# AIRBAG SYSTEM

## PRECAUTION

**NOTICE:**
**When disconnecting the negative (-) battery terminal, initialize the following systems after the terminal is reconnected.**



| System Name | See Procedure |
|---|---|
| Power Window Control System (with Jam Protection Function) | WS-5 |
| Sliding Roof System | |

### 1. HANDLING PRECAUTIONS FOR AIRBAG SENSOR

HINT:
In this section, the center airbag sensor, front airbag sensor LH, front airbag sensor RH, side airbag sensor LH, side airbag sensor RH, rear airbag sensor LH, rear airbag sensor RH and seat position airbag sensor are collectively referred to as the airbag sensor.

(a) Before starting the following operations, wait at least 90 seconds after disconnecting the cable from the battery negative (-) terminal.
  (1) Replacement of the airbag sensor
  (2) Adjustment of the front doors of the vehicle equipped with the side airbag and curtain shield airbag (fitting adjustment)

(b) When connecting or disconnecting the airbag sensor connector, ensure that all of the sensors are installed in the vehicle.

(c) Do not use an airbag sensor which has been dropped during the operation or transportation.

(d) Do not disassemble the airbag sensor.

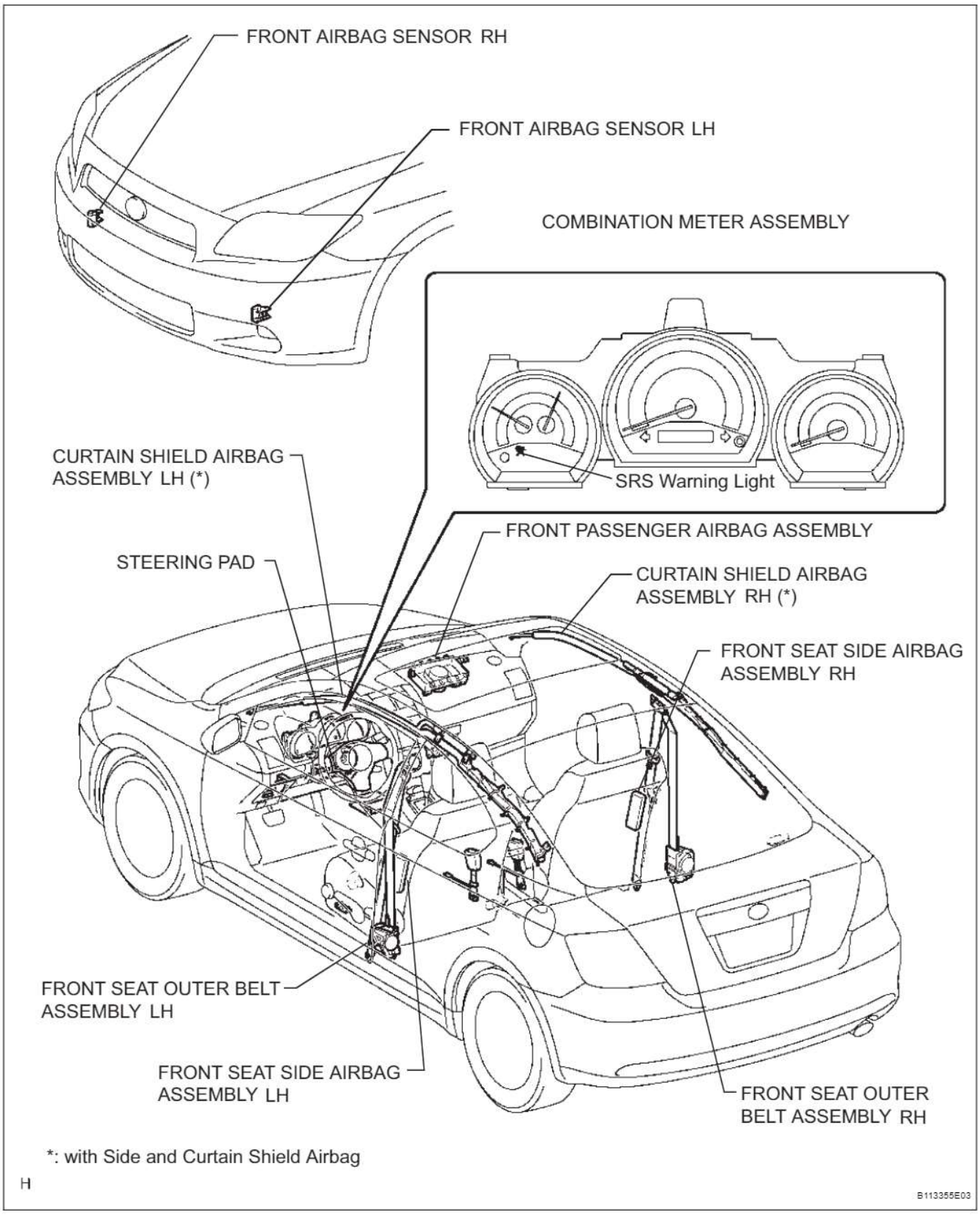
### 2. INSPECTION PROCEDURE FOR VEHICLE INVOLVED IN ACCIDENT

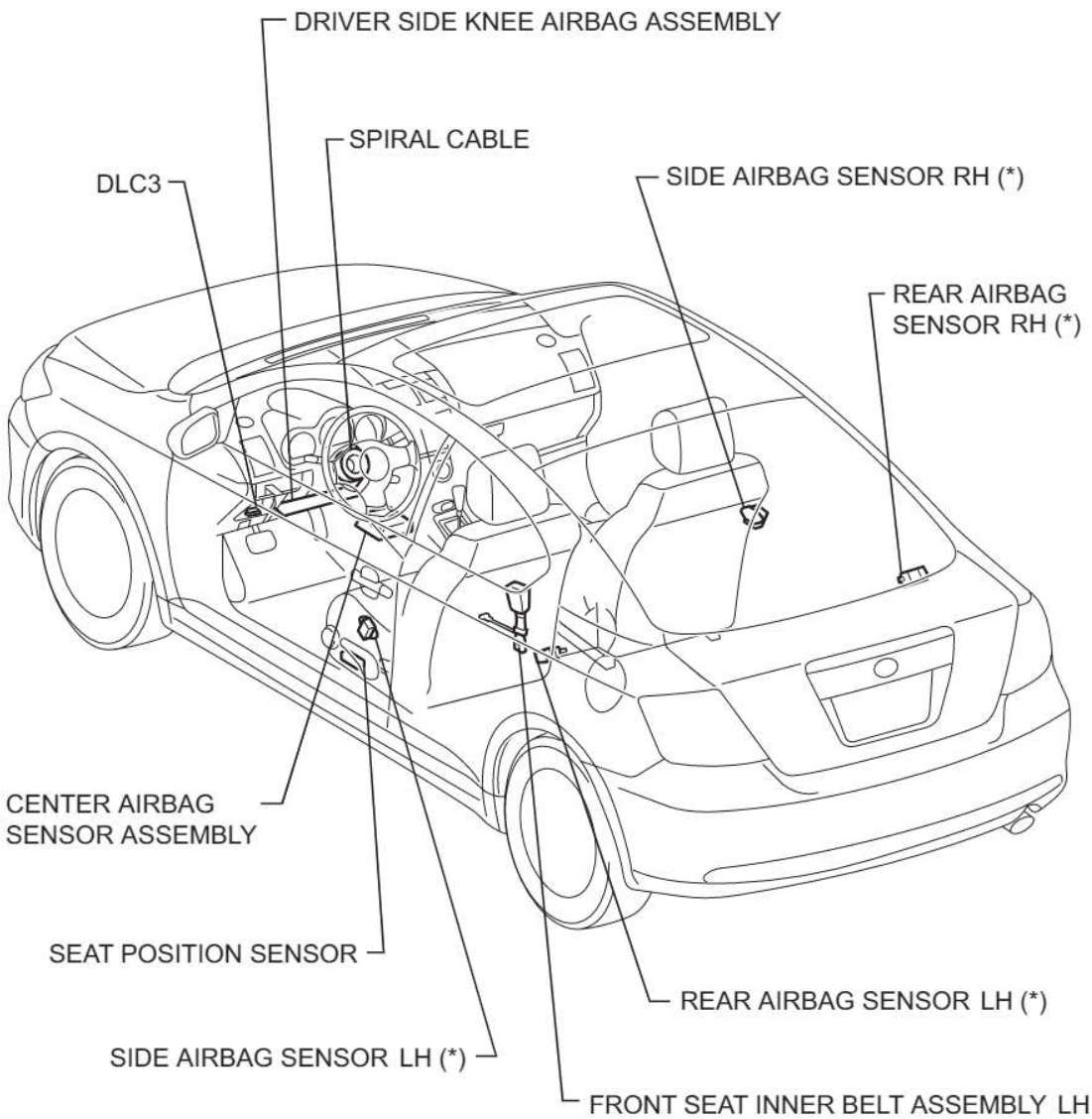
(a) When the airbag has not deployed, confirm the DTC by checking the SRS warning light. If there is any malfunction in the SRS airbag system, perform troubleshooting.

