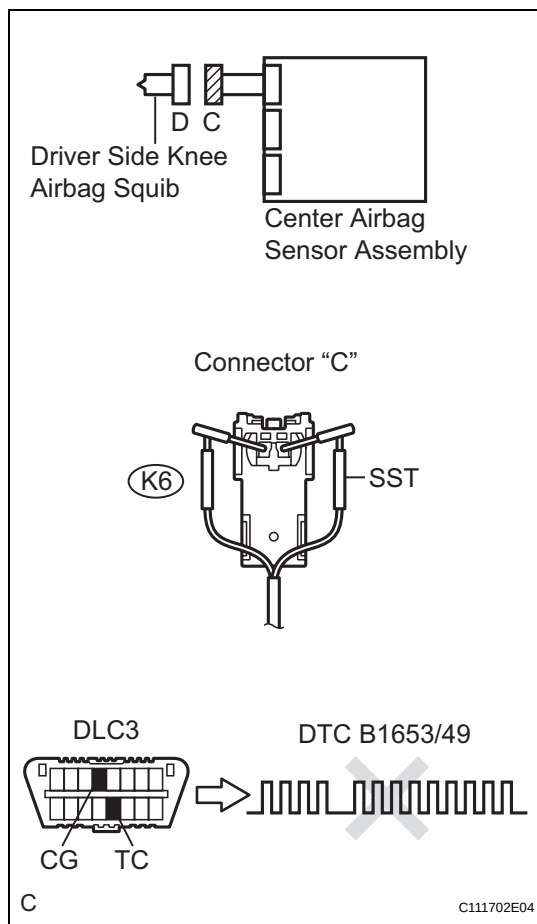
The circuit instructs the SRS to deploy when deployment conditions are met.

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)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the driver side knee airbag assembly.
- 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

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- 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.

OK

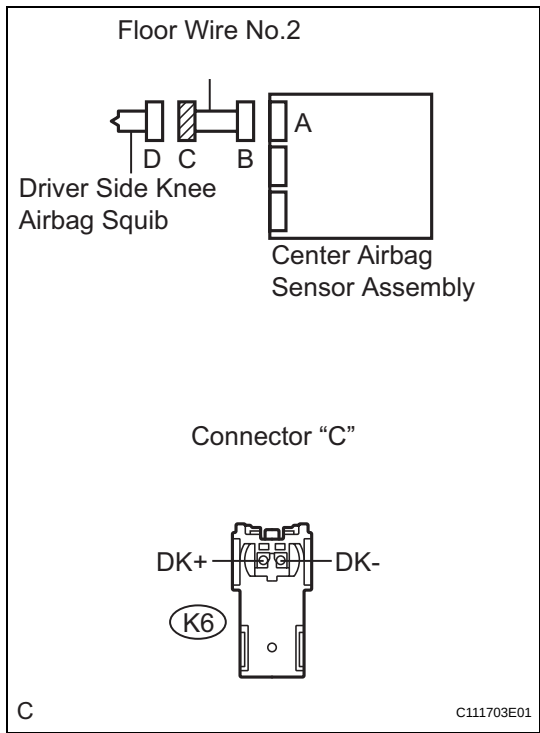
NG

Go to step 2

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

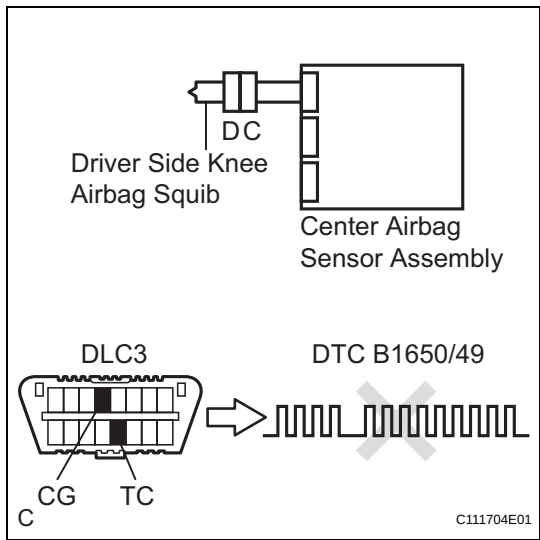
NG

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

RS

SRS Warning Light Remains ON

DESCRIPTION

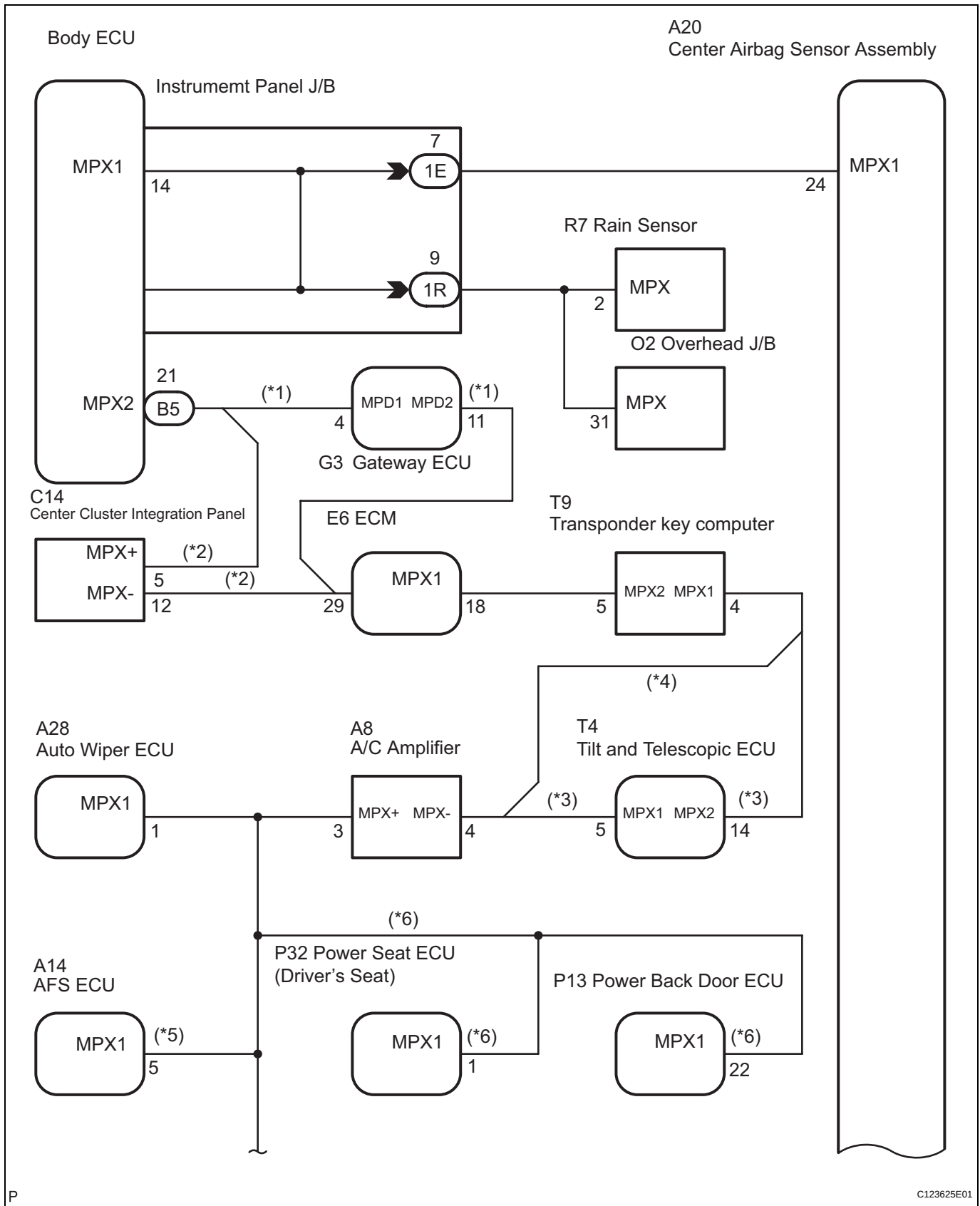
The SRS warning light is located on the combination meter assembly. When the SRS is normal, the SRS warning light comes on for approximately 6 seconds after the ignition switch is turned from the LOCK position to the ON position, and then goes off automatically. If there is a malfunction in the SRS, 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.

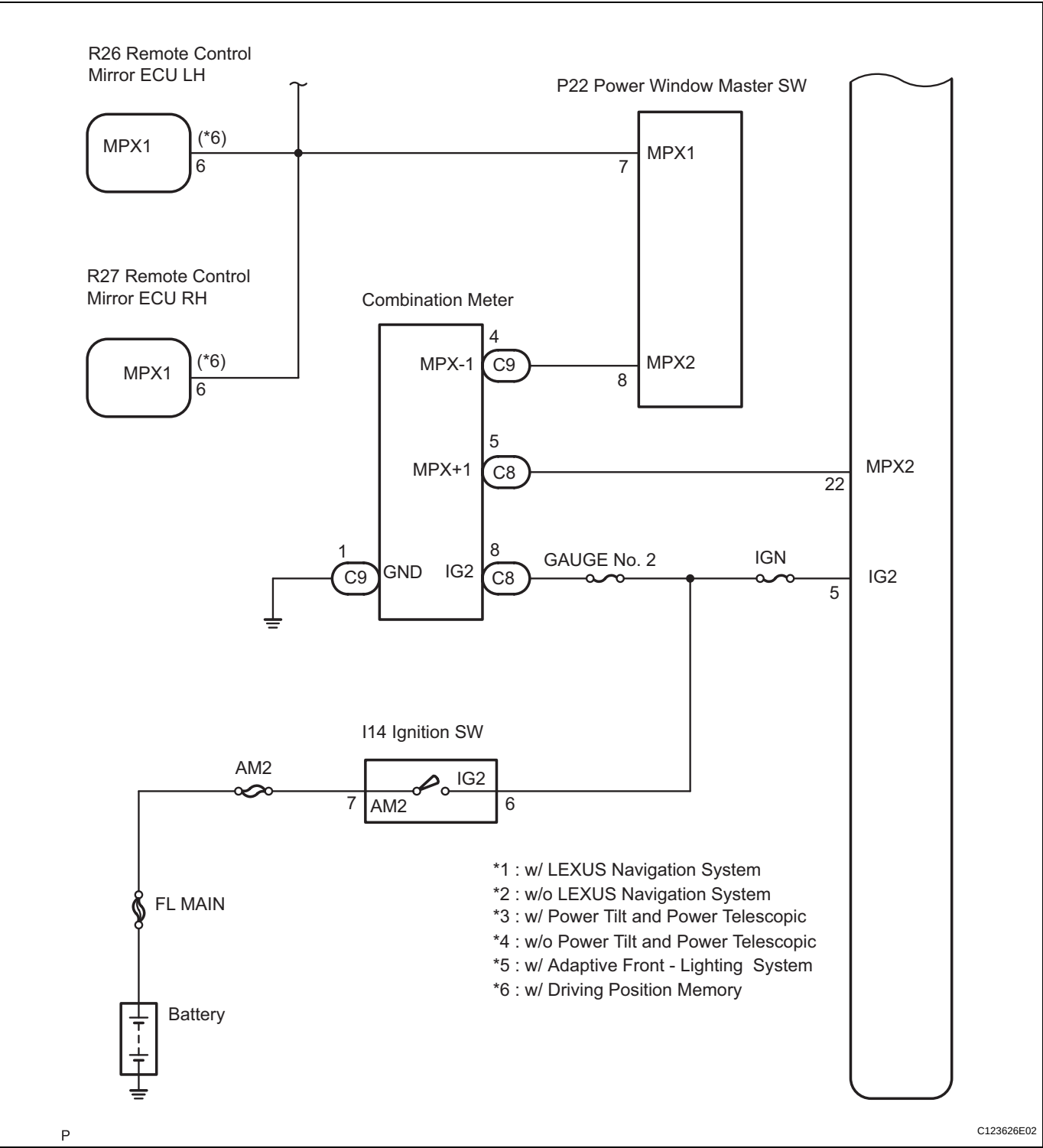
HINT:

RS

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

RS

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.

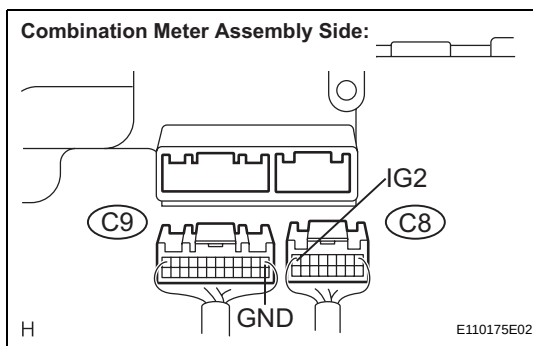
NG

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**

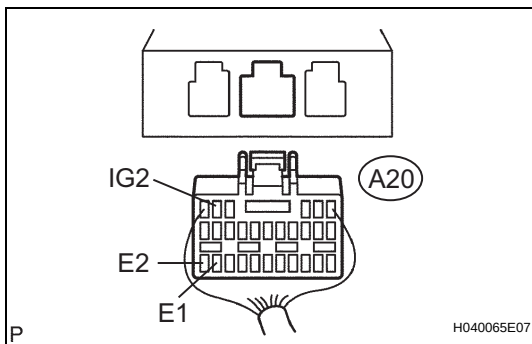
- (a) Turn the ignition switch to the LOCK position.
 (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 (c) Disconnect the connector from the center airbag sensor assembly.
 (d) Check that the connector is not damaged.

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

RS

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

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:

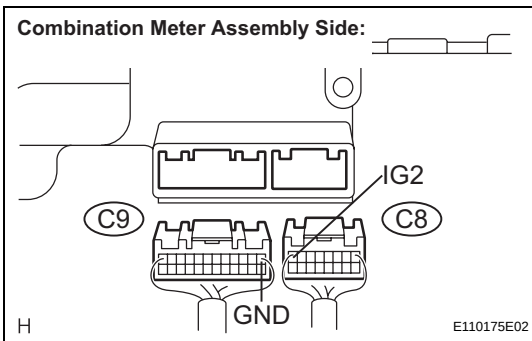
The connector is not deformed or damaged.

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

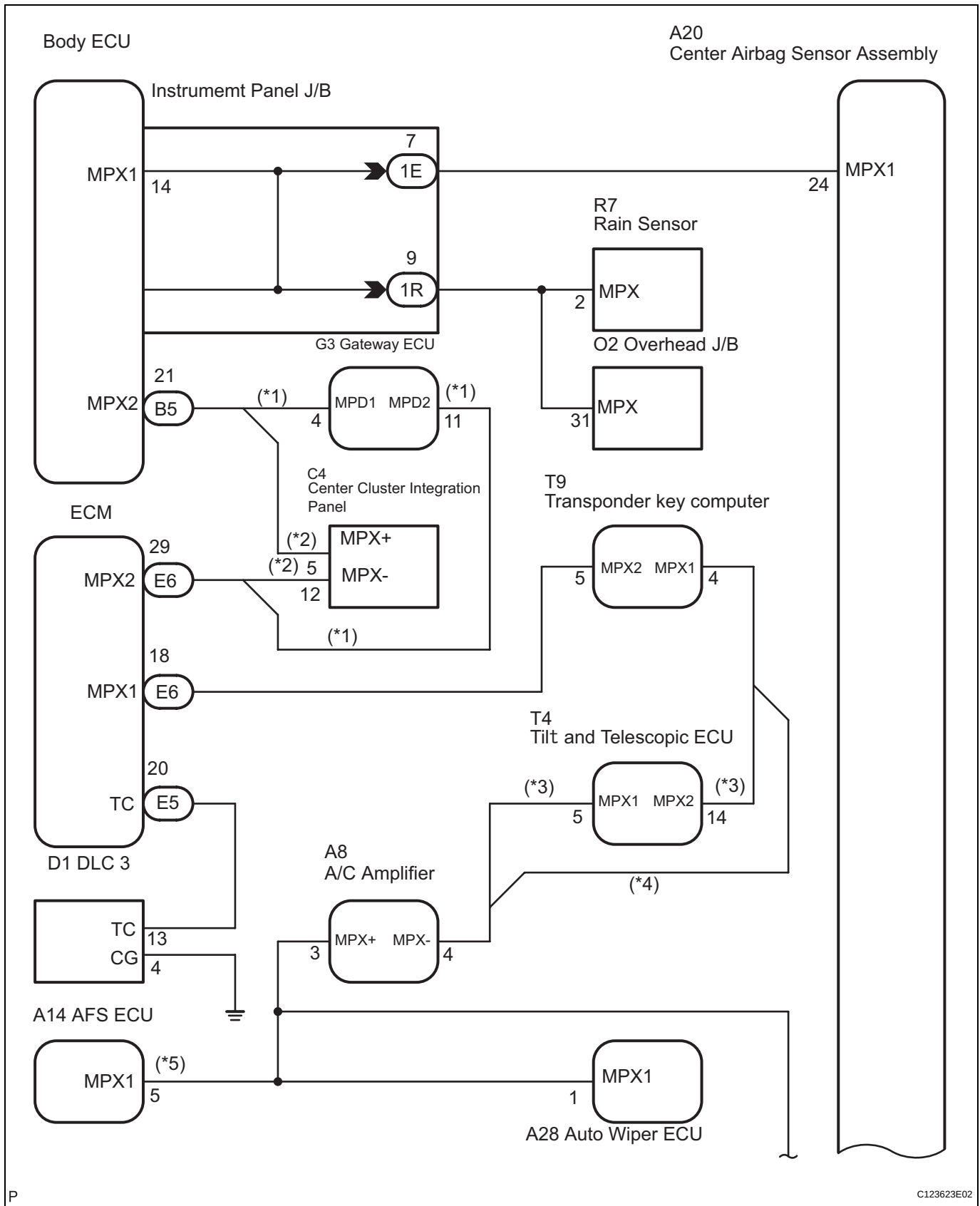
DTC output mode is set by connecting terminals TC and CG of the DLC3.

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



22

(*6)

(*6)

P32
Power Seat ECU (Driver's Seat)



1

(*6)

R26
Remote Control Mirror ECU LH



6

(*6)

R27
Remote Control Mirror ECU RH



6

(*6)

Combination Meter

P22
Power Window Master SW



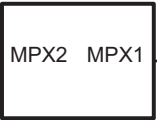
4

5

C9

C8

8

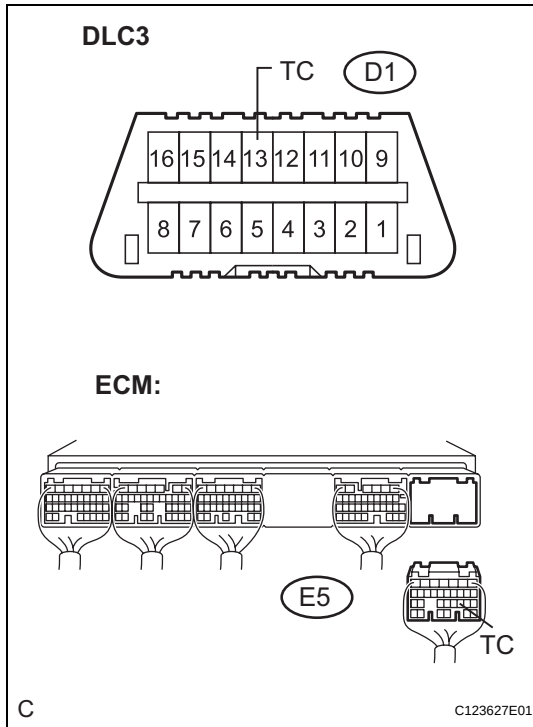


7

22

MPX2

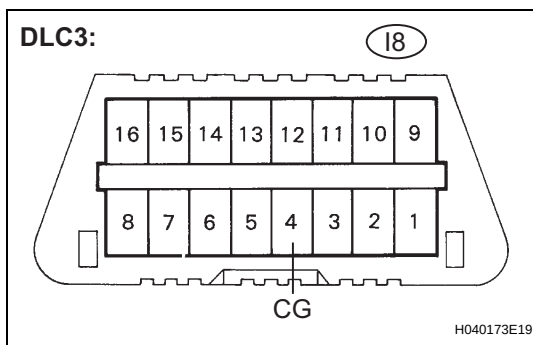
- *1 : w/ LEXUS Navigation System
- *2 : w/o LEXUS Navigation System
- *3 : w/ Power Tilt and Power Telescopic
- *4 : w/o Power Tilt and Power Telescopic
- *5: w/ Adaptive Front - Lighting System
- *6 : w/ Driving Position Memory

1 CHECK WIRE HARNESS (DLC3 - ECM)

- Turn the ignition switch to the LOCK position.
- Disconnect the center airbag sensor assembly connector.
- 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

NG**REPAIR OR REPLACE WIRE HARNESS (TC OF DLC3 - TC OF ECM)****OK****2 CHECK WIRE HARNESS (CG OF DLC3 - BODY GROUND)**

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

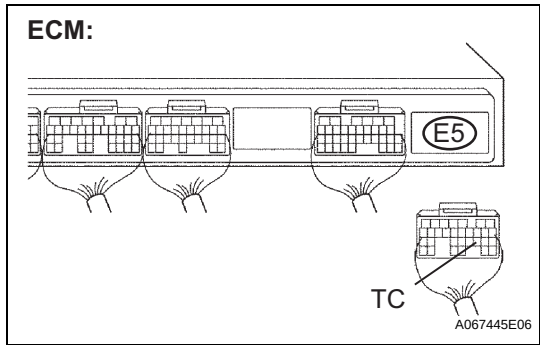
Resistance

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

OCCUPANT CLASSIFICATION SYSTEM

PRECAUTION

NOTICE:

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

RS

1. INSPECTION PROCEDURE FOR VEHICLE INVOLVED IN ACCIDENT

- (a) Perform the zero point calibration and sensitivity check if any of the following conditions occur.
- The occupant classification ECU is replaced.
 - Accessories (seatback tray and seat cover, etc.) are installed.
 - The front passenger seat is removed from the vehicle.
 - The passenger airbag ON/OFF indicator ("OFF") comes on when the front passenger seat is not occupied.
 - The vehicle is brought to the workshop for repair due to an accident or a collision.

NOTICE:

When an accident vehicle is brought into the workshop for repair, check the flatness of the body side that is equipped with the passenger seat. If the flatness is not within ± 3.0 mm (0.118 in.), adjust it to the specified range.

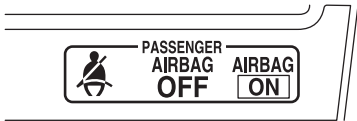
PARTS LOCATION

*1: w/o LEXUS NAVIGATION SYSTEM

*2: w/ LEXUS NAVIGATION SYSTEM

CENTER CLUSTER INTEGRATION SWITCH ASSEMBLY (*1):

MULTI-DISPLAY ASSEMBLY (*2):



CENTER AIRBAG SENSOR ASSEMBLY

FRONT OCCUPANT CLASSIFICATION SENSOR LH

OCCUPANT CLASSIFICATION ECU

FRONT OCCUPANT CLASSIFICATION SENSOR RH

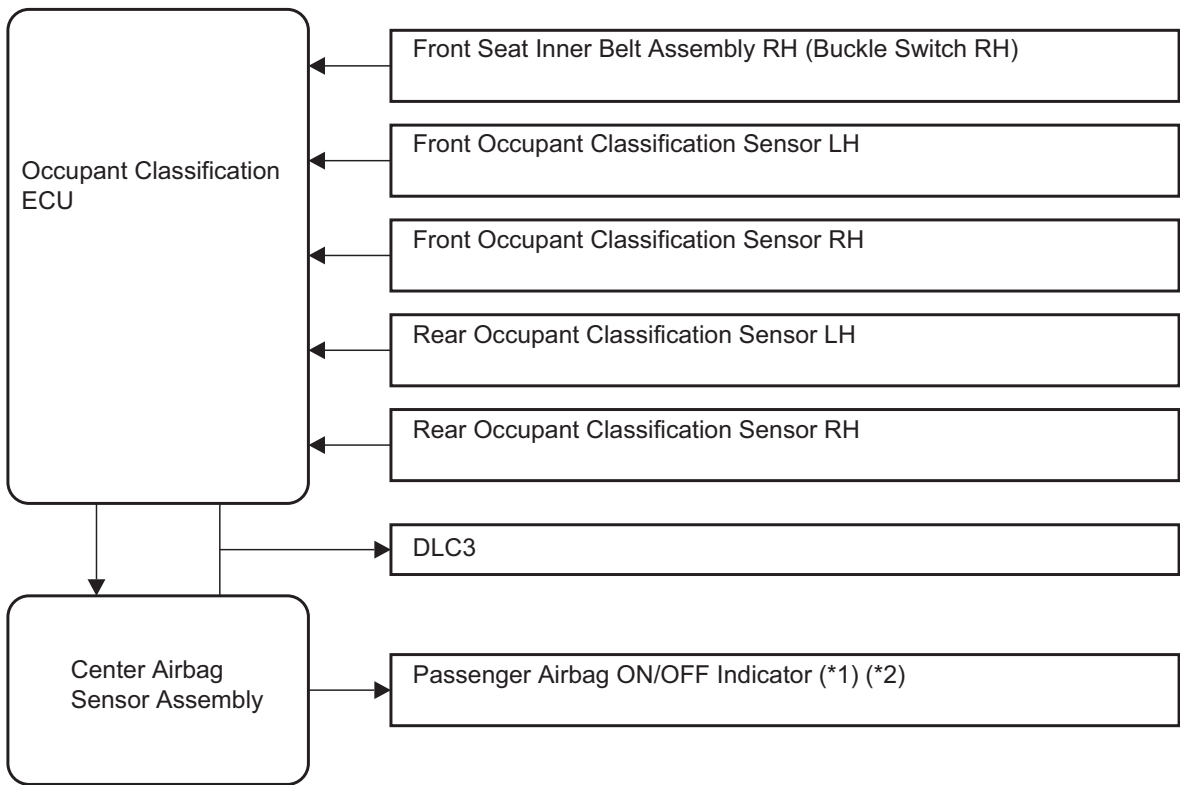
FRONT SEAT INNER BELT ASSEMBLY RH

REAR OCCUPANT CLASSIFICATION SENSOR LH

REAR OCCUPANT CLASSIFICATION SENSOR RH

RS

SYSTEM DIAGRAM



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

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

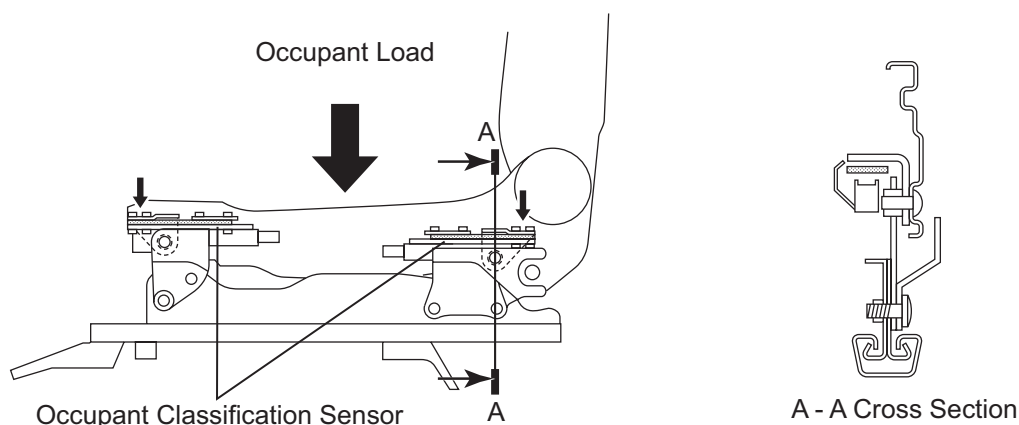
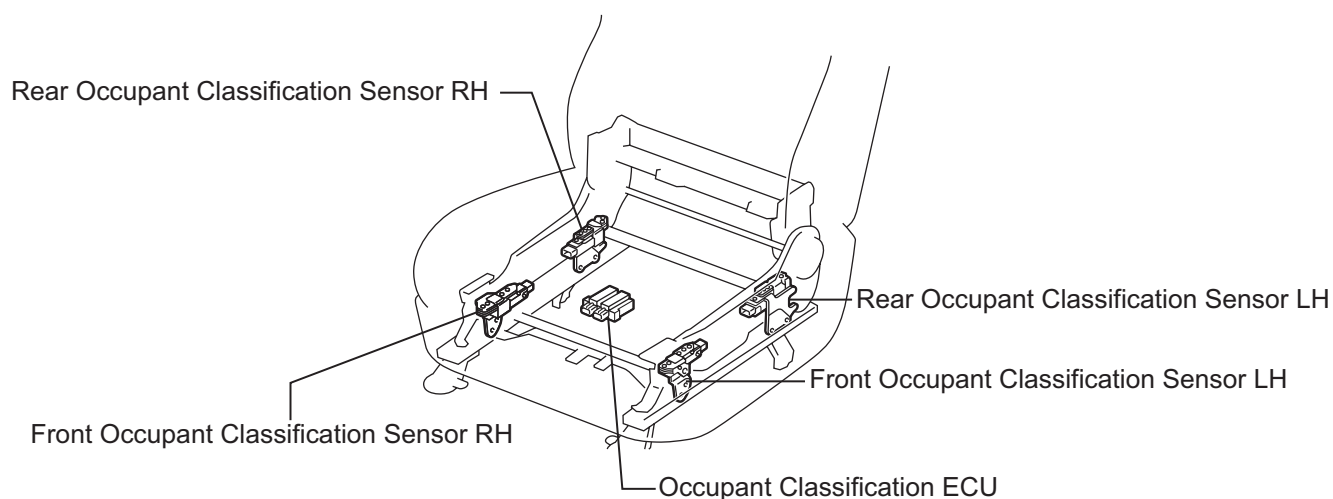
SYSTEM DESCRIPTION

1. DESCRIPTION OF OCCUPANT CLASSIFICATION SYSTEM

(a) GENERAL DESCRIPTION.

- (1) In the occupant classification system, the occupant classification ECU calculates the weight of the occupant based on a signal from the occupant classification sensors. This system recognizes the occupant to be a child if it detects a weight of less than 36 kg (79.37 lb), and disables the front passenger airbag and side airbag (front passenger side).
- (2) This system is mainly comprised of 4 occupant classification sensors that detect the load on the front passenger seat. The occupant classification ECU controls the system, and the passenger airbag ON/OFF indicator indicates the ON/OFF condition of the front passenger airbag and side airbag (front passenger side).

(b) OCCUPANT CLASSIFICATION SENSOR.





- (1) The occupant classification sensors are installed on 4 brackets connecting the seat rail and seat frame. Accordingly, when load is applied to the front passenger seat by an occupant sitting in it, the occupant classification sensors register a distortion.
- (c) DESCRIPTION FOR PASSENGER AIRBAG ON/OFF INDICATOR.
 - (1) The passenger airbag ON/OFF indicator is installed on the center cluster integration switch assembly (w/o LEXUS navigation system) or multi-display assembly (w/ LEXUS navigation system). This indicator informs the driver by ON/OFF indication, whether the occupant classification ECU puts the front passenger airbag assembly into an active state or inactive state.
 - (2) If a malfunction occurs in the occupant classification system, "OFF" indication of the passenger airbag ON/OFF indicator and the SRS warning light turn on.

HOW TO PROCEED WITH TROUBLESHOOTING

The intelligent tester can be used in steps 4, 6, 8 and 9.

1

VEHICLE BROUGHT TO WORKSHOP

NEXT

2

CUSTOMER PROBLEM ANALYSIS

NEXT

3

PASSENGER AIRBAG ON/OFF INDICATOR CHECK

NEXT

4

DTCs CHECK (Present and Past DTCs)

(a) Check for DTCs.

Result

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

B

GO TO PROBLEM SYMPTOMS TABLE

A

5

DTCs CHART

NEXT

6

CIRCUIT INSPECTION

NEXT

7

REPAIR

NEXT

8

CLEAR DTCs (Present and Past DTCs)

(a) Clear for DTCs.

RS

NEXT

9 DTCs CHECK (Present and Past DTCs)

(a) Check for DTCs.

Result

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

B

Go to step 5

A

10 SYMPTOM SIMULATION

(a) Check the passenger airbag ON/OFF indicator condition.

Result

Result	Proceed to
Passenger airbag ON/OFF indicator is operating normally.	A
Passenger airbag ON/OFF indicator ("OFF") and SRS warning light come on.	B

B

Go to step 5

A

11 CONFIRMATION TEST

NEXT

END

RS

INITIALIZATION

1. ZERO POINT CALIBRATION

NOTICE:
Make sure that the front passenger seat is not occupied before performing the operation.

HINT:
Perform the zero point calibration and sensitivity check if any of the following conditions occur.

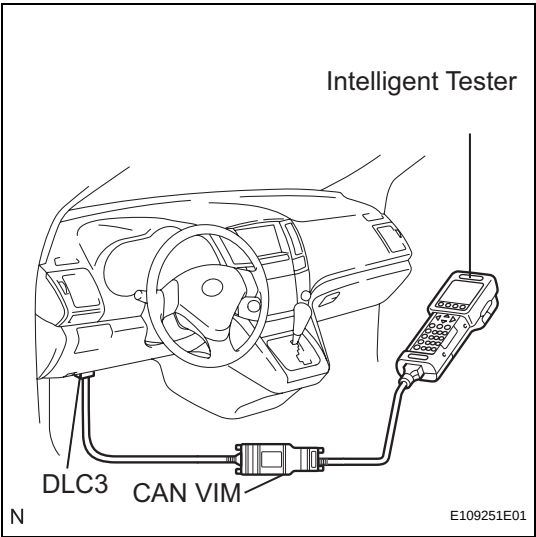
- The occupant classification ECU is replaced.
- Accessories (seatback tray and seat cover, etc.) are installed.
- The front passenger seat is removed from the vehicle.
- The passenger airbag ON/OFF indicator ("OFF") comes on when the front passenger seat is not occupied.
- The vehicle is brought to the workshop for re pair due to an accident or a collision.

(a) Zero point calibration and sensitivity check procedures

HINT:
Make sure that zero point calibration has finished normally, and then perform the sensitivity check.
(1) Adjust the seat position according to the table below.

Adjustment Component	Position
Slide Direction	Rearmost position
Reclining Angle	Upright position
Headrest Height	Lowest position
Lifter Height	Lowest position

- (2) Connect the intelligent tester to the DLC3.
(3) Turn the ignition switch to the ON position.



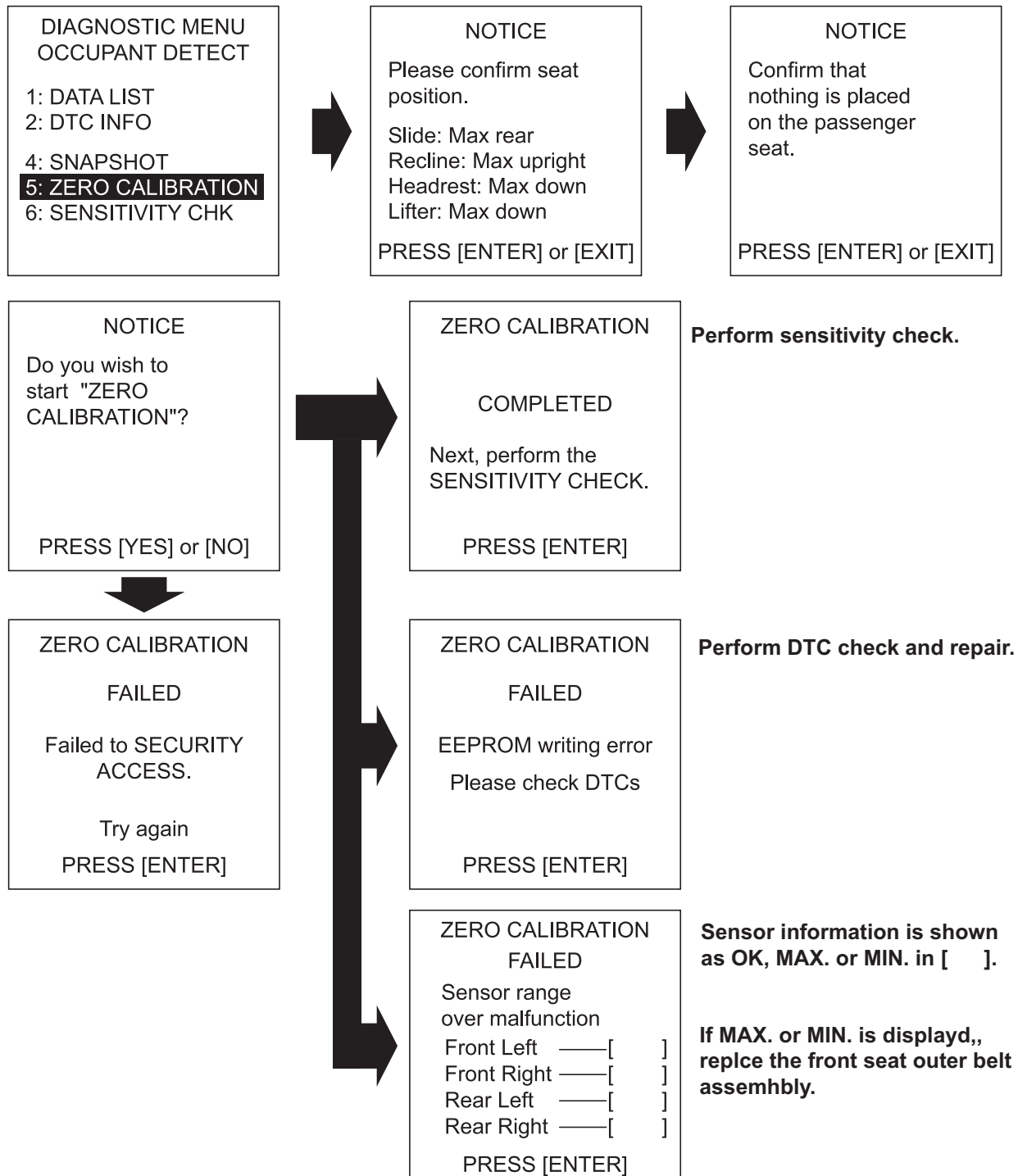
- (4) Perform the zero point calibration by following the prompts on the tester screen.

ZERO POINT CALIBRATION PROCEDURE

"1: DIAGNOSIS" - "1: OBD/MOBD" - "MODEL YEAR" - "MODEL SELECTION = RX400" -

Select the option parts - "9: OCCUPANT DETECT"

Refer to the following screen flow.



RS

C

C113452E07

HINT:

Refer to the intelligent tester operator's manual for further details.

OK:

"COMPLETE" is displayed.

- (5) Perform the sensitivity check by following the prompts on the tester screen.
- (6) Confirm that the beginning sensor reading is within the standard range.

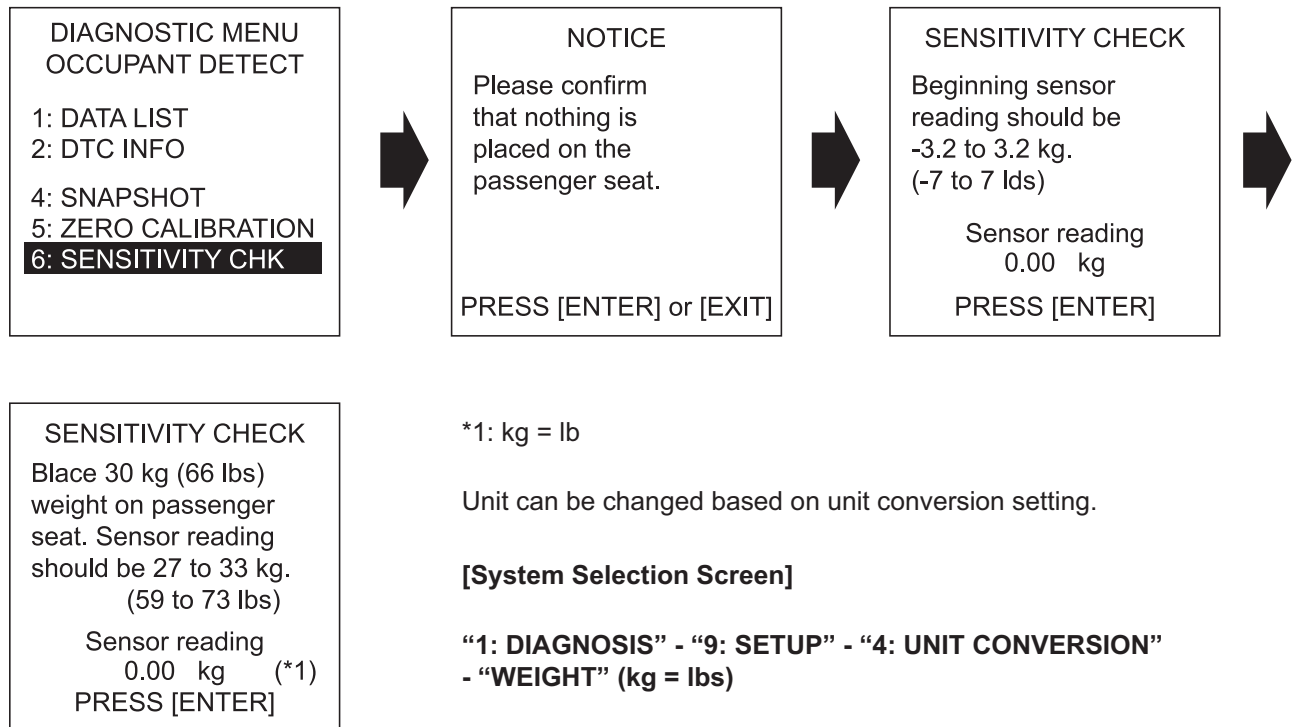
Standard values:**-3.2 to 3.2 kg (-7 to 7 lb)**

- (7) Place a 30 kg (66.14 lb) weight (eg. a 30 kg (66.14 lb) of lead mass) onto the front passenger seat.
- (8) Confirm that the sensitivity is within the standard range.

RS

SENSITIVITY CHECK PROCEDURE

"1: DIAGNOSIS" - "1: OBD/MOBD" - "MODEL YEAR" - "MODEL SELECTION = RX400" -
Select the option parts - "9: OCCUPANT DETECT" - Refer to the following screen flow.



C

C113453E06

Standard values:**27 to 33 kg (59.52 to 72.75 lb)****HINT:**

- When performing the sensitivity check, use a solid metal weight (the check result may not appear properly if a liquid weight is used).

- If the sensitivity deviates from the standard range, retighten the bolts of the front passenger seat taking care not to deform the seat rail. After performing this procedure, if the sensitivity is not within the standard range, replace the front seat assembly RH.
- If zero point calibration has not finished normally, replace the front seat assembly RH.

PROBLEM SYMPTOMS TABLE

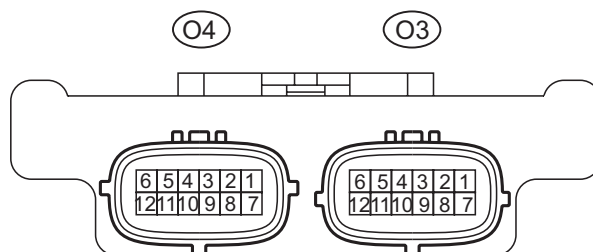
HINT:
Proceed to the troubleshooting for each circuit in the table below.

OCCUPANT CLASSIFICATION SYSTEM

Symptom	Suspected area	See page
The front passenger seat condition differs from the indication by the passenger airbag ON/OFF indicator (DTC is not output).	Trouble in Passenger Airbag ON/OFF Indicator	RS-382

TERMINALS OF ECU

1. OCCUPANT CLASSIFICATION ECU



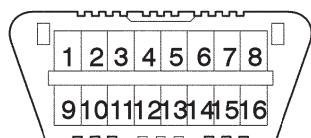
C

C110373E02

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
+B (O3-1) - GND (O3-3)	R - W-B	Power source (ECU-B Fuse)	Always	10 to 14 V
DIA (O3-2) - GND (O3-3)	V - W-B	Diagnosis (DLC3)	IG switch ON	Pulse generation
GND (O3-3) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω
FSR- (O3-4) - GND (O3-3)	B - W-B	Center airbag sensor assembly communication line (-)	Always	Below 1 Ω
BGND (O3-5) - GND (O3-3)	GR - W-B	Passenger side buckle switch ground line	Always	Below 1 Ω
IG (O3-7) - GND (O3-3)	BR - W-B	Power source (IG2 Fuse)	IG switch ON	10 to 14 V
FSR+ (O3-8) - FSR- (O3-4)	W - B	Center airbag sensor assembly communication line	IG switch ON	Pulse generation
BSW (O3-9) - BGND (O3-5)	L - GR	Passenger side buckle switch line	Buckle switch ON Buckle switch OFF	Pulse generation
SGD1 (O4-1) - GND (O3-3)	G - W-B	Occupant classification sensor front LH ground line	Always	Below 1 Ω
SGD2 (O4-2) - GND (O3-3)	O - W-B	Occupant classification sensor front RH ground line	Always	Below 1 Ω
SGD3 (O4-3) - GND (O3-3)	W - W-B	Occupant classification sensor rear LH ground line	Always	Below 1 Ω
SGD4 (O4-4) - GND (O3-3)	BR - W-B	Occupant classification sensor rear RH ground line	Always	Below 1 Ω
SVC3 (O4-5) - SGD3 (O4-3)	GR - W	Occupant classification sensor rear LH power supply line	IG switch ON, a load is applied to occupant classification sensor rear LH	4.5 to 5.1 V
SVC4 (O4-6) - SGD4 (O4-4)	V - BR	Occupant classification sensor rear RH power supply line	IG switch ON, a load is applied to occupant classification sensor rear RH	4.5 to 5.1 V
SIG1 (O4-7) - SGD1 (O4-1)	SB - G	Occupant classification sensor front LH signal line	IG switch ON, a load is applied to occupant classification sensor front LH	0.2 to 4.7 V
SIG2 (O4-8) - SGD2 (O4-2)	L - O	Occupant classification sensor front RH signal line	IG switch ON, a load is applied to occupant classification sensor front RH	0.2 to 4.7 V

RS

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specification
SIG3 (O4-9) - SGD3 (O4-3)	Y - W	Occupant classification sensor rear LH signal line	IG switch ON, a load is applied to occupant classification sensor rear LH	0.2 to 4.7 V
SIG4 (O4-10) - SGD4 (O4-4)	B - BR	Occupant classification sensor rear RH signal line	IG switch ON, a load is applied to occupant classification sensor rear RH	0.2 to 4.7 V
SVC1 (O4-11) - SGD1 (O4-1)	R - G	Occupant classification sensor front LH power supply line	IG switch ON, a load is applied to occupant classification sensor front LH	4.5 to 5.1 V
SVC2 (O4-12) - SGD2 (O4-2)	W - O	Occupant classification sensor front RH power supply line	IG switch ON, a load is applied to occupant classification sensor front RH	4.5 to 5.1 V



DLC3

A004550E20

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 M Ω or higher
CANH (6) - CG (4)	HIGH-level CAN bus line	Ignition switch off	3 M Ω or higher
CANL (14) - Battery positive	LOW-level CAN bus line	Ignition switch off	1 M Ω or higher
CANL (14) - CG (4)	LOW-level CAN bus line	Ignition switch off	3 M Ω or higher

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.

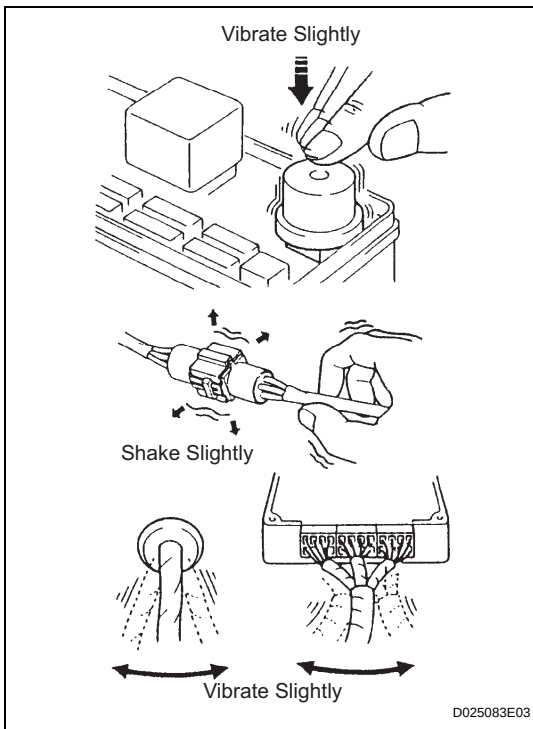
- If communication is normal when the tool is connected to another vehicle, inspect the DLC3 on the original vehicle.
- If communication is still not possible when the tool is connected to another vehicle, the problem is probably in the tool itself. Consult the Service Department listed in the tool's 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 cause with your fingers and check whether the malfunction occurs.

HINT:

Shaking the relays too strongly may result in open relays.

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

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

- (b) Simulation method for DTC B1795: Turn the ignition switch from the LOCK to the ON position, hold for 10 seconds, and then back to the LOCK position again 50 times in a row.

HINT:

DTC B1795 is output if the occupant classification ECU receives the ignition switch LOCK-ON-LOCK signal 50 times in a row when a malfunction occurs in the power circuit for the occupant classification system.

3. FUNCTION OF PASSENGER AIRBAG ON/OFF INDICATOR

- (a) Initial check

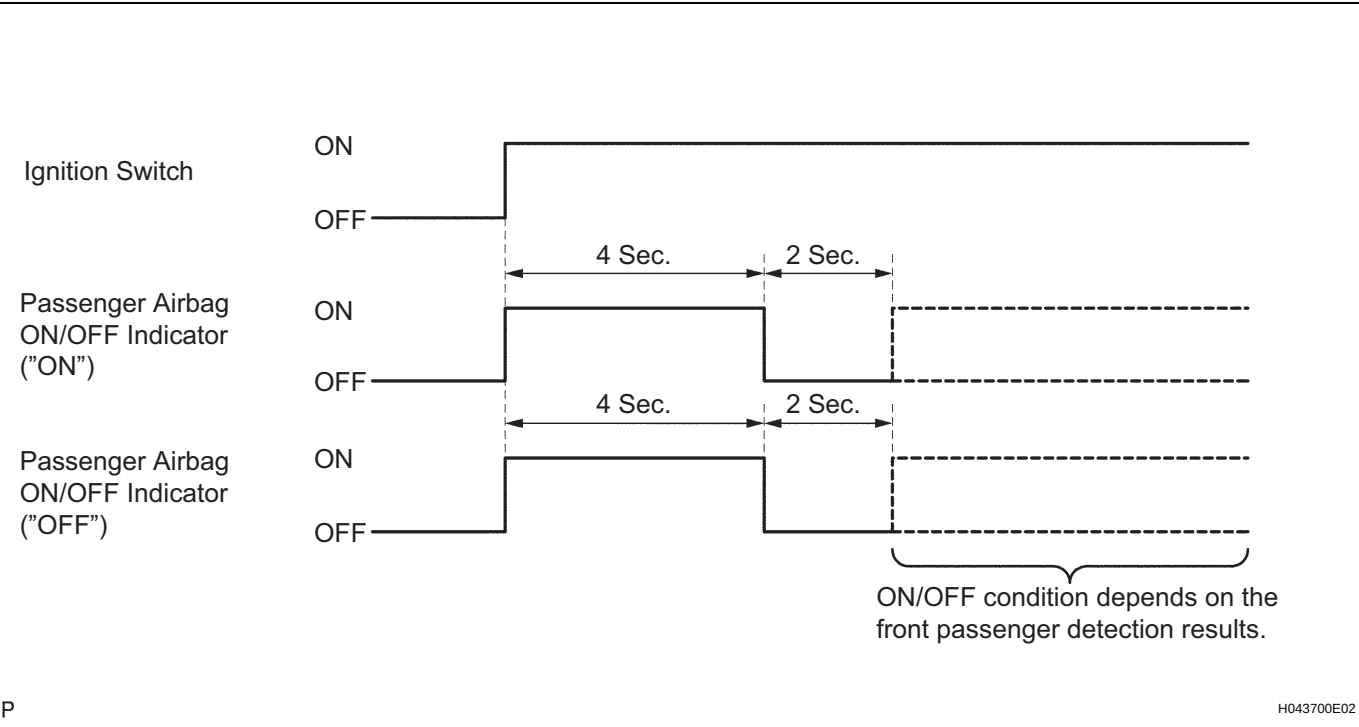
- (1) Turn the ignition switch to the ON position.
 (2) The passenger airbag ON/OFF indicator ("ON" and "OFF") comes on for approximately 4 seconds, then goes off for approximately 2 seconds.

(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.

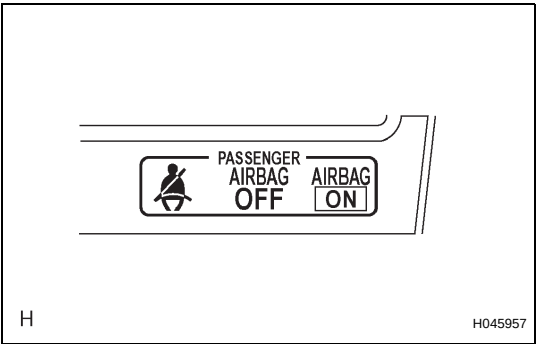
Condition	ON Indicator	OFF Indicator
Vacant	OFF	OFF
Adult is seated.	ON	OFF
Child is seated.	OFF	ON
Child restraint system is set.	OFF	ON
Front passenger occupant classification system failure	OFF	ON

RS

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



- When the occupant classification system has trouble, both the SRS warning light and the passenger airbag ON/OFF indicator ("OFF") come on. In this case, check the DTCs in the "AIRBAG SYSTEM" first.



4. CHECK PASSENGER AIRBAG ON/OFF INDICATOR
- (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.

DTC CHECK / CLEAR

1. DTC CHECK

HINT:

When DTC B1150/23 is detected as a result of troubleshooting for "AIRBAG SYSTEM", perform troubleshooting for the occupant classification system.

(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:

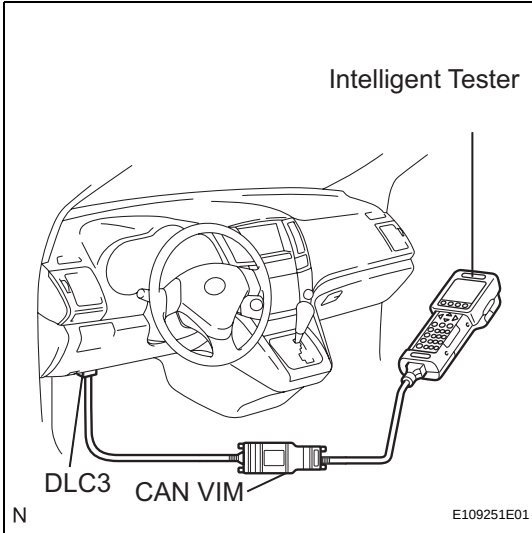
Refer to the intelligent tester operator's manual for further details.

(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.



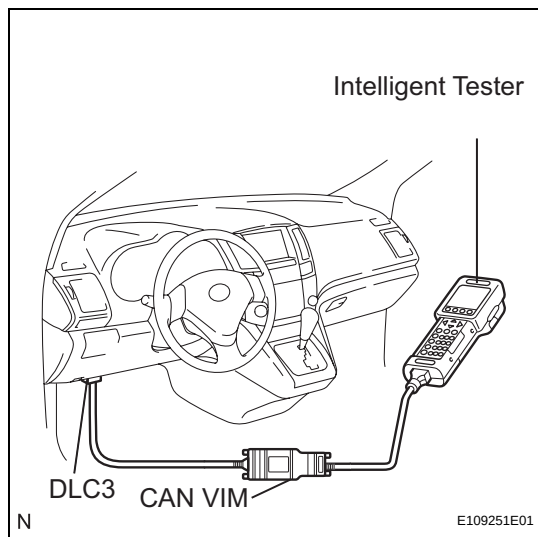
DATA LIST / ACTIVE TEST

HINT:

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

1. DATA LIST FOR OCCUPANT CLASSIFICATION ECU

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch to the ON position.
- (c) Turn the tester ON.
- (d) Enter the following menus: DIAGNOSIS / OBD/ MOBD / OCCUPANT DETECT / DATA LIST.
- (e) Check the values by referring to the table below.



Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
IG SW	Ignition switch condition/ ON: Ignition switch ON OFF: Ignition switch OFF	ON/OFF	-
P BUCKLE SW	Buckle switch (Passenger side)/ UNSET: Unfasten the passenger side seat belt SET: Fasten the passenger side seat belt NG: Passenger side seat belt has trouble	UNSET/SET	-
PASSENGER CLASS	Passenger classification/ AF05: Adult (36 to 54 kg (79.37 to 119.05 lb)) is seated AM50: Adult More than 54 kg (119.05 lb) is seated CHILD: Child (less than 36 kg (79.37 lb)) is seated CRS: Child restraint system (less than 7 kg (15.43 lb)) and passenger side buckle switch is ON, then 7 to 36 kg (15.43 to 79.37 lb) is set OFF: Vacant	AF05/AM50/CHILD/CRS/OFF	-
SENS RANGE INF	Sensor range information/ OK: The value of a sensor is within the range NG: The value of a sensor is over the range	OK	-
FL SENS RANGE	Front left sensor range information/ OK: Sensor range is -17 to 27 kg (-37.48 to 59.52 lb) Min.: Less than -17 kg (-37.48 lb) Max.: More than 27 kg (59.52 lb)	OK	-

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
FR SENS RANGE	Front right sensor range information/ OK: Sensor range is -17 to 27 kg (-37.48 to 59.52 lb) Min.: Less than -17 kg (-37.48 lb) Max.: More than 27 kg (59.52 lb)	OK	-
RL SENS RANGE	Rear left sensor range information/ OK: Sensor range is -17 to 37 kg (-37.48 to 81.57 lb) Min.: Less than -17 kg (-37.48 lb) Max.: More than 37 kg (81.57 lb)	OK	-
RR SENS RANGE	Rear right sensor range information/ OK: Sensor range is -17 to 37 kg (-37.48 to 81.57 lb) Min.: Less than -17 kg (-37.48 lb) Max.: More than 37 kg (81.57 lb)	OK	-
FL SENS VOL	Front left sensor voltage/ Min.: 0 V Max.: 19.8 V	0 to 4.7 V	-
FR SENS VOL	Front right sensor voltage/ Min.: 0 V Max.: 19.8 V	0 to 4.7 V	-
RL SENS VOL	Rear left sensor voltage/ Min.: 0 V Max.: 19.8 V	0 to 4.7 V	-
RR SENS VOL	Rear right sensor voltage/ Min.: 0 V Max.: 19.8 V	0 to 4.7 V	-
FL SENS WEIGHT	Front left sensor weight information/ Min.: -17 kg (-37.48 lb) Max.: 27 kg (59.52 lb)	-17 to 27 kg (-37.48 to 59.52 lb)	-
FR SENS WEIGHT	Front right sensor weight information/ Min.: -17 kg (-37.48 lb) Max.: 27 kg (59.52 lb)	-17 to 27 kg (-37.48 to 59.52 lb)	-
RL SENS WEIGHT	Rear left sensor weight information/ Min.: -17 kg (-37.48 lb) Max.: 37 kg (81.57 lb)	-17 to 37 kg (-37.48 to 81.57 lb)	-
RR SENS WEIGHT	Rear right sensor weight information/ Min.: -17 kg (-37.48 lb) Max.: 37 kg (81.57 lb)	-17 to 37 kg (-37.48 to 81.57 lb)	-
TOTAL WEIGHT	Total weight information/ Min.: -68 kg (-149.91 lb) Max.: 128 kg (282.19 lb)	-68 to 128 kg (-149.91 to 282.19 lb)	-
#CODES	Number of DTC recorded/ Min.: 0, Max.: 255	0	-

RS

DIAGNOSTIC TROUBLE CODE CHART

1. If a trouble code is displayed during the DTC check, check the circuit listed for the code in the table below (proceed to the page listed for that circuit).

Occupant Classification ECU

DTC No.	Detection Item	Trouble Area	See page
B1771	Passenger Side Buckle Switch Circuit Malfunction	1. Front seat inner belt assembly (Buckle switch RH) 2. Occupant classification ECU 3. Front seat wire RH	RS-315
B1780	Front Occupant Classification Sensor LH Circuit Malfunction	1. Front seat assembly RH (Front occupant classification sensor LH) 2. Occupant classification ECU 3. Front seat wire RH	RS-321
B1781	Front Occupant Classification Sensor RH Circuit Malfunction	1. Front seat assembly RH (Front occupant classification sensor RH) 2. Occupant classification ECU 3. Front seat wire RH	RS-328
B1782	Rear Occupant Classification Sensor LH Circuit Malfunction	1. Front seat assembly RH (Rear occupant classification sensor LH) 2. Occupant classification ECU 3. Front seat wire RH	RS-335
B1783	Rear Occupant Classification Sensor RH Circuit Malfunction	1. Front seat assembly RH (Front occupant classification sensor RH) 2. Occupant classification ECU 3. Front seat wire RH	RS-342
B1785	Front Occupant Classification Sensor LH Collision Detection	1. Front seat assembly RH (Front occupant classification sensor LH) 2. Occupant classification ECU	RS-349
B1786	Front Occupant Classification Sensor RH Collision Detection	1. Front seat assembly RH (Front occupant classification sensor RH) 2. Occupant classification ECU	RS-352
B1787	Rear Occupant Classification Sensor LH Collision Detection	1. Front seat assembly RH (Rear occupant classification sensor LH) 2. Occupant classification ECU	RS-355
B1788	Rear Occupant Classification Sensor RH Collision Detection	1. Front seat assembly RH (Rear occupant classification sensor RH) 2. Occupant classification ECU	RS-358
B1790	Center Airbag Sensor Assembly Communication Circuit Malfunction	1. Occupant classification ECU 2. Center airbag sensor assembly 3. Floor wire 4. Front seat wire RH	RS-361
B1793	Occupant Classification Sensor Power Supply Circuit Malfunction	1. Front seat assembly RH (Occupant classification sensors) 2. Occupant classification ECU 3. Front seat wire RH	RS-370
B1795	Occupant Classification ECU Malfunction	1. Battery 2. ECU-B Fuse 3. Floor wire 4. Front seat wire RH 5. Front seat inner belt assembly RH (Buckle switch RH) 6. Occupant classification ECU	RS-377

DTC No.	Detection Item	Trouble Area	See page
B1796	Sleep Operation Failure of Occupant Classification ECU	1. Occupant classification ECU	RS-380

DTC	B1780	Front Occupant Classification Sensor LH Circuit Malfunction

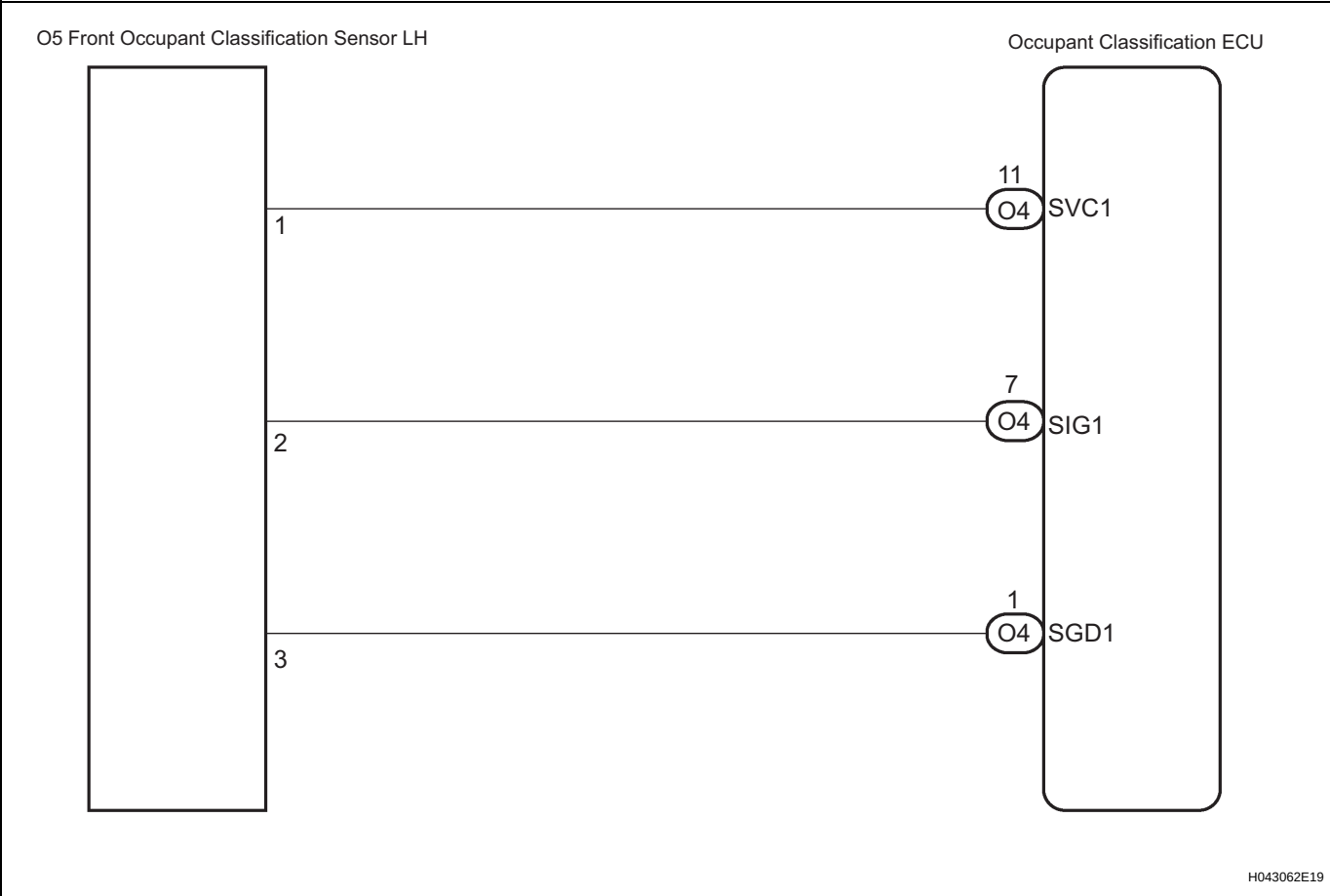
DESCRIPTION

The front occupant classification sensor LH circuit consists of the occupant classification ECU and the front occupant classification sensor LH.

DTC B1780 is recorded when a malfunction is detected in the front occupant classification sensor LH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1780	- 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 front occupant classification sensor LH circuit for 2 seconds. - Front occupant classification sensor LH malfunction - Occupant classification ECU malfunction	- Front seat assembly RH (Front occupant classification sensor LH) - Occupant classification ECU - Front seat wire RH

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 B1780 is not output.

HINT:

Codes other than DTC B1780 may be output at this time, but they are not related to this check.

OK

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 occupant classification sensor LH.

OK:

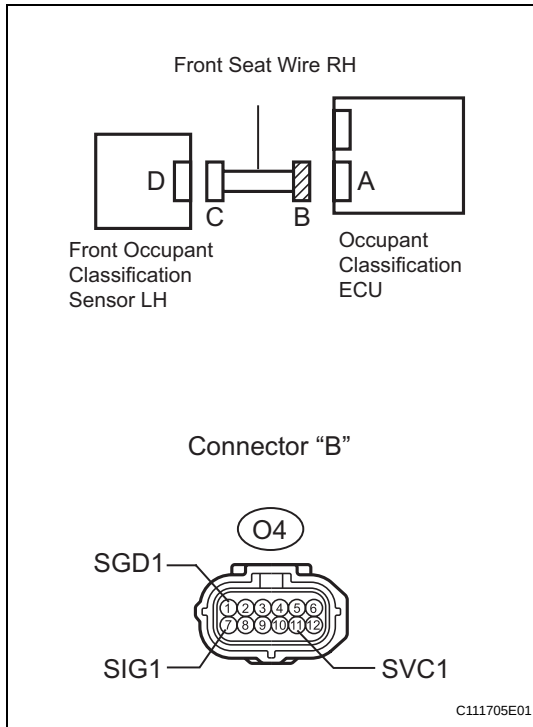
The connectors are connected.

NG

CONNECT CONNECTOR, THEN GO TO STEP 1

OK

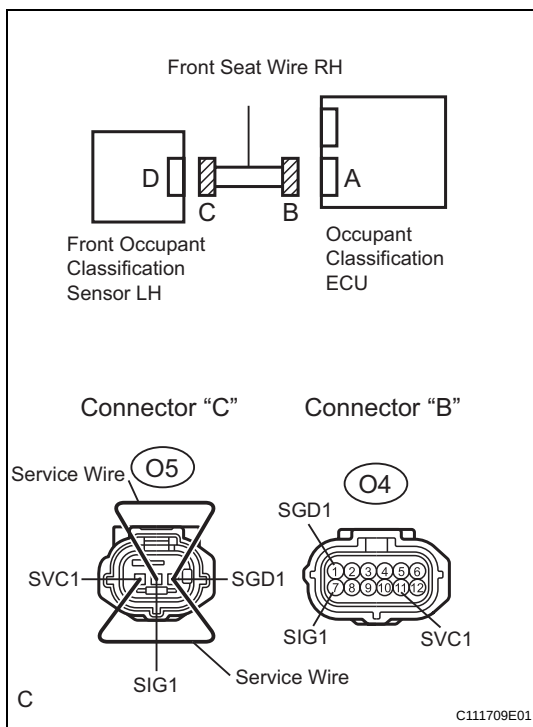
RS

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

- Disconnect the connectors from the occupant classification ECU and the front occupant classification sensor LH.
- Connect the negative (-) terminal cable to the battery.
- Turn the ignition switch to the ON position.
- Measure the voltage according to the value(s) in the table below.

Voltage

Tester connection	Condition	Specified condition
O4-1 (SGD1) - Body ground	Ignition switch ON	Below 1 V
O4-7 (SIG1) - Body ground	Ignition switch ON	Below 1 V
O4-11 (SVC1) - Body ground	Ignition switch ON	Below 1 V

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK****4 CHECK FRONT SEAT WIRE RH (OPEN)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery.
- Using a service wire, connect O5-1 (SVC1) and O5-3 (SGD1), and connect O5-2 (SIG1) and O5-3 (SGD1) of connector "C".

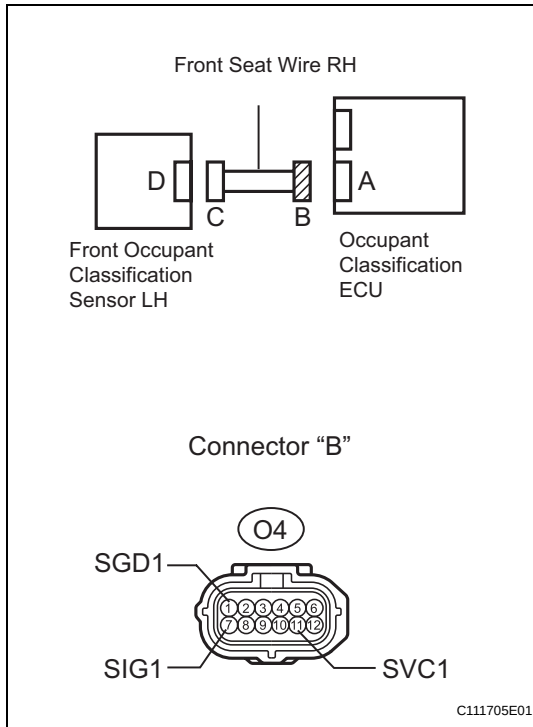
NOTICE:**Do not forcibly insert a service wire into the terminals of the connector when connecting.**

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

Resistance

Tester connection	Condition	Specified condition
O4-7 (SIG1) - O4-1 (SGD1)	Always	Below 1 Ω
O4-11 (SVC1) - O4-1 (SGD1)	Always	Below 1 Ω

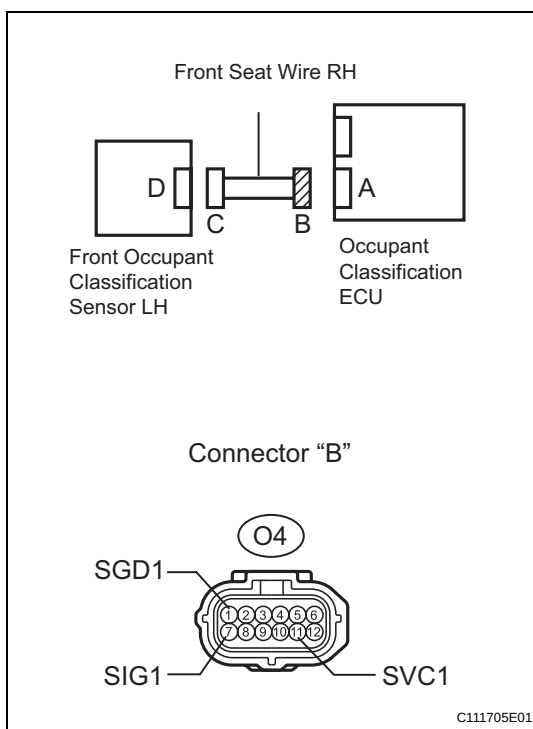
NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK**

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
O4-7 (SIG1) - O4-1 (SGD1)	Always	1 MΩ or higher
O4-11 (SVC1) - O4-1 (SGD1)	Always	1 MΩ or higher
O4-7 (SIG1) - O4-11 (SVC1)	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
O4-1 (SGD1) - Body ground	Always	1 MΩ or higher
O4-7 (SIG1) - Body ground	Always	1 MΩ or higher
O4-11 (SVC1) - Body ground	Always	1 MΩ or higher

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

7

CHECK DTC

- (a) Connect the connectors to the occupant classification ECU and the front occupant classification sensor LH.
- (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 B1780 is not output.

HINT:

Codes other than DTC B1780 may be output at this time, but they are not related to this check.

OK

USE SIMULATION METHOD TO CHECK

NG

8

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](#)).

HINT:

Perform the inspection using parts from a normal vehicle if possible.

NEXT

9

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.

NG

Go to step 12

OK

RS

10 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)

NG

Go to step 12

OK

11 CHECK DTC

- (a) Connect the negative (-) terminal cable to the battery.
(b) Turn the ignition switch to the ON position.
(c) 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.

- (d) Turn the ignition switch to the LOCK position.
(e) Turn the ignition switch to the ON position.
(f) Check the DTCs (See page [RS-310](#)).

OK:

DTC B1780 is not output.

HINT:

Codes other than DTC B1780 may be output at this time, but they are not related to this check.

OK

END

NG

12 REPLACE FRONT SEAT 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 assembly RH (See page [SE-38](#)).

NEXT

13 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.

RS

NEXT

14

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

RS

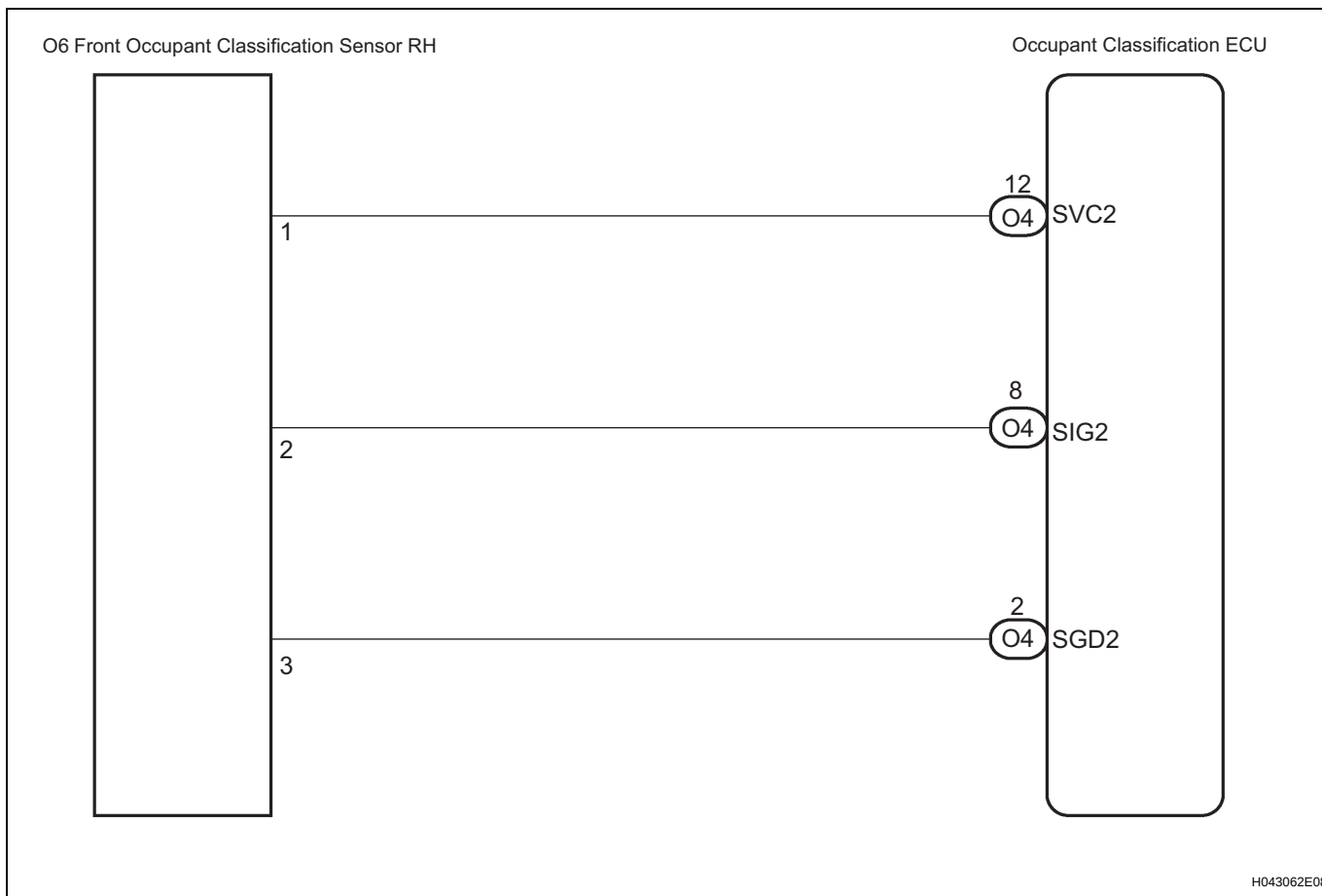
END

DTC**B1781****Front Occupant Classification Sensor RH Circuit Malfunction****DESCRIPTION**

The front occupant classification sensor RH circuit consists of the occupant classification ECU and the front occupant classification sensor RH.

DTC B1781 is recorded when a malfunction is detected in the front occupant classification sensor RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1781	- 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 front occupant classification sensor RH circuit for 2 seconds. - Front occupant classification sensor RH malfunction - Occupant classification ECU malfunction	- Front seat assembly RH (Front occupant classification sensor 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](#)).

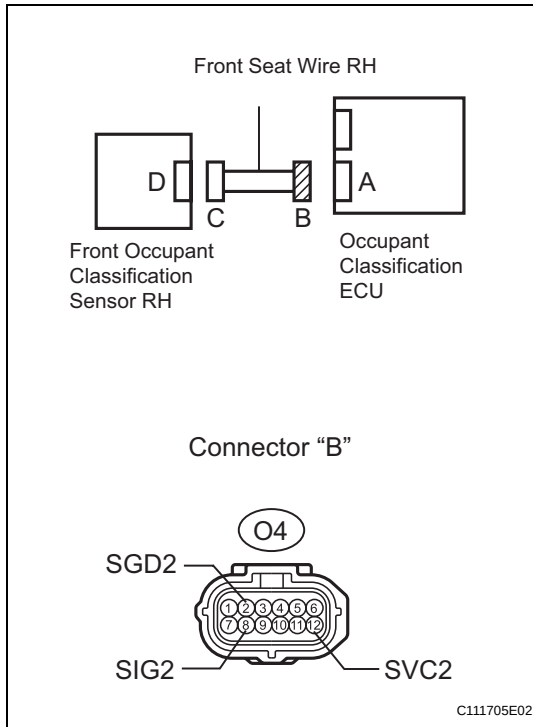
OK:**DTC B1781 is not output.****HINT:**

Codes other than DTC B1781 may be output at this time, but they are not related to this check.

OK**USE SIMULATION METHOD TO CHECK****NG****2 CHECK CONNECTION OF 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 occupant classification sensor RH.

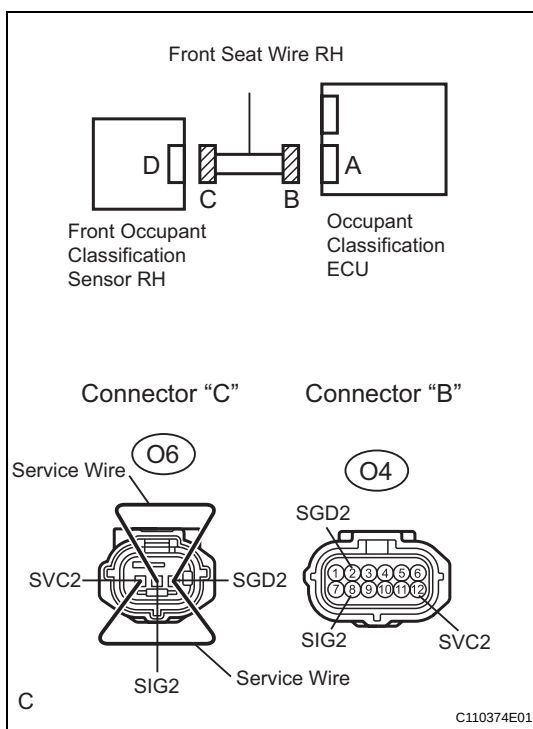
OK:**The connectors are connected.****NG****CONNECT CONNECTORS, THEN GO TO STEP 1****OK****RS**

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

- Disconnect the connectors from the occupant classification ECU and the front occupant classification sensor RH.
- Connect the negative (-) terminal cable to the battery.
- Turn the ignition switch to the ON position.
- Measure the voltage according to the value(s) in the table below.

Voltage

Tester connection	Condition	Specified condition
O4-2 (SGD2) - Body ground	Ignition switch ON	Below 1 V
O4-8 (SIG2) - Body ground	Ignition switch ON	Below 1 V
O4-12 (SVC2) - Body ground	Ignition switch ON	Below 1 V

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK****4 CHECK FRONT SEAT WIRE RH (OPEN)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery.
- Using a service wire, connect O6-1 (SVC2) and O6-3 (SGD2), and connect O6-2 (SIG2) and O6-3 (SGD2) of connector "C".

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

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

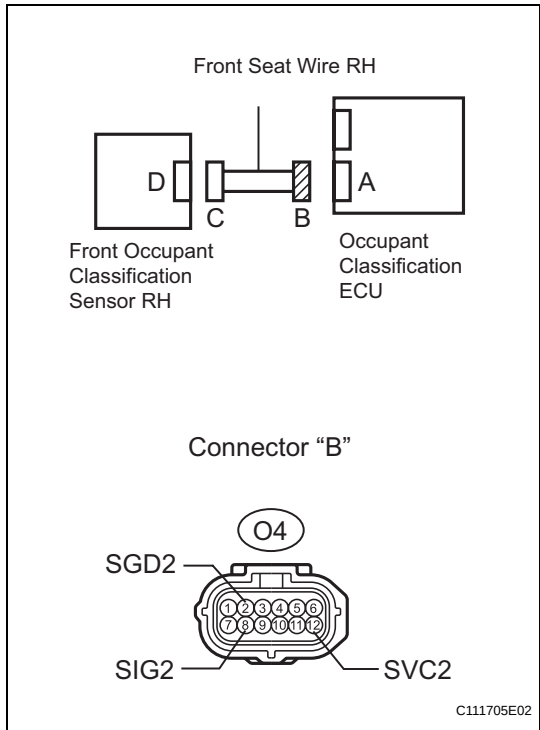
Resistance

Tester connection	Condition	Specified condition
O4-8 (SIG2) - O4-2 (SGD2)	Always	Below 1 Ω
O4-12 (SVC2) - O4-2 (SGD2)	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
O4-8 (SIG2) - O4-2 (SGD2)	Always	1 MΩ or higher
O4-12 (SVC2) - O4-2 (SGD2)	Always	1 MΩ or higher
O4-8 (SIG2) - O4-12 (SVC2)	Always	1 MΩ or higher

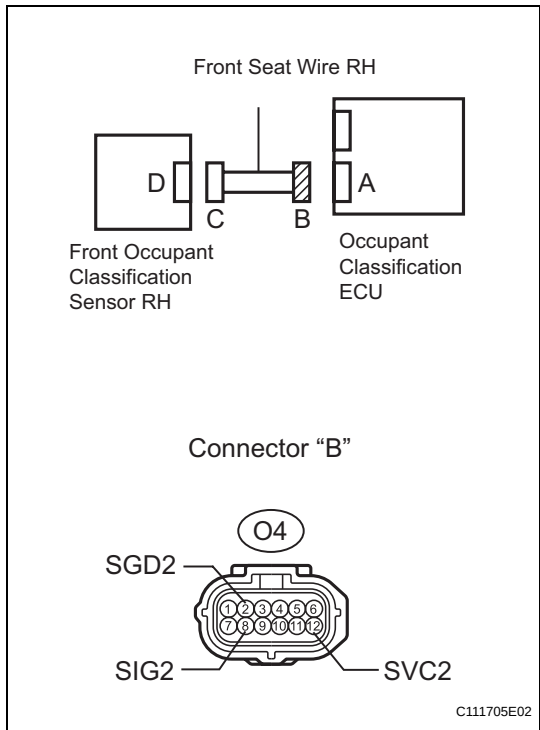
NG

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
O4-2 (SGD2) - Body ground	Always	1 MΩ or higher
O4-8 (SIG2) - Body ground	Always	1 MΩ or higher
O4-12 (SVC2) - Body ground	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FRONT SEAT WIRE RH

OK

7**CHECK DTC**

- (a) Connect the connectors to the occupant classification ECU and the front occupant classification sensor 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 B1781 is not output.

HINT:

Codes other than DTC B1781 may be output at this time, but they are not related to this check.

OK**USE SIMULATION METHOD TO CHECK****NG****8****REPLACE OCCUPANT CLASSIFICATION ECU**

- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery.
- (c) Replace the occupant classification ECU (See page [RS-457](#)).

HINT:

Perform the inspection using parts from a normal vehicle if possible.

NEXT**9****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.

NG**Go to step 12****OK****RS**

10 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)

NG

Go to step 12

OK

RS

11 CHECK DTC

- (a) Connect the negative (-) terminal cable to the battery.
(b) Turn the ignition switch to the ON position.
(c) 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.

- (d) Turn the ignition switch to the LOCK position.
(e) Turn the ignition switch to the ON position.
(f) Check the DTCs (See page [RS-310](#)).

OK:

DTC B1781 is not output.

HINT:

Codes other than DTC B1781 may be output at this time, but they are not related to this check.

OK

END

NG

12 REPLACE FRONT SEAT ASSEMBLY RH

- (a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery.
(c) Replace the front seat assembly RH (See page [SE-38](#)).