(b) When any of the airbag have deployed, replace the airbag sensor and check the installation condition.

RS

# PARTS LOCATION





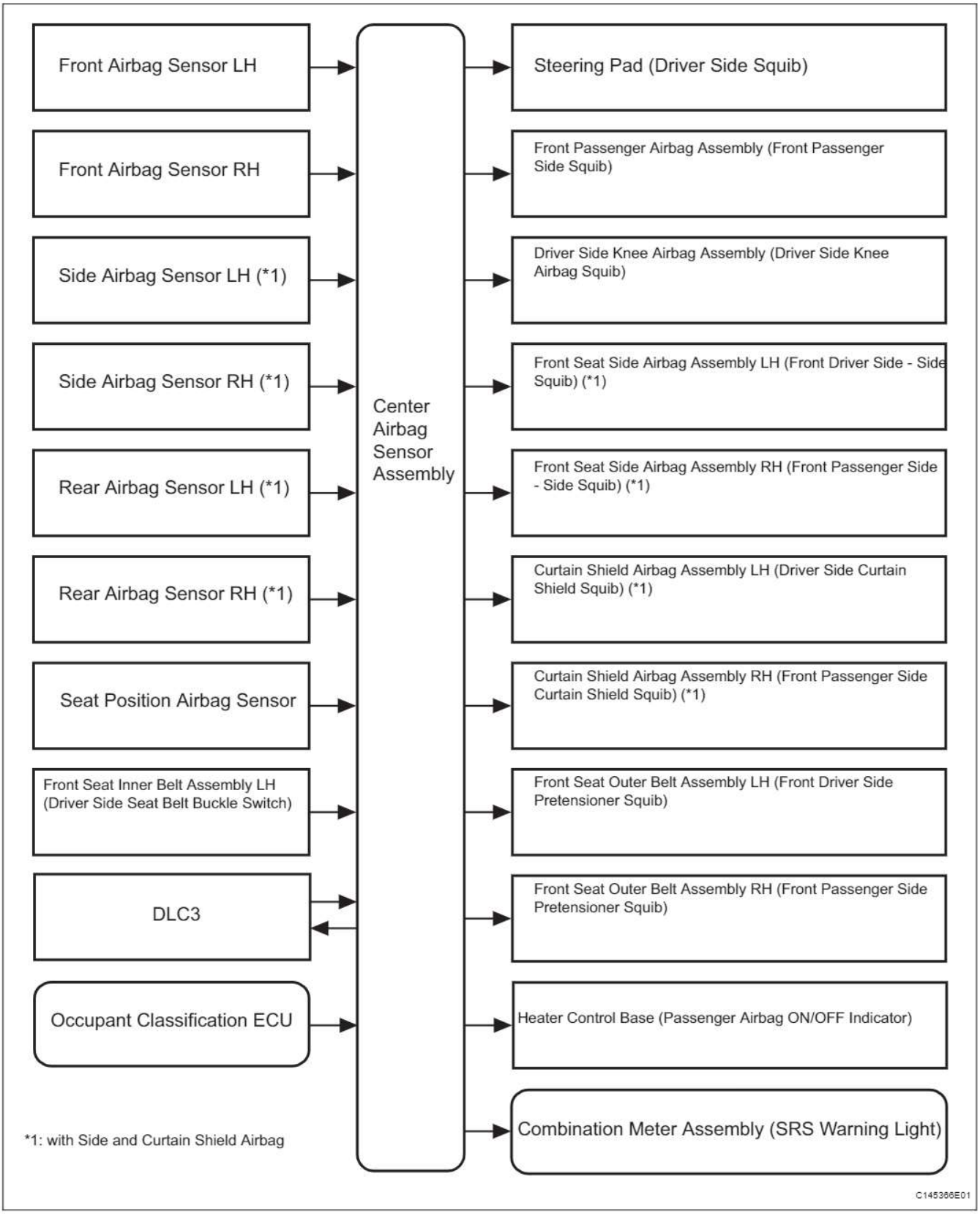

*: with Side and Curtain Shield Airbag

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# SYSTEM DIAGRAM



# SYSTEM DESCRIPTION

## 1. DESCRIPTION OF SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

(a) General description

(1) In this system, the center airbag sensor installed on the floor under the A/C unit determines whether or not to activate the SRS airbags and seat belt pretensioners by receiving the collision signal from the airbag sensors (excluding the center airbag sensor). When there is trouble in the system, the center airbag sensor turns on the SRS warning light on the combination meter to inform the driver.

(b) Description of the dual stage control

(1) The center airbag sensor controls the dual stage deployment of the driver airbag in the horn button and the passenger airbag on the instrument panel. The center airbag sensor controls the dual stage deployment of the driver airbag according to the collision impact, seat position and seat belt ON/OFF state. It also controls the dual stage deployment of the passenger airbag according to the collision impact.

(c) Description of check mode (signal check)

(1) This center airbag sensor can be operated using the check mode of the intelligent tester function. Check mode can detect and output DTC by using the intelligent tester to switch the center airbag sensor to the check mode.
A simulation method should be used if the malfunction cannot be reproduced during troubleshooting (the malfunction is temporarily solved, etc.). In this case, joggling each connector, or driving on a city or rough road with the center airbag sensor in check mode makes it possible to obtain a more accurate malfunction condition.

## 2. IGNITION JUDGMENT AND CONDITIONS

(a) Operation in case of front collision

(1) When the vehicle collides in the hatched area (Fig. 1) and shock is larger than a predetermined level, the airbags (driver and front passenger) are activated automatically. The deceleration sensor of the center airbag sensor determines the need for ignition in response to collisions within the hatched area based on the signal from the deceleration sensor of the front airbag sensor.

(2) Safing sensor of the center airbag sensor is designed to activate at a lower deceleration rate than the deceleration sensor. As illustrated in Fig. 2 below, when both the safing sensor and deceleration sensor go on simultaneously, current flows to the squib and ignition occurs.

RS

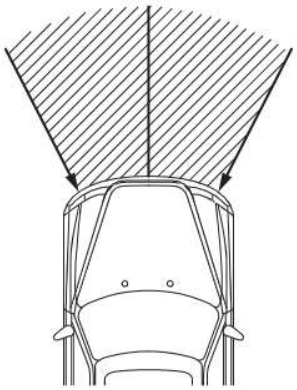


Fig. 1

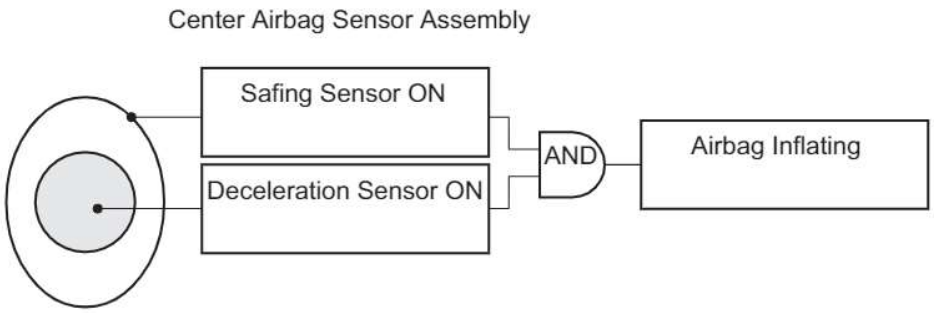
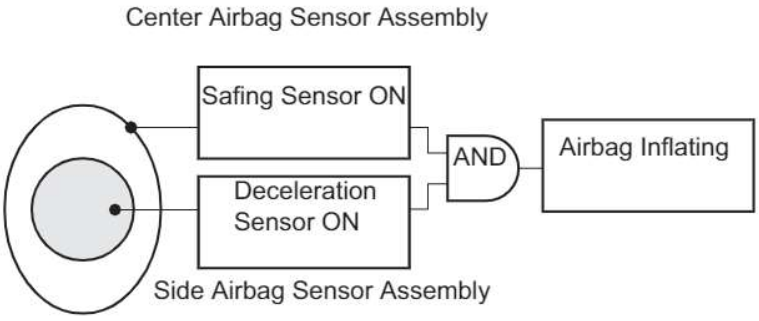



Fig. 2

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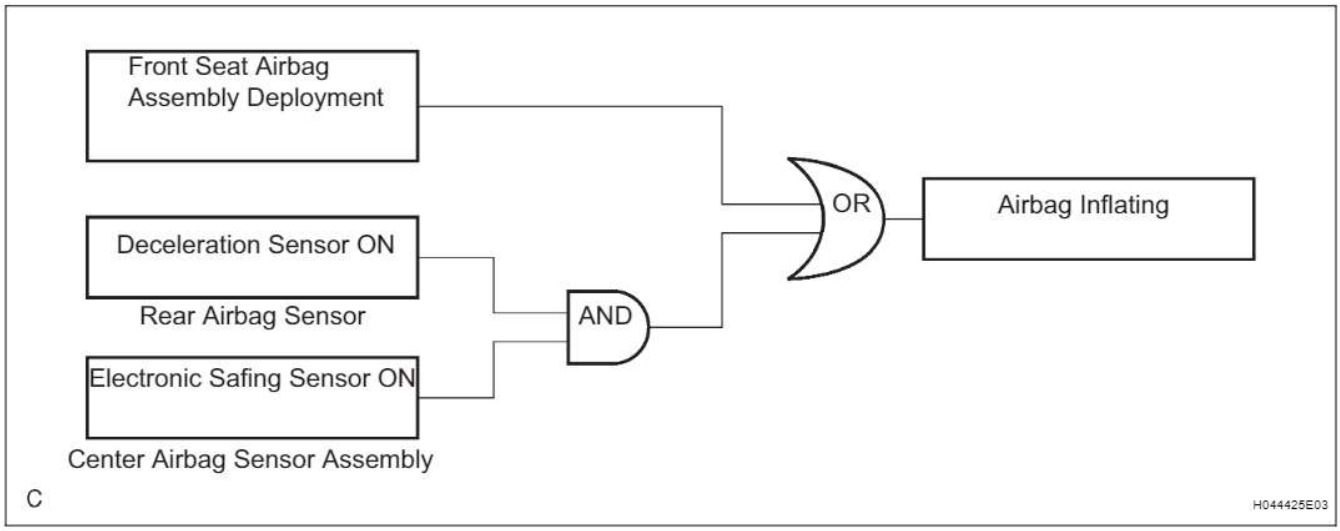
(b) With side curtain shield airbag:
Operation in case of front side collision
(1) Electronic safing sensor of the side airbag sensor is designed to activate at a lower deceleration rate than the deceleration sensor of the side airbag sensor. As illustrated below, when both the safing sensor and deceleration sensor go on simultaneously, current flows to the squib and ignition occurs.




B113358E01

(c) With side and curtain shield airbag:
Operation in case of rear side collision
(1) Electronic safing sensor of the center airbag sensor is designed to activate at a lower deceleration rate than the deceleration sensor of the rear airbag sensor. As illustrated below, when both the safing sensor and deceleration sensor go on simultaneously, current flows to the squib and ignition occurs.





RS

# HOW TO PROCEED WITH TROUBLESHOOTING

HINT:
*: Use the intelligent tester.

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

NEXT

| | |
|---|---|
| 2 | CUSTOMER PROBLEM ANALYSIS |

(a) Confirm problem symptoms (See page IN-26).

NEXT

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

NEXT

| | |
|---|---|
| 4 | CHECK DTC (Present and Past DTCs)* |

(a) Check for DTC outputs.
**Result**

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

B → PROBLEM SYMPTOMS TABLE

A

| | |
|---|---|
| 5 | DTC CHART |

NEXT

| | |
|---|---|
| 6 | CIRCUIT INSPECTION* |

NEXT

| | |
|---|---|
| 7 | REPAIR |

NEXT

| 8 | CLEAR DTC (Present and Past DTCs)* |
|---|---|

NEXT

| 9 | CHECK DTC (Present and Past DTCs)* |
|---|---|

(a) Check for DTC outputs.

**Result**

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

B → Go to step 5

A

| 10 | CONFIRMATION TEST |
|---|---|

NEXT

END

# PROBLEM SYMPTOMS TABLE

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

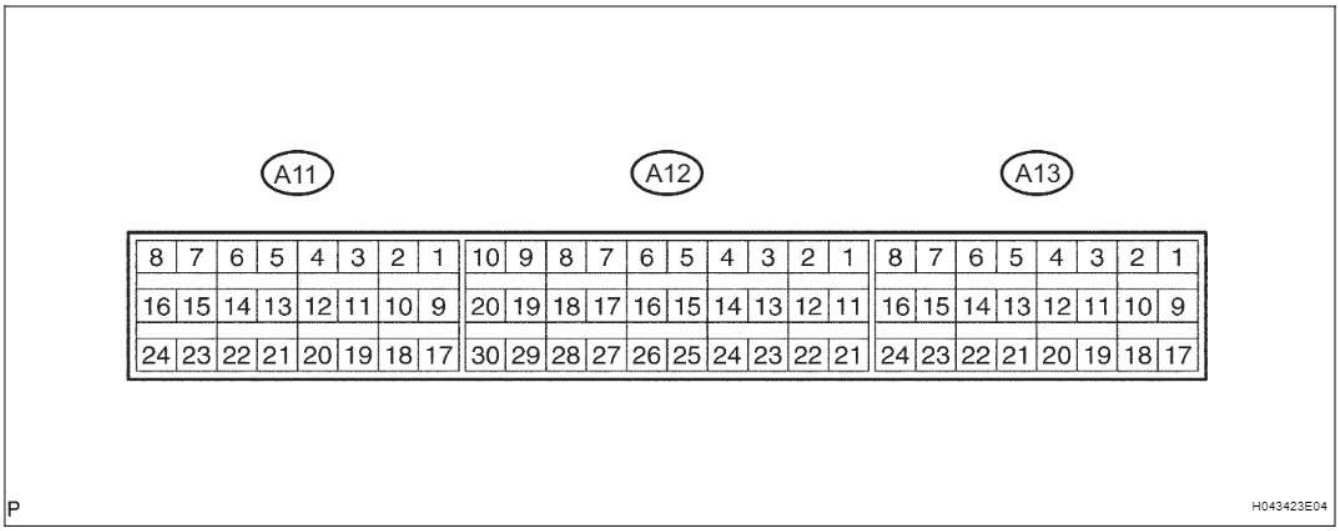
## AIRBAG SYSTEM:

RS

| Symptom | Suspected Area | See page |
|---|---|---|
| The SRS warning light goes off after the primary check, but then comes on. | SRS Warning Light Remains ON | RS-234 |
| With the ignition switch to the ON position, the SRS warning light sometimes comes on after approximately 6 seconds. | SRS Warning Light Remains ON | RS-234 |
| The SRS warning light always comes on even when DTC is not output. | SRS Warning Light Remains ON | RS-234 |
| With the ignition switch to the ON position, the SRS warning light does not come on. | SRS Warning Light does not Come ON | RS-239 |
| Although an SRS warning light operates normally, DTC or a normal system code is not displayed. | TC and CG terminal circuit | RS-241 |
| Although terminals TC and CG of DLC3 are not connected, DTC or a normal system code is displayed. | TC and CG terminal circuit | RS-241 |

# TERMINALS OF ECU

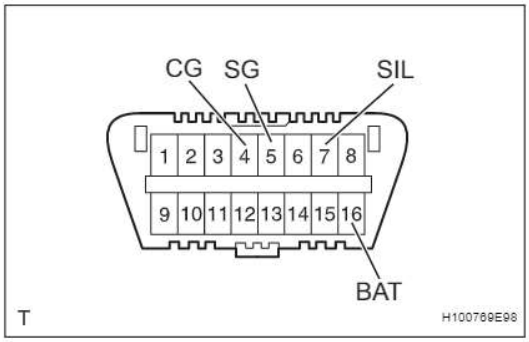
## 1. CENTER AIRBAG SENSOR ASSEMBLY




| Terminal No. | Terminal Symbol | Terminal Name |
|---|---|---|
| A11-1 (*1) | SFD+ | Side airbag assembly LH (Side squib LH) |
| A11-2 (*1) | SFD- | Side airbag assembly LH (Side squib LH) |
| A11-3 (*1) | ICD- | Curtain shield airbag assembly LH (Curtain shield squib LH) |
| A11-4 (*1) | ICD+ | Curtain shield airbag assembly LH (Curtain shield squib LH) |
| A11-5 | PD+ | Front seat outer belt assembly LH (Pretensioner squib LH) |
| A11-6 | PD- | Front seat outer belt assembly LH (Pretensioner squib LH) |
| A11-9 | DSP+ | Seat position airbag sensor |
| A11-10 | DBE+ | Front seat inner belt assembly LH |
| A11-17 | DSP- | Seat position airbag sensor |
| A11-18 | DBE- | Front seat inner belt assembly LH |
| A11-19 (*1) | VUPD | Side airbag sensor assembly |
| A11-20 (*1) | VUCD | Rear airbag sensor LH |
| A11-21 (*1) | ESD | Side airbag sensor assembly |
| A11-22 (*1) | ESCD | Rear airbag sensor LH |
| A12-1 | P2+ | Front passenger airbag assembly (Passenger squib, Dual stage - 2nd step) |
| A12-2 | P2- | Front passenger airbag assembly (Passenger squib, Dual stage - 2nd step) |
| A12-3 | P- | Front passenger airbag assembly (Passenger squib) |
| A12-4 | P+ | Front passenger airbag assembly (Passenger squib) |
| A12-5 | D+ | Horn button assembly (Driver squib) |
| A12-6 | D- | Horn button assembly (Driver squib) |
| A12-7 | D2- | Horn button assembly (Driver squib, Dual stage - 2nd step) |