NEXT

13 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

14 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

RS

DTC	B1782	Rear Occupant Classification Sensor LH Circuit Malfunction

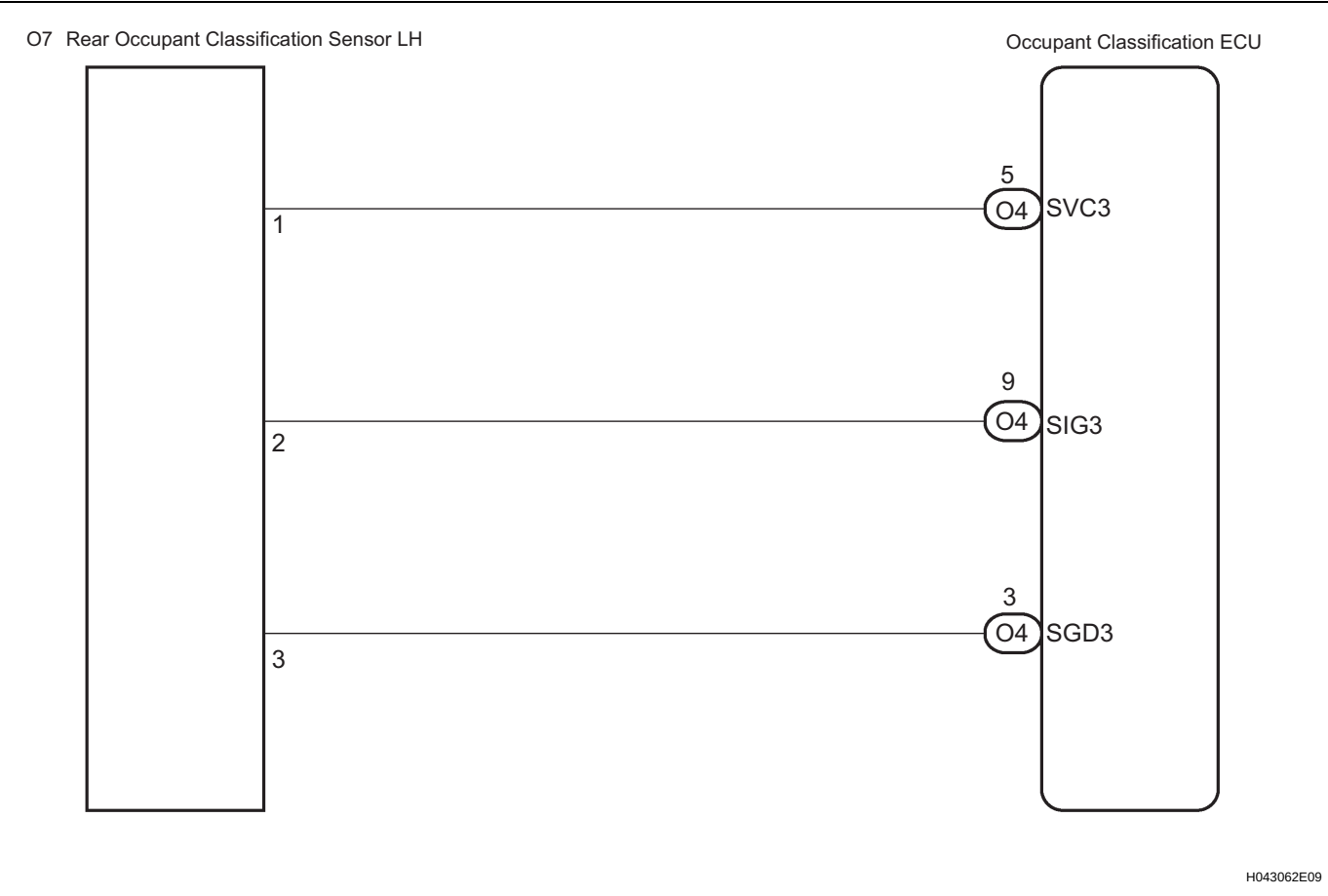
DESCRIPTION

The rear occupant classification sensor LH circuit consists of the occupant classification ECU and the rear occupant classification sensor LH.

DTC B1782 is recorded when a malfunction is detected in the rear occupant classification sensor LH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1782	- 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 rear occupant classification sensor LH circuit for 2 seconds. - Rear occupant classification sensor LH malfunction - Occupant classification ECU malfunction	- Front seat assembly RH (Rear occupant classification sensor LH) - Occupant classification ECU - Front seat wire RH

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 B1782 is not output.

HINT:

Codes other than DTC B1782 may be output at this time, but they are not related to this check.

OK

USE SIMULATION METHOD TO CHECK

NG

2 CHECK CONNECTION OF 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 rear occupant classification sensor LH.

OK:

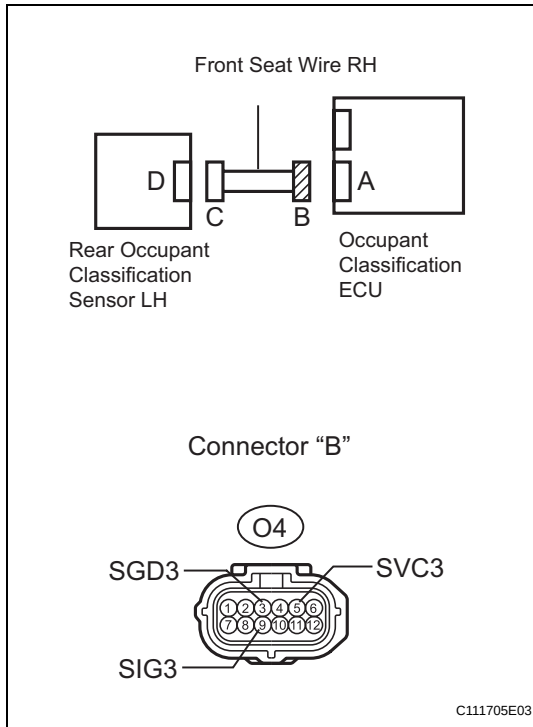
The connectors are connected.

NG

CONNECT CONNECTORS, THEN GO TO STEP 1

OK

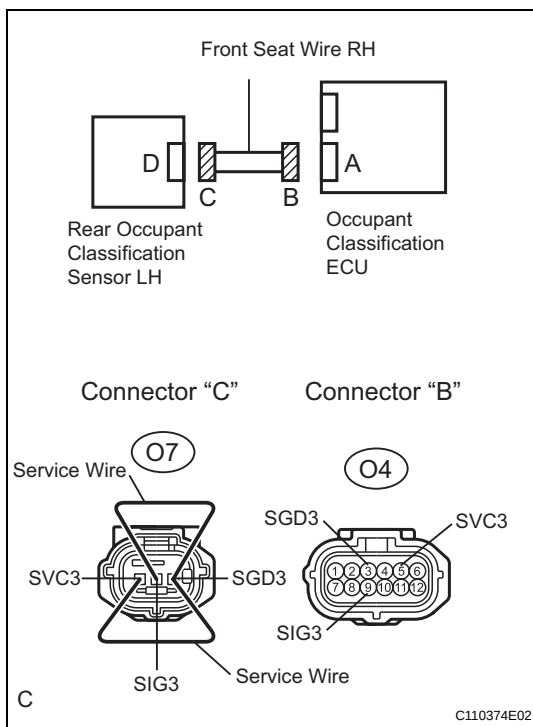
RS

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

- Disconnect the connectors from the occupant classification ECU and the rear occupant classification sensor LH.
- Connect the negative (-) terminal cable to the battery.
- Turn the ignition switch to the ON position.
- Measure the voltage according to the value(s) in the table below.

Voltage

Tester connection	Condition	Specified condition
O4-3 (SGD3) - Body ground	Ignition switch ON	Below 1 V
O4-5 (SVC3) - Body ground	Ignition switch ON	Below 1 V
O4-9 (SIG3) - Body ground	Ignition switch ON	Below 1 V

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK****4 CHECK FRONT SEAT WIRE RH (OPEN)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery.
- Using a service wire, connect O7-1 (SVC3) and O7-3 (SGD3), and connect O7-2 (SIG3) and O7-3 (SGD3) of connector "C".

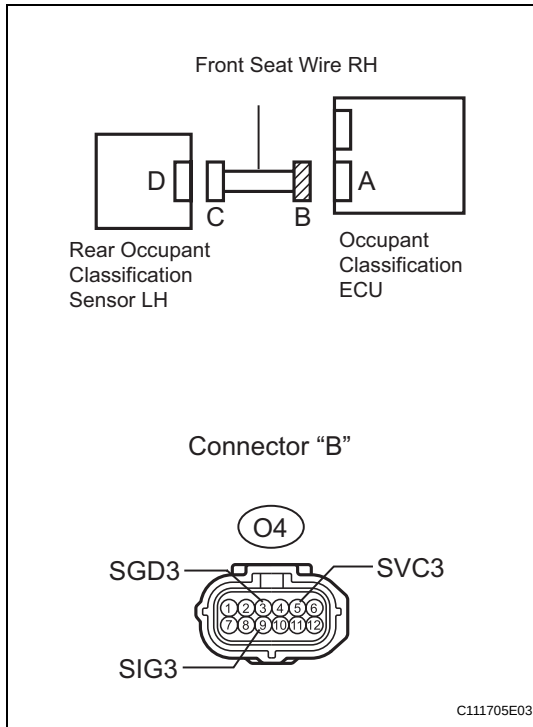
NOTICE:**Do not forcibly insert a service wire into the terminals of the connector when connecting.**

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

Resistance

Tester connection	Condition	Specified condition
O4-5 (SVC3) - O4-3 (SGD3)	Always	Below 1 Ω
O4-9 (SIG3) - O4-3 (SGD3)	Always	Below 1 Ω

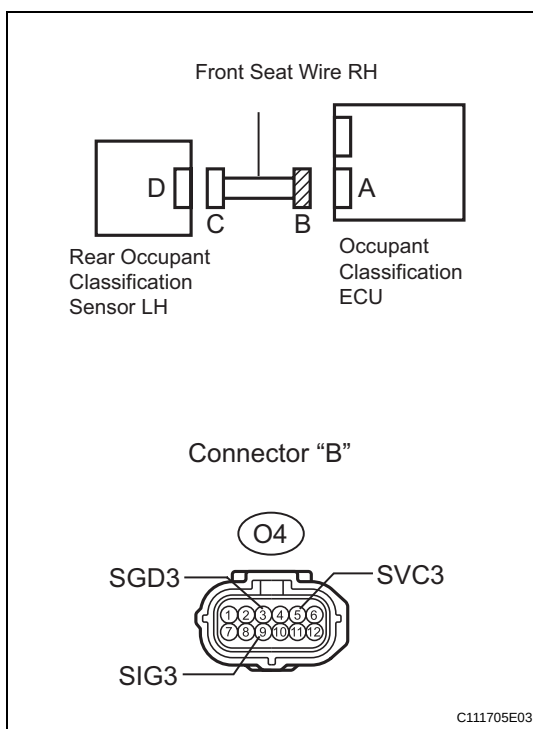
NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK**

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
O4-5 (SVC3) - O4-3 (SGD3)	Always	1 MΩ or higher
O4-9 (SIG3) - O4-3 (SGD3)	Always	1 MΩ or higher
O4-5 (SVC3) - O4-9 (SIG3)	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 value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
O4-3 (SGD3) - Body ground	Always	1 MΩ or higher
O4-5 (SVC3) - Body ground	Always	1 MΩ or higher
O4-9 (SIG3) - Body ground	Always	1 MΩ or higher

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

7 CHECK DTC

- (a) Connect the connectors to the occupant classification ECU and the rear occupant classification sensor LH.
- (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 B1782 is not output.

HINT:

Codes other than DTC B1782 may be output at this time, but they are not related to this check.

OK

USE SIMULATION METHOD TO CHECK

NG

8 REPLACE OCCUPANT CLASSIFICATION ECU

- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery.
- (c) Replace the occupant classification ECU (See page [RS-457](#)).

HINT:

Perform the inspection using parts from a normal vehicle if possible.

NEXT

9 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.

NG

Go to step 12

OK

RS

10 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)

NG

Go to step 12

OK

11 CHECK DTC**RS**

- (a) Connect the negative (-) terminal cable to the battery.
(b) Turn the ignition switch to the ON position.
(c) 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.

- (d) Turn the ignition switch to the LOCK position.
(e) Turn the ignition switch to the ON position.
(f) Check the DTCs (See page [RS-310](#)).

OK:

DTC B1782 is not output.

HINT:

Codes other than DTC B1782 may be output at this time, but they are not related to this check.

OK

END

NG

12 REPLACE FRONT SEAT ASSEMBLY RH

- (a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery.
(c) Replace the front seat assembly RH (See page [SE-38](#)).

NEXT

13 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

14

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

RS

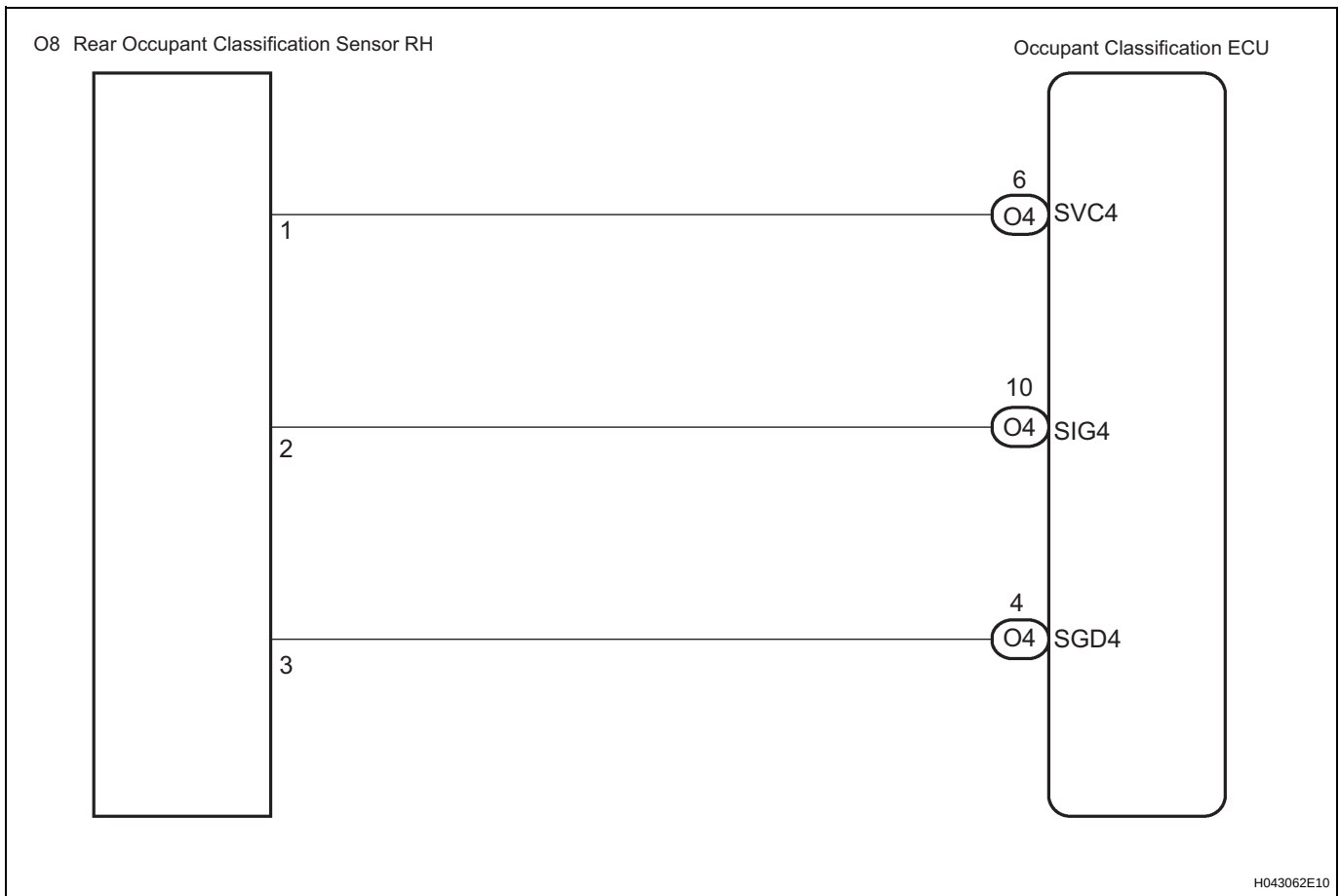
END

DTC**B1783****Rear Occupant Classification Sensor RH Circuit Malfunction****DESCRIPTION**

The rear occupant classification sensor RH circuit consists of the occupant classification ECU and the rear occupant classification sensor RH.

DTC B1783 is recorded when a malfunction is detected in the rear occupant classification sensor RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1783	- 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 rear occupant classification sensor RH circuit for 2 seconds. - Rear occupant classification sensor RH malfunction - Occupant classification ECU malfunction	- Front seat assembly RH (Rear occupant classification sensor 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 B1783 is not output.**

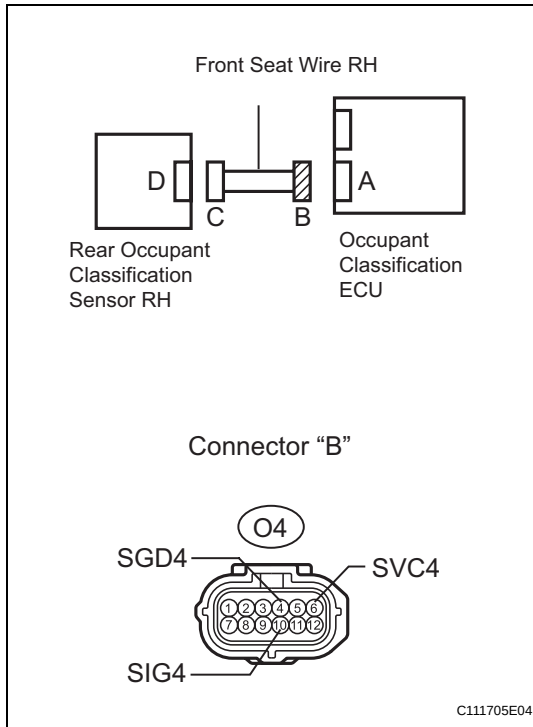
HINT:

Codes other than DTC B1783 may be output at this time, but they are not related to this check.

OK**USE SIMULATION METHOD TO CHECK****NG****2** CHECK CONNECTION OF 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 rear occupant classification sensor RH.

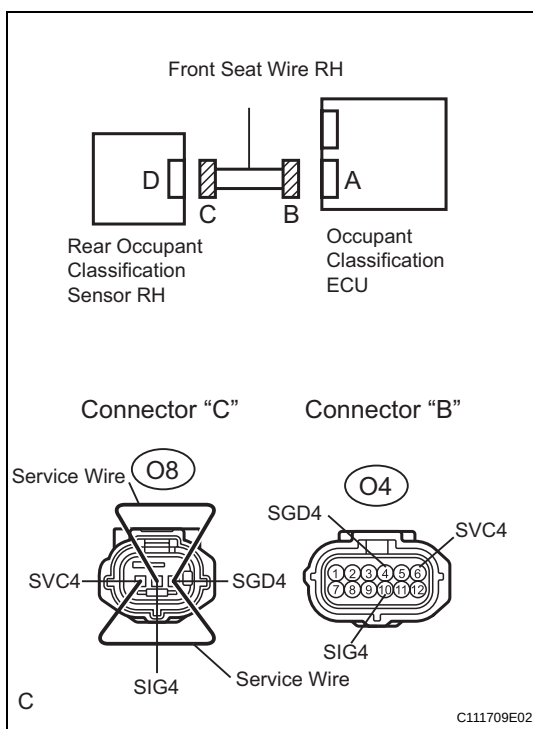
OK:**The connectors are connected.****NG****CONNECT CONNECTORS, THEN GO TO STEP 1****OK****RS**

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

- Disconnect the connectors from the occupant classification ECU and the rear occupant classification sensor RH.
- Connect the negative (-) terminal cable to the battery.
- Turn the ignition switch to the ON position.
- Measure the voltage according to the value(s) in the table below.

Voltage

Tester connection	Condition	Specified condition
O4-4 (SGD4) - Body ground	Ignition switch ON	Below 1 V
O4-6 (SVC4) - Body ground	Ignition switch ON	Below 1 V
O4-10 (SIG4) - Body ground	Ignition switch ON	Below 1 V

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK****4 CHECK FRONT SEAT WIRE RH (OPEN)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery.
- Using a service wire, connect O8-1 (SVC4) and O8-3 (SGD4), and connect O8-2 (SIG4) and O8-3 (SGD4) of connector "C".

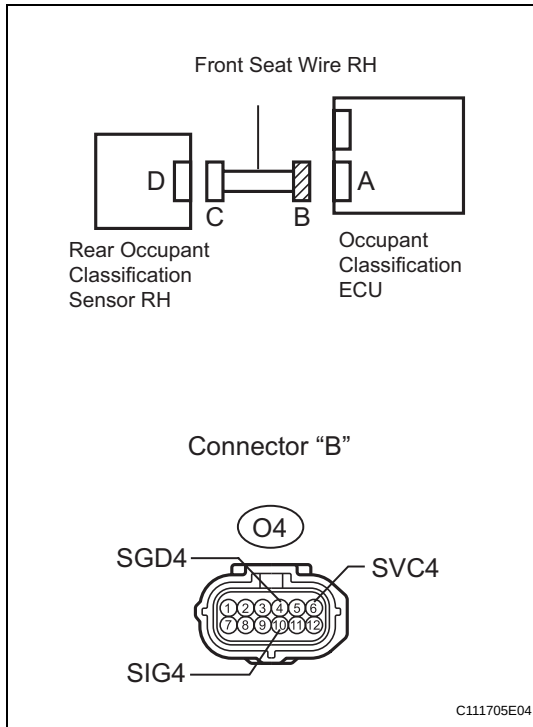
NOTICE:**Do not forcibly insert a service wire into the terminals of the connector when connecting.**

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

Resistance

Tester connection	Condition	Specified condition
O4-6 (SVC4) - O4-4 (SGD4)	Always	Below 1 Ω
O4-10 (SIG4) - O4-4 (SGD4)	Always	Below 1 Ω

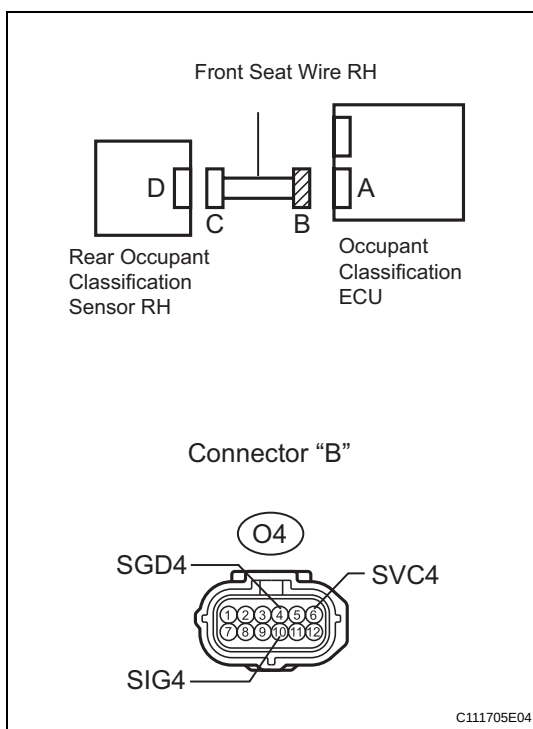
NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK**

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
O4-6 (SVC4) - O4-4 (SGD4)	Always	1 M Ω or higher
O4-10 (SIG4) - O4-4 (SGD4)	Always	1 M Ω or higher
O4-6 (SVC4) - O4-10 (SIG4)	Always	1 M Ω 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
O4-4 (SGD4) - Body ground	Always	1 M Ω or higher
O4-6 (SVC4) - Body ground	Always	1 M Ω or higher
O4-10 (SIG4) - Body ground	Always	1 M Ω or higher

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

7**CHECK DTC**

- (a) Connect the connectors to the occupant classification ECU and the rear occupant classification sensor 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 B1783 is not output.

HINT:

Codes other than DTC B1783 may be output at this time, but they are not related to this check.

OK**USE SIMULATION METHOD TO CHECK****NG****8****REPLACE OCCUPANT CLASSIFICATION ECU**

- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery.
- (c) Replace the occupant classification ECU (See page [RS-457](#)).

HINT:

Perform the inspection using parts from a normal vehicle if possible.

NEXT**9****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.

NG**Go to step 12****OK****RS**

10 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)

NG

Go to step 12

OK

RS

11 CHECK DTC

- (a) Connect the negative (-) terminal cable to the battery.
(b) Turn the ignition switch to the ON position.
(c) 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.

- (d) Turn the ignition switch to the LOCK position.
(e) Turn the ignition switch to the ON position.
(f) Check the DTCs (See page [RS-310](#)).

OK:

DTC B1783 is not output.

HINT:

Codes other than DTC B1783 may be output at this time, but they are not related to this check.

OK

END

NG

12 REPLACE FRONT SEAT ASSEMBLY RH

- (a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery.
(c) Replace the front seat assembly RH (See page [SE-38](#)).

NEXT

13 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

14 **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

RS

DTC**B1785****Front Occupant Classification Sensor LH Collision Detection****DESCRIPTION**

DTC B1785 is output when the occupant classification ECU receives a collision detection signal sent by the front occupant classification sensor LH if an accident occurs.

DTC B1785 is also output when the front seat assembly RH is subjected to a strong impact, even if an actual accident does not occur.

However, when the occupant classification ECU outputs a collision detection signal, even if the vehicle is not in a collision, DTC B1785 can be cleared by "Zero point calibration" and "Sensitivity check".

Therefore, if DTC B1785 is output, first perform "Zero point calibration" and "Sensitivity check".

RS

DTC No.	DTC Detecting Condition	Trouble Area
B1785	- Front seat assembly RH malfunction - Occupant classification ECU malfunction - Front occupant classification sensor LH sensed large load	- Occupant classification ECU - Front seat assembly RH (Front occupant classification sensor LH)

WIRING DIAGRAM

See page [RS-321](#).

1**PERFORM ZERO POINT CALIBRATION**

- Connect the intelligent tester to the DLC3.
- Turn the ignition switch to the ON position.
- Using the intelligent tester, perform "Zero point calibration" (See page [RS-303](#)).

OK:

The "COMPLETED" is displayed.

NG**Go to step 4****OK****2****PERFORM SENSITIVITY CHECK**

- Using the intelligent tester, perform "Sensitivity check" (See page [RS-303](#)).

Standard values:

27 to 33 kg (59.52 to 72.75 lb)

NG**Go to step 4****OK****3****CHECK DTC**

- Turn the ignition switch to the ON position.
- 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 B1785 is not output.

HINT:

Codes other than DTC B1785 may be output at this time, but they are not related to this check.

OK

END

NG

4

REPLACE FRONT SEAT ASSEMBLY RH

RS

- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery.
- (c) Replace the front seat assembly RH (See page [SE-38](#)).

HINT:

Perform the inspection using parts from a normal vehicle if possible.

NEXT

5

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.

NG

Go to step 8

OK

6

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)

NG

Go to step 8

OK

7

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 B1785 is not output.

HINT:

Codes other than DTC B1785 may be output at this time, but they are not related to this check.

OK

END

RS

NG

8

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

9

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

10

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**B1786****Front Occupant Classification Sensor RH Collision Detection****DESCRIPTION**

DTC B1786 is output when the occupant classification ECU receives a collision detection signal sent by the front occupant classification sensor RH if an accident occurs.

DTC B1786 is also output when the front seat assembly RH is subjected to a strong impact, even if an actual accident does not occur.

However, when the occupant classification ECU outputs a collision detection signal, even if the vehicle is not in a collision, DTC B1786 can be cleared by "Zero point calibration" and "Sensitivity check".

Therefore, if DTC B1786 is output, first perform "Zero point calibration" and "Sensitivity check".

DTC No.	DTC Detection Condition	Trouble Area
B1786	- Front seat assembly RH malfunction - Occupant classification ECU malfunction - Front occupant classification sensor RH sensed large load	- Occupant classification ECU - Front seat assembly RH (Front occupant classification sensor RH)

RS**WIRING DIAGRAM**

See page [RS-328](#).

1**PERFORM ZERO POINT CALIBRATION**

- Connect the intelligent tester to the DLC3.
- Turn the ignition switch to the ON position.
- Using the intelligent tester, perform "Zero point calibration" (See page [RS-303](#)).

OK:

The "COMPLETED" is displayed.

NG**Go to step 4****OK****2****PERFORM SENSITIVITY CHECK**

- Using the intelligent tester, perform "Sensitivity check" (See page [RS-303](#)).

Standard values:

27 to 33 kg (59.52 to 72.75 lb)

NG**Go to step 4****OK****3****CHECK DTC**

- Turn the ignition switch to the ON position.
 - 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 B1786 is not output.

HINT:

Codes other than DTC B1786 may be output at this time, but they are not related to this check.

OK

END

NG

RS

4

REPLACE FRONT SEAT 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 assembly RH (See page [SE-38](#)).
- HINT:**
Perform the inspection using parts from a normal vehicle if possible.

NEXT

5

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.

NG

Go to step 8

OK

6

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)

NG

Go to step 8

OK

7

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 B1786 is not output.

HINT:

Codes other than DTC B1786 may be output at this time, but they are not related to this check.

OK

END

NG

RS

8

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

9

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

10

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**B1787****Rear Occupant Classification Sensor LH Collision Detection****DESCRIPTION**

DTC B1787 is output when the occupant classification ECU receives a collision detection signal sent by the rear occupant classification sensor LH if an accident occurs.

DTC B1787 is also output when the front seat assembly RH is subjected to a strong impact, even if an actual accident does not occur.

However, when the occupant classification ECU outputs a collision detection signal, even if the vehicle is not in a collision, DTC B1787 can be cleared by "Zero point calibration" and "Sensitivity check".

Therefore, if DTC B1787 is output, first perform "Zero point calibration" and "Sensitivity check".

RS

DTC No.	DTC Detecting Condition	Trouble Area
B1787	- Front seat assembly RH malfunction - Occupant classification ECU malfunction - Rear occupant classification sensor LH sensed large load	- Occupant classification ECU - Front seat assembly RH (Rear occupant classification sensor LH)

WIRING DIAGRAM

See page [RS-335](#).

1**PERFORM ZERO POINT CALIBRATION**

- Connect the intelligent tester to the DLC3.
- Turn the ignition switch to the ON position.
- Using the intelligent tester, perform "Zero point calibration" (See page [RS-303](#)).

OK:

The "COMPLETED" is displayed.

NG**Go to step 4****OK****2****PERFORM SENSITIVITY CHECK**

- Using the intelligent tester, perform "Sensitivity check" (See page [RS-303](#)).

Standard values:

27 to 33 kg (59.52 to 72.75 lb)

NG**Go to step 4****OK****3****CHECK DTC**

- Turn the ignition switch to the ON position.
- 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 B1787 is not output.

HINT:

Codes other than DTC B1787 may be output at this time, but they are not related to this check.

OK

END

NG

4

REPLACE FRONT SEAT ASSEMBLY RH

RS

- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery.
- (c) Replace the front seat assembly RH (See page [SE-38](#)).

HINT:

Perform the inspection using parts from a normal vehicle if possible.

NEXT

5

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.

NG

Go to step 8

OK

6

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)

NG

Go to step 8

OK

7

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 B1787 is not output.

HINT:

Codes other than DTC B1787 may be output at this time, but they are not related to this check.

OK

END

RS

NG

8

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

9

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

10

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**B1788****Rear Occupant Classification Sensor RH Collision Detection****DESCRIPTION**

DTC B1788 is output when the occupant classification ECU receives a collision detection signal sent by the rear occupant classification sensor RH if an accident occurs.

DTC B1788 is also output when the front seat assembly RH is subjected to a strong impact, even if an actual accident does not occur.

However, when the occupant classification ECU outputs a collision detection signal, even if the vehicle is not in a collision, DTC B1788 can be cleared by "Zero point calibration" and "Sensitivity check".

Therefore, if DTC B1788 is output, first perform "Zero point calibration" and "Sensitivity check".

DTC No.	DTC Detection Condition	Trouble Area
B1788	- Front seat assembly RH malfunction - Occupant classification ECU malfunction - Rear occupant classification sensor RH sensed large load	- Occupant classification ECU - Front seat assembly RH (Rear occupant classification sensor RH)

RS**WIRING DIAGRAM**

See page [RS-342](#).

1**PERFORM ZERO POINT CALIBRATION**

- Connect the intelligent tester to the DLC3.
- Turn the ignition switch to the ON position.
- Using the intelligent tester, perform "Zero point calibration" (See page [RS-303](#)).

OK:

The "COMPLETED" is displayed.

NG**Go to step 4****OK****2****PERFORM SENSITIVITY CHECK**

- Using the intelligent tester, perform "Sensitivity check" (See page [RS-303](#)).

Standard values:

27 to 33 kg (59.52 to 72.75 lb)

NG**Go to step 4****OK****3****CHECK DTC**

- Turn the ignition switch to the ON position.
 - 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 B1788 is not output.

HINT:

Codes other than DTC B1788 may be output at this time, but they are not related to this check.

OK

END

NG

RS

4

REPLACE FRONT SEAT 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 assembly RH (See page [SE-38](#)).

HINT:

Perform the inspection using parts from a normal vehicle if possible.

NEXT

5

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.

NG

Go to step 8

OK

6

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)

NG

Go to step 8

OK

7

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 B1788 is not output.

HINT:

Codes other than DTC B1788 may be output at this time, but they are not related to this check.

OK

END

NG

RS

8

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

9

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

10

PERFORM SENSITIVITY CHECK

- (a) Using the intelligent tester, perform "Zero point calibration" (See page [RS-303](#)).

Standard values:

27 to 33 kg (59.52 to 72.75 lb)

NEXT

END

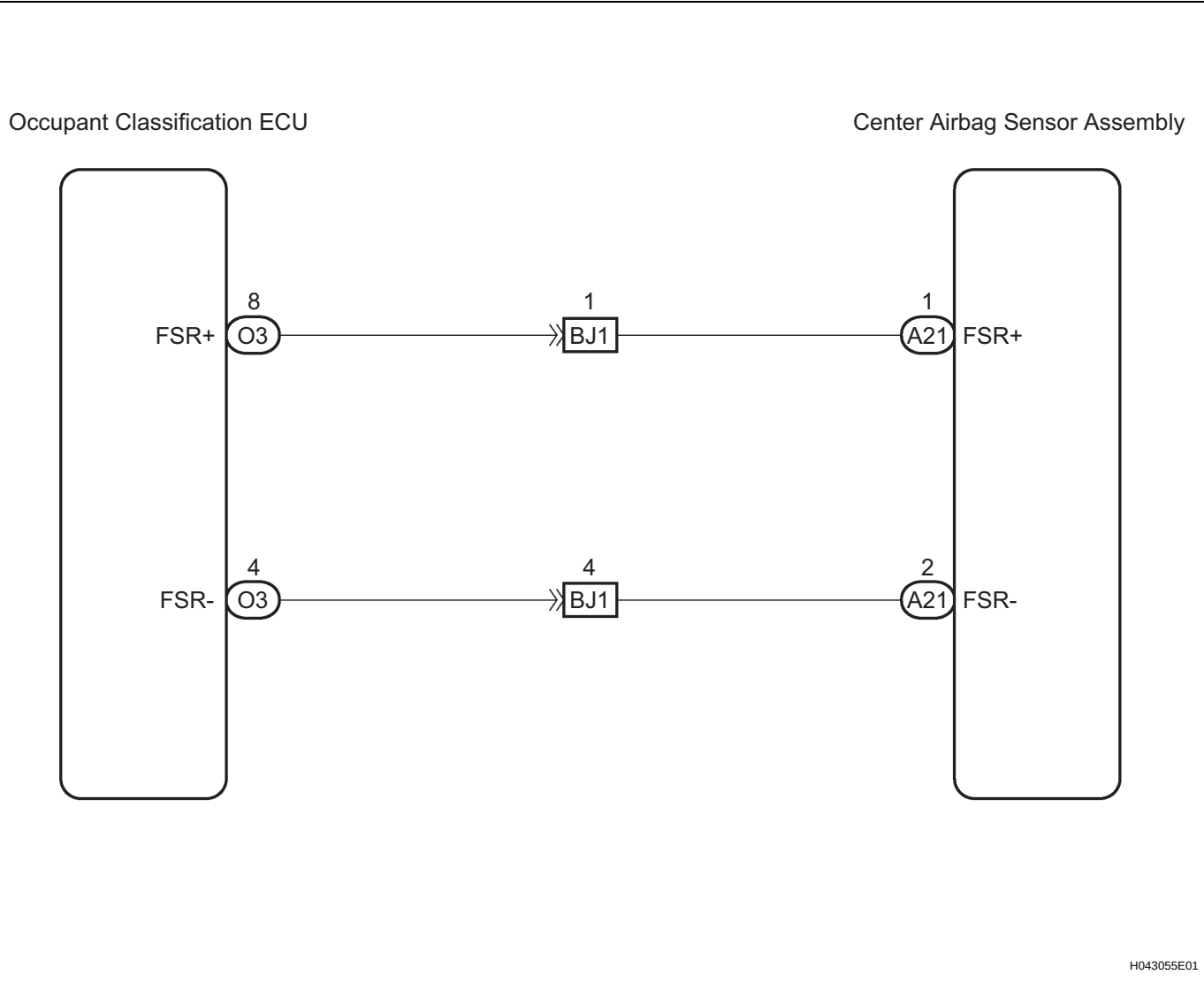
DTC	B1790	Center Airbag Sensor Assembly Communication Circuit Malfunction

DESCRIPTION

The center airbag sensor assembly communication circuit consists of the occupant classification ECU and the center airbag sensor assembly.
DTC B1790 is recorded when a malfunction is detected in the center airbag sensor assembly communication circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1790	- 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 center airbag sensor assembly communication circuit for 2 seconds. - Center airbag sensor assembly malfunction - Occupant classification ECU malfunction	- Occupant classification ECU - Center airbag sensor assembly - Floor wire - Front seat wire RH

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 B1790 is not output.

HINT:

Codes other than DTC B1790 may be output at this time, but they are not related to this check.

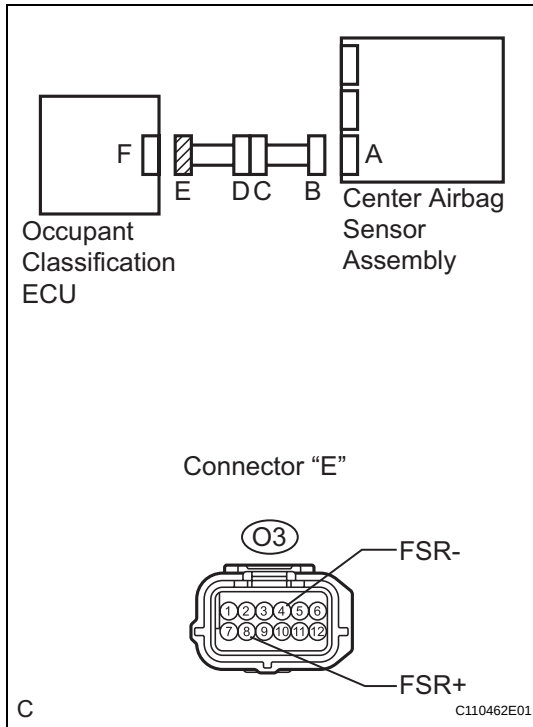
OK**USE SIMULATION METHOD TO CHECK****NG****2** CHECK CONNECTION OF CONNECTORS

- (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 center airbag sensor assembly.

OK:

The connectors are connected.

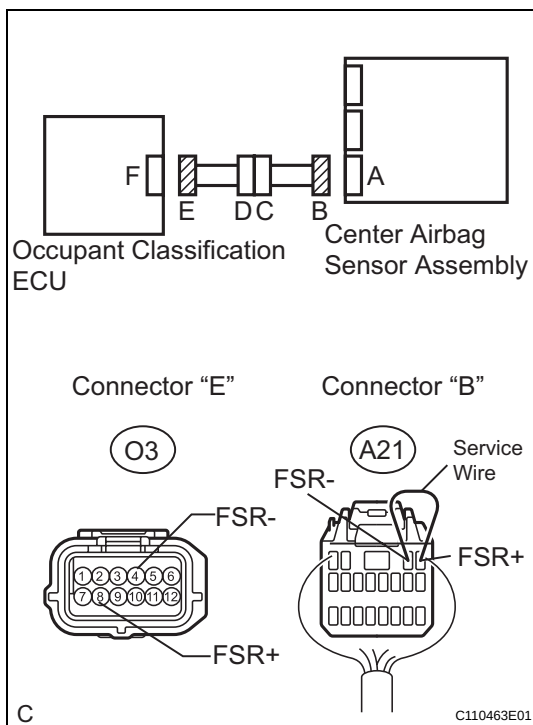
NG**CONNECT CONNECTORS, THEN GO TO STEP 1****OK****RS**

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

- Disconnect the connectors from the occupant classification ECU and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery.
- Turn the ignition switch to the ON position.
- 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 12****OK****4 CHECK OCCUPANT CLASSIFICATION ECU CIRCUIT (OPEN)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Using a service wire, connect A21-1 (FSR+) and A21-2 (FSR-) of connector "B".

NOTICE:

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

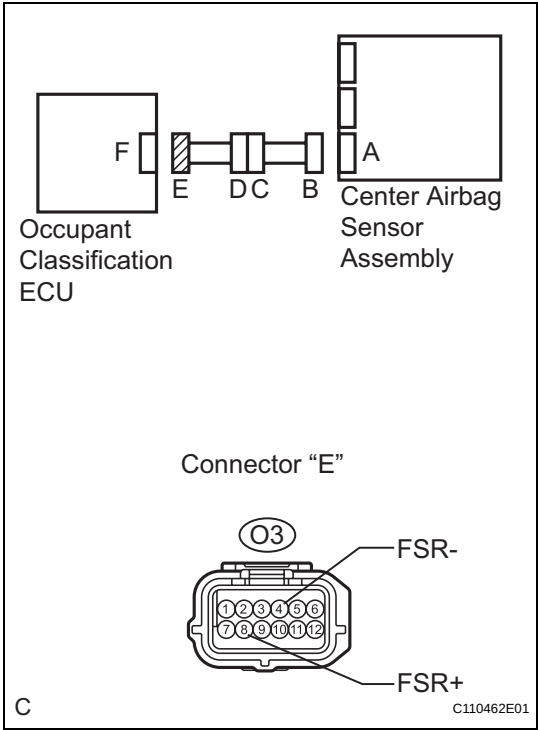
- Measure the resistance according to the value(s) in the table below.

Resistance

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

NG**Go to step 13****OK**

5 CHECK OCCUPANT CLASSIFICATION ECU CIRCUIT (SHORT)



- (a) Disconnect the service wire from connector "B".
(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	1 MΩ or higher

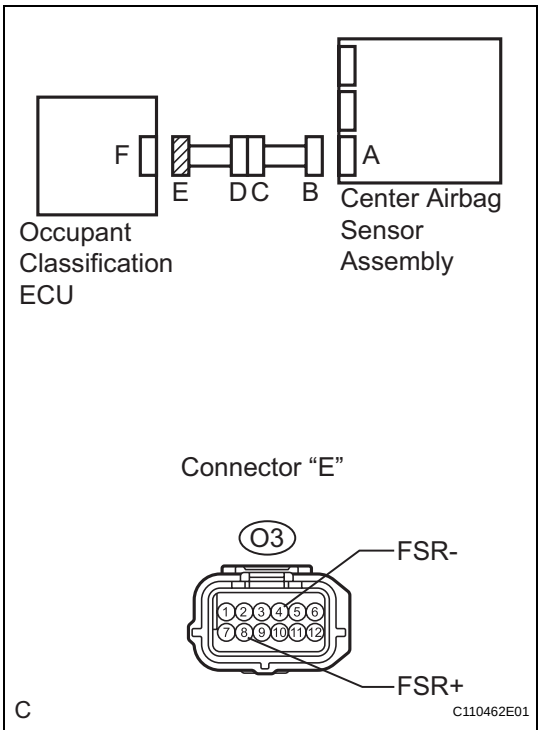
NG

Go to step 14

RS

OK

6 CHECK OCCUPANT CLASSIFICATION ECU CIRCUIT (SHORT TO GROUND)



- (a) 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 15

OK

7 CHECK DTC

- (a) Connect the connectors to the occupant classification ECU and the center airbag sensor assembly.
- (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 B1790 is not output.