| Terminal No. | Terminal Symbol | Terminal Name |
|---|---|---|
| A12-8 | D2+ | Horn button assembly (Driver squib, Dual stage - 2nd step) |
| A12-9 | DK+ | No. 1 instrument panel airbag assembly lower (Knee airbag squib) |
| A12-10 | DK- | No. 1 instrument panel airbag assembly lower (Knee airbag squib) |
| A12-13 | PBEW | Passenger seat belt warning light |
| A12-14 | LA | Combination meter assembly (SRS warning light) |
| A12-15 | TC | DLC3 |
| A12-16 | SIL | DLC3 |
| A12-17 | P-AB | Heater control base (Passenger airbag ON/ OFF indicator) |
| A12-21 | IG2 | IG2 fuse (Power source) |
| A12-22 | GSW2 | ECM |
| A12-23 | PAON | Heater control base (Passenger airbag ON/ OFF indicator) |
| A12-25 | E1 | Ground |
| A12-26 | E2 | Ground |
| A12-27 | -SR | Front airbag sensor RH |
| A12-28 | -SL | Front airbag sensor LH |
| A12-29 | +SR | Front airbag sensor RH |
| A12-30 | +SL | Front airbag sensor LH |
| A13-3 | PP- | Front seat outer belt assembly RH (Pretensioner squib RH) |
| A13-4 | PP+ | Front seat outer belt assembly RH (Pretensioner squib RH) |
| A13-5 (*1) | ICP+ | Curtain shield airbag assembly RH (Curtain shield squib RH) |
| A13-6 (*1) | ICP- | Curtain shield airbag assembly RH (Curtain shield squib RH) |
| A13-7 (*1) | SFP- | Front seat airbag assembly RH (Side squib RH) |
| A13-8 (*1) | SFP+ | Front seat airbag assembly RH (Side squib RH) |
| A13-16 | FSP+ | Occupant classification ECU |
| A13-19 (*1) | ESCP | Rear airbag sensor RH |
| A13-20 (*1) | ESP | Side airbag sensor assembly RH |
| A13-21 (*1) | VUCP | Rear airbag sensor RH |
| A13-22 (*1) | VUPP | Side airbag sensor assembly RH |
| A13-24 | FSP- | Occupant classification ECU |

*1: with Side and Curtain Shield Airbag




# DIAGNOSIS SYSTEM

**1. CHECK DLC3**

(a) The ECU uses ISO 15765-4 for communication. The terminal arrangement of the DLC3 complies with SAE J1962 and matches the ISO 15765-4 format.

RS

| Symbols (Terminal No.) | Terminal Description | Condition | Specified Condition |
|---|---|---|---|
| SIL (7) - SG (5) | During transmission | 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 | Always | 10 to 14 V |

HINT:

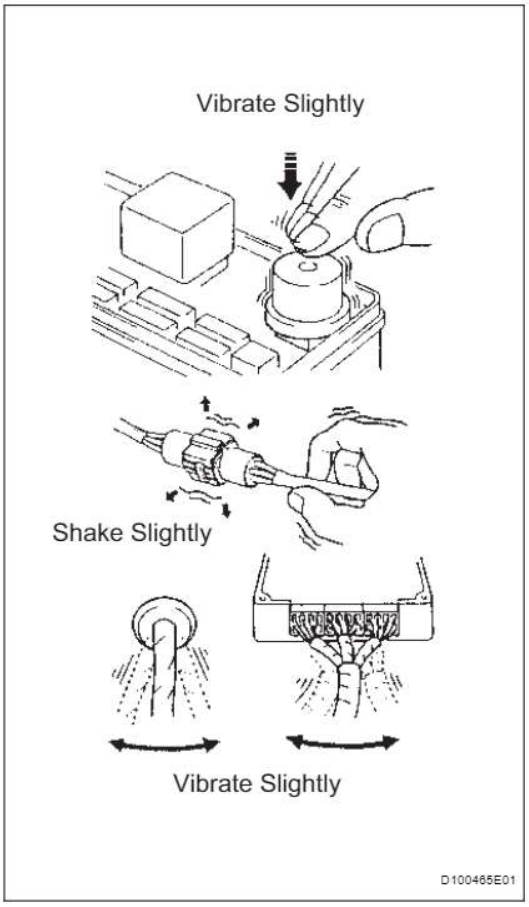
If the display shows UNABLE TO CONNECT TO VEHICLE when you connect the cable of the intelligent tester to the DLC3, turn the ignition switch to the ON position and operate the intelligent tester, there is a problem on the vehicle side or tester side.

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

**3. FUNCTION OF SRS WARNING LIGHT**

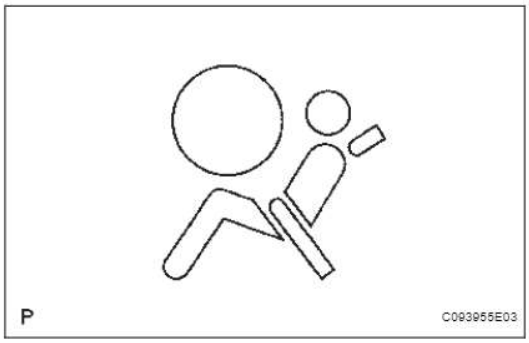
(a) Primary check
(1) Turn the ignition switch to the LOCK position. Wait for at least 2 seconds, and then turn the ignition switch to the ON position. The SRS warning light comes on for approximately 6 seconds and the SRS airbag system diagnosis (including the seat belt pretensioner and occupant classification 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 constantly monitors the SRS airbag system for trouble.
HINT:
If trouble is detected during the constant check, the center airbag sensor functions as follows:
- The SRS warning light comes on.
- The SRS warning light go off, and then comes on. This blinking pattern indicates the source voltage drop. The SRS warning light goes off 10 seconds after the source voltage returns to normal.

(c) Review
(1) When the airbag system is normal:
The SRS warning light comes on only during the primary check period (for approximately 6 seconds after the ignition switch is turned to the ON position).
(2) When the airbag system has trouble:
- The SRS warning light remains on 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 ON position.

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




**4. SRS WARNING LIGHT CHECK**

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

(b) Check that the SRS warning light goes off approximately 6 seconds after the ignition switch is turned to the ON position (constant check).

HINT:
When any of the following symptoms occur, refer to "Problem Symptoms Table" (See page RS-9).

- The SRS warning light comes on occasionally after the primary check period has elapsed.
- The SRS warning light comes on, but DTC is not output.
- The ignition switch is turned from the LOCK to ON position, but the SRS warning light does not come on.

**5. FUNCTION OF PASSENGER AIRBAG ON/OFF INDICATOR**

(a) Initial check

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

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

(3) Approximately 6 seconds after the ignition switch is turned ON, the passenger airbag ON/OFF indicator will be ON or OFF depending on the conditions listed below.