HINT:

Codes other than DTC B1790 may be output at this time, but they are not related to this check.

OK**USE SIMULATION METHOD TO CHECK****NG****8 REPLACE OCCUPANT CLASSIFICATION ECU**

- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery.
- (c) Replace the occupant classification ECU (See page [RS-457](#)).

HINT:

Perform the inspection using parts from a normal vehicle if possible.

NEXT**9 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**10 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

11 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 B1790 is not output.****HINT:**

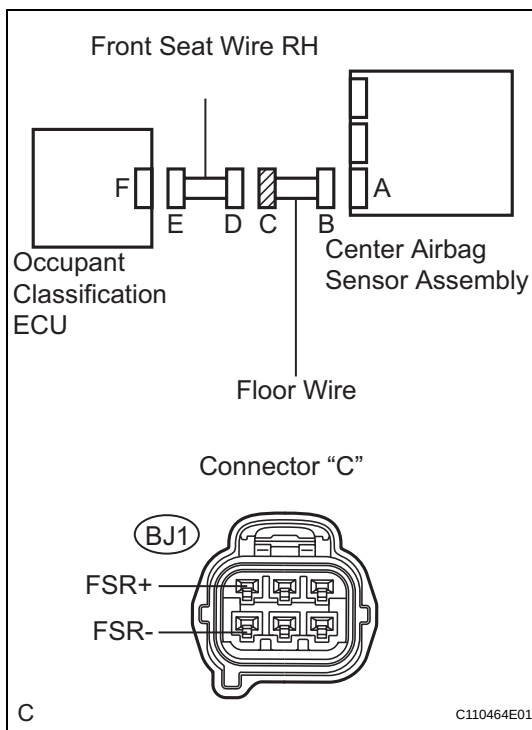
Codes other than DTC B1790 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

END

12 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

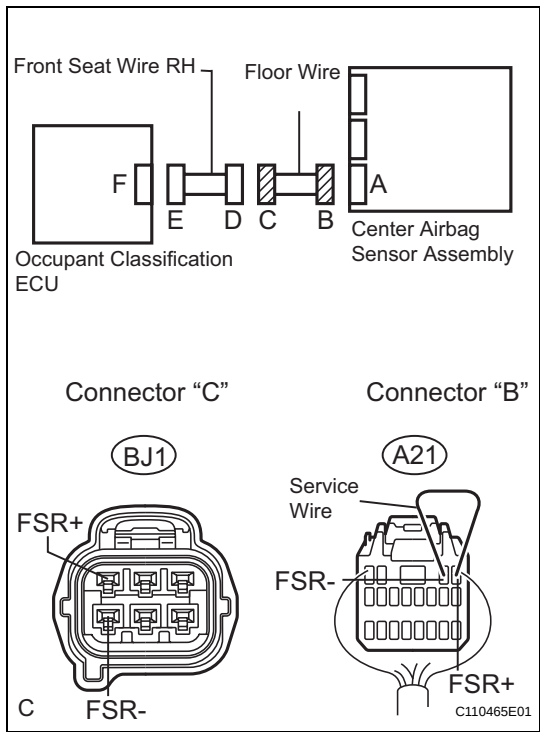
REPAIR OR REPLACE FLOOR WIRE

OK

REPAIR OR REPLACE FRONT SEAT WIRE RH

13

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 the 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

NG

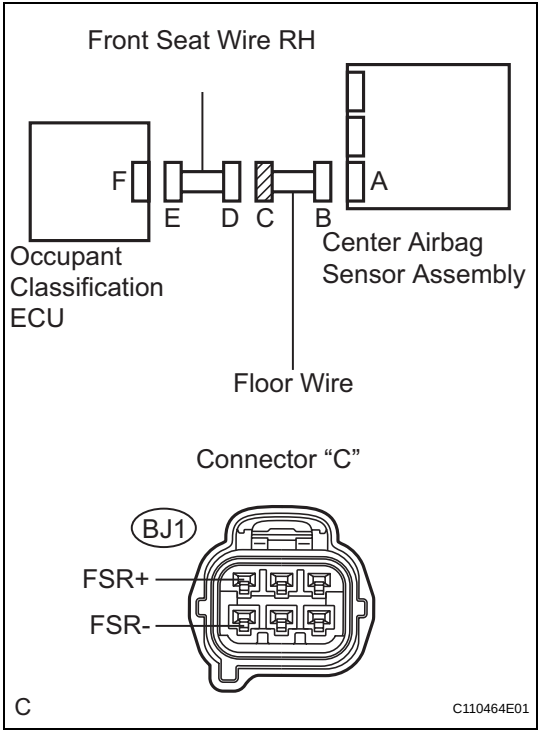
REPAIR OR REPLACE FLOOR WIRE

OK

REPAIR OR REPLACE FRONT SEAT WIRE RH

14

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

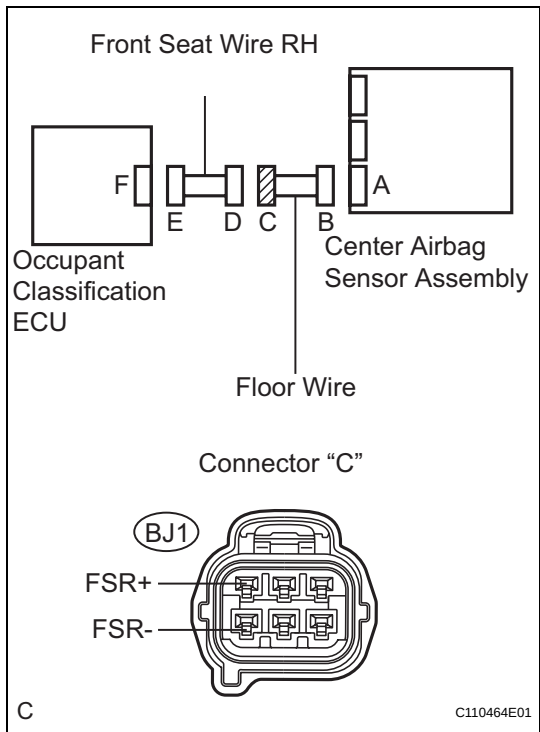
RS

OK

REPAIR OR REPLACE FRONT SEAT WIRE RH

15

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

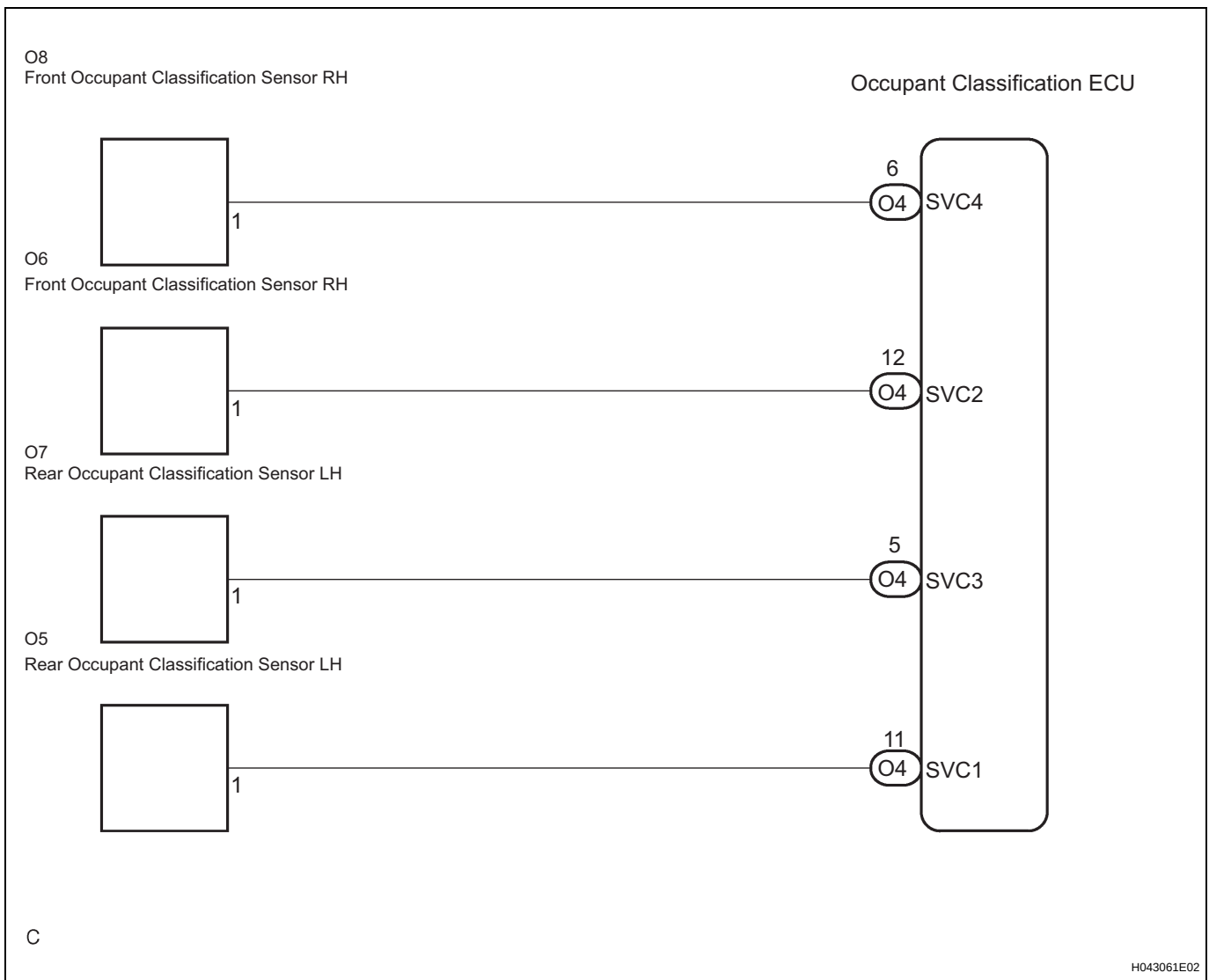
REPAIR OR REPLACE FRONT SEAT WIRE RH

DTC**B1793****Occupant Classification Sensor Power Supply
Circuit Malfunction****DESCRIPTION**

The occupant classification sensor power supply circuit consists of the occupant classification ECU and the occupant classification sensors.

DTC B1793 is recorded when a malfunction is detected in the occupant classification sensor power supply circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1793	- 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 occupant classification sensor power supply circuit for 2 seconds. - Occupant classification ECU malfunction	- Front seat assembly RH (Occupant classification sensors) - 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 B1793 is not output.

HINT:

Codes other than DTC B1793 may be output at this time, but they are not related to this check.

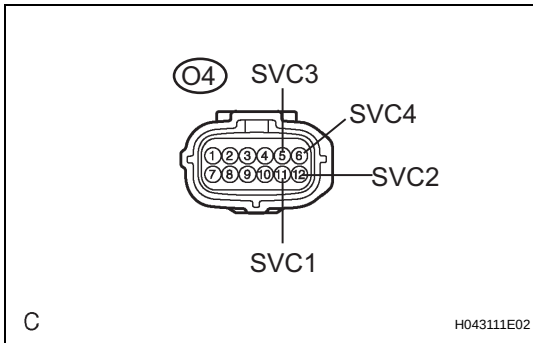
OK**USE SIMULATION METHOD TO CHECK****NG****2 CHECK CONNECTION OF CONNECTORS**

- (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 occupant classification ECU and the occupant classification sensors.

OK:

The connectors are connected.

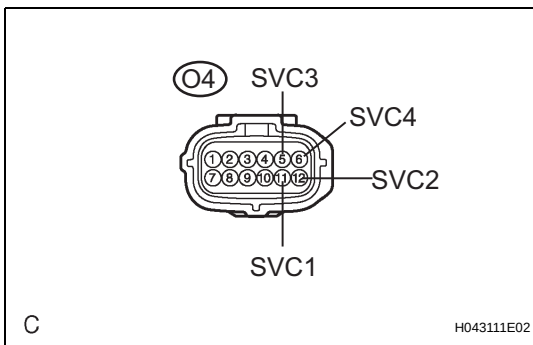
NG**CONNECT CONNECTORS, THEN GO TO STEP 1****OK****RS**

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

- Disconnect the connectors from the occupant classification ECU and the 4 occupant classification sensors.
- Connect the negative (-) terminal cable to the battery.
- Turn the ignition switch to the ON position.
- Measure the voltage according to the value(s) in the table below.

Voltage

Tester connection	Condition	Specified condition
O4-5 (SVC3) - Body ground	Ignition switch ON	Below 1 V
O4-6 (SVC4) - Body ground	Ignition switch ON	Below 1 V
O4-11 (SVC1) - Body ground	Ignition switch ON	Below 1 V
O4-12 (SVC2) - Body ground	Ignition switch ON	Below 1 V

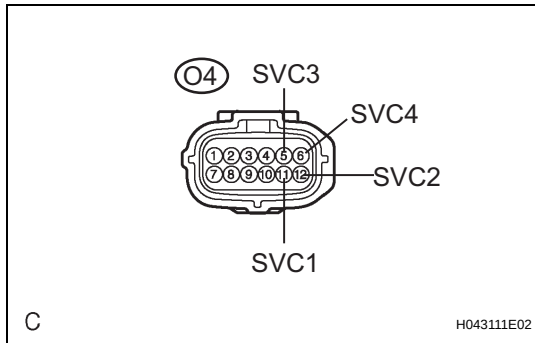
NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK****4 CHECK FRONT SEAT WIRE RH (SHORT TO GROUND)**

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

Resistance

Tester connection	Condition	Specified condition
O4-5 (SVC3) - Body ground	Always	1 MΩ or higher
O4-6 (SVC4) - Body ground	Always	1 MΩ or higher
O4-11 (SVC1) - Body ground	Always	1 MΩ or higher
O4-12 (SVC2) - Body ground	Always	1 MΩ or higher

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

5 CHECK FRONT SEAT WIRE RH (OPEN)

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

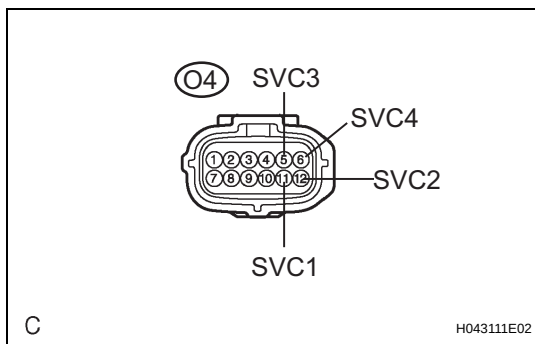
Resistance

Tester connection	Condition	Specified condition
O4-5 (SVC3) - O7-1 (SVC3)	Always	Below 1 Ω
O4-6 (SVC4) - O8-1 (SVC4)	Always	Below 1 Ω
O4-11 (SVC1) - O5-1 (SVC1)	Always	Below 1 Ω
O4-12 (SVC2) - O6-1 (SVC2)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FRONT SEAT WIRE RH

OK

6 CHECK FRONT SEAT WIRE RH (SHORT)

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

Resistance

Tester connection	Condition	Specified condition
O4-5 (SVC3) - O4-6 (SVC4)	Always	1 M Ω or higher
O4-6 (SVC4) - O4-11 (SVC1)	Always	1 M Ω or higher
O4-11 (SVC1) - O4-12 (SVC2)	Always	1 M Ω or higher
O4-12 (SVC2) - O4-5 (SVC3)	Always	1 M Ω or higher
O4-12 (SVC2) - O4-6 (SVC4)	Always	1 M Ω or higher
O4-11 (SVC1) - O4-5 (SVC3)	Always	1 M Ω or higher

NG

REPAIR OR REPLACE FRONT SEAT WIRE RH

OK

7 CHECK DTC

- Connect the connectors to the occupant classification ECU and the 4 occupant classification sensors.
- Connect the negative (-) terminal cable to the battery.
- Turn the ignition switch to the ON position.
- 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 B1793 is not output.

HINT:

Codes other than DTC B1793 may be output at this time, but they are not related to this check.

OK

USE SIMULATION METHOD TO CHECK

NG

RS

8

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](#)).

HINT:

Perform the inspection using parts from a normal vehicle if possible.

NEXT

9

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.

NG

Go to step 12

OK

10

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)

NG

Go to step 12

OK

11 CHECK DTC

- (a) Connect the negative (-) terminal cable to the battery.
- (b) Turn the ignition switch to the ON position.
- (c) 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.

- (d) Turn the ignition switch to the LOCK position.
- (e) Turn the ignition switch to the ON position.
- (f) Check the DTCs (See page [RS-310](#)).

OK:

DTC B1793 is not output.

HINT:

Codes other than DTC B1793 may be output at this time, but they are related to this check.

OK

END

NG

12 REPLACE FRONT SEAT ASSEMBLY RH

- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery.
- (c) Replace the front seat assembly RH (See page [SE-38](#)).

NEXT

13 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

14 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

RS

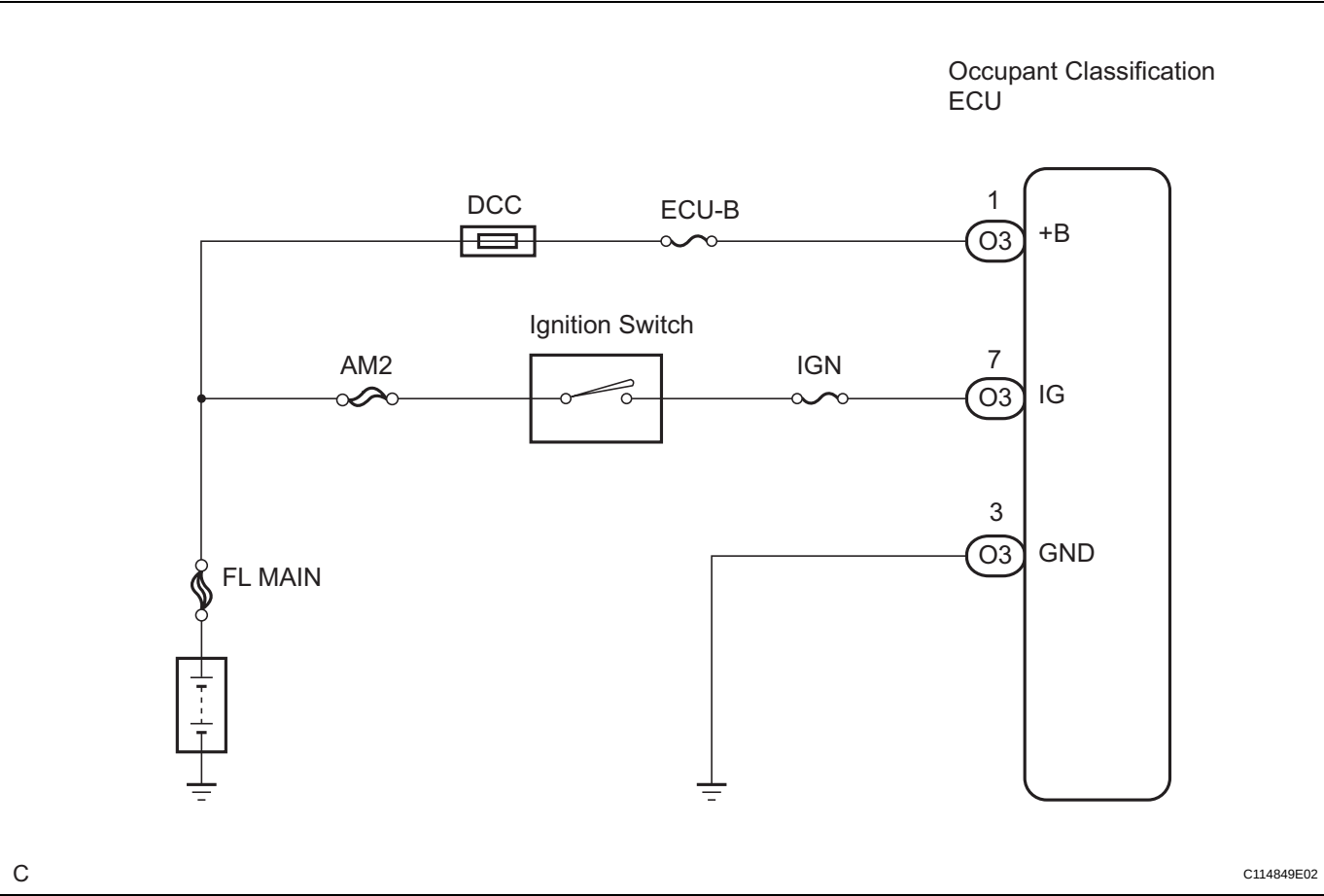
DTC	B1795	Occupant Classification ECU Malfunction

DESCRIPTION

DTC B1795 is recorded when a malfunction is detected in the occupant classification ECU. Troubleshoot DTC B1771 first when the DTCs B1771 and B1795 are output simultaneously.

DTC No.	DTC Detecting Condition	Trouble Area
B1795	- The occupant classification ECU receives the ignition switch LOCK to ON signal 50 times in a row when a malfunction occurs in the power circuit for the occupant classification ECU (LOCK to ON to LOCK should be counted as 1 time). - Occupant classification ECU circuit malfunction - The occupant classification ECU receives a short circuit to ground signal in the passenger side buckle switch circuit for 2 seconds. - Occupant classification ECU malfunction	- Battery - ECU-B Fuse - Floor wire - Front seat wire RH - Front seat inner belt assembly RH (Buckle switch RH) - Occupant classification ECU

WIRING DIAGRAM



1	CHECK DTC

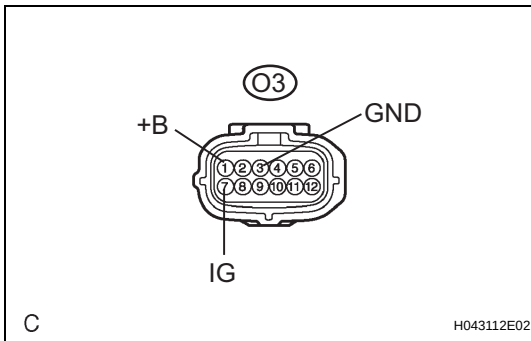
- (a) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
- (b) Check the DTCs (See page RS-310).

Result:**A:****DTCs B1771 and B1795 are output.****B:****DTC B1795 is output.****HINT:**

Codes other than DTC B1771 and B1795 may be output at this time, but they are not related to this check.

A**GO TO DTC B1771****B****2****CHECK FUSE****RS**

- (a) Measure the resistance of the ECU-B fuse.

Resistance:**Below 1 Ω** **NG****REPLACE FUSE****OK****3****CHECK WIRE HARNESS (SOURCE VOLTAGE)**

- (a) Turn the ignition switch to the LOCK position.
 (b) Disconnect the negative (-) terminal cable from the battery.
 (c) Disconnect the connector from the occupant classification ECU.
 (d) Connect the negative (-) terminal cable to the battery.
 (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
O3-1 (+B) - Body ground	Always	10 to 14 V
O3-7 (IG) - Body ground	Ignition switch ON	10 to 14 V

- (g) Turn the ignition switch to the LOCK position.
 (h) Measure the resistance according to the value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
O3-3 (GND) - Body ground	Always	Below 1 Ω

NG**REPAIR OR REPLACE WIRE HARNESS****OK**

4 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](#)).
- HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT**5 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****6 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****RS**

DTC

B1796

Sleep Operation Failure of Occupant Classification ECU**DESCRIPTION**

During sleep mode, the occupant classification ECU reads the condition of each sensor while the ignition switch is off.

In this mode, if the occupant classification ECU detects an internal malfunction, DTC B1796 is output.

DTC No.	DTC Detecting Condition	Trouble Area
B1796	• Occupant classification ECU malfunction	• Occupant classification ECU

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, and wait for at least 10 seconds.
- (d) Turn the ignition switch to the ON position.
- (e) Check the DTCs (See page [RS-310](#)).

OK:**DTC B1796 is not output.**

HINT:

Codes other than DTC B1796 may be output at this time, but they are not related to this check.

OK**USE SIMULATION METHOD TO CHECK****NG****2****REPLACE OCCUPANT CLASSIFICATION ECU**

- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery.
- (c) Replace the occupant classification ECU (See page [RS-457](#)).

HINT:

Perform the inspection using parts from a normal vehicle if possible.

NEXT**3****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.

RS

- (d) Using the intelligent tester, perform "Zero point calibration" (See page [RS-303](#)).

OK:
The "COMPLETED" is displayed.

NEXT

4

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)

RS

NEXT

END

Trouble in Passenger Airbag ON / OFF Indicator

DESCRIPTION

The occupant classification system detects the front passenger seat condition. It then informs a passenger of the front passenger airbag assembly condition (activated/not activated) by the passenger airbag ON/OFF indicator.

The table below shows the normal indication condition of the passenger airbag ON/OFF indicator and the front passenger seat condition.

Front passenger seat condition	ON Indicator	OFF Indicator
Adult is seated.	ON	OFF
Child is seated.	OFF	ON
Vacant	OFF	OFF
Occupant classification system failure	OFF	ON

RS

1 CHECK SRS WARNING LIGHT

- (a) Turn the ignition switch to the ON position, and check the SRS warning light condition.

HINT:

If this trouble occurs, the SRS warning light is off. If it is on, a DTC is output. Troubleshoot for the output DTC.

OK:

The SRS warning light does not come on.

NG

Go to step 9

OK

2 CHECK PASSENGER AIRBAG ON/OFF INDICATOR CONDITION

- (a) Turn the ignition switch to the ON position.
 (b) Check if the passenger airbag ON/OFF indicator correctly indicates the front passenger seat condition.

OK

Front passenger seat condition	ON Indicator	OFF Indicator
Adult is seated.	ON	OFF
Child is seated.	OFF	ON
Vacant	OFF	OFF
Occupant classification system failure	OFF	ON

OK

END

NG

3 PERFORM ZERO POINT CALIBRATION

- (a) Turn the ignition switch to the LOCK position.
 (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 "COMPLETE" is displayed.

NG

Go to step 5

OK

4 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)

NG

Go to step 5

OK

END

5 RETIGHTEN FRONT SEAT ASSEMBLY RH BOLT

- (a) Turn the ignition switch to the LOCK position.
(b) Loosen the 4 installation bolts of the front seat assembly RH.
(c) Tighten the 4 installation bolts of the front seat assembly RH to the specified torque.

Torque: 37 N*m (380 kgf*cm, 27 ft.*lbf)

NG

Go to step 8

OK

6 PERFORM ZERO POINT CALIBRATION

- (a) Connect the intelligent tester to the DLC3.
(b) Turn the ignition switch to the ON position.
(c) Using the intelligent tester, perform "Zero point calibration" (See page [RS-303](#)).

OK:

The "COMPLETE" is displayed.

NG

Go to step 8

OK

7 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)

NG

Go to step 8

OK

8

CHECK CONNECTORS

- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery.
- (c) Check the connectors are properly connected to the occupant classification ECU and the 4 occupant classification sensors.

OK:

The connectors are connected.

- (d) Disconnect the connectors from the occupant classification ECU and the 4 occupant classification sensors.
- (e) Check the connectors are not damaged or deformed.

OK:

The connectors are normal.

NG

REPAIR OR REPLACE CONNECTOR, THEN GO TO STEP 1

OK

9

CHECK DTC

- (a) Connect the connectors to the occupant classification ECU and the 4 occupant classification sensors.
- (b) Connect the negative (-) terminal cable to the battery.
- (c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (d) Turn the ignition switch to the LOCK position.
- (e) Clear the DTCs stored in memory (See page [RS-310](#)).
- (f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (g) Check the DTCs (See page [RS-310](#)).

OK:

DTC is not output.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

10

REPLACE OCCUPANT CLASSIFICATION ECU

- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery.

RS

- (c) Replace the occupant classification ECU (See page [RS-457](#)).

HINT:

Perform the inspection using parts from a normal vehicle if possible.

NEXT

11 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 "COMPLETE" is displayed.

NEXT

12 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

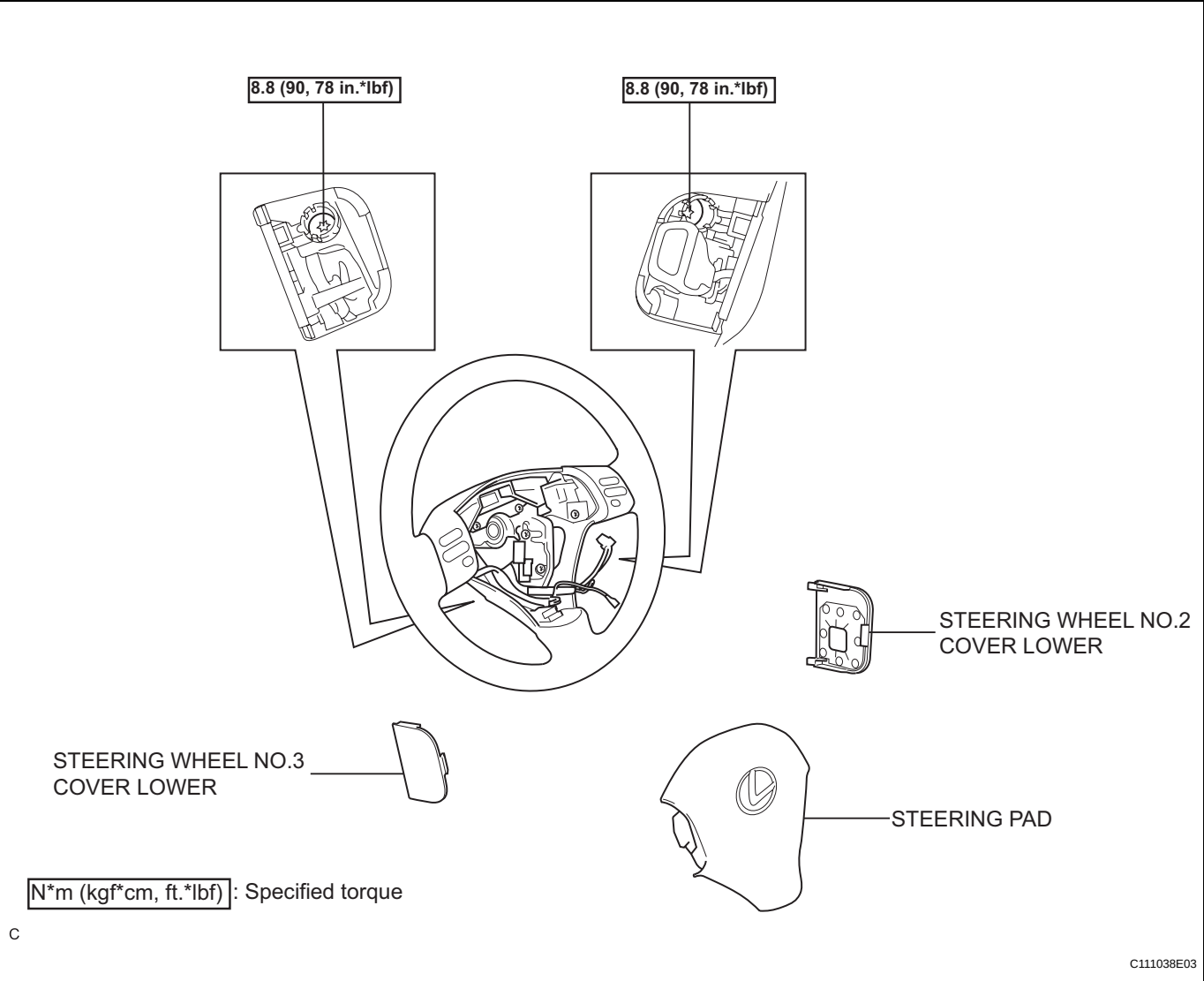
END

RS

STEERING PAD

COMPONENTS

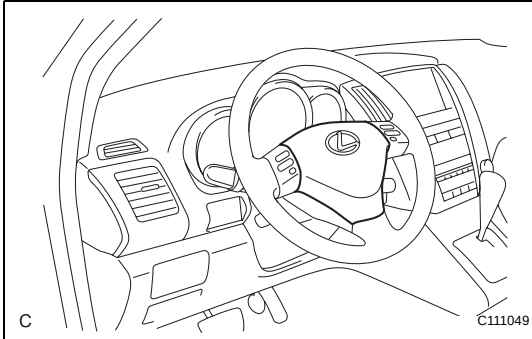
RS



ON-VEHICLE INSPECTION

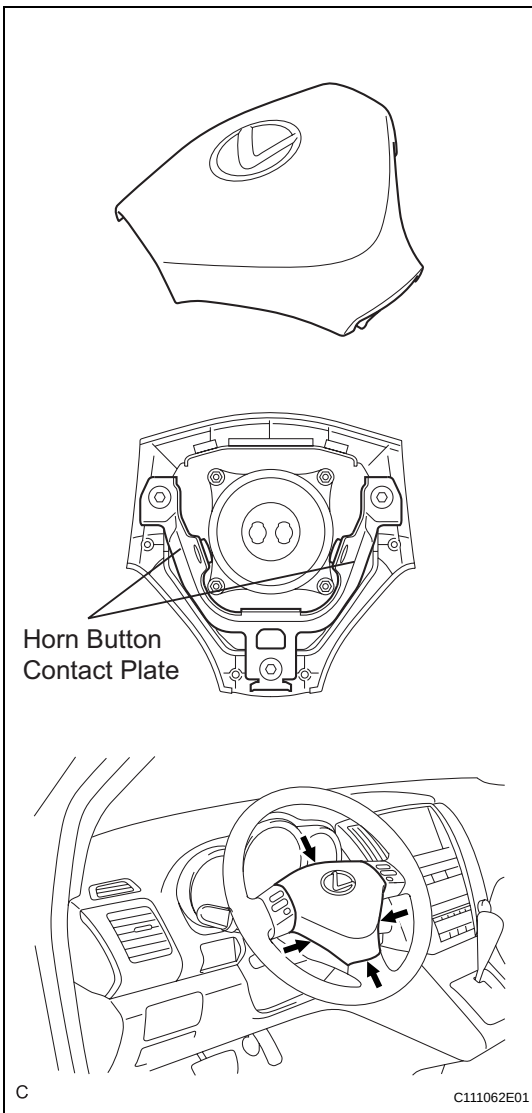
1. INSPECT STEERING PAD (VEHICLE NOT INVOLVED IN COLLISION)

- (a) Perform a diagnostic system check (See page [RS-25](#)).
- (b) With the steering pad installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the steering pad with a new one:
Cuts, minute cracks or marked discoloration on the steering pad top surface or in the grooved portion.



2. INSPECT STEERING PAD (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (a) Perform a diagnostic system check (See page [RS-25](#)).
- (b) With the steering pad removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the steering pad or steering wheel assembly with a new one:
 - Cuts, minute cracks or marked discoloration on the steering pad top surface or in the grooved portion.
 - Cracks or other damage to the connectors.
 - Deformation of the steering wheel assembly.
 - Deformation of the horn button contact plate of the steering pad.
 - There should be no interference between the steering pad and steering wheel assembly, and the clearance should be uniform all the way around when the new steering pad is installed on the steering wheel assembly.



CAUTION:

Be sure to follow the correct removal and installation procedures.

REMOVAL

1. PRECAUTION

CAUTION:

Be sure to read the "PRECAUTION" thoroughly before servicing (See page [RS-1](#)).

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait for 90 seconds after disconnecting the cable to prevent the airbag working.

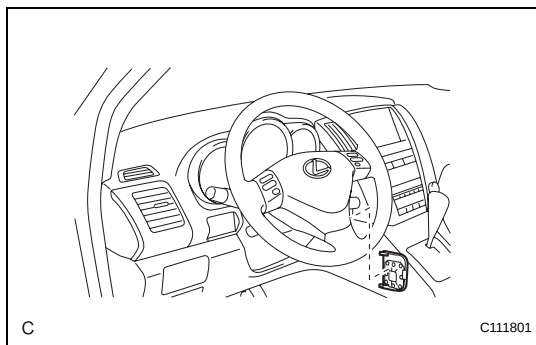
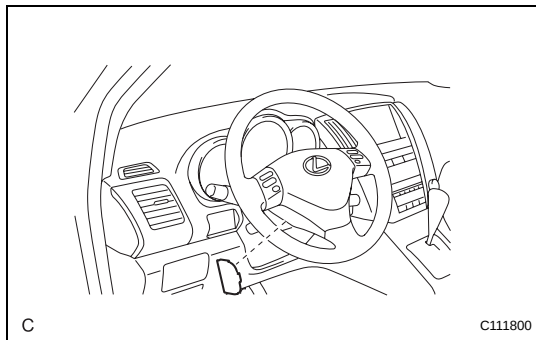
3. REMOVE STEERING WHEEL NO.3 COVER LOWER

- (a) Using a screwdriver, remove the steering wheel No.3 cover lower.

HINT:

Tape up the screwdriver tip before use.

RS



4. REMOVE STEERING WHEEL NO.2 COVER LOWER

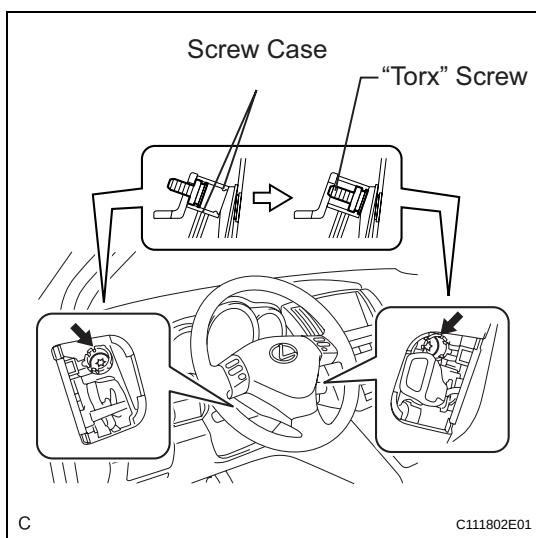
- (a) Using a screwdriver, remove the steering wheel No.2 cover lower.

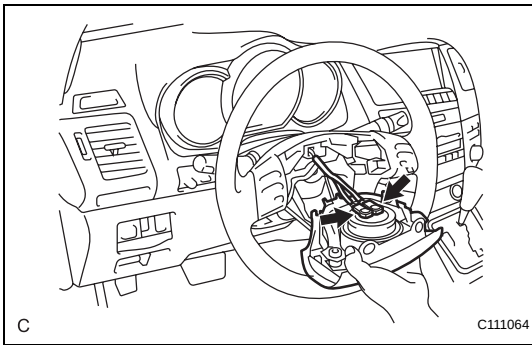
HINT:

Tape up the screwdriver tip before use.

5. REMOVE STEERING PAD

- (a) Using a "torx" socket wrench (T30), loosen the 2 "torx" screws until the groove along the screw circumference catches on the screw case.





- (b) Pull out the steering pad from the steering wheel assembly and support the steering pad with one hand as shown in the illustration.

NOTICE:

When removing the steering pad, do not pull the airbag wire harness.

- (c) Disconnect the horn connector.
(d) Disconnect the 2 connectors from the steering pad.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

- (e) Remove the steering pad.

INSTALLATION**1. INSTALL STEERING PAD**

- (a) Support the steering pad with one hand as shown in the illustration.

- (b) Connect the 2 connectors to the steering pad.

NOTICE:

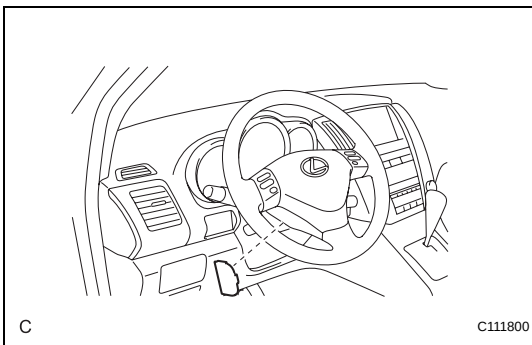
When handling the airbag connector, take care not to damage the airbag wire harness.

- (c) Connect the horn connector.
(d) Confirm that the circumference groove of the "torx" screw fits in the screw case, and place the steering pad onto the steering wheel assembly.
(e) Using a "torx" socket wrench (T30), tighten the 2 "torx" screws.

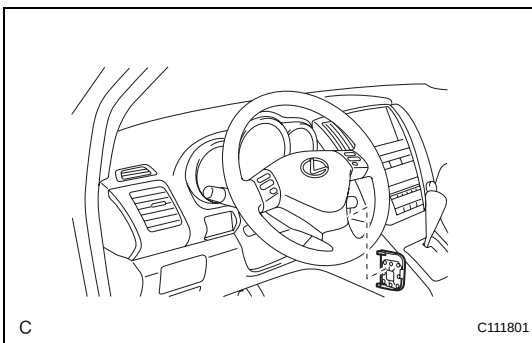
Torque: 8.8 N*m (90 kgf*cm, 78 in.*lbf)

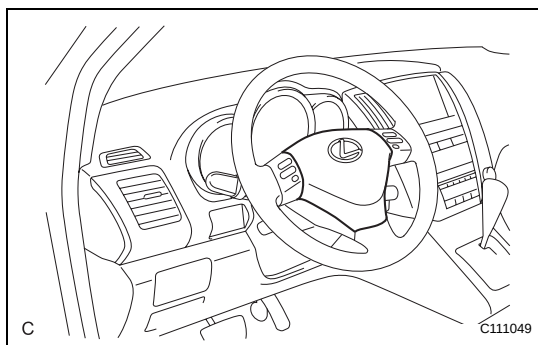
2. INSTALL STEERING WHEEL NO.3 COVER LOWER

- (a) Install the steering wheel No.3 cover lower.

**3. INSTALL STEERING WHEEL NO.2 COVER LOWER**

- (a) Install the steering wheel No.2 cover lower.

4. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

**5. INSPECT STEERING PAD**

- (a) With the steering pad installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the steering pad with a new one:
Cuts, minute cracks or marked discoloration on the steering pad top surface or in the grooved portion.
- (b) Make sure that the horn sounds.
HINT:
If the horn does not sound, inspect the horn system (See page [HO-3](#)).

6. PERFORM INITIALIZATION

- (a) Perform initialization.
HINT:
Some systems need initialization when disconnecting the cable from the negative battery terminal.

7. INSPECT SRS WARNING LIGHT

- (a) Inspect the SRS warning light (See page [RS-25](#)).

DISPOSAL

HINT:

When scrapping a vehicle equipped with the SRS or disposing of the steering pad, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION:

- **Never dispose of a steering pad that has an undeployed airbag.**
- **The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.**
- **When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.**
- **When deploying the airbag, perform the operation at least 10 m (33 ft) away from the steering pad.**
- **The steering pad becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a steering pad with a deployed airbag.**
- **Do not apply water, etc. to a steering pad with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

RS

1. DISPOSE OF STEERING PAD (WHEN INSTALLED IN VEHICLE)

HINT:

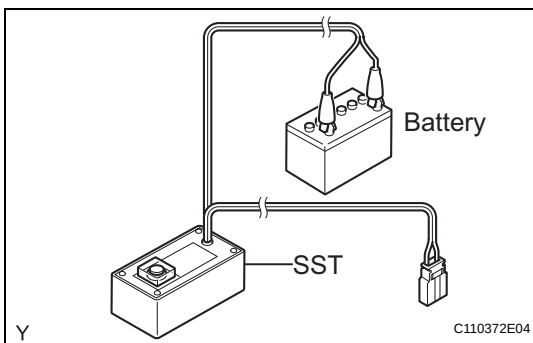
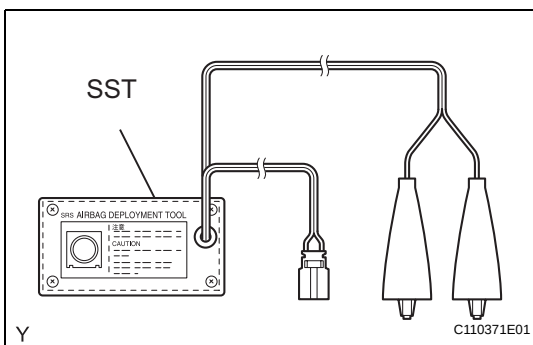
Prepare a battery as the power source to deploy the airbag.