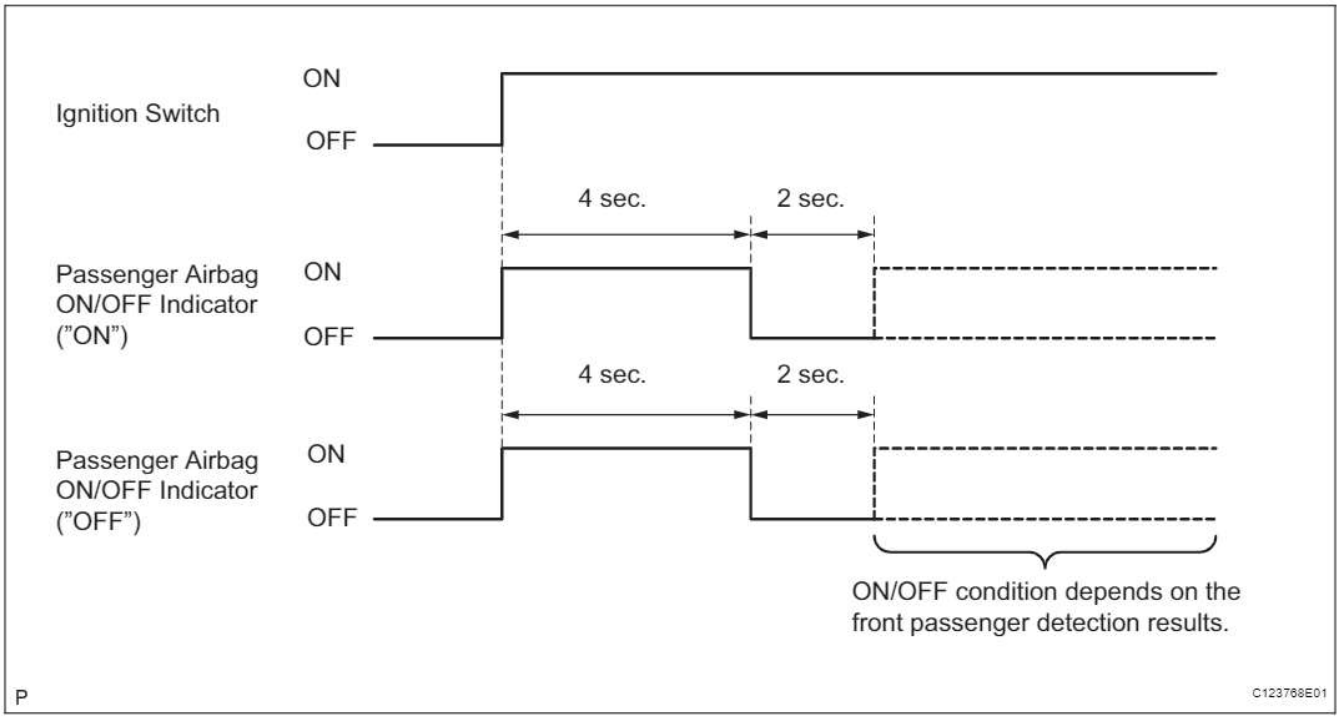
| Condition | Passenger airbag ON/ OFF indicator | | SRS warning light |
|---|---|---|---|
| | "ON" indicator | "OFF" indicator | |
| Vacant | OFF | OFF | OFF |
| Adult is seated. | ON | OFF | OFF |
| Child is seated. | OFF | ON | OFF |
| Child restraint system is set. | OFF | ON | OFF |
| Front passenger occupant classification failure | OFF | ON | ON |

HINT:

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

RS

- When the front passenger 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 "AIRBAG SYSTEM" first. Then troubleshoot the occupant classification system if DTC B1650/32 is detected, and troubleshoot the passenger airbag ON/OFF indicator if DTC B1660/43 is detected.







**6. PASSENGER AIRBAG ON/OFF INDICATOR CHECK**

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

(b) Check that the passenger airbag ON/OFF indicator ("ON" and "OFF") comes on for approximately 4 seconds, then goes off for approximately 2 seconds.
HINT:
Refer to the table in the previous step regarding the passenger airbag ON/OFF indicator when the ignition switch is turned to the ON position and approximately 6 seconds pass.

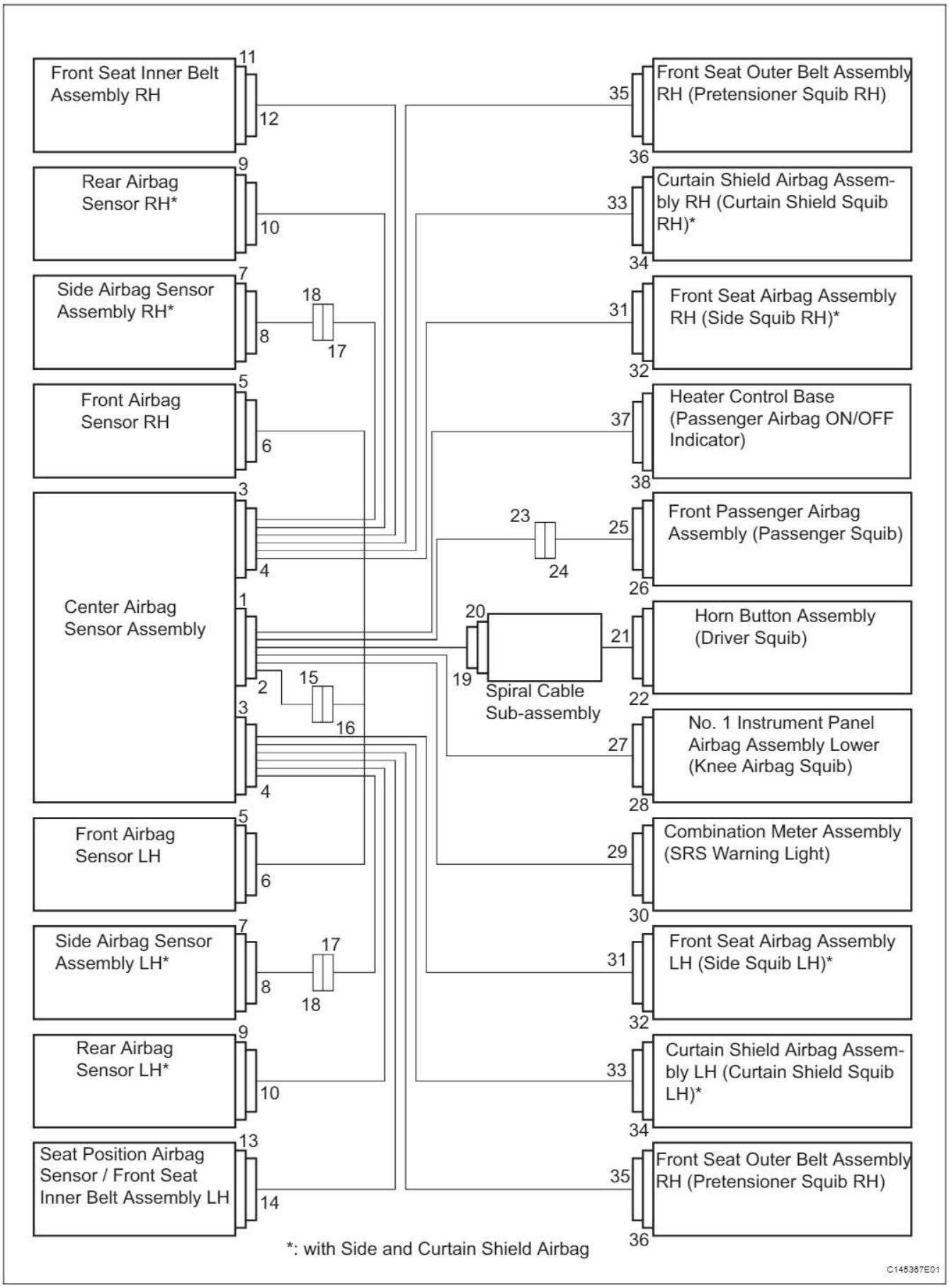
**7. RELEASE METHOD OF ACTIVATION PREVENTION MECHANISM**

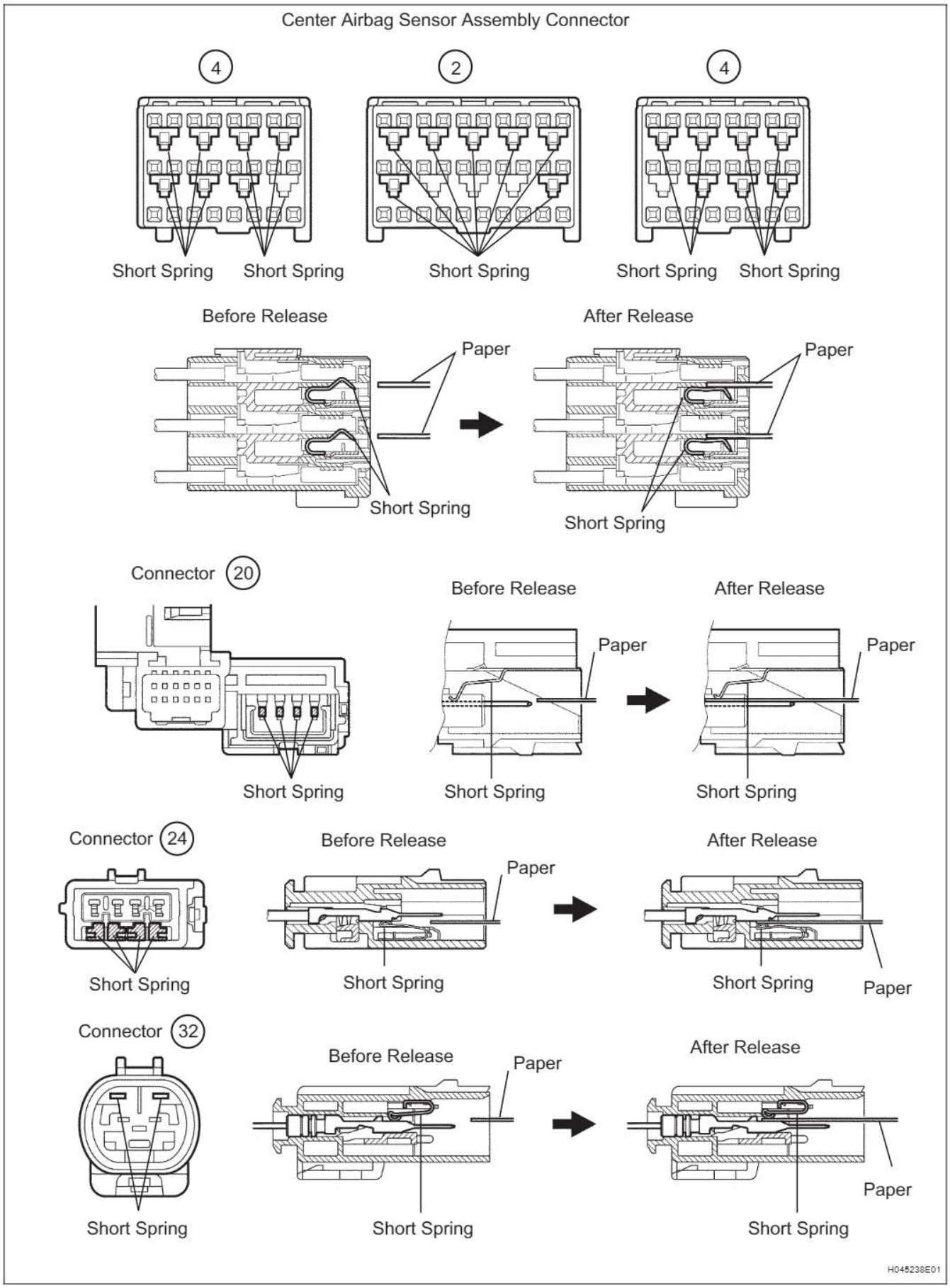
(a) The activation prevention mechanism is built into the connector for the squib circuit of the SRS.
As explained in the troubleshooting section, insert a piece of paper that is the same thickness as the male terminal between the terminal and the short spring to release it (Refer to the illustration below).
**CAUTION:**
**Never release the activation prevention mechanism on the squib connector even when inspection with the squib disconnected.**

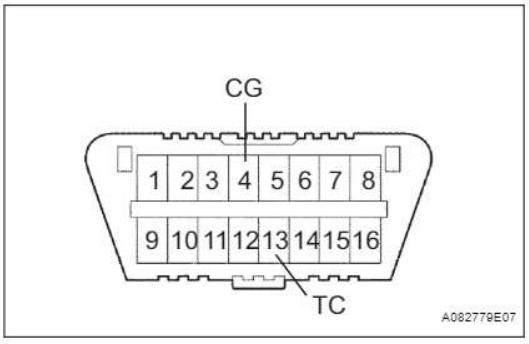
**NOTICE:**

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

RS


Front Seat Inner Belt Assembly RH
11
12
Rear Airbag Sensor RH*
9
10
Side Airbag Sensor Assembly RH*
7
8
18
17
Front Airbag Sensor RH
5
6
Center Airbag Sensor Assembly
3
4
1
2
15
16
3
4
Front Airbag Sensor LH
5
6
Side Airbag Sensor Assembly LH*
7
8
17
18
Rear Airbag Sensor LH*
9
10
Seat Position Airbag Sensor / Front Seat Inner Belt Assembly LH
13
14
Front Seat Outer Belt Assembly RH (Pretensioner Squib RH)
35
36
Curtain Shield Airbag Assembly RH (Curtain Shield Squib RH)*
33
34
Front Seat Airbag Assembly RH (Side Squib RH)*
31
32
Heater Control Base (Passenger Airbag ON/OFF Indicator)
37
38
Front Passenger Airbag Assembly (Passenger Squib)
23
24
25
26
Horn Button Assembly (Driver Squib)
20
19
21
22
Spiral Cable Sub-assembly
No. 1 Instrument Panel Airbag Assembly Lower (Knee Airbag Squib)
27
28
Combination Meter Assembly (SRS Warning Light)
29
30
Front Seat Airbag Assembly LH (Side Squib LH)*
31
32
Curtain Shield Airbag Assembly LH (Curtain Shield Squib LH)*
33
34
Front Seat Outer Belt Assembly RH (Pretensioner Squib RH)
35
36
*: with Side and Curtain Shield Airbag
C145367E01


Center Airbag Sensor Assembly Connector
4
2
4
Short Spring
Short Spring
Short Spring
Short Spring
Short Spring
Before Release
After Release
Paper
Paper
Short Spring
Short Spring
Connector 20
Before Release
After Release
Paper
Paper
Short Spring
Short Spring
Short Spring
Connector 24
Before Release
After Release
Paper
Short Spring
Short Spring
Short Spring
Paper
Connector 32
Before Release
After Release
Paper
Paper
Short Spring
Short Spring
Short Spring
H045238E01




# DTC CHECK / CLEAR

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

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

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

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

**SST 09843-18040**

**NOTICE:**

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

(b) Check the DTCs (Past trouble code).

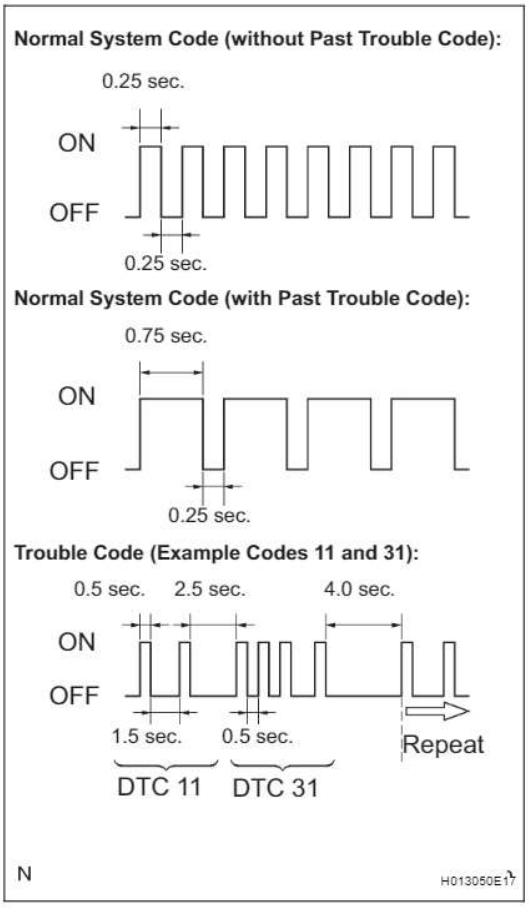
(1) Using SST, connect terminals TC and CG of the DLC3.

**SST 09843-18040**

**NOTICE:**

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

(2) Turn the ignition switch to the ON position, 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 (without past trouble code)
  The light blinks twice per second.
- Normal system code indication (with past trouble code)
  When the past trouble code is stored in the center airbag sensor assembly, the light blinks only once per second.
- Trouble code indication
  The first blinks indicates the first DTC. The second blinks 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 then they will all 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 "TC and CG Terminal Circuit" (See page RS-241).