- (a) Check the function of the SST.

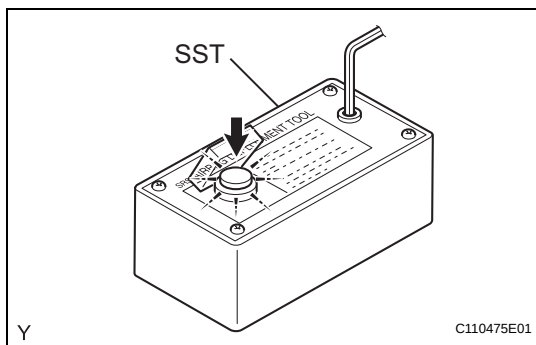
SST 09082-00700

CAUTION:

**When deploying the airbag, always use the specified SST:
SRS Airbag Deployment Tool**



- (1) Connect the SST to the battery.
Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the negative (-) terminal.



- (2) Check the function of the SST.
Press the SST activation switch, and check that the LED of the SST activation switch comes on.

CAUTION:

- Do not connect the SST connector (yellow colored one) to the airbag.
- If the LED comes on when the activation switch is not being pressed, SST malfunction is possible, so replace the SST with a new one.

- (3) Disconnect the SST from the battery.

- (b) Precaution (See page [RS-1](#)).
(c) Disconnect the cable from the negative battery terminal.

CAUTION:

Wait for 90 seconds after disconnecting the cable to prevent the airbag working.

- (d) Remove the steering column cover (lower).

- (1) Manual Tilt:
Using a screwdriver, remove the steering column cover lower No.2.

HINT:

Tape up the screwdriver tip before use.

- (2) While turning the steering wheel assembly to the right and left, remove the 3 screws and steering column cover (lower).

- (e) Install the SST.

CAUTION:

Check that there is no looseness in the steering wheel assembly and steering pad.

- (1) Disconnect the airbag connector (yellow colored one) from the spiral cable.

NOTICE:

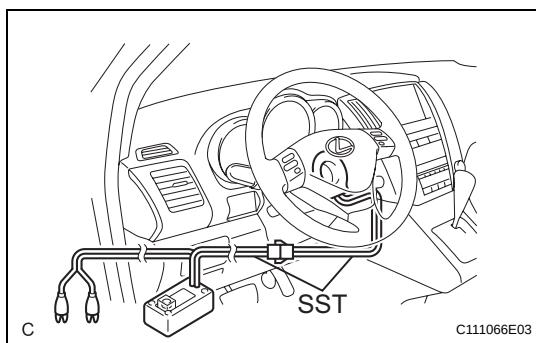
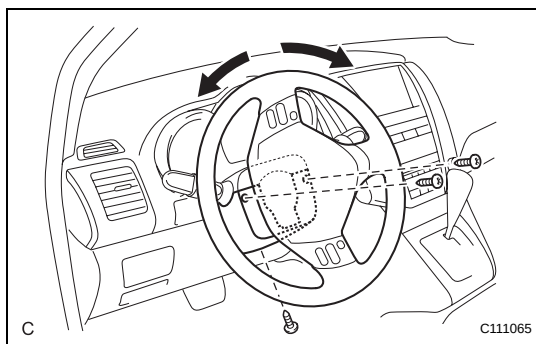
When handling the airbag connector, take care not to damage the airbag wire harness.

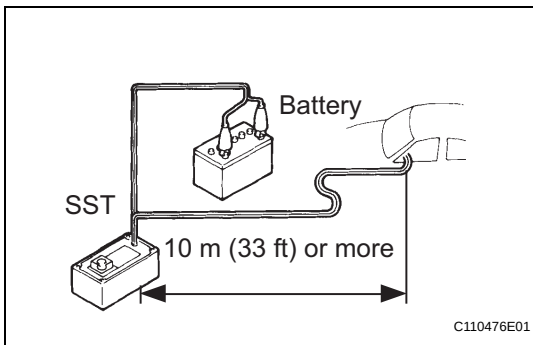
- (2) Connect the SST connector to the airbag connector of the spiral cable.

SST 09082-00700, 09082-00780

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.





- (3) Move the SST at least 10 m (33 ft) away from the vehicle front side window.
- (4) Maintaining enough clearance for the SST wire harness in the front side window, close all doors and windows of the vehicle.

NOTICE:

Take care not to damage the SST wire harness.

- (5) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the negative (-) terminal.
- (f) Deploy the airbag.
 - (1) Check that no one is inside the vehicle or within a 10 m (33 ft) radius of the vehicle.
 - (2) Press the SST activation switch and deploy the airbag.

CAUTION:

- When deploying the airbag, make sure that no one is near the vehicle.
- The steering pad becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a steering pad with a deployed airbag.
- Do not apply water, etc. to a steering pad with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

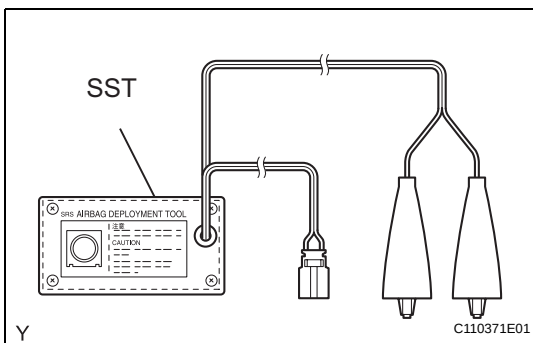
2. DISPOSE OF STEERING PAD (WHEN NOT INSTALLED IN VEHICLE)

NOTICE:

- When disposing of the steering pad, never use the customer's vehicle to deploy the airbag.
- Be sure to follow the procedure detailed below when deploying the airbag.

HINT:

Prepare a battery as the power source to deploy the airbag.



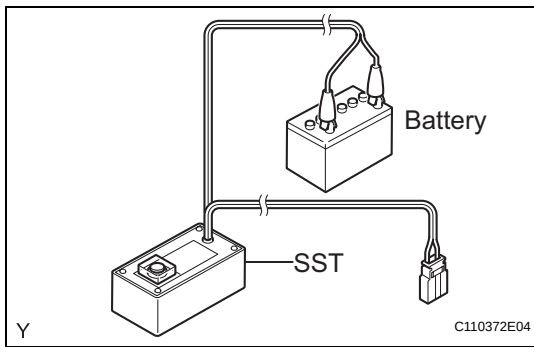
- (a) Check the function of the SST.

SST 09082-00700

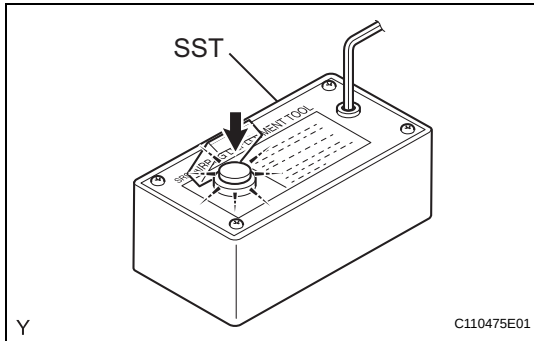
CAUTION:

When deploying the airbag, always use the specified SST:

SRS Airbag Deployment Tool



- (1) Connect the SST to the battery.
Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the negative (-) terminal.



- (2) Check the function of the SST.
Press the SST activation switch, and check that the LED of the SST activation switch comes on.

CAUTION:

- Do not connect the SST connector (yellow colored one) to the airbag.
- If the LED comes on when the activation switch is not being pressed, SST malfunction is possible, so replace the SST with a new one.

- (3) Disconnect the SST from the battery.

- (b) Remove the steering pad (See page [RS-387](#)).

CAUTION:

- When removing the steering pad, work must be started 90 seconds after the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.
- When storing the steering pad, keep the airbag deployment side facing upward.

- (c) Using a service-purpose wire harness for the vehicle, tie down the steering pad to the disc wheel.

Wire harness:

Stripped wire harness section

1.25 mm² or more (0.0019 in.² or more)

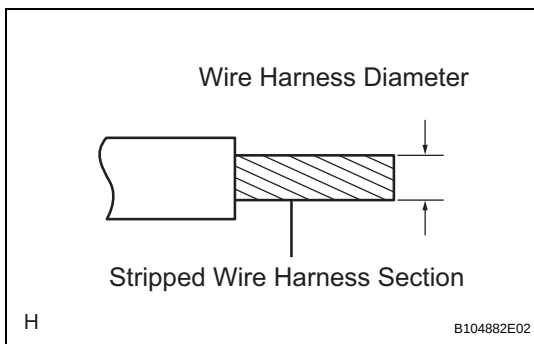
CAUTION:

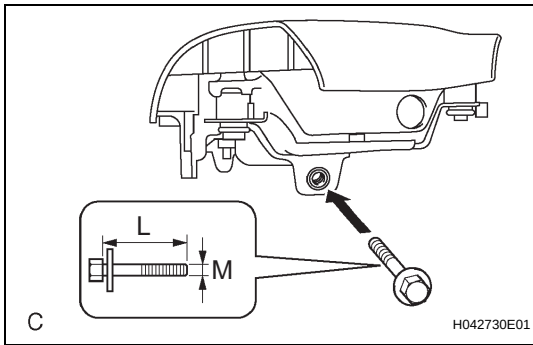
If the wire harness is too thin or an alternative object is used to tie down the steering pad, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with an area of at least 1.25 mm² (0.0019 in.²).

HINT:

To calculate the area of the stripped wire harness section:

$$\text{Area} = 3.14 \times (\text{Diameter})^2 \text{ divided by } 4$$





- (1) Install the 2 bolts with washers into the 2 bolt holes on the steering pad.

Bolt:**L:**

35.0 mm (1.378 in.)

M:

6.0 mm (0.236 in.)

Pitch:

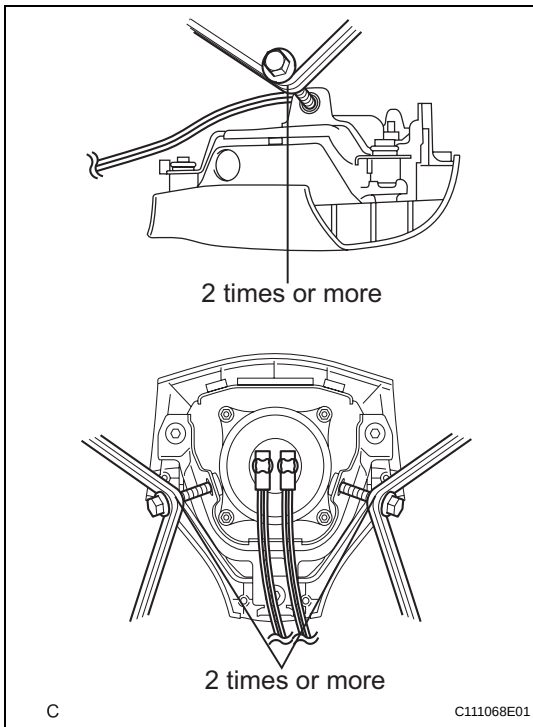
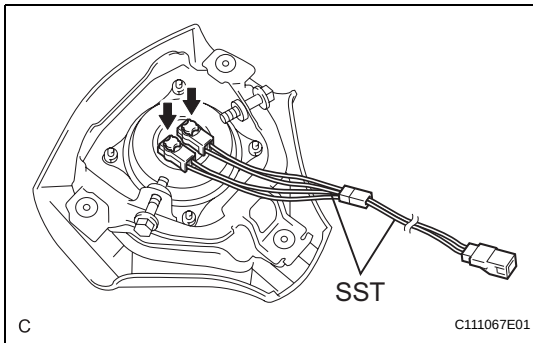
1.0 mm (0.039 in.)

NOTICE:

- Tighten the bolts by hand until they become difficult to turn.
- Do not tighten the bolts excessively.

- (2) After connecting the SST below to each other, connect them to the steering pad.

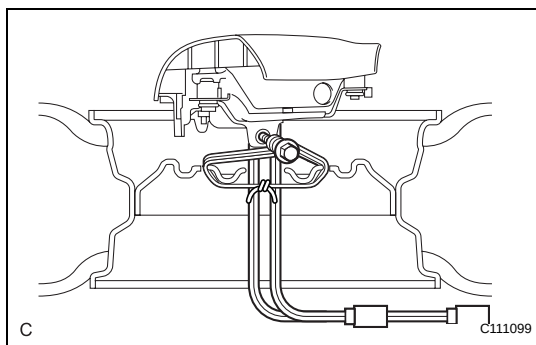
SST 09082-00802 (09082-10801, 09082-30801)



- (3) Using 3 wire harnesses, wind wire harness at least 2 times each around each of the bolts installed on the left and right sides of the steering pad.

CAUTION:

- Tightly wind the wire harness around the bolts so that there is no slack.
- Make sure that the wire harness is tight. If there is slack in the wire harness, the steering pad may become loose due to the shock when the airbag is deployed.



RS

- (4) Face the airbag deployment side of the steering pad upward on top of a tire and wheel set. Separately tie the left and right sides of the steering pad to the disc wheel through the hub nut holes. Position the SST connector so that it hangs downward through the hub hole of the disc wheel.

CAUTION:

- Make sure that the wire harness is tight. If there is slack in the wire harness, the steering pad may become loose due to the shock when the airbag is deployed.
- Always tie down the steering pad with the airbag deployment side facing upward.

NOTICE:

The disc wheel will be damaged by the airbag deployment, so use an extra disc wheel.

- (d) Install the SST.

CAUTION:

Place the disc wheel on level ground.

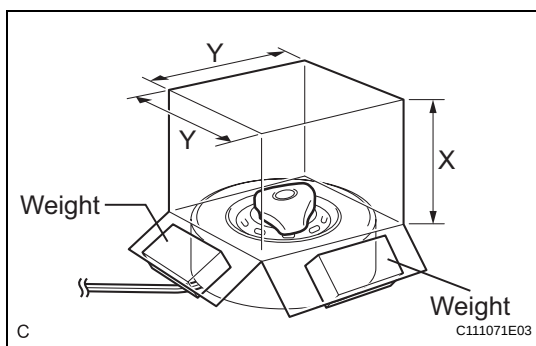
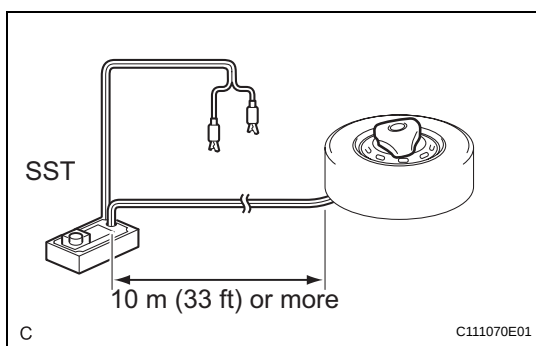
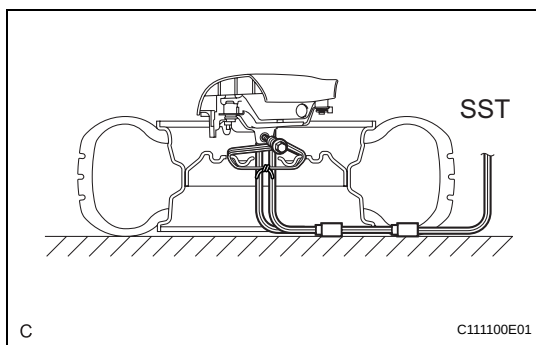
- (1) Connect the SST connector.

SST 09082-00700

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the disc wheel.

- (2) Move the SST at least 10 m (33 ft) away from the airbag tied down to the disc wheel.



- (e) Cover the steering pad (Using a cardboard box).
- (1) Cover the steering pad with the cardboard box.
 - (2) Place weights on the cardboard box in 4 places totalling at least 190 N (19 kg, 43 lb).

Cardboard box size:

Must exceed the following dimensions

X:

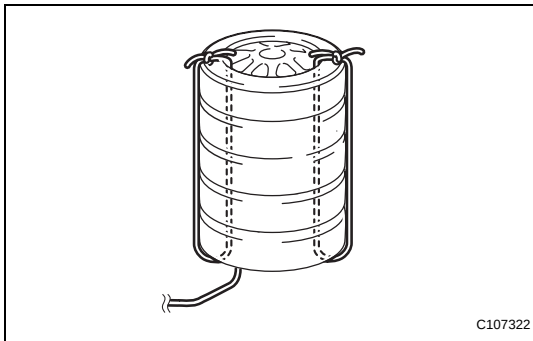
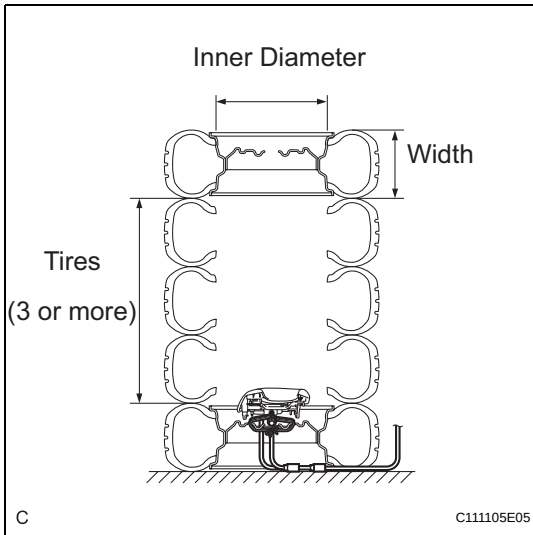
460 mm (18.11 in.)

Y:

650 mm (25.59 in.)

NOTICE:

- When the dimension Y of the cardboard box exceeds the diameter of the disc wheel with tire which the steering pad is tied to, X should be the following size.
 $X = 460 \text{ mm (18.11 in.)} + \text{width of tire}$
- If a cardboard box which is smaller than the specified size is used, the cardboard box will be broken by the shock from the airbag deployment.



- (f) Cover the steering pad (Using tires).
- (1) Place at least 3 tires without disc wheels on the tire with disc wheel which the steering pad is tied to.
 - (2) Place the tire with a disc wheel on top of them.

Tire size:

Must exceed the following dimensions

Width:

185 mm (7.28 in.)

Inner diameter:

360 mm (14.17 in.)

CAUTION:

Do not use tires with disc wheels except for on the top and bottom.

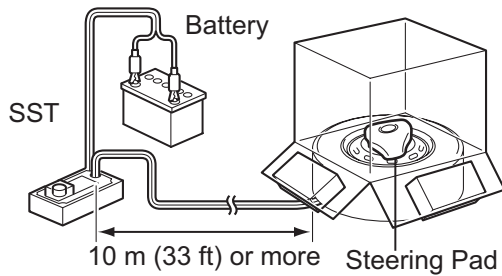
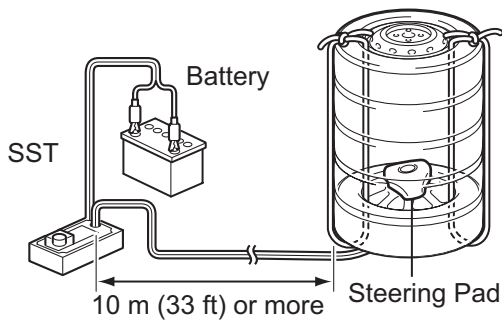
NOTICE:

- The tires may be damaged by the airbag deployment, so use an extra tire.
- Do not place the SST connector under the tire because it could be damaged.

- (3) Tie the tires together with 2 wire harnesses.

CAUTION:

Make sure that the wire harness is tight. Looseness in the wire harness results in the tires coming free due to the shock when the airbag is deployed.

Using a cardboard box:**Using tires:**

C

C111072E01



C051699E01

(g) Deploy the airbag.

- (1) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the negative (-) terminal.
- (2) Check that no one is within a 10 m (33 ft) radius of the disc wheel which the steering pad is tied to.
- (3) Press the SST activation switch and deploy the airbag.

CAUTION:

When deploying the airbag, make sure that no one is near the tire.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

(h) Dispose of the steering pad.

CAUTION:

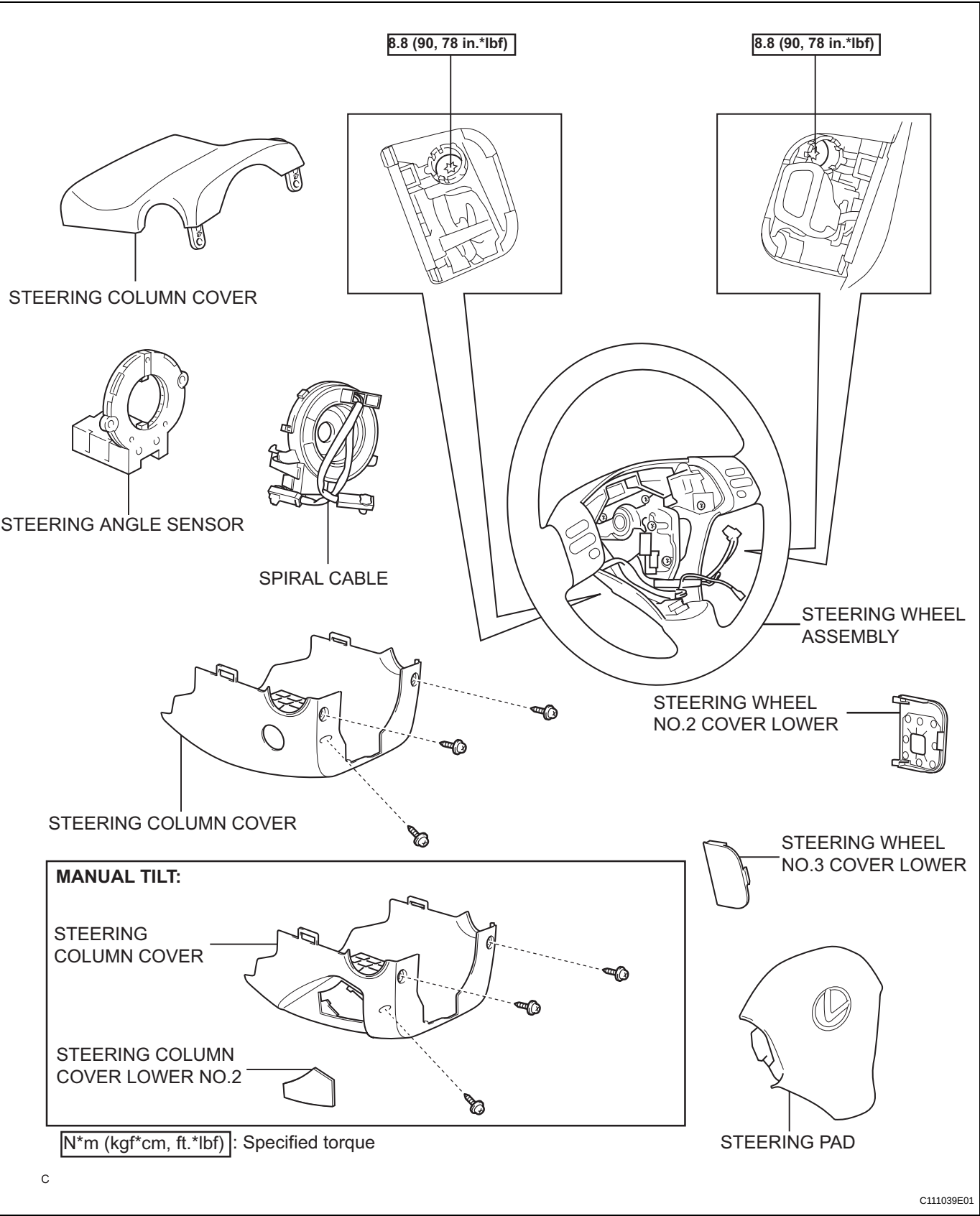
- The steering pad becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a steering pad with a deployed airbag.
- Do not apply water, etc. to a steering pad with a deployed airbag.
- Always wash your hands with water after completing the operation.

- (1) Remove the steering pad from the disc wheel.
- (2) Place the steering pad in a plastic bag, tie it tightly and dispose of it as other general part disposal.

RS

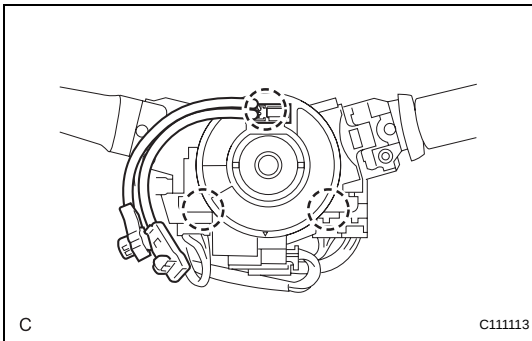
SPIRAL CABLE

COMPONENTS



REMOVAL

1. **PRECAUTION**
CAUTION:
Be sure to read the "PRECAUTION" thoroughly before servicing (See page [RS-1](#)).
2. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
CAUTION:
Wait for 90 seconds after disconnecting the cable to prevent the airbag working
3. **PLACE FRONT WHEELS FACING STRAIGHT AHEAD**
4. **REMOVE STEERING WHEEL NO.3 COVER LOWER** (See page [RS-387](#))
5. **REMOVE STEERING WHEEL NO.2 COVER LOWER** (See page [RS-387](#))
6. **REMOVE STEERING PAD** (See page [RS-388](#))
7. **REMOVE STEERING WHEEL ASSEMBLY (for Manual Tilt)** (See page [SR-40](#))
8. **REMOVE STEERING WHEEL ASSEMBLY (for Power Tilt and Power Telescopic)** (See page [SR-50](#))
9. **REMOVE STEERING COLUMN COVER (for Manual Tilt)** (See page [SR-40](#))
10. **REMOVE STEERING COLUMN COVER (for Power Tilt and Power Telescopic)** (See page [SR-51](#))
11. **REMOVE SPIRAL CABLE**
 - (a) Disconnect the connectors from the spiral cable.
NOTICE:
When handling the airbag connector, take care not to damage the airbag wire harness.
 - (b) Disengage the 3 claws and remove the spiral cable.
12. **REMOVE STEERING ANGLE SENSOR** (See page [BC-128](#))

RS

INSPECTION

1. INSPECT SPIRAL CABLE

- (a) If there are any defects as mentioned below, replace the spiral cable with a new one:
Scratches, cracks, dents or chips on the connector or the spiral cable.

INSTALLATION

1. INSTALL STEERING ANGLE SENSOR (See page [BC-128](#))

2. INSTALL SPIRAL CABLE

- (a) Check that the front wheels are facing straight ahead.

- (b) Set the turn signal switch to the neutral position.

NOTICE:

If it is not in the neutral position, the pin of the turn signal switch may snap.

- (c) Install the spiral cable.

NOTICE:

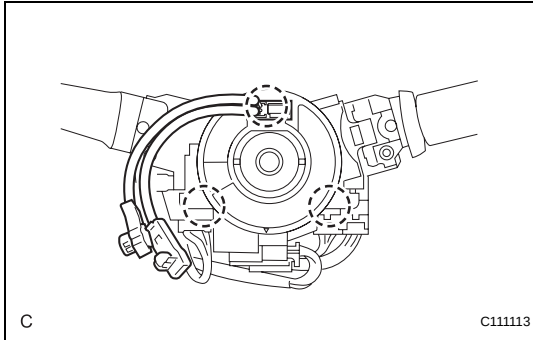
When replacing the spiral cable with a new one, remove the lock pin before installing the steering wheel assembly.

- (d) Connect the connectors to the spiral cable.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

RS



3. INSTALL STEERING COLUMN COVER (for Manual Tilt) (See page [SR-45](#))

4. INSTALL STEERING COLUMN COVER (for Power Tilt and Power Telescopic) (See page [SR-57](#))

5. ADJUST SPIRAL CABLE

- (a) Check that the ignition switch is off.

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

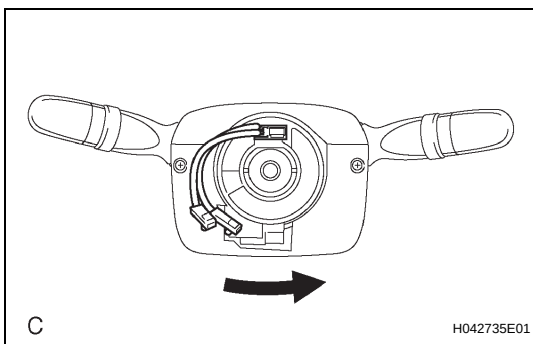
CAUTION:

After removing the terminal, wait for at least 90 seconds before starting the operation.

- (c) Rotate the spiral cable counterclockwise slowly by hand until it feels firm.

NOTICE:

Do not turn the spiral cable by the airbag wire harness.



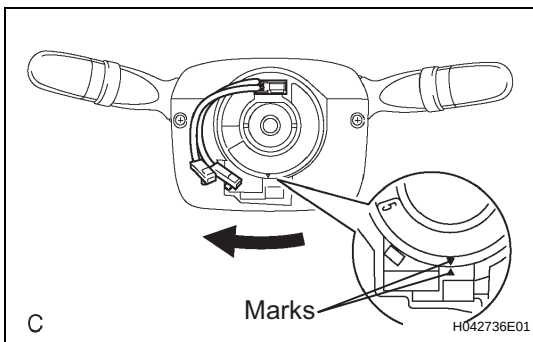
- (d) Rotate the spiral cable clockwise approximately 2.5 turns to align the marks.

NOTICE:

Do not turn the spiral cable by the airbag wire harness.

HINT:

The spiral cable will rotate approximately 2.5 turns to both the left and right from the center.



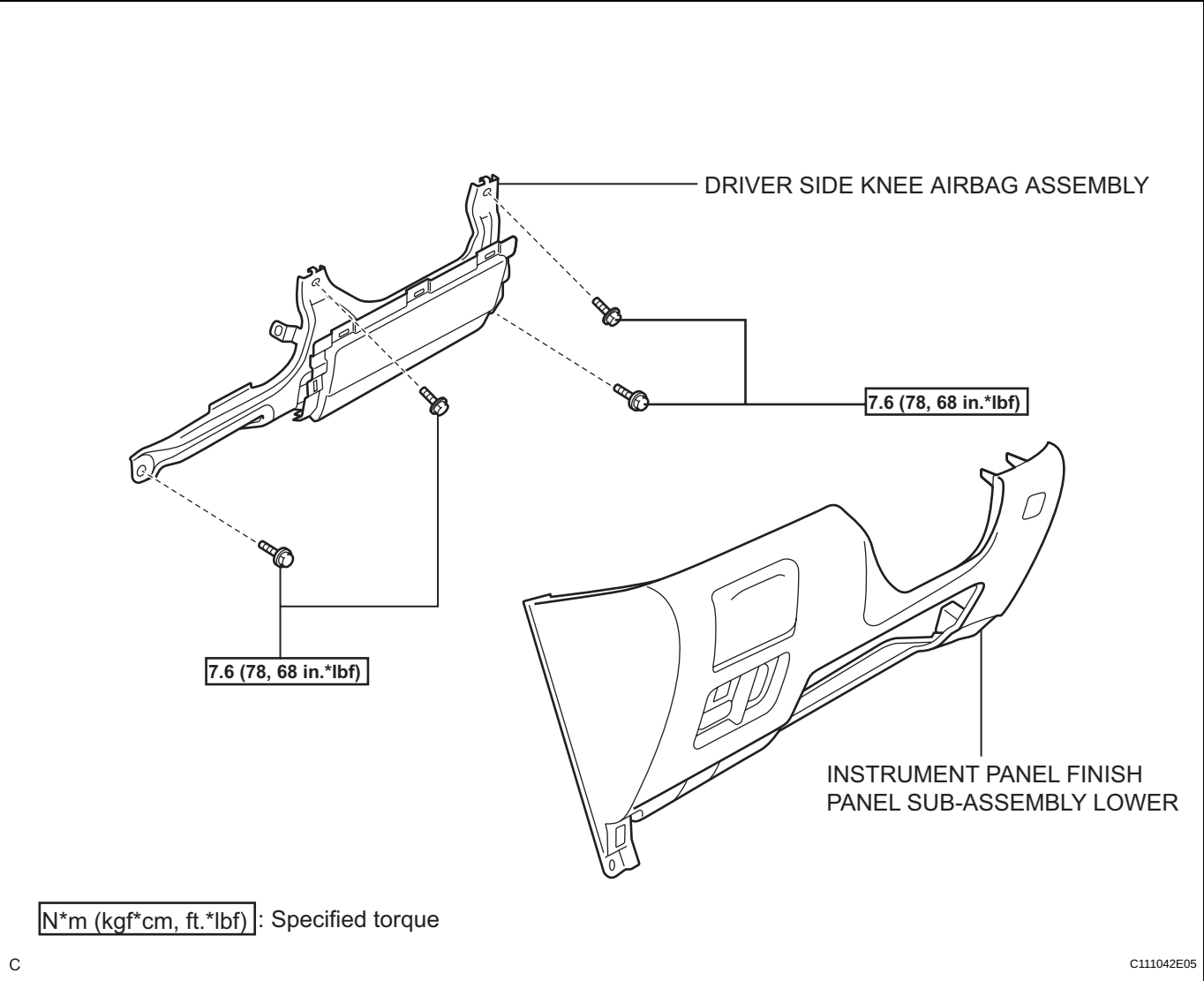
6. INSTALL STEERING WHEEL ASSEMBLY (for Manual Tilt) (See page [SR-45](#))

RS

7. **INSTALL STEERING WHEEL ASSEMBLY** (for Power Tilt and Power Telescopic) (See page [SR-57](#))
8. **INSPECT STEERING WHEEL CENTER POINT**
9. **INSTALL STEERING PAD** (See page [RS-388](#))
10. **INSTALL STEERING WHEEL NO.2 COVER LOWER** (See page [RS-389](#))
11. **INSTALL STEERING WHEEL NO.3 COVER LOWER** (See page [RS-389](#))
12. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
13. **INSPECT STEERING PAD** (See page [RS-389](#))
14. **PERFORM INITIALIZATION**
 - (a) Perform initialization.
HINT:
Some systems need initialization when disconnecting the cable from the negative battery terminal.
15. **INSPECT SRS WARNING LIGHT**
 - (a) Inspect the SRS warning light (See page [RS-25](#)).

DRIVER SIDE KNEE AIRBAG ASSEMBLY

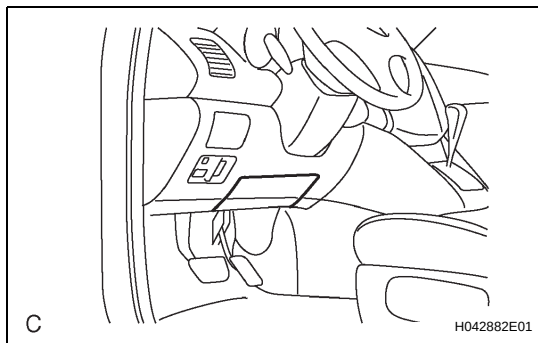
COMPONENTS



ON-VEHICLE INSPECTION

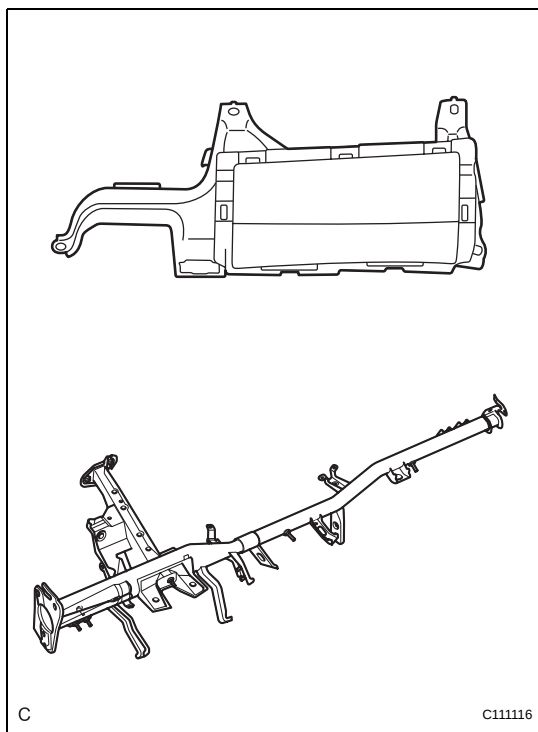
1. INSPECT DRIVER SIDE KNEE AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION)

- (a) Perform a diagnostic system check (See page [RS-25](#)).
- (b) With the driver side knee airbag assembly installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the driver side knee airbag assembly with a new one:
Cuts, minute cracks or marked discoloration on the driver side knee airbag assembly.



2. INSPECT DRIVER SIDE KNEE AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (a) Perform a diagnostic system check (See page [RS-25](#)).
- (b) With the driver side knee airbag assembly removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the driver side knee airbag assembly with a new one:
 - Cuts, minute cracks or marked discoloration on the driver side knee airbag assembly.
 - Cracks or other damage to the connector.
 - Deformation or cracks on the instrument panel reinforcement.



CAUTION:

Be sure to follow the correct removal and installation procedures.

REMOVAL

1. PRECAUTION

CAUTION:

Be sure to read the "PRECAUTION" thoroughly before servicing (See page [RS-1](#)).

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait for 90 seconds after disconnecting the cable to prevent the airbag working.

3. REMOVE INSTRUMENT PANEL FINISH PANEL SUB-ASSEMBLY LOWER (See page [IP-12](#))

4. REMOVE DRIVER SIDE KNEE AIRBAG ASSEMBLY

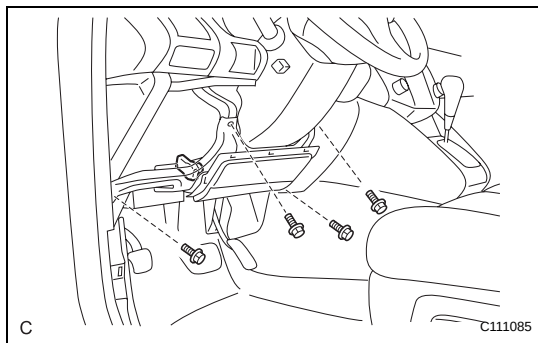
- (a) Disconnect the connector from the driver side knee airbag assembly.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

- (b) Remove the 4 bolts and the driver side knee airbag assembly.

RS



INSTALLATION

1. INSTALL DRIVER SIDE KNEE AIRBAG ASSEMBLY

- (a) Install the driver side knee airbag assembly with the 4 bolts.

Torque: 7.6 N*m (78 kgf*cm, 68 in.*lbf)

- (b) Connect the connector to the driver side knee airbag assembly.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

2. INSTALL INSTRUMENT PANEL FINISH PANEL SUB-ASSEMBLY LOWER (See page [IP-29](#))

3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

4. PERFORM INITIALIZATION

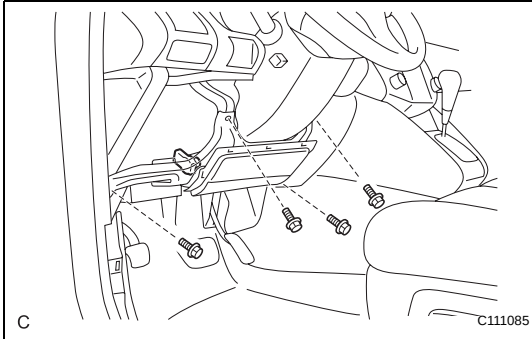
- (a) Perform initialization.

HINT:

Some systems need initialization when disconnecting the cable from the negative battery terminal.

5. INSPECT SRS WARNING LIGHT

- (a) Inspect the SRS warning light (See page [RS-25](#)).



DISPOSAL

HINT:

When scrapping a vehicle equipped with the SRS or disposing of the driver side knee airbag assembly, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION:

- Never dispose of a driver side knee airbag assembly that has an undeployed airbag.
- The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.
- When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.
- When deploying the airbag, perform the operation at least 10 m (33 ft) away from the driver side knee airbag assembly.
- The driver side knee airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a driver side knee airbag assembly with a deployed airbag.
- Do not apply water, etc. to a driver side knee airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

1. DISPOSE OF DRIVER SIDE KNEE AIRBAG ASSEMBLY (WHEN INSTALLED IN VEHICLE)

HINT:

Prepare a battery as the power source to deploy the airbag.

- Check the function of the SST (See page [RS-389](#)).
- Precaution (See page [RS-1](#)).
- Disconnect the cable from the negative battery terminal.

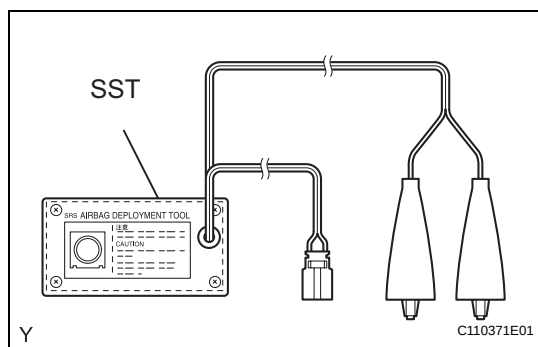
CAUTION:

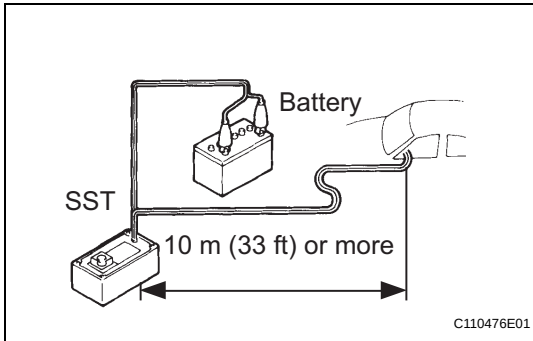
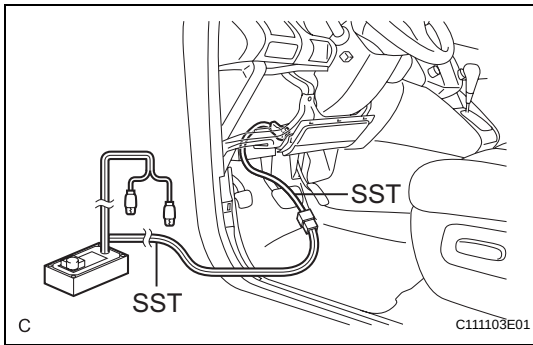
Wait for 90 seconds after disconnecting the cable to prevent the airbag working.

- Remove the instrument panel finish panel sub-assembly lower (See page [IP-12](#)).
- Install the SST.
 - Disconnect the connector from the driver side knee airbag assembly.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.





- (2) Connect the SST connector to the driver side knee airbag assembly.

SST 09082-00700, 09082-00770

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.

- (3) Move the SST at least 10 m (33 ft) away from the vehicle front side window.
(4) Maintaining enough clearance for the SST wire harness in the front side window, close all doors and windows of the vehicle.

NOTICE:

Take care not to damage the SST wire harness.

- (5) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the negative (-) terminal.
(f) Deploy the airbag.
(1) Check that no one is inside the vehicle or within a 10 m (33 ft) radius of the vehicle.
(2) Press the SST activation switch and deploy the airbag.