**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.

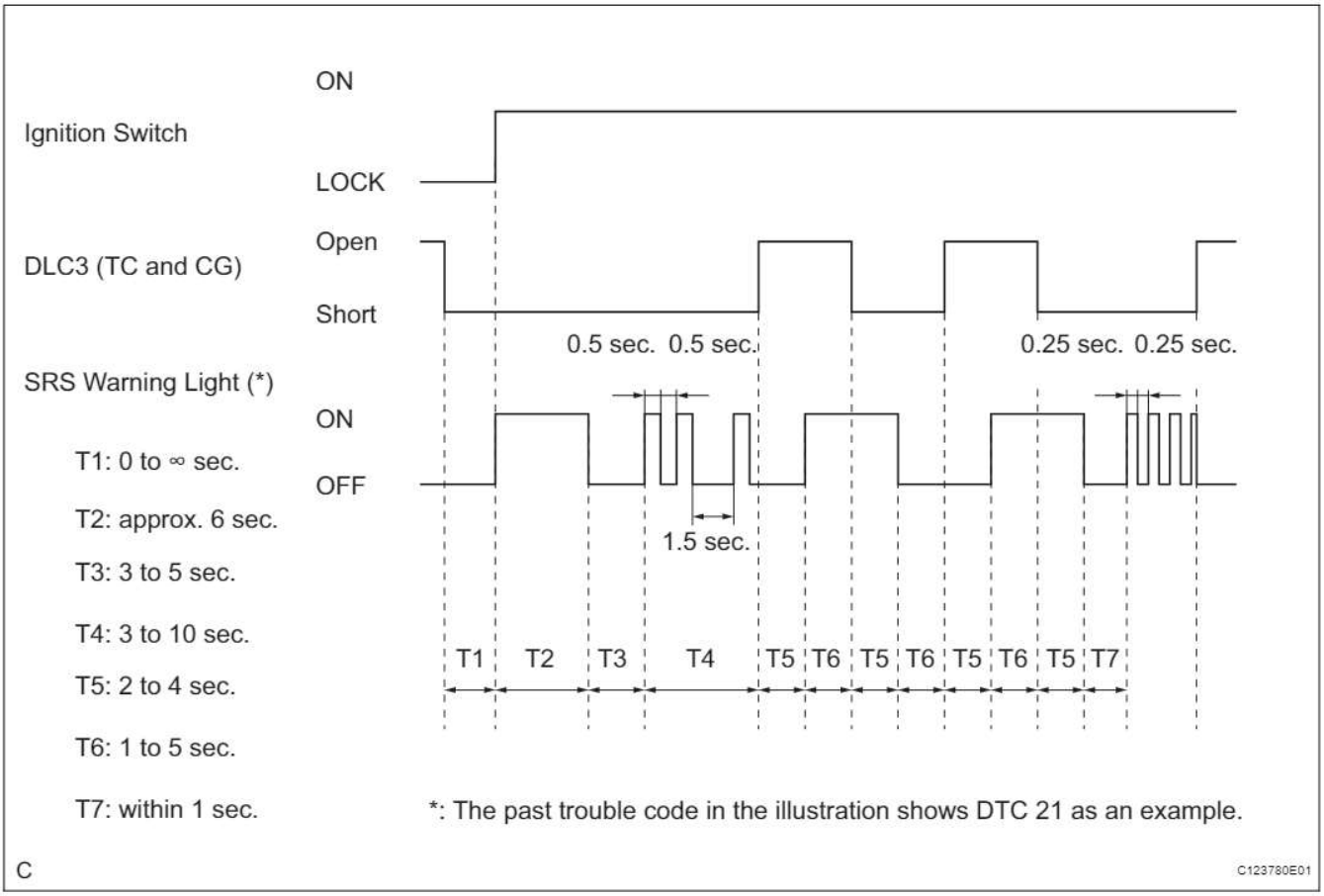
(4) Within 2 to 4 seconds after the SRS warning light comes on, connect terminals TC and CG of the DLC3.

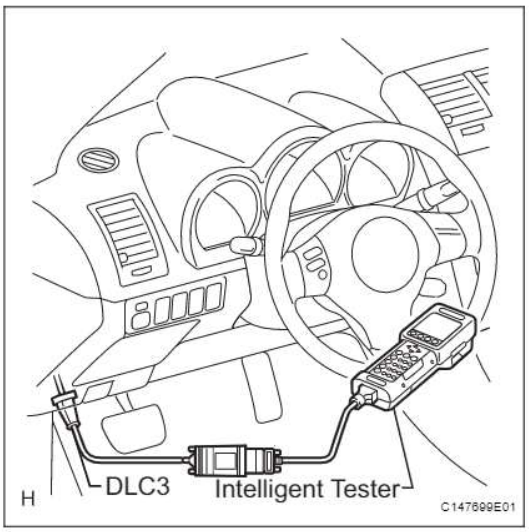
(5) The SRS warning light should go off within 2 to 4 seconds after connecting terminals TC and CG of the DLC3. Then, disconnect terminal TC within 2 to 4 seconds after the SRS warning light goes off.

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

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



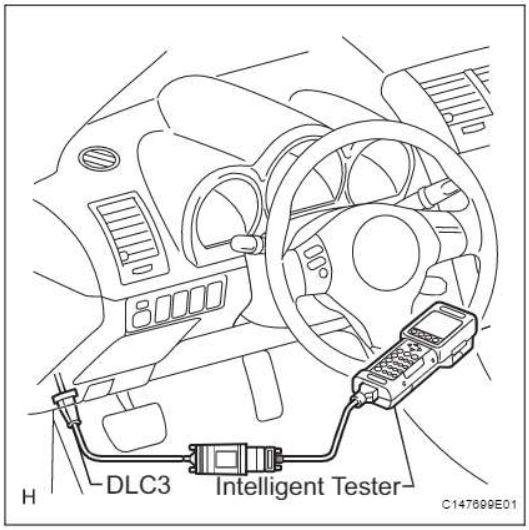



**3. DTC CHECK**

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

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




# CHECK MODE PROCEDURE

**1. CHECK MODE (SIGNAL CHECK): DTC CHECK**

(a) Connect the intelligent tester to the DLC3.

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

(c) Select "SIGNAL CHECK", and proceed with checking using the intelligent tester.

**NOTICE:**

**Select "SIGNAL CHECK" from the "DTC CHECK" screen displayed on the intelligent tester to clear the output DTCs (both present and past).**

HINT:

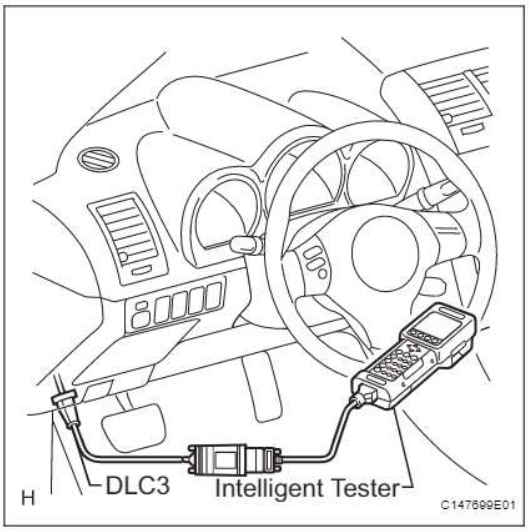
- DTCs can be detected more sensitively in check mode than in normal diagnosis mode.
- Perform check mode inspection when a malfunction in each squib circuit is suspected even after the normal system code is output through normal diagnosis mode inspection.

RS

RS

# DATA LIST / ACTIVE TEST

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




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

(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 / SRS AIRBAG / DATA LIST.
(e) Check the values by referring to the table below.

**DATA LIST:**

| Tester Display | Measurement Item/Range | Normal Condition | Diagnostic Note |
|---|---|---|---|
| D SEAT POSITION | Driver Seat Position/<br>FORWARD: Seat position is forward<br>BKWARD: Seat position is backward<br>FAIL: Failure detected | FORWARD/BKWARD | - |
| PASSENGER CLASS | Passenger Classification/<br>NG: Data is not determined<br>OFF: Vacant<br>CHILD: Child (less than 36 kg (79.37 lb)) is seated<br>AF05: Adult (36 to 54 kg (79.37 to 119.05 lb) is seated<br>AM50: Adult (more than 54 kg (119.05 lb)) is seated<br>FAIL: A failure is detected | OFF/CHILD/AF05/AM50 | - |
| D BUCKLE SW | Driver Buckle SW/<br>UNSET: The seat belt is not fastened<br>SET: The seat belt is fastened<br>NG: Data is not determined | UNSET/SET | - |
| P BUCKLE SW | Passenger Buckle SW/<br>UNSET: The seat belt is not fastened<br>SET: The seat belt is fastened<br>NG: Data is not determined | UNSET/SET | - |
| PAST CODES | Number of Past DTC/<br>Min.: 0, Max.: 255 | 0 | - |

## TYPE INFO:

| Tester Display | Measurement Item/Range | Normal Condition | Diagnostic Note |
|---|---|---|---|
| DISPLAY TYPE | Display Type Information/<br>LR: The display is indicated by LH/RH<br>DP: The display is indicated by Driver/Passenger | DP | - |

RS

# DIAGNOSTIC TROUBLE CODE CHART

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

HINT:

- When the SRS warning light remains on and the DTC output is the normal system code, a voltage source drop is likely occurring. This malfunction is not stored in the 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, short to B+, or squib malfunction, other trouble codes may not be detected. In this case, repair the malfunction currently indicated and then reinspect the system.
- Mark in the check mode column:
  *1: DTC is not corresponding to the check mode.
  *2: DTC is corresponding to the check mode.
- DTC which has the mark of the *3 is output only the equipped car of side and curtain shield airbag.