CAUTION:

- When deploying the airbag, make sure that no one is near the vehicle.
- The driver side knee airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a driver side knee airbag assembly with a deployed airbag.
- Do not apply water, etc. to a driver side knee airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

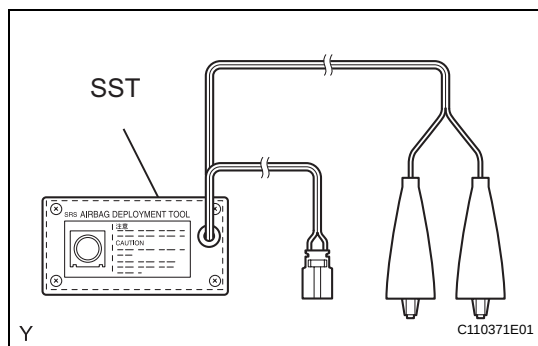
HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

2. DISPOSE OF DRIVER SIDE KNEE AIRBAG ASSEMBLY (WHEN NOT INSTALLED IN VEHICLE)

NOTICE:

- When disposing of the driver side knee airbag assembly, never use the customer's vehicle to deploy the airbag.
- Be sure to follow the procedure detailed below when deploying the airbag.

**HINT:**

Prepare a battery as the power source to deploy the airbag.

- (a) Check the function of the SST (See page [RS-389](#)).
- (b) Remove the driver side knee airbag assembly (See page [RS-403](#)).

CAUTION:

- When removing the driver side knee airbag assembly, work must be started 90 seconds after the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.
- When storing the driver side knee airbag assembly, keep the airbag deployment side facing upward.

- (c) Using a service-purpose wire harness for the vehicle, tie down the driver side knee airbag assembly to the tire.

Wire harness:**Stripped wire harness section**

1.25 mm² or more (0.0019 in.² or more)

CAUTION:

If the wire harness is too thin or an alternative object is used to tie down the driver side knee airbag assembly, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with an area of at least 1.25 mm² (0.0019 in.²).

HINT:

To calculate the area of the stripped wire harness section:

$$\text{Area} = 3.14 \times (\text{Diameter})^2 \text{ divided by } 4$$

- (1) Position the driver side knee airbag assembly inside the tire with the airbag deployment side facing inside.

Tire size:

Must exceed the following dimensions

Width:

185 mm (7.28 in.)

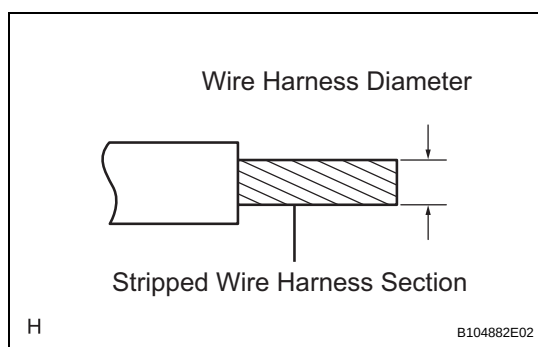
Inner diameter:

360 mm (14.17 in.)

RS

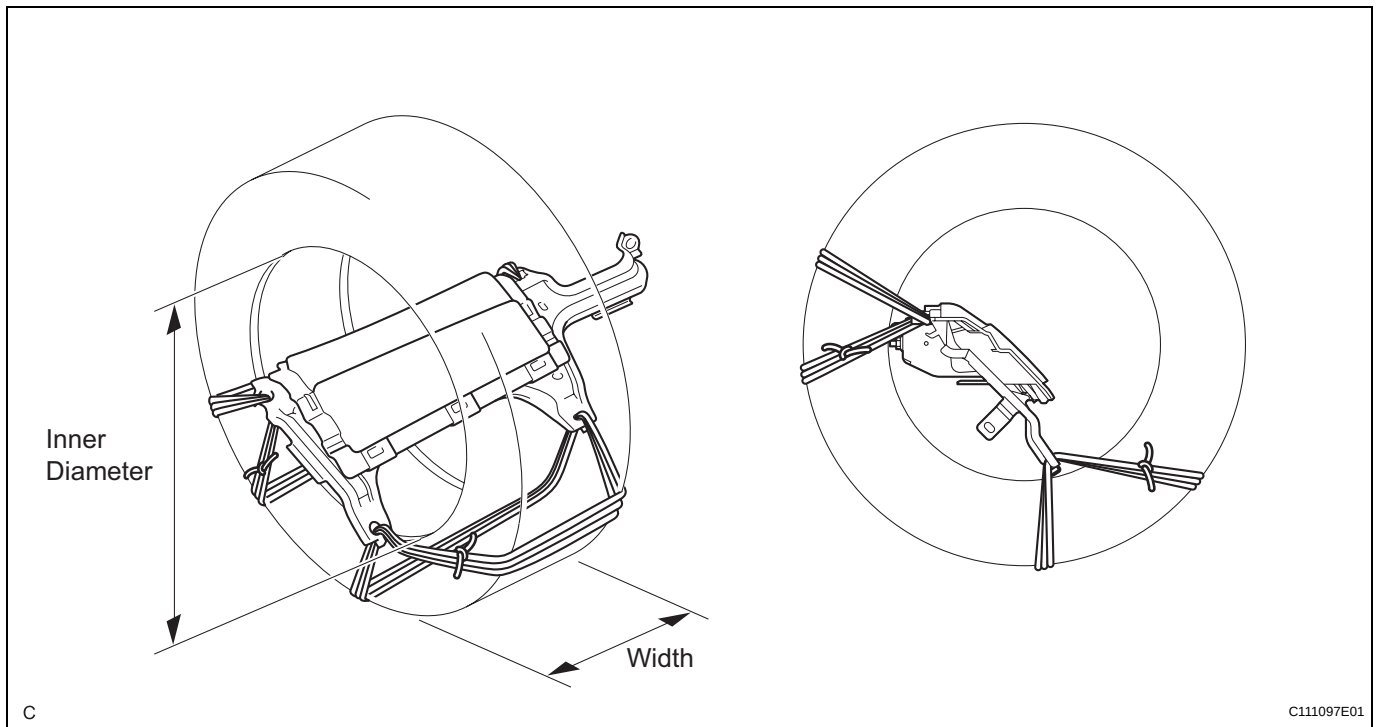
Y

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H

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**CAUTION:**

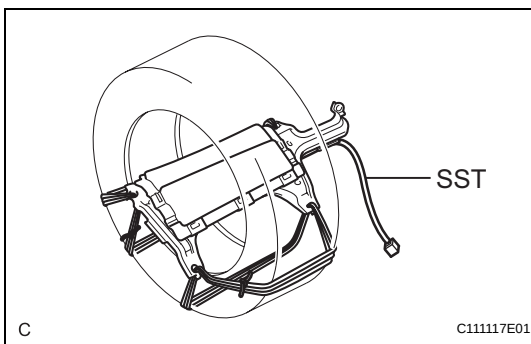
- Make sure that the wire harness is tight. If there is slack in the wire harness, the driver side knee airbag assembly may become loose due to the shock when the airbag is deployed.
- Always tie down the driver side knee airbag assembly with the airbag deployment side facing inside the tire.

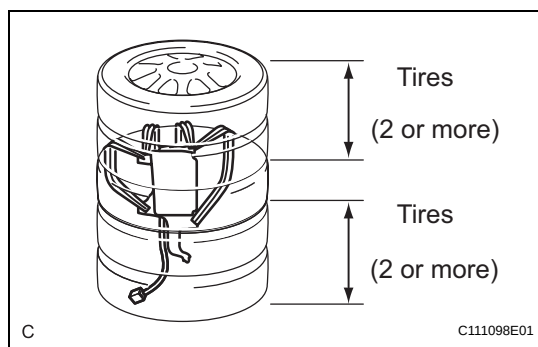
NOTICE:

The tire will be damaged by the airbag deployment, so use an extra tire.

- (d) Install the SST.
- (1) Connect the SST connector to the driver side knee airbag assembly.

SST 09082-00770



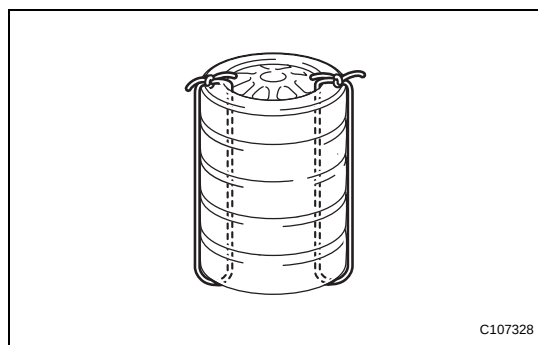


(e) Place the tires.

- (1) Place at least 2 tires under the tire which the driver side knee airbag assembly is tied to.
- (2) Place at least 2 tires over the tire which the driver side knee airbag assembly is tied to. The top tire should have a disc wheel installed.

NOTICE:

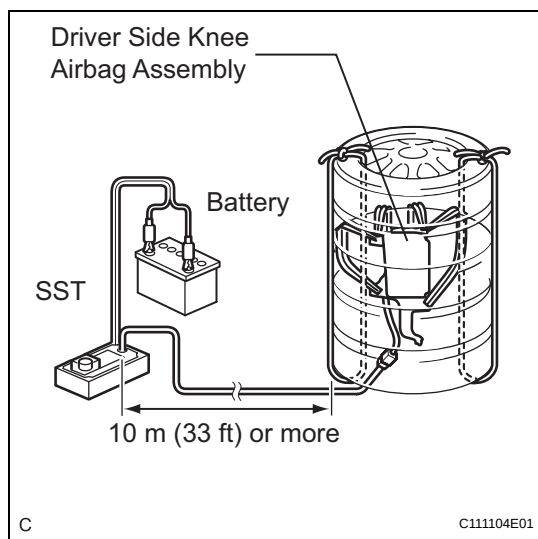
Do not place the SST connector under the tire because it could be damaged.



- (3) Tie the tires together with 2 wire harnesses.

CAUTION:

Make sure that the wire harness is tight. Looseness in the wire harness results in the tires coming free due to the shock when the airbag is deployed.



(f) Install the SST.

- (1) Connect the SST connector.

SST 09082-00700

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tire.

- (2) Move the SST at least 10 m (33 ft) away from the airbag tied down to the tires.

(g) Deploy the airbag.

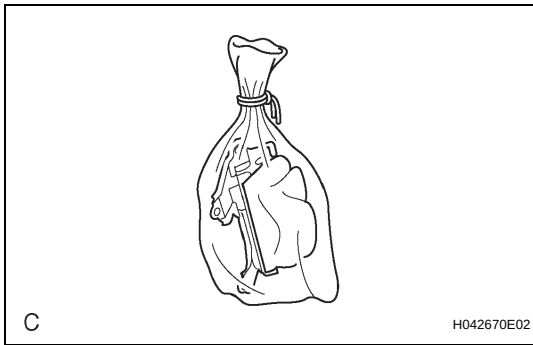
- (1) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the negative (-) terminal.
- (2) Check that no one is within a 10 m (33 ft) radius of the tire which the driver side knee airbag assembly is tied to.
- (3) Press the SST activation switch and deploy the airbag.

CAUTION:

When deploying the airbag, make sure that no one is near the tire.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.



(h) Dispose of the driver side knee airbag assembly.

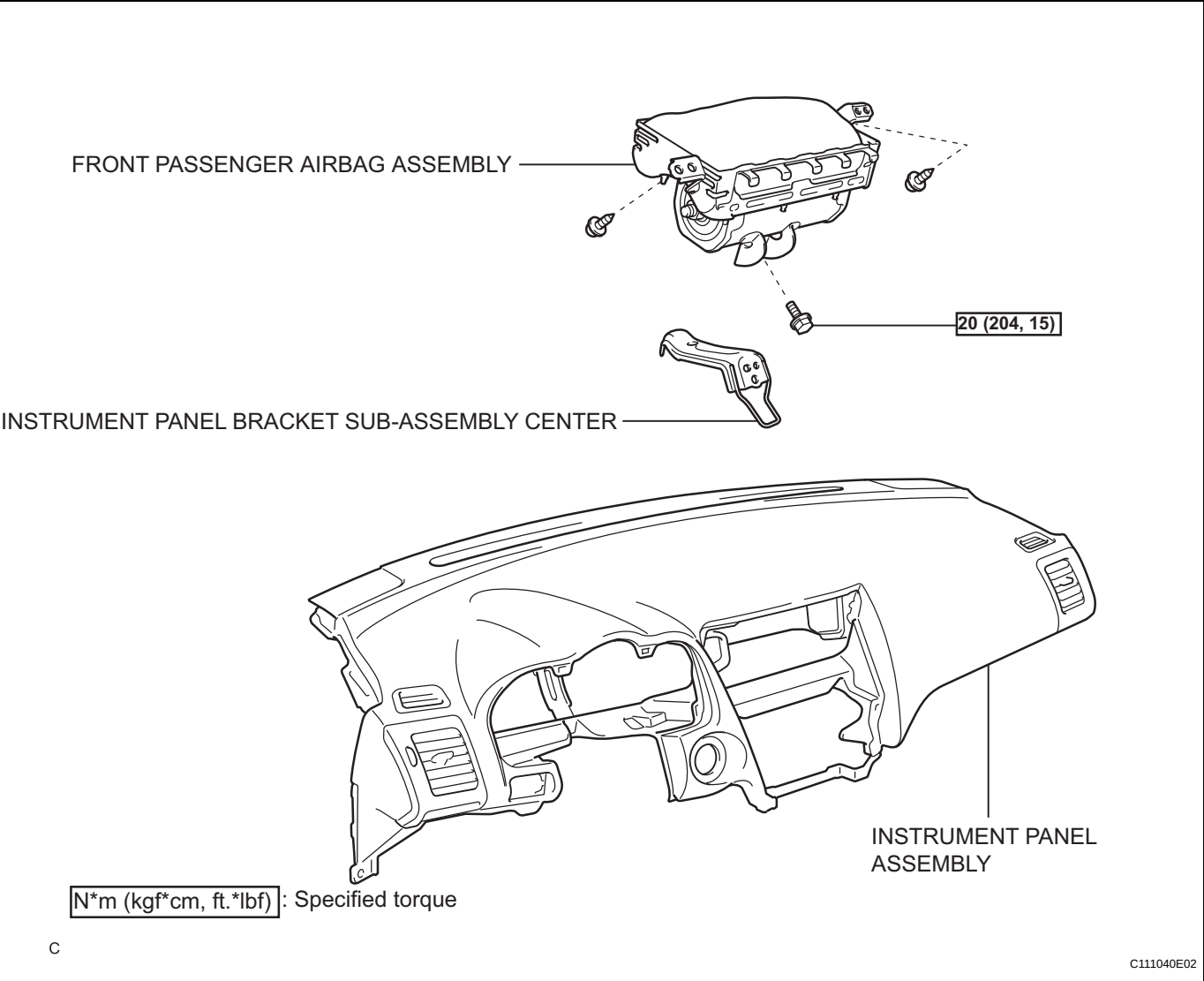
CAUTION:

- The driver side knee airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a driver side knee airbag assembly with a deployed airbag.
- Do not apply water, etc. to a driver side knee airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

- (1) Remove the driver side knee airbag assembly from the tire.
- (2) Place the driver side knee airbag assembly in a plastic bag, tie it tightly and dispose of it as other general part disposal.

FRONT PASSENGER AIRBAG ASSEMBLY

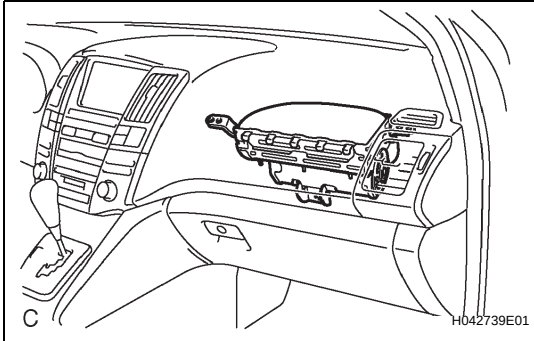
COMPONENTS



ON-VEHICLE INSPECTION

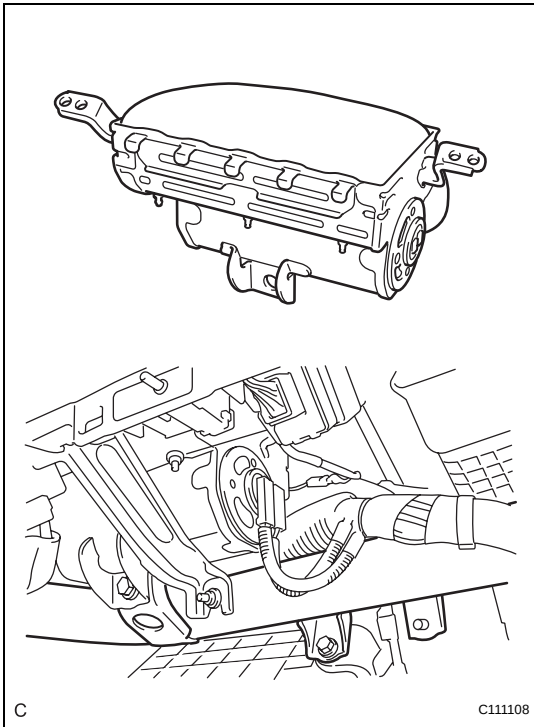
1. INSPECT FRONT PASSENGER AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION)

- (a) Perform a diagnostic system check (See page RS-25).
- (b) With the front passenger airbag assembly installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the instrument panel with a new one:
Cuts, minute cracks or marked discoloration on the instrument panel around the front passenger airbag assembly.



2. INSPECT FRONT PASSENGER AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (a) Perform a diagnostic system check (See page RS-25).
- (b) With the front passenger airbag assembly removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the front passenger airbag assembly, instrument panel or instrument panel reinforcement with a new one:
 - Cuts, minute cracks or marked discoloration on the front passenger airbag assembly.
 - Cracks or other damage to the connectors.
 - Deformation or cracks on the instrument panel or instrument panel reinforcement.



CAUTION:

Be sure to follow the correct removal and installation procedures.

RS

REMOVAL

1. PRECAUTION

CAUTION:

Be sure to read the "PRECAUTION" thoroughly before servicing (See page [RS-1](#)).

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait for 90 seconds after disconnecting the cable to prevent the airbag working.

3. REMOVE FRONT DOOR SCUFF RH PLATE

HINT:

Use the same procedures for the front door scuff RH plate and the front door scuff LH plate (See page [IP-13](#)).

4. REMOVE FRONT DOOR OPENING TRIM RH WEATHERSTRIP

5. REMOVE COWL SIDE TRIM SUB-ASSEMBLY RH

HINT:

Use the same procedures for the cowl side trim sub-assembly RH and the cowl side trim sub-assembly LH (See page [IP-13](#)).

6. REMOVE INSTRUMENT PANEL NO.2 UNDER COVER SUB-ASSEMBLY (See page [IP-13](#))

7. REMOVE GLOVE COMPARTMENT DOOR ASSEMBLY (See page [IP-13](#))

8. DISCONNECT FRONT PASSENGER AIRBAG ASSEMBLY CONNECTOR

- (a) Disconnect the 2 connectors from the front passenger airbag assembly.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

9. REMOVE INSTRUMENT PANEL ASSEMBLY

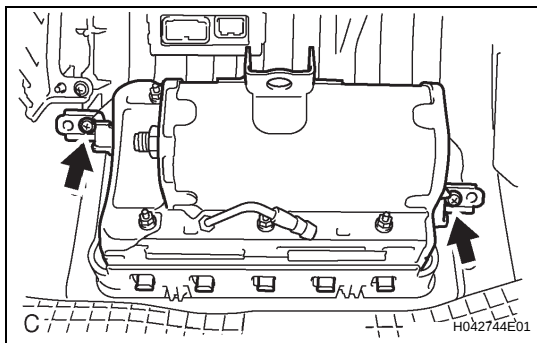
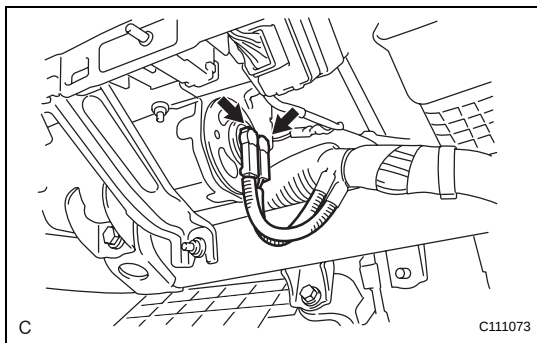
HINT:

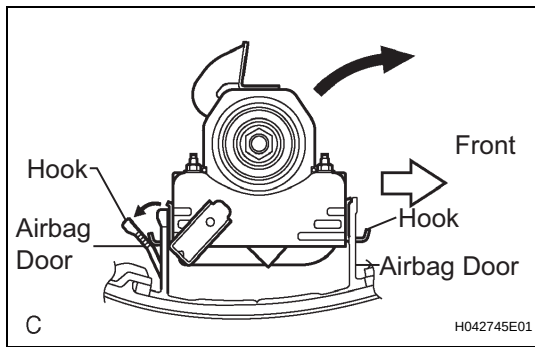
Refer to the procedures up to "REMOVE INSTRUMENT PANEL ASSEMBLY" (See page [IP-15](#)).

10. REMOVE INSTRUMENT PANEL BRACKET SUB-ASSEMBLY CENTER (See page [IP-19](#))

11. REMOVE FRONT PASSENGER AIRBAG ASSEMBLY

- (a) Remove the 2 screws.





- (b) Release the rear side airbag door from the hook by slightly deflecting it and roll the front passenger airbag assembly forward.
- (c) Release the front side airbag door from the other hook and remove the front passenger airbag assembly.

INSTALLATION

1. INSTALL FRONT PASSENGER AIRBAG ASSEMBLY

2. INSTALL INSTRUMENT PANEL BRACKET SUB-ASSEMBLY CENTER (See page [IP-22](#))

3. INSTALL INSTRUMENT PANEL ASSEMBLY

HINT:

Refer to the procedures from "INSTALL INSTRUMENT PANEL ASSEMBLY" (See page [IP-24](#)).

4. CONNECT FRONT PASSENGER AIRBAG ASSEMBLY CONNECTOR

- (a) Connect the 2 connectors to the front passenger airbag assembly.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

5. INSTALL GLOVE COMPARTMENT DOOR ASSY (See page [IP-27](#))

6. INSTALL INSTRUMENT PANEL NO.2 UNDER COVER SUB-ASSEMBLY (See page [IP-28](#))

7. INSTALL COWL SIDE TRIM SUB-ASSY RH

HINT:

Use the same procedures for the cowl side trim sub-assembly RH and the cowl side trim sub-assembly LH (See page [IP-28](#)).

8. INSTALL FRONT DOOR OPENING TRIM RH WEATHERSTRIP

9. INSTALL FRONT DOOR SCUFF RH PLATE

HINT:

Use the same procedures for the front door scuff RH plate and the front door scuff LH plate (See page [IP-28](#)).

10. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

11. PERFORM INITIALIZATION

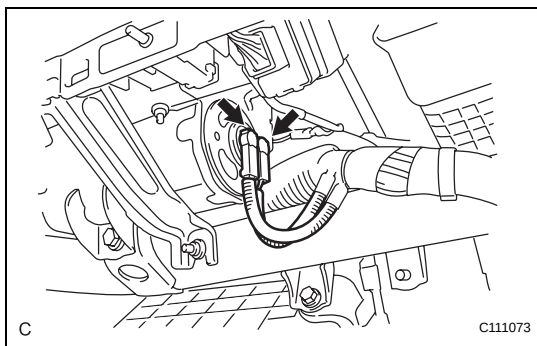
- (a) Perform initialization.

HINT:

Some systems need initialization when disconnecting the cable from the negative battery terminal.

12. INSPECT SRS WARNING LIGHT

- (a) Inspect the SRS warning light (See page [RS-25](#)).



DISPOSAL

HINT:

When scrapping a vehicle equipped with the SRS or disposing of the front passenger airbag assembly, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of the TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION:

- **Never dispose of a front passenger airbag assembly that has an undeployed airbag.**
- **The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.**
- **When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.**
- **When deploying the airbag, perform the operation at least 10 m (33 ft) away from the front passenger airbag assembly.**
- **The front passenger airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a front passenger airbag assembly with a deployed airbag.**
- **Do not apply water, etc. to a front passenger airbag assembly with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

1. DISPOSE OF FRONT PASSENGER AIRBAG ASSEMBLY (WHEN INSTALLED IN VEHICLE)

HINT:

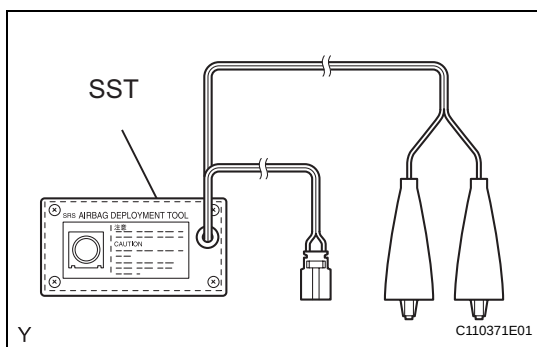
Prepare a battery as the power source to deploy the airbag.

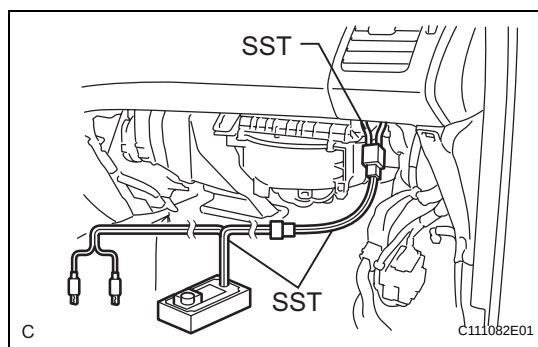
- (a) Check the function of the SST (See page RS-389).
- (b) Precaution (See page RS-1).
- (c) Disconnect the cable from the negative battery terminal.

CAUTION:

Wait for 90 seconds after disconnecting the cable to prevent the airbag working.

- (d) Remove the front door scuff RH plate (See page IP-13).
- (e) Remove the front door opening trim RH weatherstrip.
- (f) Remove the cowl side trim sub-assembly RH (See page IP-13).
- (g) Remove the instrument panel No.2 under cover sub-assembly (See page IP-13).
- (h) Remove the glove compartment door assembly (See page IP-13).





(i) Install the SST.

- (1) Disconnect the 2 connectors from the front passenger airbag assembly.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

- (2) After connecting the SST below to each other, connect them to the front passenger airbag assembly.

SST 09082-00700, 09082-00802 (09082-10801, 09082-30801)

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.

- (3) Move the SST at least 10 m (33 ft) away from the vehicle front side window.
- (4) Maintaining enough clearance for the SST wire harness in the front side window, close all doors and windows of the vehicle.

NOTICE:

Take care not to damage the SST wire harness.

- (5) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the negative (-) terminal.

(j) Deploy the airbag.

- (1) Check that no one is inside the vehicle or within a 10 m (33 ft) radius of the vehicle.
- (2) Press the SST activation switch and deploy the airbag.

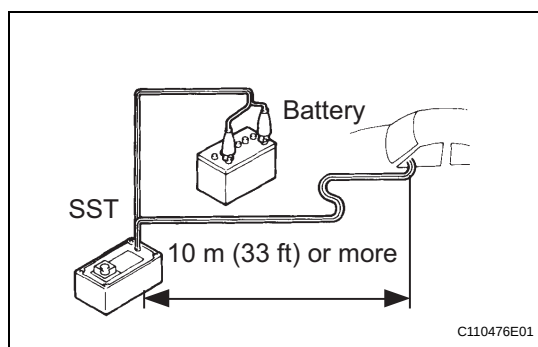
CAUTION:

- **When deploying the airbag, make sure that no one is near the vehicle.**
- **The front passenger airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a front passenger airbag assembly with a deployed airbag.**
- **Do not apply water, etc. to a front passenger airbag assembly with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

RS

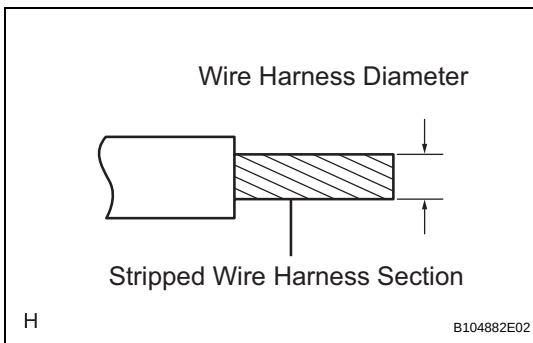
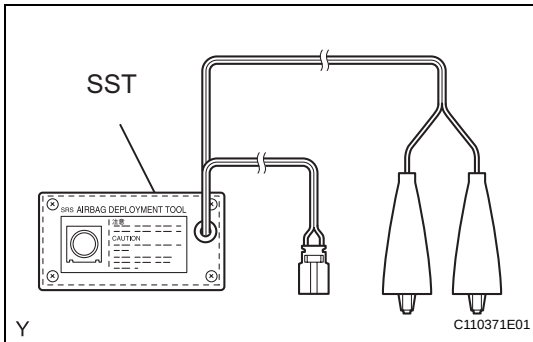


2. DISPOSE OF FRONT PASSENGER AIRBAG ASSEMBLY (WHEN NOT INSTALLED IN VEHICLE) NOTICE:

- When disposing of the front passenger airbag assembly, never use the customer's vehicle to deploy the airbag.
- Be sure to follow the procedure detailed below when deploying the airbag.

HINT:

Prepare a battery as the power source to deploy the airbag.



- Check the function of the SST (See page [RS-389](#)).
- Remove the front passenger airbag assembly (See page [RS-412](#)).

CAUTION:

- When removing the front passenger airbag assembly, work must be started 90 seconds after the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.
 - When storing the front passenger airbag assembly, keep the airbag deployment side facing upward.
- Using a service-purpose wire harness for the vehicle, tie down the front passenger airbag assembly to the tire.

Wire harness:

Stripped wire harness section

1.25 mm² or more (0.0019 in.² or more)

CAUTION:

If the wire harness is too thin or an alternative object is used to tie down the front passenger airbag assembly, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with an area of at least 1.25 mm² (0.0019 in.²).

HINT:

To calculate the area of the stripped wire harness section:

$$\text{Area} = 3.14 \times (\text{Diameter})^2 \text{ divided by } 4$$

- Position the front passenger airbag assembly inside the tire with the airbag deployment side facing inside.

Tire size:

Must exceed the following dimensions

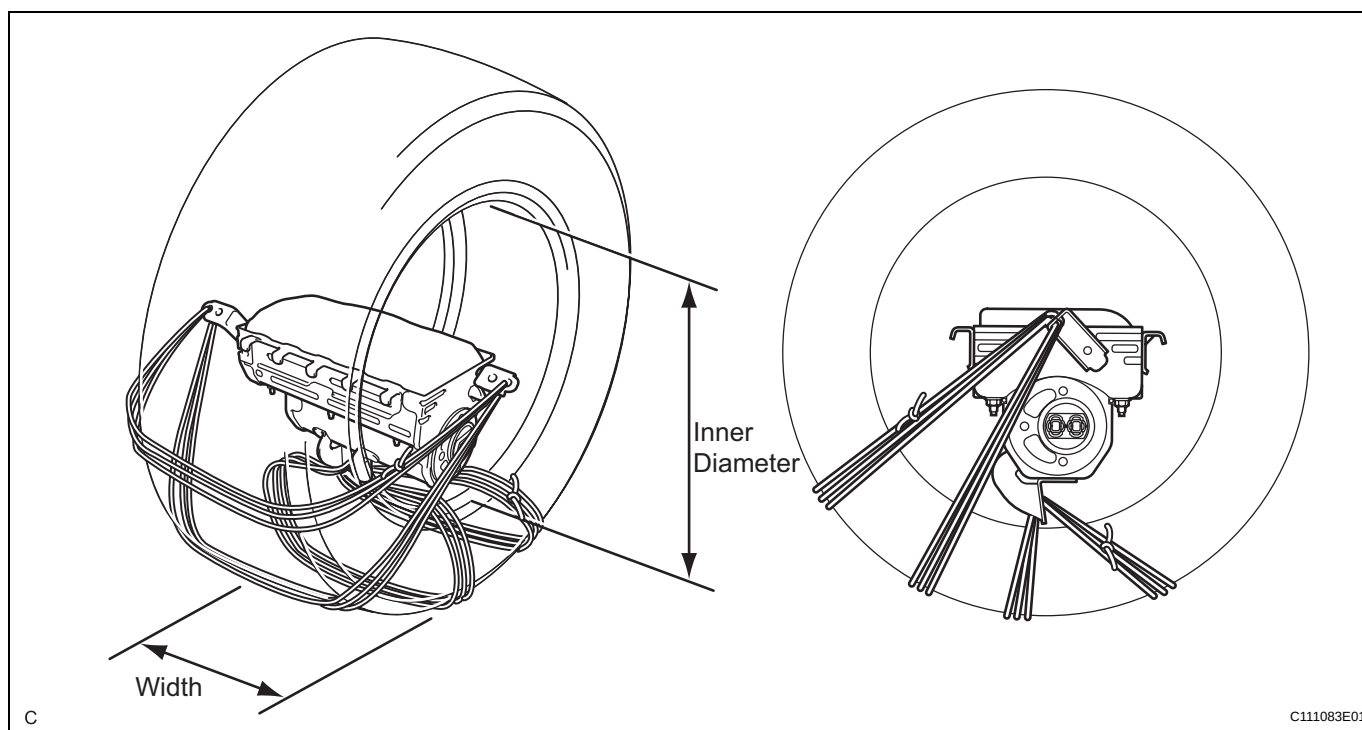
Width:

185 mm (7.28 in.)

Inner diameter:

360 mm (14.17 in.)

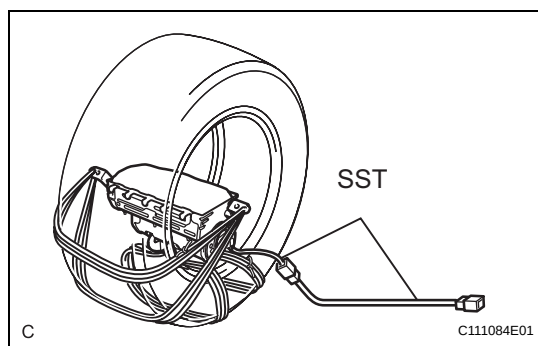
RS

**CAUTION:**

- Make sure that the wire harness is tight. If there is slack in the wire harness, the front passenger airbag assembly may become loose due to the shock when the airbag is deployed.
- Always tie down the front passenger airbag assembly with the airbag deployment side facing inside the tire.

NOTICE:

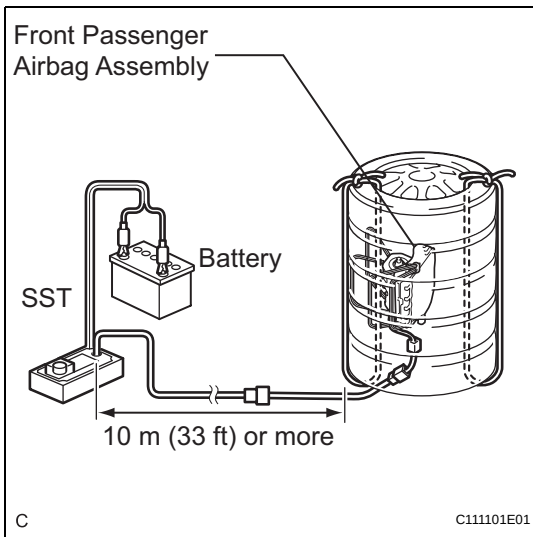
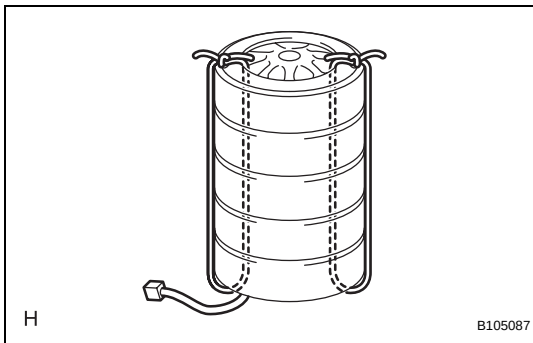
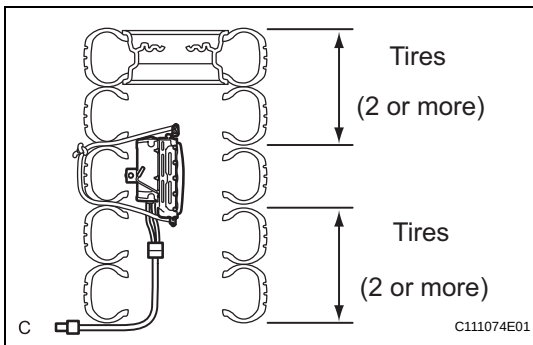
The tire will be damaged by the airbag deployment, so use an extra tire.



(d) Install the SST.

- (1) After connecting the SST below to each other, connect them to the front passenger airbag assembly.

SST 09082-00802 (09082-10801, 09082-30801)



(e) Place the tires.

- (1) Place at least 2 tires under the tire which the front passenger airbag assembly is tied to.
- (2) Place at least 2 tires over the tire which the front passenger airbag assembly is tied to. The top tire should have a disc wheel installed.

NOTICE:

Do not place the SST connector under the tire because it could be damaged.

- (3) Tie the tires together with 2 wire harnesses.

CAUTION:

Make sure that the wire harness is tight. Looseness in the wire harness results in the tires coming free due to the shock when the airbag is deployed.

RS

(f) Install the SST.

- (1) Connect the SST connector.

SST 09082-00700

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tire.

- (2) Move the SST at least 10 m (33 ft) away from the airbag tied down to the tires.

(g) Deploy the airbag.

- (1) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the negative (-) terminal.
- (2) Check that no one is within a 10 m (33 ft) radius of the tire which the front passenger airbag assembly is tied to.
- (3) Press the SST activation switch and deploy the airbag.

CAUTION:

When deploying the airbag, make sure that no one is near the tire.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.



- (h) Dispose of the front passenger airbag assembly.

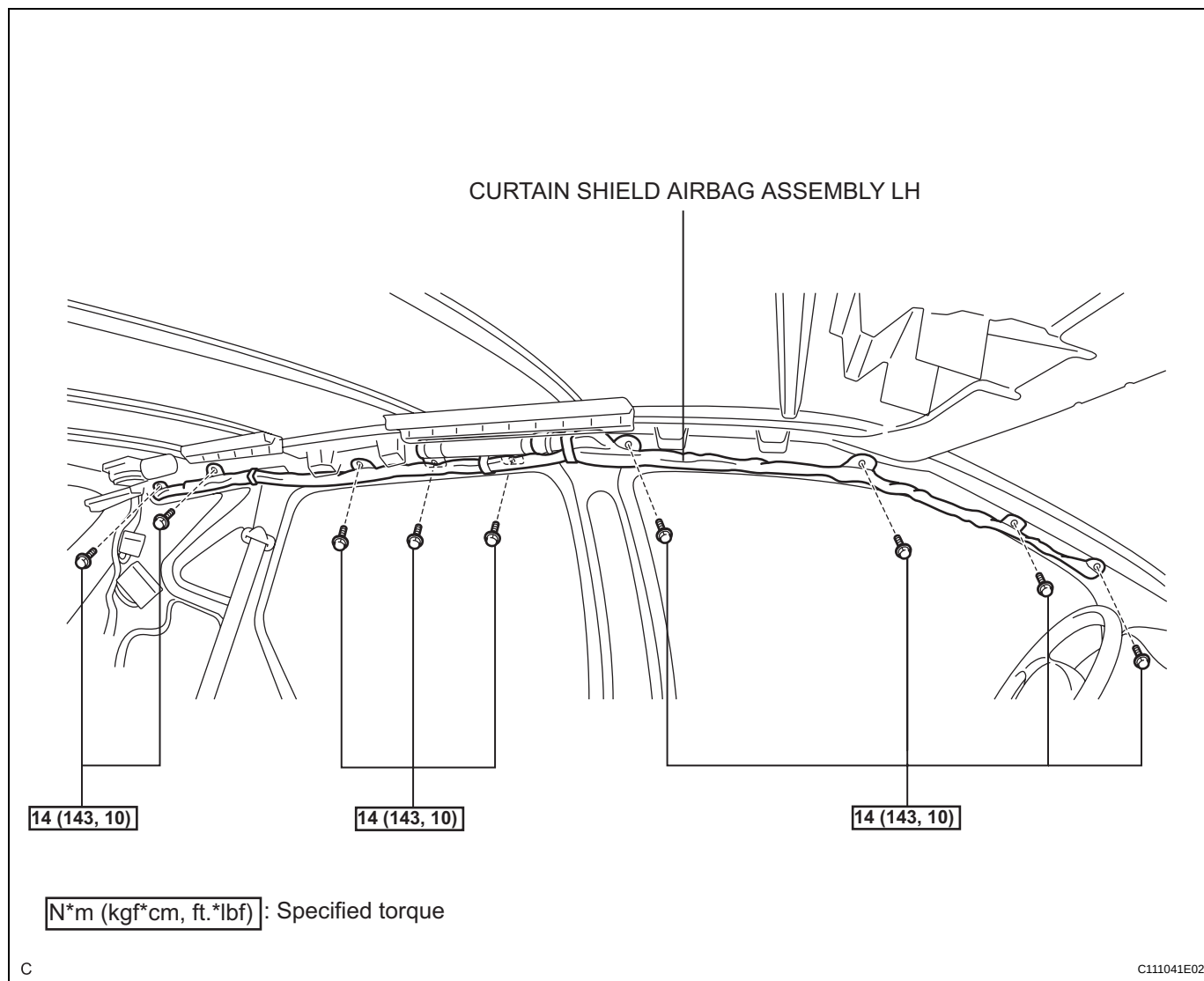
CAUTION:

- The front passenger airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a front passenger airbag assembly with a deployed airbag.
- Do not apply water, etc. to a front passenger airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

- (1) Remove the front passenger airbag assembly from the tire.
- (2) Place the front passenger airbag assembly in a plastic bag, tie it tightly and dispose of it as other general part disposal.

CURTAIN SHIELD AIRBAG ASSEMBLY

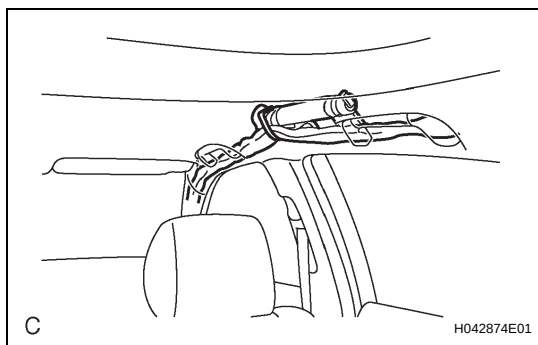
COMPONENTS



ON-VEHICLE INSPECTION

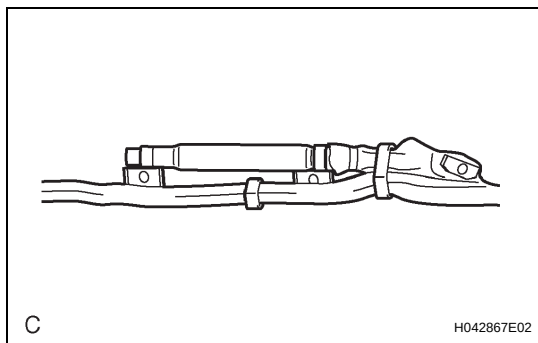
1. INSPECT CURTAIN SHIELD AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION)

- (a) Perform a diagnostic system check (See page [RS-25](#)).
- (b) With the curtain shield airbag assembly installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the front pillar garnish or roof headlining assembly with a new one: Cuts, minute cracks or marked discoloration on the front pillar garnish or roof headlining assembly around the curtain shield airbag assembly.



2. INSPECT CURTAIN SHIELD AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (a) Perform a diagnostic system check (See page [RS-25](#)).
- (b) With the curtain shield airbag assembly removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the curtain shield airbag assembly with a new one:
 - Cuts, minute cracks or marked discoloration on the curtain shield airbag assembly.
 - Cracks or other damage to the connector.



CAUTION:

Be sure to follow the correct removal and installation procedures.

REMOVAL

HINT:

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

1. PRECAUTION

CAUTION:

Be sure to read the "PRECAUTION" thoroughly before servicing (See page [RS-1](#)).

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait for 90 seconds after disconnecting the cable to prevent the airbag working.

3. REMOVE ROOF HEADLINING ASSEMBLY

HINT:

Refer to the procedures up to "REMOVE ROOF HEADLINING ASSEMBLY" (See page [RF-42](#)).

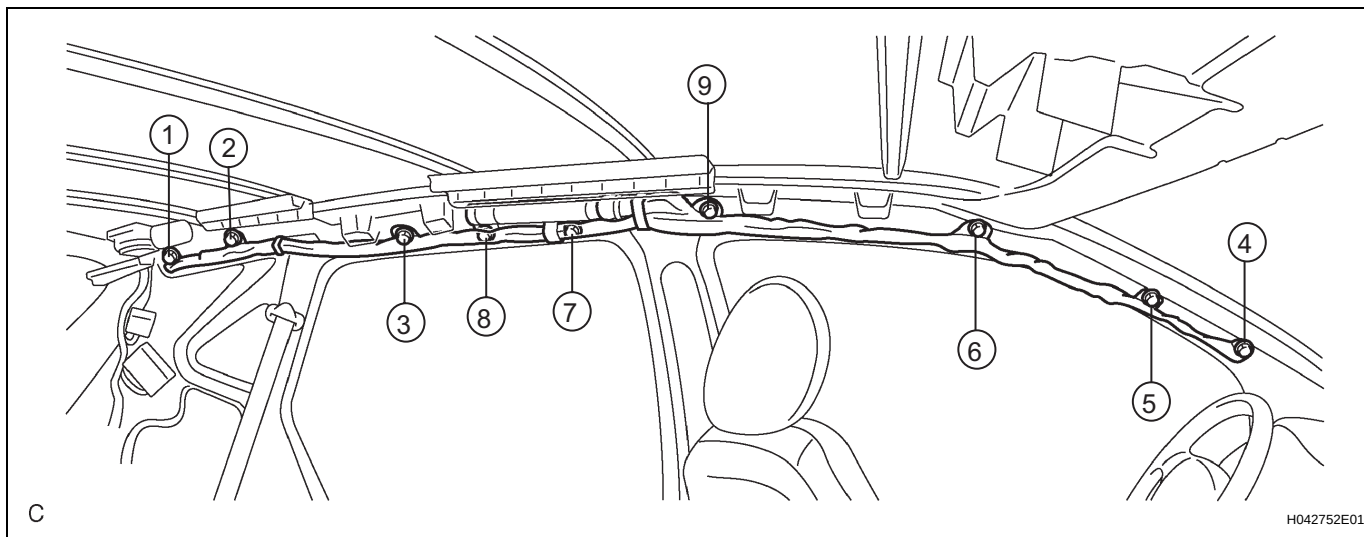
4. REMOVE CURTAIN SHIELD AIRBAG ASSEMBLY LH

- (a) Disconnect the connector from the curtain shield airbag assembly LH.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

- (b) Remove the 9 bolts and the curtain shield airbag assembly LH in order shown in the illustration.



INSTALLATION

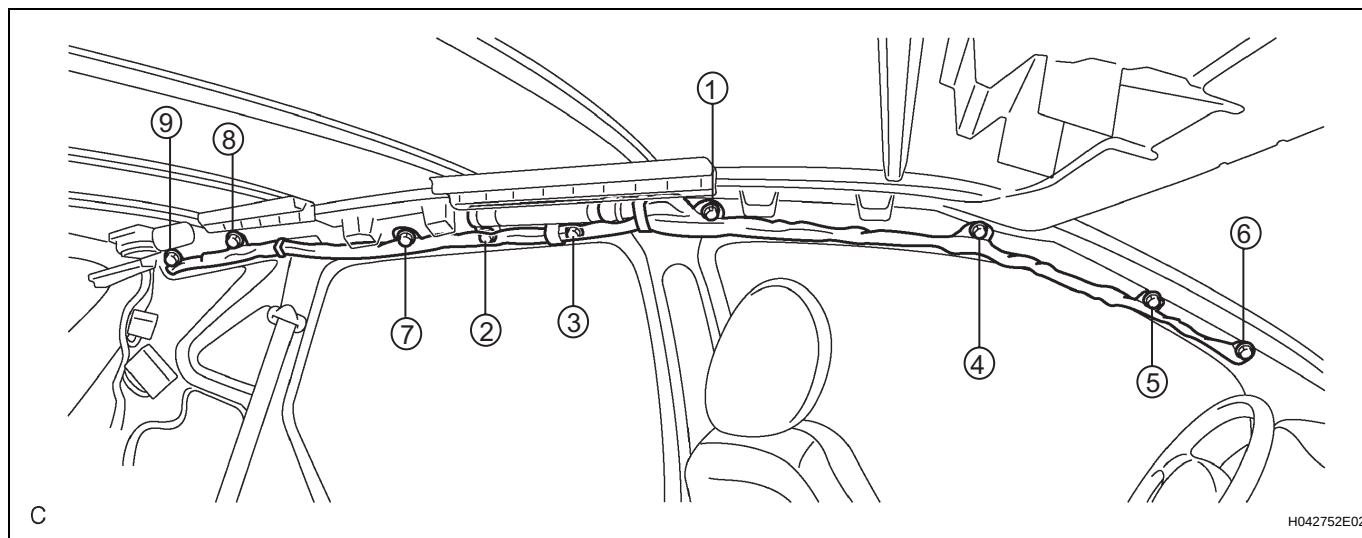
HINT:

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

1. INSTALL CURTAIN SHIELD AIRBAG ASSEMBLY LH

- (a) Install the curtain shield airbag assembly LH with the 9 bolts in order shown in the illustration.

Torque: 14 N*m (143 kgf*cm, 10 ft.*lbf)



NOTICE:

Do not twist the curtain shield airbag assembly LH when installing it.

- (b) Connect the connector to the curtain shield airbag assembly LH.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

2. INSTALL ROOF HEADLINING ASSEMBLY

HINT:

Refer to the procedures from "INSTALL ROOF HEADLINING ASSEMBLY" (See page [RF-52](#)).

3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

4. PERFORM INITIALIZATION

- (a) Perform initialization.

HINT:

Some systems need initialization when disconnecting the cable from the negative battery terminal.

5. INSPECT SRS WARNING LIGHT

- (a) Inspect the SRS warning light (See page [RS-25](#)).

DISPOSAL

HINT:

- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.
- When scrapping a vehicle equipped with the SRS or disposing of the curtain shield airbag assembly, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION:

- **Never dispose of a curtain shield airbag assembly that has an undeployed airbag.**
- **The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.**
- **When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.**
- **When deploying the airbag, perform the operation at least 10 m (33 ft) away from the curtain shield airbag assembly.**
- **The curtain shield airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a curtain shield airbag assembly with a deployed airbag.**
- **Do not apply water, etc. to a curtain shield airbag assembly with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

1. DISPOSE OF CURTAIN SHIELD AIRBAG ASSEMBLY (WHEN INSTALLED IN VEHICLE)

HINT:

Prepare a battery as the power source to deploy the airbag.

- Check the function of the SST (See page [RS-389](#)).
- Precaution (See page [RS-1](#)).
- Disconnect the cable from the negative battery terminal.

CAUTION:

Wait for 90 seconds after disconnecting the cable to prevent the airbag working.

- Remove the roof headlining assembly.

HINT:

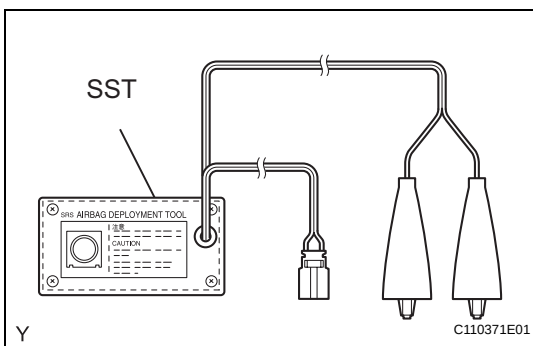
Refer to the procedures up to "REMOVE ROOF HEADLINING ASSEMBLY" (See page [RF-42](#)).

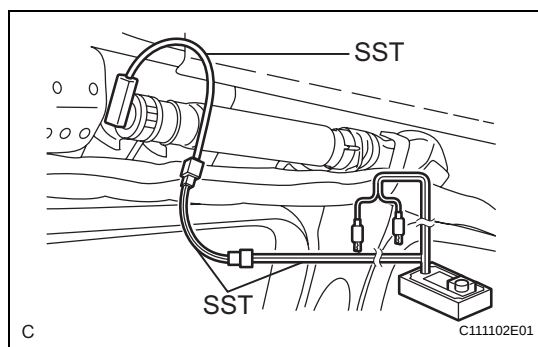
- Install the SST.

- Disconnect the connector from the curtain shield airbag assembly.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.



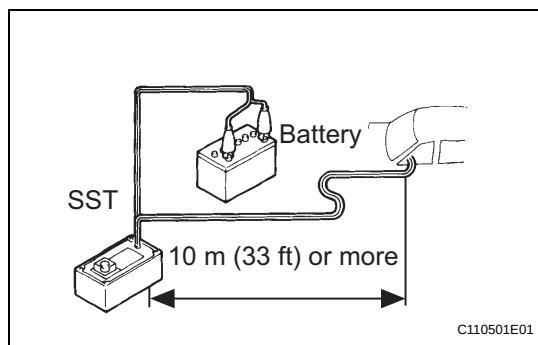


- (2) After connecting the SST below to each other, connect them to the curtain shield airbag assembly.

SST 09082-00700, 09082-00802 (09082-10801, 09082-20801)

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.



- (3) Move the SST at least 10 m (33 ft) away from the vehicle rear side window.
 (4) Maintaining enough clearance for the SST wire harness in the rear side window, close all doors and windows of the vehicle.

NOTICE:

Take care not to damage the SST wire harness.

- (5) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the negative (-) terminal.
 (f) Deploy the airbag.
 (1) Check that no one is inside the vehicle or within a 10 m (33 ft) radius of the vehicle.
 (2) Press the SST activation switch and deploy the airbag.

CAUTION:

- When deploying the airbag, make sure that no one is near the vehicle.
- The curtain shield airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a curtain shield airbag assembly with a deployed airbag.
- Do not apply water, etc. to a curtain shield airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

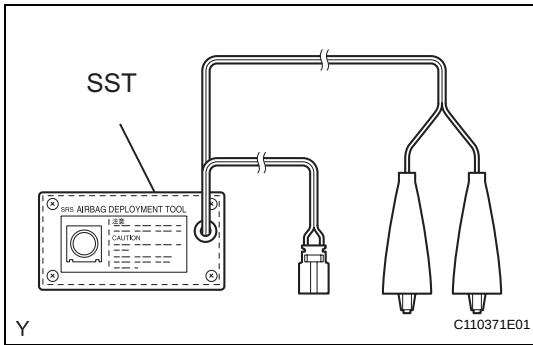
HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

2. DISPOSE OF CURTAIN SHIELD AIRBAG ASSEMBLY (WHEN NOT INSTALLED IN VEHICLE)

NOTICE:

- When disposing of the curtain shield airbag assembly, never use the customer's vehicle to deploy the airbag.
- Be sure to follow the procedure detailed below when deploying the airbag.

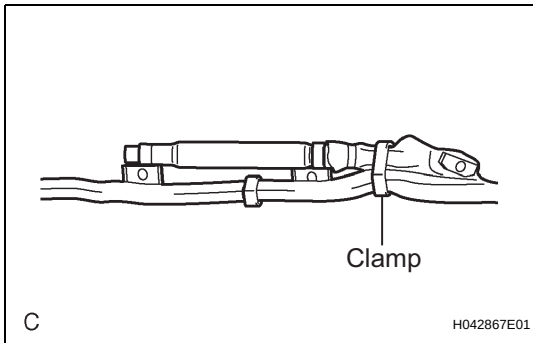
**HINT:**

Prepare a battery as the power source to deploy the airbag.

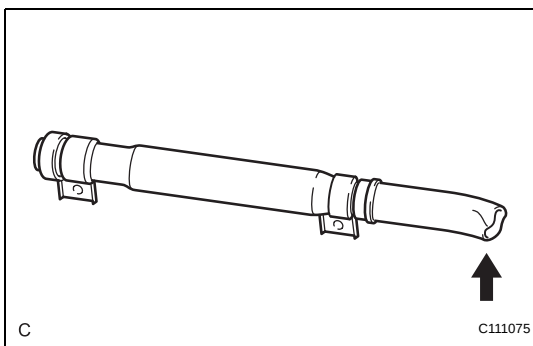
- (a) Check the function of the SST (See page RS-389).
- (b) Remove the curtain shield airbag assembly (See page RS-420).

CAUTION:

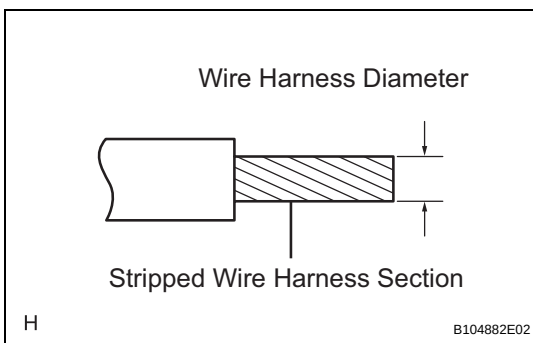
When removing the curtain shield airbag assembly, work must be started 90 seconds after the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.



- (c) Remove the clamp from the curtain shield airbag assembly.



- (d) Cut off the deployment section of the curtain shield airbag assembly.



- (e) Using a service-purpose wire harness for the vehicle, tie down the curtain shield airbag assembly to the tire.

Wire harness:**Stripped wire harness section**

1.25 mm² or more (0.0019 in.² or more)

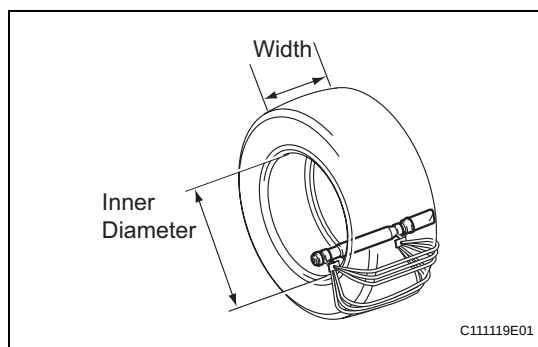
CAUTION:

If the wire harness is too thin or an alternative object is used to tie down the curtain shield airbag assembly, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with an area of at least 1.25 mm² (0.0019 in.²).

HINT:

To calculate the area of the stripped wire harness section:

$$\text{Area} = 3.14 \times (\text{Diameter})^2 \text{ divided by } 4$$



- (1) Position the curtain shield airbag assembly inside the tire as shown in the illustration.

Tire size:

Must exceed the following dimensions

Width:

185 mm (7.28 in.)

Inner diameter:

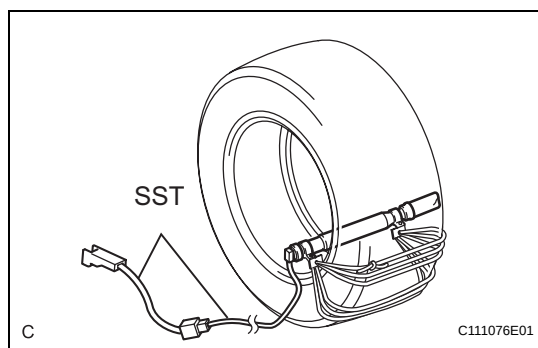
360 mm (14.17 in.)

CAUTION:

Make sure that the wire harness is tight. If there is slack in the wire harness, the curtain shield airbag assembly may become loose due to the shock when the airbag is deployed.

NOTICE:

The tire will be damaged by the airbag deployment, so use an extra tire.

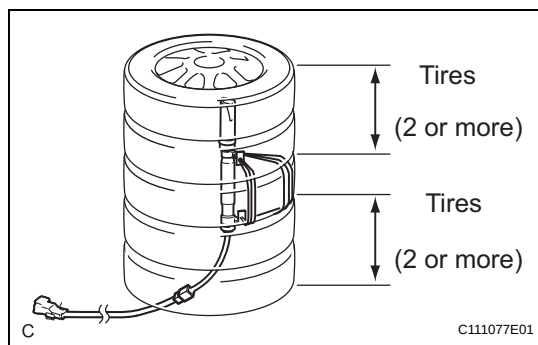


- (f) Install the SST.
- (1) After connecting the SST below to each other, connect them to the curtain shield airbag assembly.
- SST 09082-00802 (09082-10801, 09082-20801)**

- (g) Place the tires.

CAUTION:

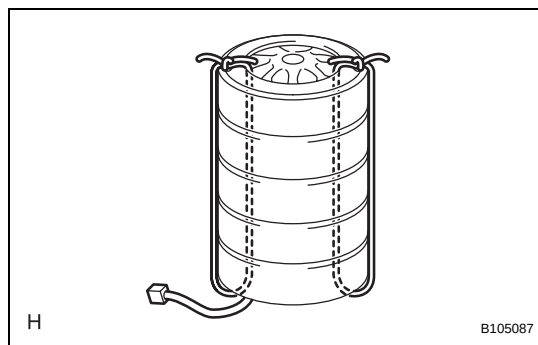
Do not face the deployment direction of the curtain shield airbag assembly toward the ground.



- (1) Place at least 2 tires under the tire which the curtain shield airbag assembly is tied to.
- (2) Place at least 2 tires over the tire which the curtain shield airbag assembly is tied to. The top tire should have a disc wheel installed.

NOTICE:

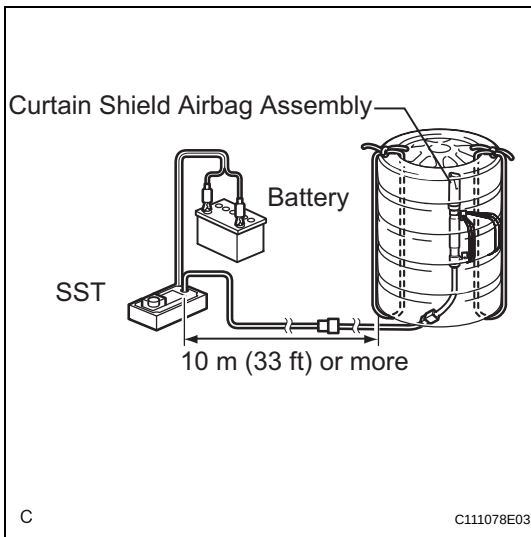
Do not place the SST connector under the tire because it could be damaged.



- (3) Tie the tires together with 2 wire harnesses.

CAUTION:

Make sure that the wire harness is tight. Looseness in the wire harness results in the tires coming free due to the shock when the airbag is deployed.



(h) Install the SST.

(1) Connect the SST connector.

SST 09082-00700

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tire.

(2) Move the SST at least 10 m (33 ft) away from the airbag tied down to the tires.

(i) Deploy the airbag.

(1) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the negative (-) terminal.

(2) Check that no one is within a 10 m (33 ft) radius of the tire which the curtain shield airbag assembly is tied to.

(3) Press the SST activation switch and deploy the airbag.

CAUTION:

When deploying the airbag, make sure that no one is near the tire.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

(j) Dispose of the curtain shield airbag assembly.

CAUTION:

- The curtain shield airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a curtain shield airbag assembly with a deployed airbag.
- Do not apply water, etc. to a curtain shield airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

(1) Remove the curtain shield airbag assembly from the tire.

(2) Place the curtain shield airbag assembly in a plastic bag, tie it tightly and dispose of it as other general part disposal.

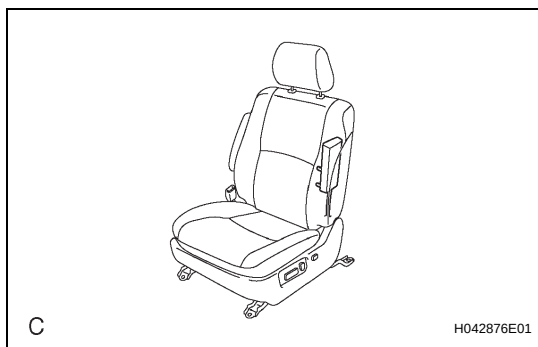


FRONT SEAT SIDE AIRBAG ASSEMBLY

ON-VEHICLE INSPECTION

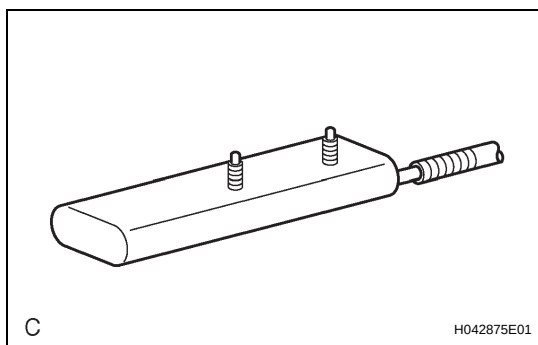
1. FRONT SEAT SIDE AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION)

- (a) Perform a diagnostic system check (See page [RS-25](#)).
- (b) With the front seat side airbag assembly installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the front seatback assembly with a new one:
Cuts, minute cracks or marked discoloration on the front seatback assembly around the front seat side airbag assembly.



2. FRONT SEAT SIDE AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (a) Perform a diagnostic system check (See page [RS-25](#)).
- (b) With the front seat side airbag assembly removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the front seat side airbag assembly with a new one:
 - Cuts, minute cracks or marked discoloration on the front seat side airbag assembly.
 - Cracks or other damage to the wire harness or connector.



CAUTION:

Be sure to follow the correct removal and installation procedures.

DISPOSAL

HINT:

- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.
- When scrapping a vehicle equipped with the SRS or disposing of the front seat side airbag assembly, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION:

- **Never dispose of a front seat side airbag assembly that has an undeployed airbag.**
- **The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.**
- **When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.**
- **When deploying the airbag, perform the operation at least 10 m (33 ft) away from the airbag assembly.**
- **The front seat side airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a front seat side airbag assembly with a deployed airbag.**
- **Do not apply water, etc. to a front seat side airbag assembly with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

1. DISPOSE OF FRONT SEAT SIDE AIRBAG ASSEMBLY (WHEN INSTALLED IN VEHICLE)

HINT:

Prepare a battery as the power source to deploy the airbag.

- Check the function of the SST (See page [RS-389](#)).
- Precaution (See page [RS-1](#)).
- Disconnect the cable from the negative battery terminal.

CAUTION:

Wait for 90 seconds after disconnecting the cable to prevent the airbag working.

- Remove the 4 bolts from the front seat assembly (See page [SE-38](#)).

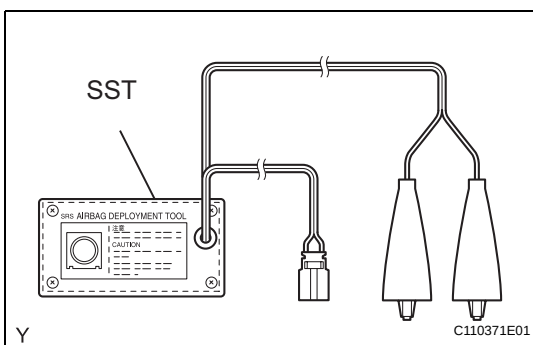
HINT:

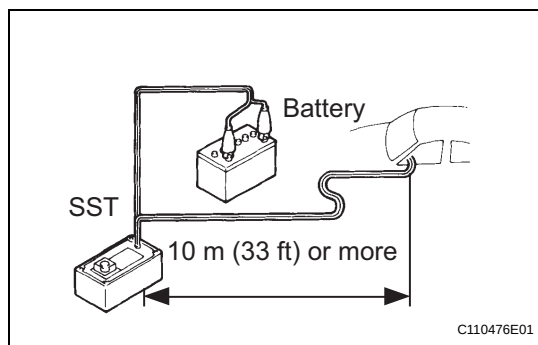
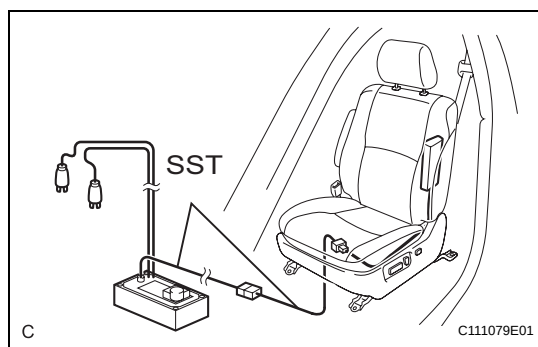
Keep the front seat assembly in the cabin.

- Install the SST.
 - Disconnect the connector (yellow colored one) from the front seat side airbag assembly.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.





- (2) Connect the SST connector to the front seat side airbag assembly connector.

SST 09082-00700, 09082-00750

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.

- (3) Install the 4 bolts to the front seat assembly (See page [SE-45](#)).

- (4) Move the SST at least 10 m (33 ft) away from the vehicle front side window.

- (5) Maintaining enough clearance for the SST wire harness in the front side window, close all doors and windows of the vehicle.

NOTICE:

Take care not to damage the SST wire harness.

- (6) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the negative (-) terminal.

- (f) Deploy the airbag.

- (1) Check that no one is inside the vehicle or within a 10 m (33 ft) radius of the vehicle.

- (2) Press the SST activation switch and deploy the airbag.

CAUTION:

- When deploying the airbag, make sure that no one is near the vehicle.
- The front seat side airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a front seat side airbag assembly with a deployed airbag.
- Do not apply water, etc. to a front seat side airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

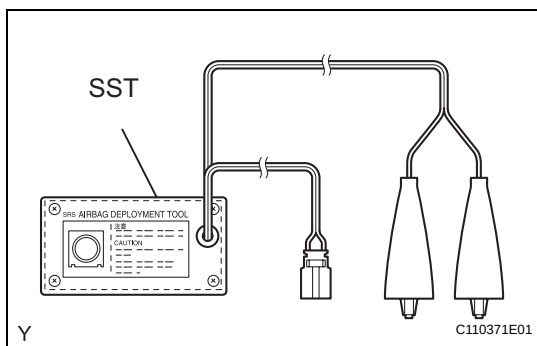
HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

2. DISPOSE OF FRONT SEAT SIDE AIRBAG ASSEMBLY (WHEN NOT INSTALLED IN VEHICLE)

NOTICE:

- When disposing of the front seat side airbag assembly, never use the customer's vehicle to deploy the airbag.
- Be sure to follow the procedure detailed below when deploying the airbag.

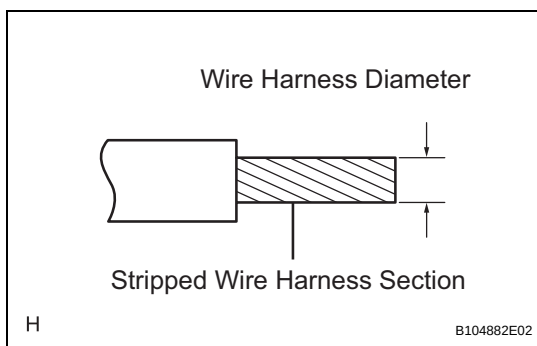
**HINT:**

Prepare a battery as the power source to deploy the airbag.

- (a) Check the function of the SST (See page RS-389).
- (b) Remove the front seat side airbag assembly.
 - (1) Remove the front seat assembly (See page SE-38).
 - (2) Remove the 2 nuts and the front seat side airbag assembly from the seatback assembly.

CAUTION:

- When removing the front seat side airbag assembly, work must be started 90 seconds after the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.
- When storing the front seat side airbag assembly, keep the airbag deployment side facing upward.

RS

- (c) Using a service-purpose wire harness for the vehicle, tie down the front seat side airbag assembly to the tire.

Wire harness:**Stripped wire harness section**

1.25 mm² or more (0.0019 in.² or more)

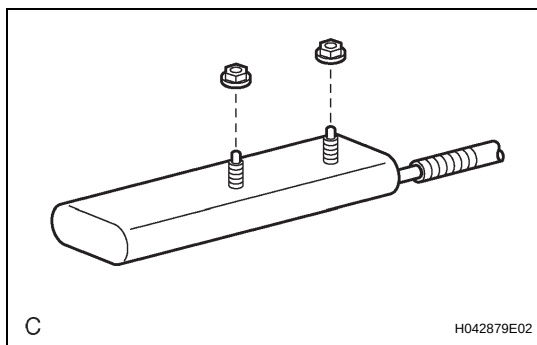
HINT:

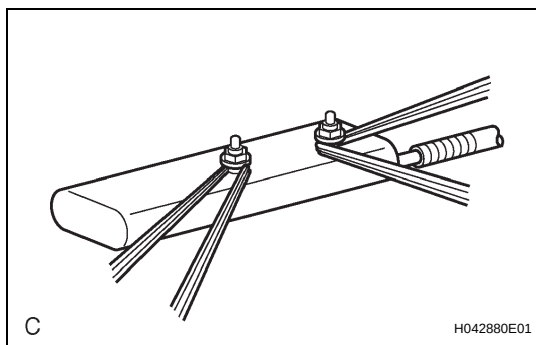
To calculate the area of the stripped wire harness section:

Area = 3.14 x (Diameter)² divided by 4

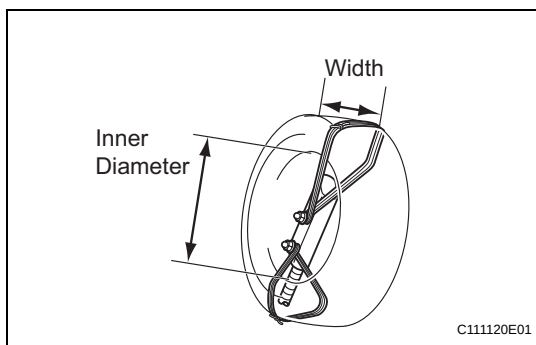
CAUTION:

If the wire harness is too thin or an alternative object is used to tie down the front seat side airbag assembly, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with an area of at least 1.25 mm² (0.0019 in.²).





- (2) Wind the wire harness around each of the stud bolts of the front seat side airbag assembly as shown in the illustration.



- (3) Position the front seat side airbag assembly inside the tire as shown in the illustration.

Tire size:

Must exceed the following dimensions

Width:

185 mm (7.28 in.)

Inner diameter:

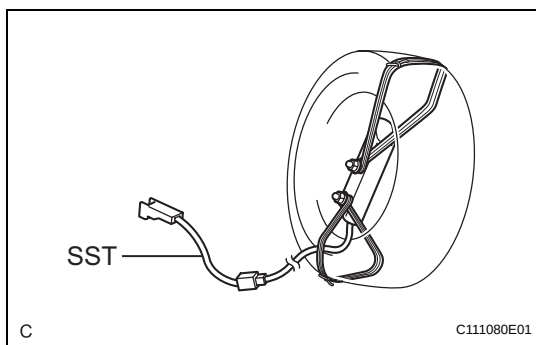
360 mm (14.17 in.)

CAUTION:

- **Make sure that the wire harness is tight.** If there is slack in the wire harness, the front seat side airbag assembly may become loose due to the shock when the airbag is deployed.
- **Always tie down the front seat side airbag assembly with the airbag deployment direction facing inside the tire.**

NOTICE:

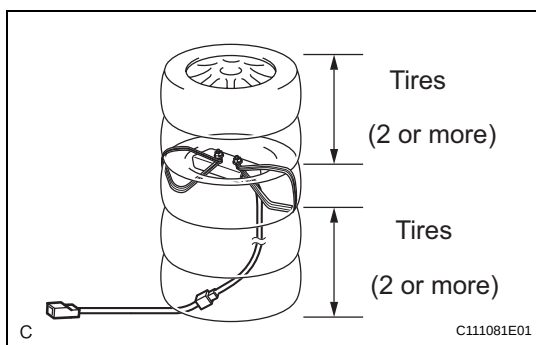
The tire will be damaged by the airbag deployment, so use an extra tire.



- (d) Install the SST.

- (1) Connect the SST connector to the front seat side airbag assembly connector.

SST 09082-00750

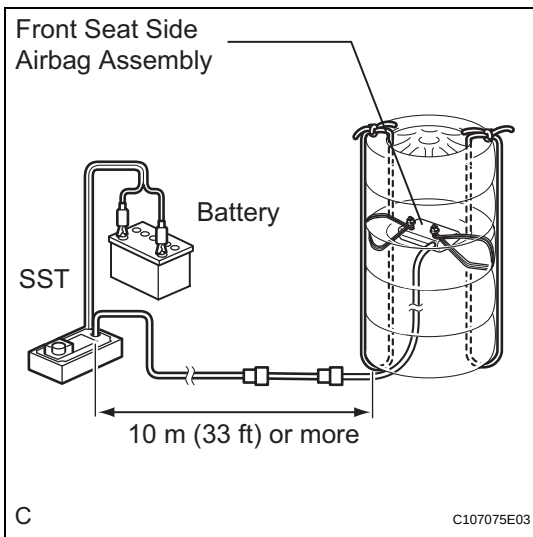
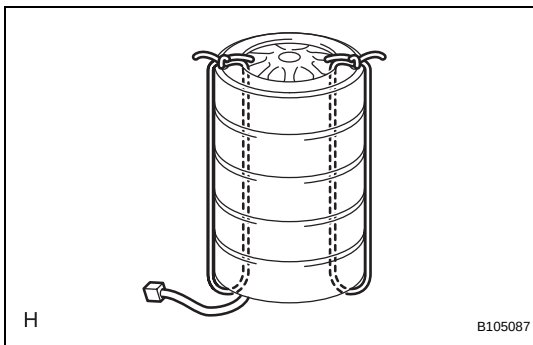


- (e) Place the tires.

- (1) Place at least 2 tires under the tire which the front seat side airbag assembly is tied to.
- (2) Place at least 2 tires over the tire which the front seat side airbag assembly is tied to. The top tire should have a disc wheel installed.

NOTICE:

Do not place the SST connector under the tire because it could be damaged.



- (3) Tie the tires together with 2 wire harnesses.

CAUTION:

Make sure that the wire harness is tight. Looseness in the wire harness results in the tires coming free due to the shock when the airbag is deployed.

- (f) Install the SST.

- (1) Connect the SST connector.

SST 09082-00700

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tire.

- (2) Move the SST at least 10 m (33 ft) away from the airbag tied down to the tires.

- (g) Deploy the airbag.

- (1) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the negative (-) terminal.
- (2) Check that no one is within a 10 m (33 ft) radius of the tire which the front seat side airbag assembly is tied to.
- (3) Press the SST activation switch and deploy the airbag.

CAUTION:

When deploying the airbag, make sure that no one is near the tire.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

- (h) Dispose of the front seat side airbag assembly.

CAUTION:

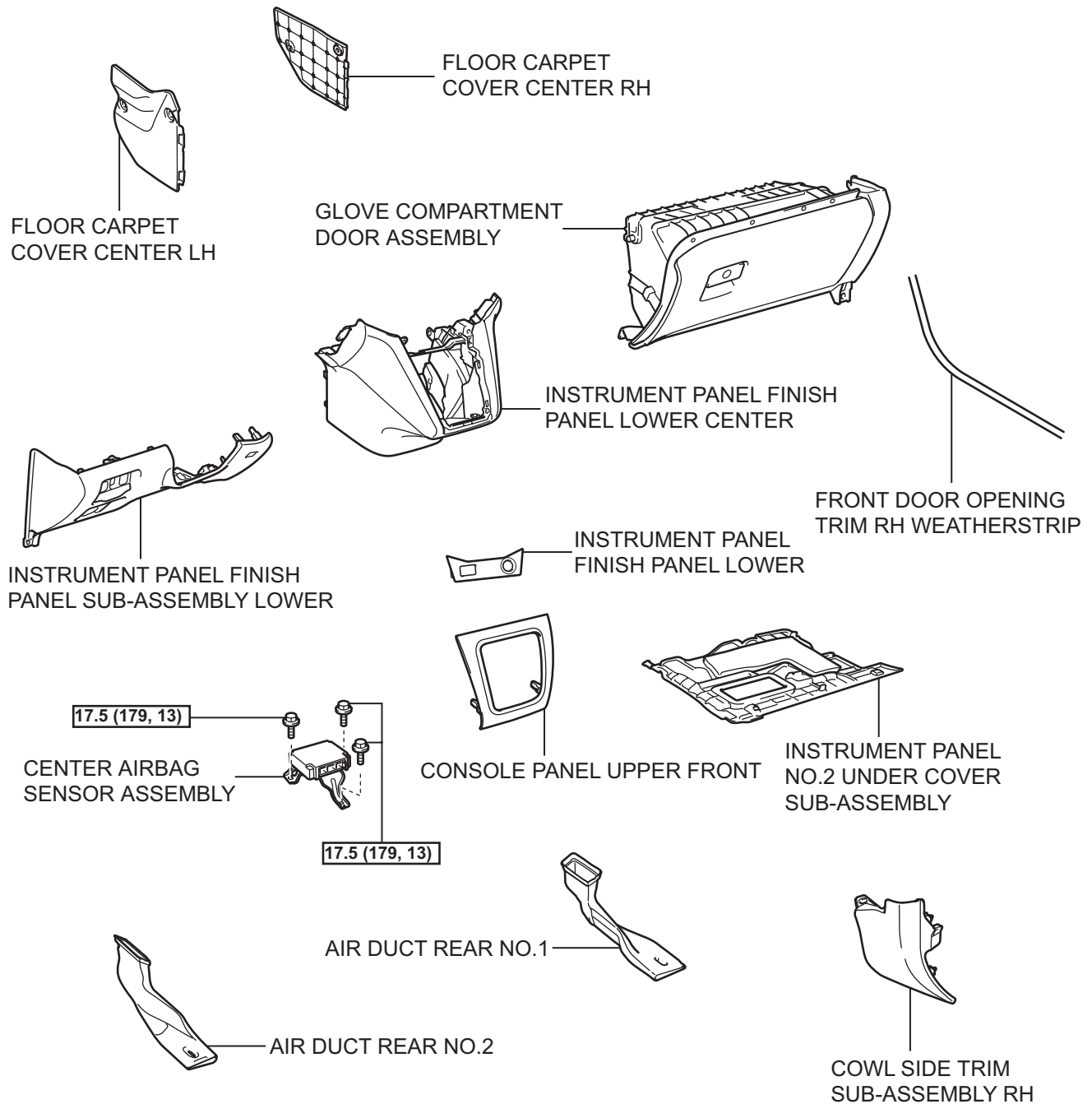
- The front seat side airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a front seat side airbag assembly with a deployed airbag.
- Do not apply water, etc. to a front seat side airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

- (1) Remove the front seat side airbag assembly from the tire.

- (2) Place the front seat side airbag assembly in a plastic bag, tie it tightly and dispose of it as other general part disposal.

CENTER AIRBAG SENSOR ASSEMBLY

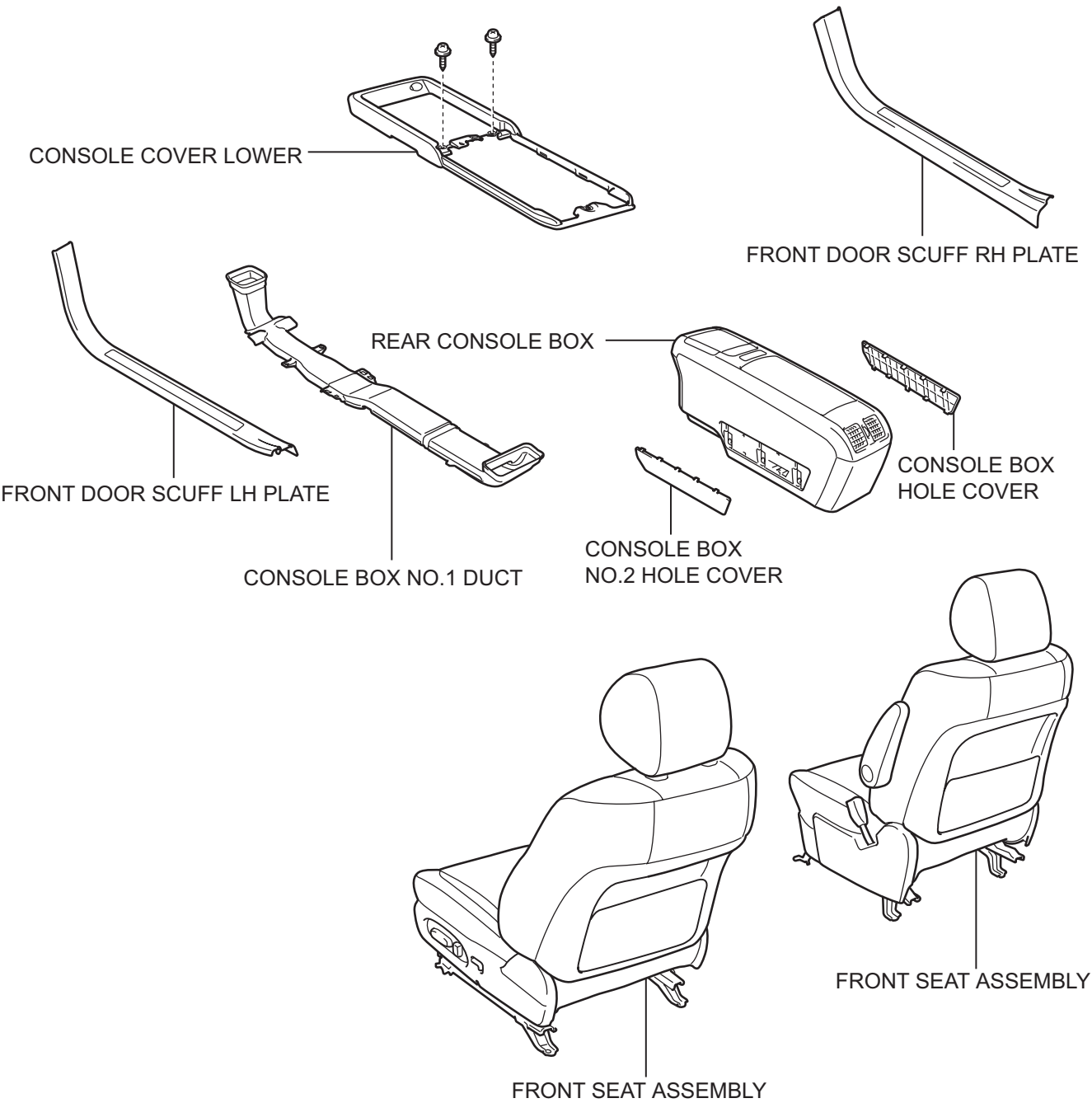
COMPONENTS



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

RS

RS



ON-VEHICLE INSPECTION

1. **INSPECT CENTER AIRBAG SENSOR ASSEMBLY
(VEHICLE NOT INVOLVED IN COLLISION)**
 - (a) Perform a diagnostic system check (See page [RS-25](#)).
2. **INSPECT CENTER AIRBAG SENSOR ASSEMBLY
(VEHICLE INVOLVED IN COLLISION AND AIRBAG
HAS NOT DEPLOYED)**
 - (a) Perform a diagnostic system check (See page [RS-25](#)).
3. **INSPECT CENTER AIRBAG SENSOR ASSEMBLY
(VEHICLE INVOLVED IN COLLISION AND AIRBAG
HAS DEPLOYED)**
 - (a) Replace the center airbag sensor assembly.
CAUTION:
**Be sure to follow the correct removal and
installation procedures.**
HINT:
The center airbag sensor assembly should be
replaced after any of the airbags has deployed, as it
has been subjected to the impact.

REMOVAL

1. **PRECAUTION**
CAUTION:
Be sure to read the "PRECAUTION" thoroughly before servicing (See page [RS-1](#)).
2. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
CAUTION:
Wait for 90 seconds after disconnecting the cable to prevent the airbag working.
3. **REMOVE FRONT SEAT ASSEMBLY** (See page [SE-38](#))
4. **REMOVE CONSOLE PANEL UPPER FRONT** (See page [IP-11](#))
5. **REMOVE INSTRUMENT PANEL FINISH PANEL LOWER** (See page [IP-11](#))
6. **REMOVE FRONT DOOR SCUFF LH PLATE** (See page [IR-6](#))
7. **REMOVE INSTRUMENT PANEL FINISH PANEL SUB-ASSEMBLY LOWER** (See page [IP-12](#))
8. **REMOVE FRONT DOOR SCUFF RH PLATE**
HINT:
Use the same procedures for the front door scuff RH plate and the front door scuff LH plate.
9. **REMOVE FRONT DOOR OPENING TRIM RH WEATHERSTRIP**
10. **REMOVE COWL SIDE TRIM SUB-ASSEMBLY RH**
HINT:
Use the same procedures for the cowl side trim sub-assembly RH and the cowl side trim sub-assembly LH (See page [IP-13](#)).
11. **REMOVE INSTRUMENT PANEL NO.2 UNDER COVER SUB-ASSEMBLY** (See page [IP-13](#))
12. **REMOVE GLOVE COMPARTMENT DOOR ASSEMBLY** (See page [IP-13](#))
13. **REMOVE FLOOR CARPET COVER CENTER LH** (See page [IP-14](#))
14. **REMOVE FLOOR CARPET COVER CENTER RH**
HINT:
Use the same procedures for the floor carpet cover center RH and the floor carpet cover center LH.
15. **REMOVE INSTRUMENT PANEL FINISH PANEL LOWER CENTER** (See page [IP-14](#))
16. **REMOVE CONSOLE BOX HOLE COVER** (See page [IP-33](#))

17. REMOVE CONSOLE BOX NO.2 HOLE COVER

HINT:

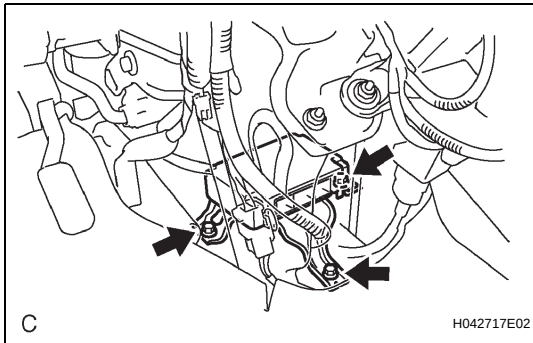
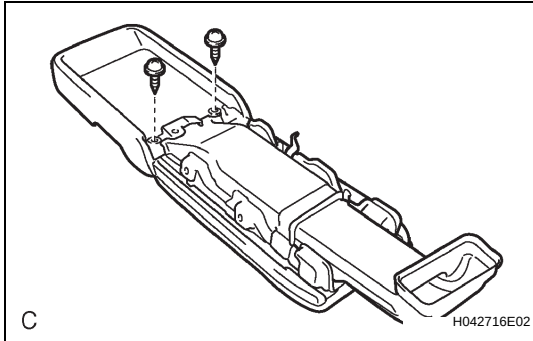
Use the same procedures for the console box No.2 hole cover and the console box hole cover.

18. REMOVE REAR CONSOLE BOX (See page [IP-33](#))**19. REMOVE CONSOLE BOX NO.1 DUCT****20. REMOVE CONSOLE COVER LOWER**

- (a) Remove the 2 screws.
- (b) Disconnect the connector and remove the console cover lower.

21. REMOVE AIR DUCT REAR NO.2 (See page [AC-136](#))**22. REMOVE AIR DUCT REAR NO.1 (See page [AC-136](#))**

RS

**23. REMOVE CENTER AIRBAG SENSOR ASSEMBLY**

- (a) Disconnect the 3 connectors from the center airbag sensor assembly.
- (b) Remove the 3 bolts and the center airbag sensor assembly.

INSTALLATION

1. INSTALL CENTER AIRBAG SENSOR ASSEMBLY

- (a) Check that the ignition switch is off.
- (b) Check that the battery negative (-) terminal is disconnected.

CAUTION:

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

- (c) Temporarily install the center airbag sensor assembly with the 3 bolts.

NOTICE:

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

- (d) Tighten the 3 bolts to the specified torque.
Torque: 17.5 N*m (179 kgf*cm, 13 ft.*lbf)
- (e) Check that there is no looseness in the installation parts of the center airbag sensor assembly.
- (f) Connect the 3 connectors to the center airbag sensor assembly.
- (g) Check that the water-proof sheet is properly set.

2. INSTALL AIR DUCT REAR NO.1

3. INSTALL AIR DUCT REAR NO.2

4. INSTALL CONSOLE COVER LOWER

- (a) Connect the connector to the console cover lower.
- (b) Install the console cover lower with the 2 screws.

5. INSTALL CONSOLE BOX NO.1 DUCT

6. INSTALL REAR CONSOLE BOX (See page [IP-39](#))

7. INSTALL CONSOLE BOX HOLE COVER (See page [IP-40](#))

8. INSTALL CONSOLE BOX NO.2 HOLE COVER

HINT:

Use the same procedures for the console box No.2 hole cover and the console box hole cover.

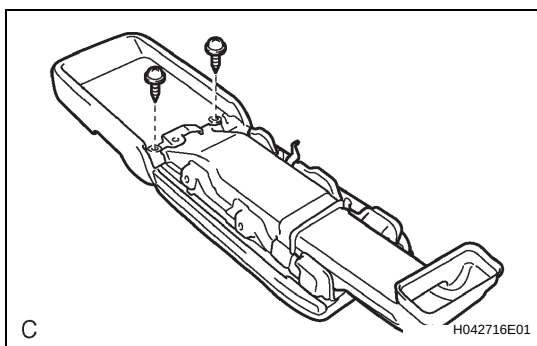
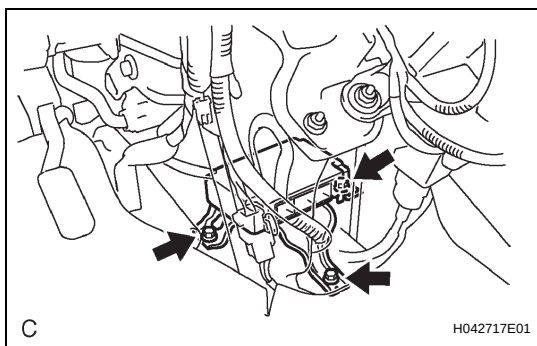
9. INSTALL INSTRUMENT PANEL FINISH PANEL LOWER CENTER (See page [IP-27](#))

10. INSTALL FLOOR CARPET COVER CENTER LH (See page [IP-27](#))

11. INSTALL FLOOR CARPET COVER CENTER RH

HINT:

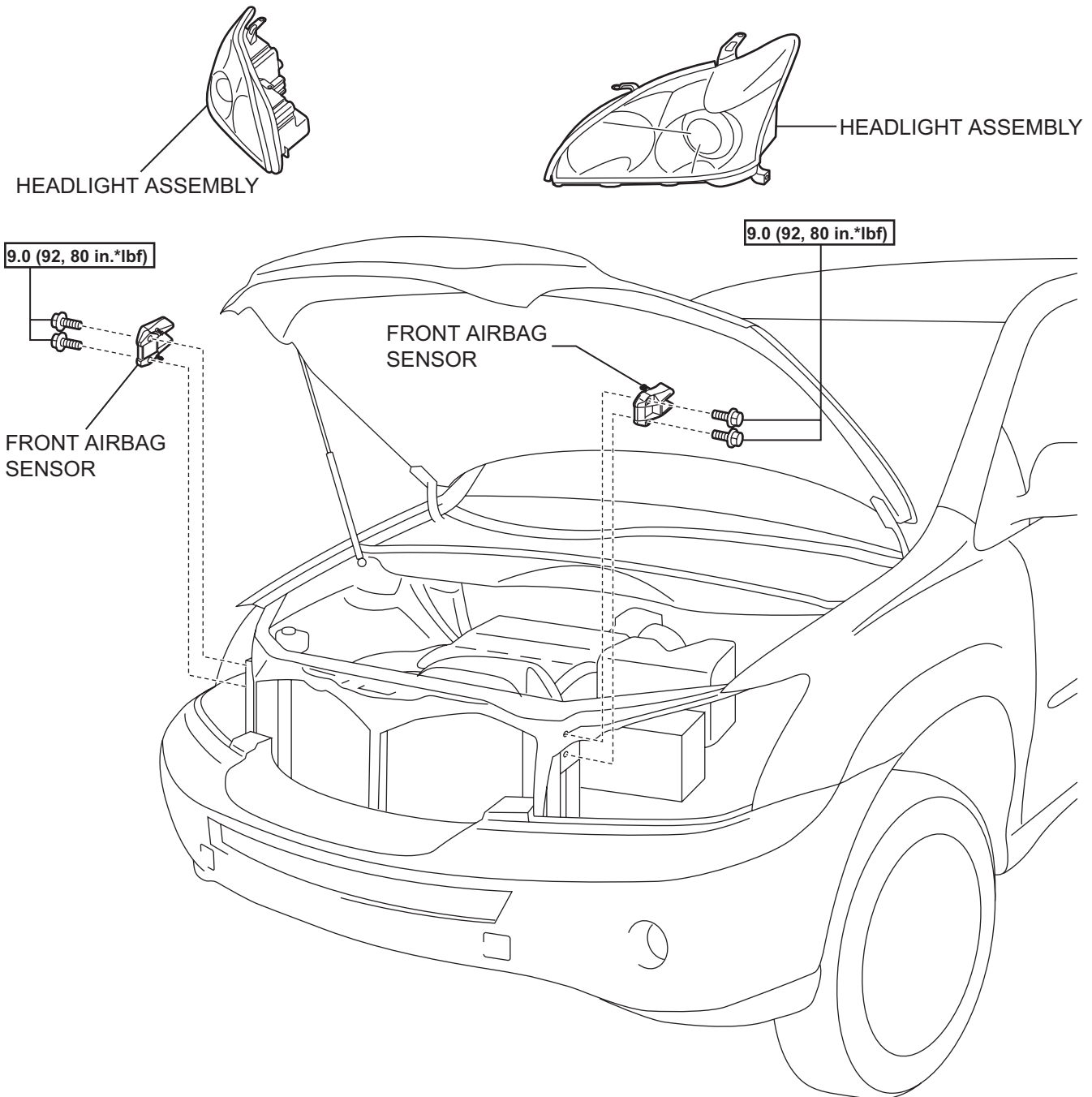
Use the same procedures for the floor carpet cover center RH and the floor carpet cover center LH.



12. **INSTALL GLOVE COMPARTMENT DOOR ASSEMBLY**
(See page [IP-27](#))
13. **INSTALL INSTRUMENT PANEL NO.2 UNDER COVER SUB-ASSEMBLY** (See page [IP-28](#))
14. **INSTALL COWL SIDE TRIM SUB-ASSEMBLY RH**
HINT:
Use the same procedures for the cowl side trim sub-assembly RH and the cowl side trim sub-assembly LH (See page [IP-28](#)).
15. **INSTALL FRONT DOOR OPENING TRIM RH WEATHERSTRIP**
16. **INSTALL FRONT DOOR SCUFF LH PLATE**
HINT:
(See page [IP-29](#))
17. **INSTALL INSTRUMENT PANEL FINISH PANEL SUB-ASSEMBLY LOWER** (See page [IP-29](#))
18. **INSTALL FRONT DOOR SCUFF RH PLATE**
HINT:
Use the same procedures for the front door scuff RH plate and the front door scuff LH plate.
19. **INSTALL INSTRUMENT PANEL FINISH PANEL LOWER** (See page [IP-30](#))
20. **INSTALL CONSOLE PANEL UPPER FRONT** (See page [IP-30](#))
21. **INSTALL FRONT SEAT ASSEMBLY** (See page [SE-45](#))
22. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
23. **PERFORM INITIALIZATION**
(a) Perform initialization.
HINT:
Some systems need initialization when disconnecting the cable from the negative battery terminal.
24. **INSPECT CHECK POWER SEAT FUNCTION**
25. **INSPECT SEAT HEATER OPERATION**
26. **INSPECT SRS WARNING LIGHT**
(a) Inspect the SRS warning light (See page [RS-25](#)).

FRONT AIRBAG SENSOR

COMPONENTS



RS

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

ON-VEHICLE INSPECTION

1. INSPECT FRONT AIRBAG SENSOR (VEHICLE NOT INVOLVED IN COLLISION)

- (a) Perform a diagnostic system check (See page [RS-25](#)).

2. INSPECT FRONT AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (a) Perform a diagnostic system check (See page [RS-25](#)).
- (b) When the front bumper of the vehicle or its area is damaged, check if there is any damage to the front airbag sensor. If any of the front airbag sensor have defects as mentioned below, replace it with a new one:
 - Cracks, dents or chips on the sensor housing.
 - Cracks or other damage to the connector.
 - Peeling off of the label or damage to the serial number.

CAUTION:

Be sure to follow the correct removal and installation procedures.

3. INSPECT FRONT AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS DEPLOYED)

- (a) Replace the front airbag sensor.

CAUTION:

Be sure to follow the correct removal and installation procedures.

HINT:

The front airbag sensor on the impacted side should be replaced after the steering pad, front passenger airbag assembly or driver side knee airbag assembly has deployed.

REMOVAL

HINT:

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

1. PRECAUTION

CAUTION:

Be sure to read the "PRECAUTION" thoroughly before servicing (See page [RS-1](#)).

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

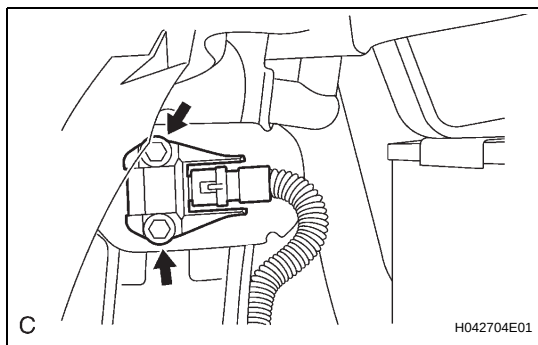
CAUTION:

Wait for 90 seconds after disconnecting the cable to prevent the airbag working.

3. REMOVE HEADLIGHT ASSEMBLY (See page [LI-192](#))

4. REMOVE FRONT AIRBAG SENSOR LH

- (a) Remove the 2 bolts and the front airbag sensor LH.
- (b) Disconnect the connector from the front airbag sensor LH.



INSTALLATION

HINT:

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

1. INSTALL FRONT AIRBAG SENSOR LH

- (a) Check that the ignition switch is off.
- (b) Check that the battery negative (-) terminal is disconnected.

CAUTION:

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

- (c) Connect the connector to the front airbag sensor LH.
- (d) Install the front airbag sensor LH with the 2 bolts.
Torque: 9.0 N*m (92 kgf*cm, 80 in.*lbf)

NOTICE:

- If the front airbag sensor LH has been dropped, or there are any cracks, dents or other defects in the case or connector, replace it with a new one.
 - When installing the front airbag sensor LH, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.
- (e) Check that there is no looseness in the installation parts of the front airbag sensor LH.

2. INSTALL HEADLIGHT ASSEMBLY

3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

4. ADJUST HEADLIGHT AIMING

- (a) Adjust headlight aiming (See page [LI-196](#)).

5. PERFORM INITIALIZATION

- (a) Perform initialization.

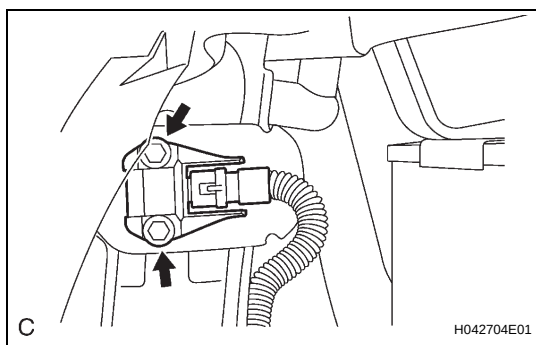
HINT:

Some systems need initialization when disconnecting the cable from the negative battery terminal.

6. INSPECT SRS WARNING LIGHT

- (a) Inspect the SRS warning light (See page [RS-25](#)).

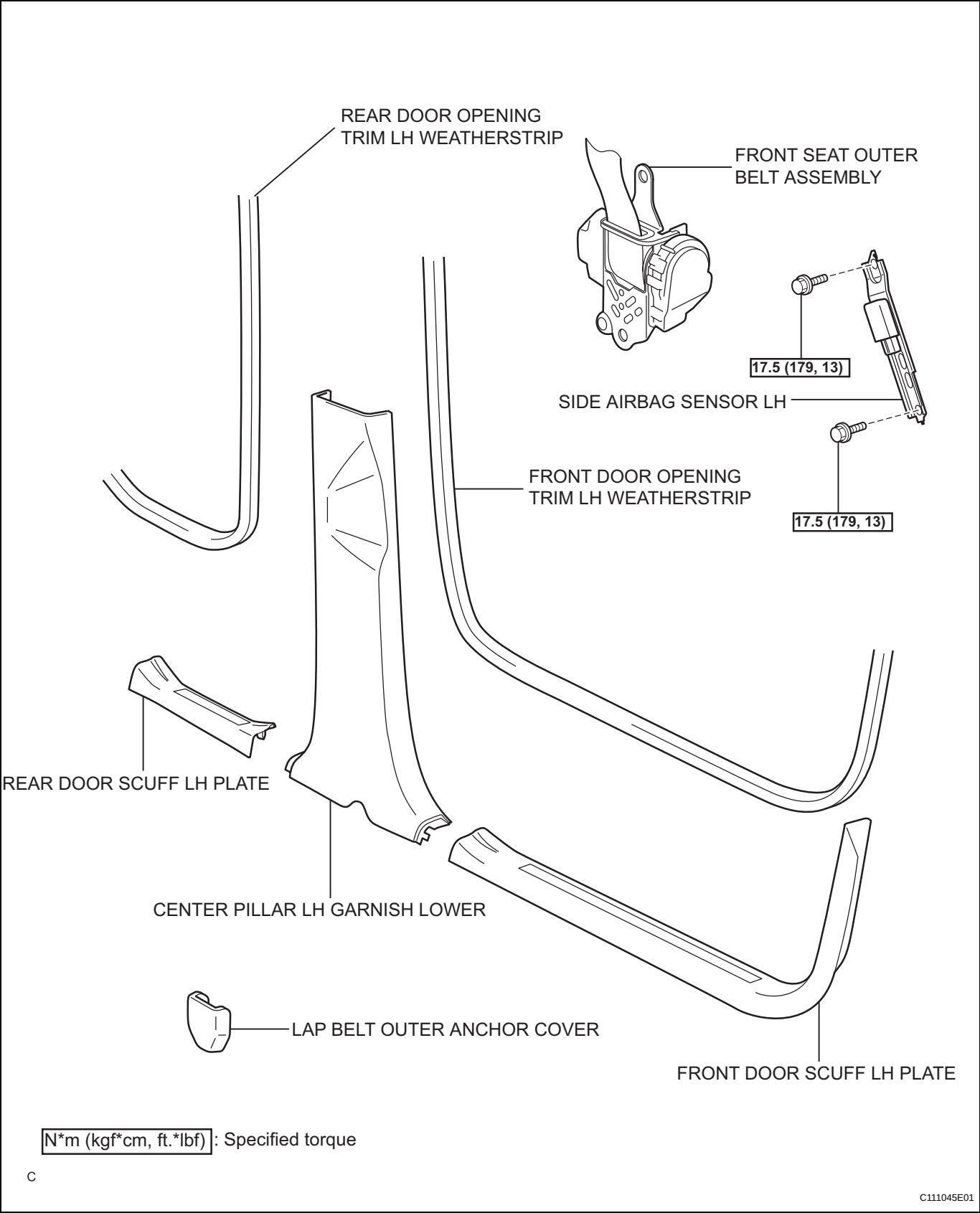
RS



SIDE AIRBAG SENSOR

COMPONENTS

RS



ON-VEHICLE INSPECTION

1. **INSPECT SIDE AIRBAG SENSOR (VEHICLE NOT INVOLVED IN COLLISION)**
 - (a) Perform a diagnostic system check (See page [RS-25](#)).
2. **INSPECT SIDE AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)**
 - (a) Perform a diagnostic system check (See page [RS-25](#)).
 - (b) When the center pillar of the vehicle or its area is damaged, check if there is any damage to the side airbag sensor. If there are any defects as mentioned below, replace the side airbag sensor with a new one:
 - Cracks, dents or chips on the sensor housing.
 - Cracks or other damage to the connector.
 - Peeling off of the label or damage to the serial number.

CAUTION:
Be sure to follow the correct removal and installation procedures.
3. **INSPECT SIDE AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS DEPLOYED)**
 - (a) Replace the side airbag sensor.

CAUTION:
Be sure to follow the correct removal and installation procedures.

HINT:
The side airbag sensor on the impacted side should be replaced after the front seat airbag assembly and curtain shield airbag assembly have deployed.

REMOVAL

HINT:

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

1. PRECAUTION

CAUTION:

Be sure to read the "PRECAUTION" thoroughly before servicing (See page [RS-1](#)).

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait for 90 seconds after disconnecting the cable to prevent the airbag working.

3. REMOVE FRONT DOOR SCUFF LH PLATE (See page [IR-6](#))

4. REMOVE REAR DOOR SCUFF LH PLATE (See page [IR-6](#))

5. REMOVE FRONT DOOR OPENING TRIM LH WEATHERSTRIP

6. REMOVE REAR DOOR OPENING TRIM LH WEATHERSTRIP

7. REMOVE LAP BELT OUTER ANCHOR COVER (See page [SB-18](#))

8. REMOVE CENTER PILLAR LH GARNISH LOWER

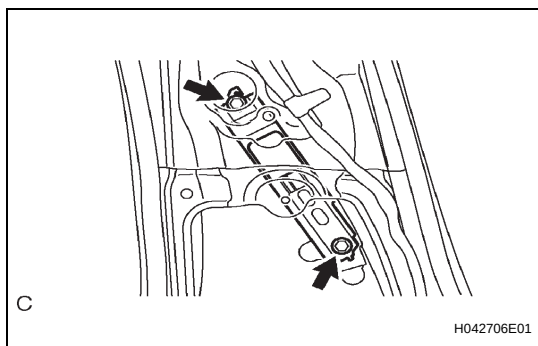
HINT:

(See page [SB-18](#))

9. REMOVE FRONT SEAT OUTER BELT ASSEMBLY (See page [SB-18](#))

10. REMOVE SIDE AIRBAG SENSOR LH

- (a) Remove the 2 bolts and the side airbag sensor LH.
- (b) Disconnect the connector from the side airbag sensor LH.



INSTALLATION

HINT:

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

1. INSTALL SIDE AIRBAG SENSOR LH

- (a) Check that the ignition switch is off.
- (b) Check that the battery negative (-) terminal is disconnected.

CAUTION:

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

- (c) Install the side airbag sensor LH with the 2 bolts.
Torque: 17.5 N*m (179 kgf*cm, 13 ft.*lbf)

NOTICE:

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

- (d) Check that there is no looseness in the installation parts of the side airbag sensor LH.
- (e) Connect the connector to the side airbag sensor LH.

2. INSTALL FRONT SEAT OUTER BELT ASSEMBLY (See page [SB-19](#))

3. INSTALL CENTER PILLAR LH GARNISH LOWER

HINT:

(See page [SB-19](#))

4. INSTALL LAP BELT OUTER ANCHOR COVER

HINT:

(See page [SB-19](#))

5. INSTALL REAR DOOR OPENING TRIM LH WEATHERSTRIP

6. INSTALL FRONT DOOR OPENING TRIM LH WEATHERSTRIP

7. INSTALL REAR DOOR SCUFF LH PLATE

HINT:

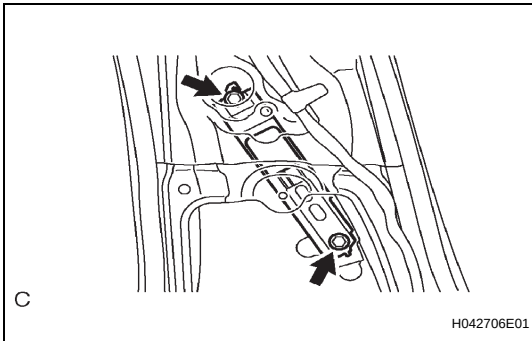
(See page [IR-14](#))

8. INSTALL FRONT DOOR SCUFF LH PLATE

HINT:

(See page [IR-14](#))

9. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL



RS

10. PERFORM INITIALIZATION

- (a) Perform initialization.

HINT:

Some systems need initialization when disconnecting the cable from the negative battery terminal.

11. INSPECT SRS WARNING LIGHT

- (a) Inspect the SRS warning light (See page [RS-25](#)).

REAR AIRBAG SENSOR

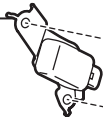
COMPONENTS

RS

REAR SEAT ASSEMBLY LH

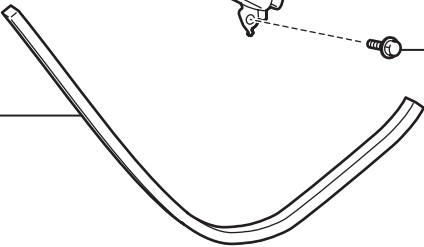


REAR AIRBAG SENSOR LH



17.5 (179, 13)

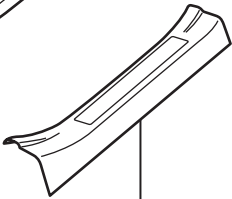
REAR DOOR OPENING
TRIM LH WEATHERSTRIP



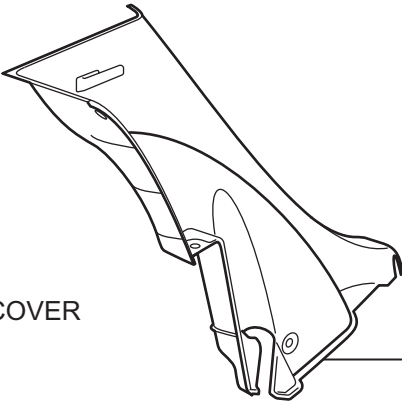
DECK SIDE TRIM LH COVER



REAR DOOR SCUFF LH PLATE



REAR SEAT SIDE LH COVER



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

ON-VEHICLE INSPECTION

1. INSPECT REAR AIRBAG SENSOR (VEHICLE NOT INVOLVED IN COLLISION)

- (a) Perform a diagnostic system check (See page [RS-25](#)).

2. INSPECT REAR AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (a) Perform a diagnostic system check (See page [RS-25](#)).
- (b) When the quarter panel of the vehicle or its area is damaged, check if there is any damage to the rear airbag sensor. If there are any defects as mentioned below, replace the rear airbag sensor with a new one:
 - Cracks, dents or chips on the sensor housing.
 - Cracks or other damage to the connector.
 - Peeling off of the label or damage to the serial number.

CAUTION:

Be sure to follow the correct removal and installation procedures.

3. INSPECT REAR AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS DEPLOYED)

- (a) Replace the rear airbag sensor.

CAUTION:

Be sure to follow the correct removal and installation procedures.

HINT:

The rear airbag sensor on the impacted side should be replaced after the curtain shield airbag assembly has deployed.

REMOVAL

HINT:

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

1. PRECAUTION

CAUTION:

Be sure to read the "PRECAUTION" thoroughly before servicing (See page [RS-1](#)).

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait for 90 seconds after disconnecting the cable to prevent the airbag working.

3. REMOVE REAR DOOR SCUFF LH PLATE (See page [IR-6](#))

4. REMOVE REAR DOOR OPENING TRIM LH WEATHERSTRIP

5. REMOVE REAR SEAT ASSEMBLY LH (See page [SE-50](#))

6. REMOVE DECK SIDE TRIM LH COVER

HINT:

(See page [SB-32](#))

7. REMOVE REAR SEAT SIDE LH COVER

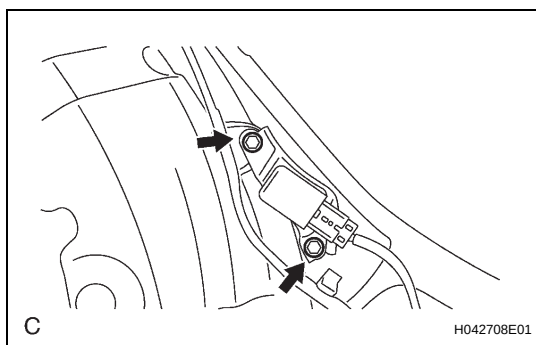
HINT:

(See page [SB-32](#))

8. REMOVE REAR AIRBAG SENSOR LH

(a) Disconnect the connector from the rear airbag sensor LH.

(b) Remove the 2 bolts and the rear airbag sensor LH.



INSTALLATION

HINT:

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

1. INSTALL REAR AIRBAG SENSOR LH

- (a) Check that the ignition switch is off.
- (b) Check that the battery negative (-) terminal is disconnected.

CAUTION:

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

- (c) Install the rear airbag sensor LH with the 2 bolts.
Torque: 17.5 N*m (179 kgf*cm, 13 ft.*lbf)

CAUTION:

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

- (d) Check that there is no looseness in the installation parts of the rear airbag sensor LH.
- (e) Connect the connector to the rear airbag sensor LH.

2. INSTALL REAR SEAT SIDE LH COVER

HINT:

(See page [SB-34](#))

3. INSTALL DECK SIDE TRIM LH COVER

HINT:

(See page [SB-34](#))

4. INSTALL REAR SEAT ASSEMBLY LH (See page [SE-55](#))

5. INSPECT SLIDE ADJUSTER LOCK SIMULTANEOUSLY

6. INSTALL REAR DOOR OPENING TRIM LH WEATHERSTRIP

7. INSTALL REAR DOOR SCUFF LH PLATE

HINT:

(See page [SB-34](#))

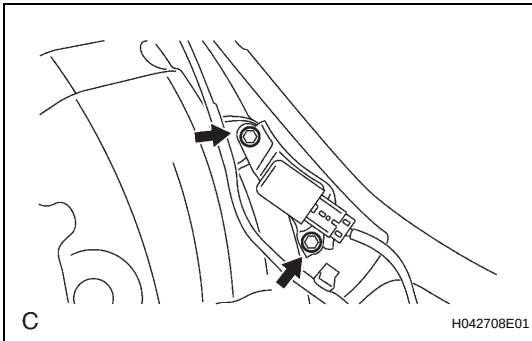
8. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

9. PERFORM INITIALIZATION

- (a) Perform initialization.

HINT:

Some systems need initialization when disconnecting the cable from the negative battery terminal.

**RS**

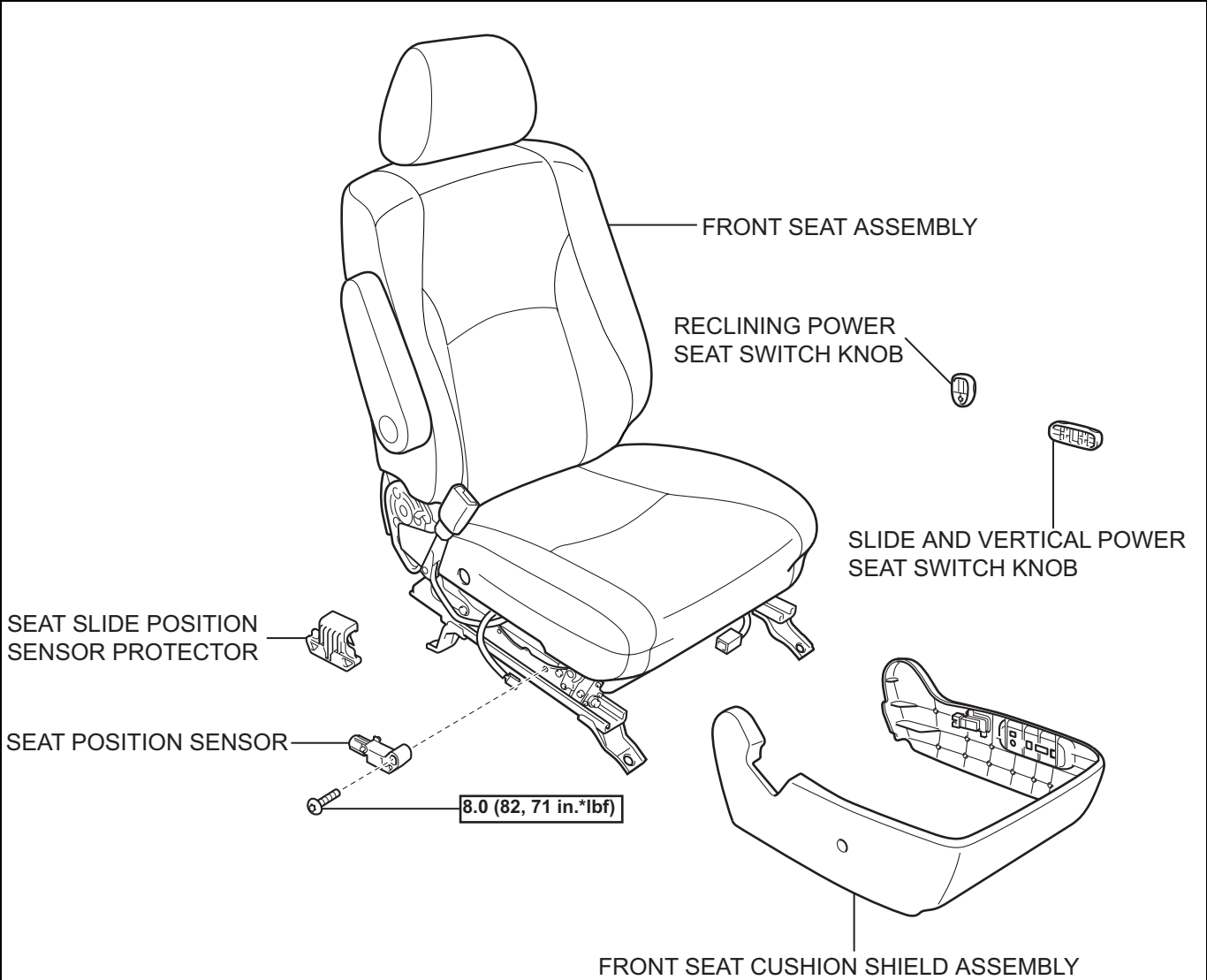
10. INSPECT SRS WARNING LIGHT

- (a) Inspect the SRS warning light (See page [RS-25](#)).

SEAT POSITION SENSOR

COMPONENTS

RS



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

ON-VEHICLE INSPECTION

1. INSPECT SEAT POSITION SENSOR (VEHICLE NOT INVOLVED IN COLLISION)

- (a) Perform a diagnostic system check (See page [RS-25](#)).

2. INSPECT SEAT POSITION SENSOR (VEHICLE INVOLVED IN COLLISION)

- (a) Perform a diagnostic system check (See page [RS-25](#)).
- (b) Even if the airbag was not deployed, check if there is any damage to the seat position sensor. If there are any defects as mentioned below, replace the seat position sensor with a new one:
 - Cracks, dents or chips on the sensor housing.
 - Cracks or other damage to the connector.

CAUTION:

Be sure to follow the correct removal and installation procedures.

REMOVAL

1. PRECAUTION

CAUTION:

Be sure to read the "PRECAUTION" thoroughly before servicing (See page [RS-1](#)).

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait for 90 seconds after disconnecting the cable to prevent the airbag working.

3. REMOVE FRONT SEAT ASSEMBLY (See page [SE-38](#))

4. REMOVE RECLINING POWER SEAT SWITCH KNOB (See page [SE-39](#))

5. REMOVE SLIDE AND VERTICAL POWER SEAT SWITCH KNOB (See page [SE-39](#))

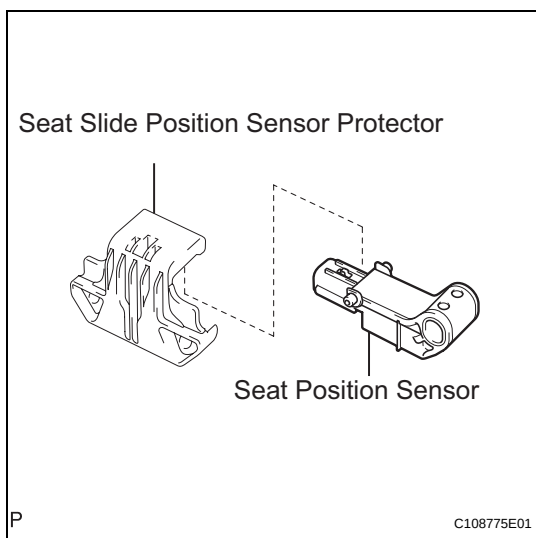
6. REMOVE FRONT SEAT CUSHION SHIELD ASSEMBLY (See page [SE-39](#))

7. REMOVE SEAT SLIDE POSITION SENSOR PROTECTOR

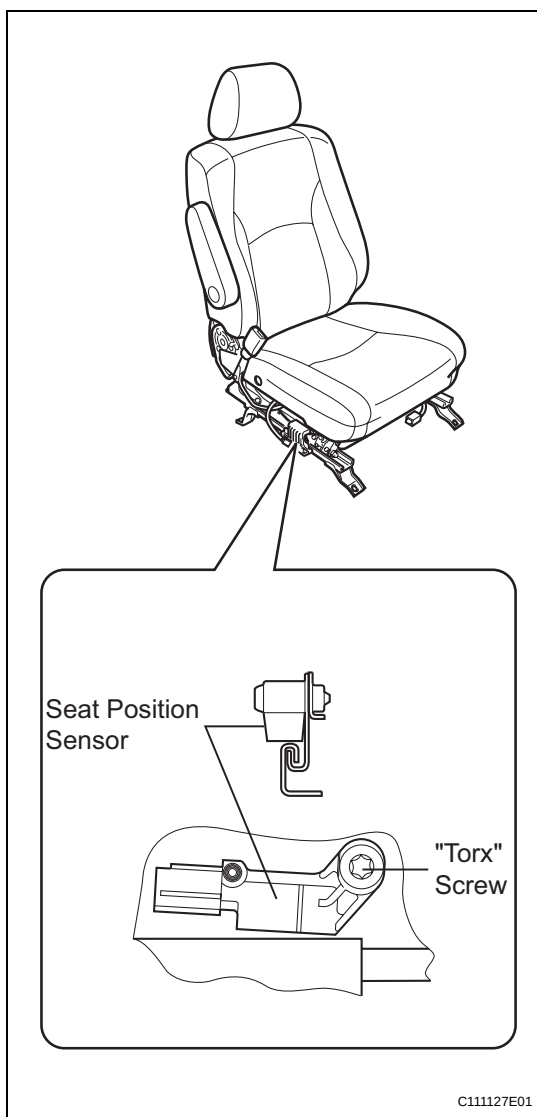
- (a) Remove the seat slide position sensor protector from the seat position sensor.

8. REMOVE SEAT POSITION SENSOR

- (a) Disconnect the connector from the seat position sensor.



- (b) Using a "torx" socket wrench (T30), remove the "torx" screw and the seat position sensor.



INSTALLATION

1. INSTALL SEAT POSITION SENSOR

- Check that the ignition switch is off.
- Check that the negative battery (-) terminal is disconnected.

CAUTION:

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

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

NOTICE:

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

HINT:

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

- Using a "torx" socket wrench, tighten the "torx" screw to install the seat position sensor.
Torque: 8.0 N*m (82 kgf*cm, 71 in.*lbf)
- Make sure that a clearance between the seat position sensor and the seat rail is within 0.6 mm (0.023 in.) to 1.4 mm (0.055 in.).
- Check that there is no looseness in the installation parts of the seat position sensor.
- Connect the connector to the seat position sensor.

2. INSTALL SEAT SLIDE POSITION SENSOR PROTECTOR

3. INSTALL FRONT SEAT CUSHION SHIELD ASSEMBLY

4. INSTALL SLIDE AND VERTICAL POWER SEAT SWITCH KNOB

5. INSTALL RECLINING POWER SEAT SWITCH KNOB

6. INSTALL FRONT SEAT ASSEMBLY (See page [SE-45](#))

7. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

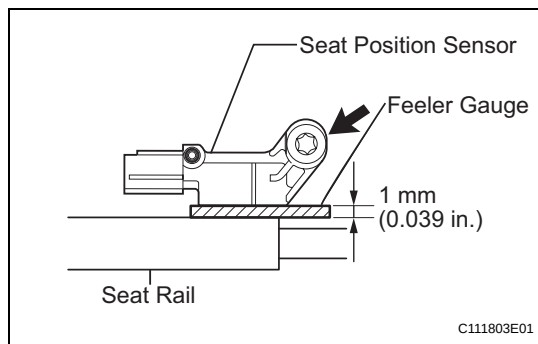
8. PERFORM INITIALIZATION

- Perform initialization.

HINT:

Some systems need initialization when disconnecting the cable from the negative battery terminal.

9. INSPECT CHECK POWER SEAT FUNCTION



10. INSPECT SEAT HEATER OPERATION**11. INSPECT SRS WARNING LIGHT**

- (a) Inspect the SRS warning light (See page [RS-25](#)).

REMOVAL

1. PRECAUTION

CAUTION:

Be sure to read the "PRECAUTION" thoroughly before servicing (See page [RS-1](#)).

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

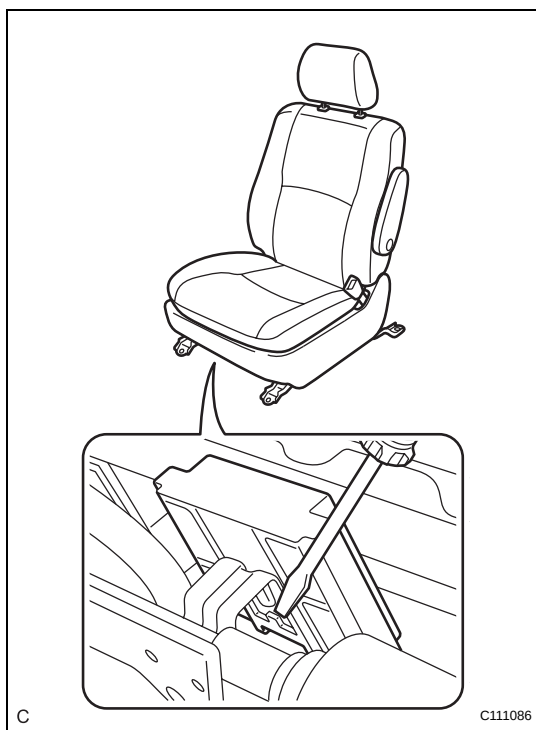
Wait for 90 seconds after disconnecting the cable to prevent the airbag working.

3. REMOVE FRONT SEAT ASSEMBLY (See page [SE-38](#))

4. REMOVE OCCUPANT CLASSIFICATION ECU

- (a) Disconnect the 2 connectors from the occupant classification ECU.
- (b) Using a screwdriver, remove the occupant classification ECU.

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INSTALLATION

1. INSTALL OCCUPANT CLASSIFICATION ECU

- (a) Check that the ignition switch is off.
- (b) Check that the negative battery (-) terminal is disconnected.

CAUTION:

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

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

NOTICE:

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

2. INSTALL FRONT SEAT ASSEMBLY (See page [SE-45](#))

3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

4. PERFORM INITIALIZATION

- (a) Perform initialization.

HINT:

Some systems need initialization when disconnecting the cable from the negative battery terminal.

5. INSPECT CHECK POWER SEAT FUNCTION

6. INSPECT SEAT HEATER OPERATION

7. INSPECT SRS WARNING LIGHT

- (a) Inspect the SRS warning light (See page [RS-25](#)).