## AIRBAG SYSTEM

| DTC Code | Detection Item | Trouble Area | Check Mode | See page |
|---|---|---|---|---|
| B1000/31 | Center Airbag Sensor Assembly Malfunction | Center airbag sensor assembly | *1 | RS-27 |
| B1610/13 | Front Airbag Sensor RH Circuit Malfunction | 1. Front airbag sensor RH<br>2. Center airbag sensor assembly<br>3. Instrument panel wire<br>4. Engine room main wire | *1 | RS-28 |
| B1615/14 | Front Airbag Sensor LH Circuit Malfunction | 1. Front airbag sensor LH<br>2. Center airbag sensor assembly<br>3. Instrument panel wire<br>4. Engine room main wire | *1 | RS-37 |
| B1620/21 (*3) | Side Airbag Sensor RH Circuit Malfunction | 1. Side airbag sensor assembly RH (door side airbag sensor RH)<br>2. Center airbag sensor assembly<br>3. No. 2 floor wire<br>4. Front door wire RH | *1 | RS-46 |
| B1625/22 (*3) | Side Airbag Sensor LH Circuit Malfunction | 1. Side airbag sensor assembly RH (door side airbag sensor RH)<br>2. Center airbag sensor assembly<br>3. Floor wire<br>4. Front door wire LH | *1 | RS-53 |
| B1630/23 (*3) | Driver Side Rear Airbag Sensor Circuit Malfunction | 1. Rear airbag sensor LH<br>2. Center airbag sensor assembly<br>3. Floor wire | *1 | RS-60 |

| DTC Code | Detection Item | Trouble Area | Check Mode | See page |
|---|---|---|---|---|
| B1635/24 (*3) | Front Passenger Side Rear Airbag Sensor Circuit Malfunction | 1. Rear airbag sensor RH<br>2. Center airbag sensor assembly<br>3. Floor wire No. 2 | *1 | RS-65 |
| B1650/32 | Occupant Classification System Malfunction | 1. Floor wire No. 2<br>2. Occupant classification system<br>3. Center airbag sensor assembly | *1 | RS-70 |
| B1653/35 | Seat Position Airbag Sensor Circuit Malfunction | 1. Floor wire<br>2. Front seat inner belt assembly LH<br>3. Seat position airbag sensor<br>4. Center airbag sensor assembly | *1 | RS-76 |
| B1655/37 | Driver Side Seat Belt Buckle Switch Circuit Malfunction | 1. Front seat inner belt assembly LH (seat belt buckle switch (driver side))<br>2. Center airbag sensor assembly<br>3. Floor wire | *1 | RS-86 |
| B1660/43 | Passenger Airbag ON / OFF Indicator Circuit Malfunction | 1. Instrument panel wire<br>2. Heater control base (Passenger airbag ON/ OFF indicator)<br>3. Center airbag sensor assembly | *1 | RS-92 |
| B1800/51 | Short in Driver Side Squib Circuit | 1. Horn button assembly (driver side squib)<br>2. Spiral cable sub-assembly<br>3. Center airbag sensor assembly<br>4. Instrument panel wire | *2 | RS-104 |
| B1801/51 | Open in Driver Side Squib Circuit | Same as DTC B1800/51 | *2 | RS-104 |
| B1802/51 | Short to GND in Driver Side Squib Circuit | Same as DTC B1800/51 | *2 | RS-104 |
| B1803/51 | Short to B+ in Driver Side Squib Circuit | Same as DTC B1800/51 | *2 | RS-104 |
| B1805/52 | Short in Front Passenger Side Squib Circuit | 1. Instrument panel wire<br>2. Instrument panel wire assembly<br>3. Front passenger airbag assembly (front passenger side squib)<br>4. Center airbag sensor assembly | *2 | RS-118 |
| B1806/52 | Open in Front Passenger Side Squib Circuit | Same as DTC B1805/52 | *2 | RS-118 |
| B1807/52 | Short to GND in Front Passenger Side Squib Circuit | Same as DTC B1805/52 | *2 | RS-118 |
| B1808/52 | Short to B+ in Front Passenger Side Squib Circuit | Same as DTC B1805/52 | *2 | RS-118 |

| DTC Code | Detection Item | Trouble Area | Check Mode | See page |
|---|---|---|---|---|
| B1810/53 | Short in Driver Side Squib 2nd Step Circuit | 1. Horn button assembly (driver side squib, dual stage - 2nd step)<br>2. Spiral cable sub-assembly<br>3. Center airbag sensor assembly<br>4. Instrument panel wire | *2 | RS-132 |
| B1811/53 | Open in Driver Side Squib 2nd Step Circuit | Same as DTC B1810/53 | *2 | RS-132 |
| B1812/53 | Short to GND in Driver Side Squib 2nd Step Circuit | Same as DTC B1810/53 | *2 | RS-132 |
| B1813/53 | Short to B+ in Driver Side Squib 2nd Step Circuit | Same as DTC B1810/53 | *2 | RS-132 |
| B1815/54 | Short in Front Passenger Side Squib 2nd Step Circuit | 1. Front passenger airbag assembly (driver side squib, dual stage - 2nd step)<br>2. Center airbag sensor assembly<br>3. Instrument panel wire<br>4. Instrument panel wire assembly | *2 | RS-148 |
| B1816/54 | Open in Front Passenger Side Squib 2nd Step Circuit | Same as DTC B1815/54 | *2 | RS-148 |
| B1817/54 | Short to GND in Front Passenger Side Squib 2nd Step Circuit | Same as DTC B1815/54 | *2 | RS-148 |
| B1818/54 | Short to B+ in Front Passenger Side Squib 2nd Step Circuit | Same as DTC B1815/54 | *2 | RS-148 |
| B1820/55 (*3) | Short in Front Driver Side - Side Squib Circuit | 1. Front seat with adjuster frame assembly LH (side squib (driver side))<br>2. Center airbag sensor assembly<br>3. Floor wire | *2 | RS-165 |
| B1821/55 (*3) | Open in Front Driver Side - Side Squib Circuit | Same as DTC B1820/55 | *2 | RS-165 |
| B1822/55 (*3) | Short to GND in Front Driver Side - Side Squib Circuit | Same as DTC B1820/55 | *2 | RS-165 |
| B1823/55 (*3) | Short to B+ in Front Driver Side - Side Squib Circuit | Same as DTC B1820/55 | *2 | RS-165 |
| B1825/56 (*3) | Short in Front Passenger Side - Side Squib Circuit | 1. Front seat with adjuster frame assembly RH (side squib (front passenger side))<br>2. Center airbag sensor assembly<br>3. No. 2 floor wire | *2 | RS-175 |
| B1826/56 (*3) | Open in Front Passenger Side - Side Squib Circuit | Same as DTC B1825/56 | *2 | RS-175 |
| B1827/56 (*3) | Short to GND in Front Passenger Side - Side Squib Circuit | Same as DTC B1825/56 | *2 | RS-175 |
| B1828/56 (*3) | Short to B+ in Front Passenger Side - Side Squib Circuit | Same as DTC B1825/56 | *2 | RS-175 |

| DTC Code | Detection Item | Trouble Area | Check Mode | See page |
|---|---|---|---|---|
| B1830/57 (*3) | Short in Driver Side Curtain Shield Squib Circuit | 1. Curtain shield airbag assembly LH (curtain shield airbag (driver side) squib)<br>2. Center airbag sensor assembly<br>3. Floor wire | *2 | RS-185 |
| B1831/57 (*3) | Open in Driver Side Curtain Shield Squib Circuit | Same as DTC B1830/57 | *2 | RS-185 |
| B1832/57 (*3) | Short to GND in Driver Side Curtain Shield Squib Circuit | Same as DTC B1830/57 | *2 | RS-185 |
| B1833/57 (*3) | Short to B+ in Driver Side Curtain Shield Squib Circuit | Same as DTC B1830/57 | *2 | RS-185 |
| B1835/58 (*3) | Short in Front Passenger Side Curtain Shield Squib Circuit | 1. Curtain shield airbag assembly RH (curtain shield airbag (front passenger side) squib)<br>2. Center airbag sensor assembly<br>3. No. 2 floor wire | *2 | RS-195 |
| B1836/58 (*3) | Open in Front Passenger Side Curtain Shield Squib Circuit | Same as DTC B1835/58 | *2 | RS-195 |
| B1837/58 (*3) | Short to GND in Front Passenger Side Curtain Shield Squib Circuit | Same as DTC B1835/58 | *2 | RS-195 |
| B1838/58 (*3) | Short to B+ in Front Passenger Side Curtain Shield Squib Circuit | Same as DTC B1835/58 | *2 | RS-195 |
| B1860/64 | Short in Driver Side Knee Airbag Squib Circuit | 1. Instrument panel wire<br>2. No. 1 instrument panel airbag assembly lower (knee airbag squib)<br>3. Center airbag sensor assembly | *2 | RS-204 |
| B1861/64 | Open in Driver Side Knee Airbag Squib Circuit | Same as DTC B1860/64 | *2 | RS-204 |
| B1862/64 | Short to GND in Driver Side Knee Airbag Squib Circuit | Same as DTC B1860/64 | *2 | RS-204 |
| B1863/64 | Short to B+ in Driver Side Knee Airbag Squib Circuit | Same as DTC B1860/64 | *2 | RS-204 |
| B1900/73 | Short in Front Driver Side Pretensioner Squib Circuit | 1. Front seat outer belt assembly LH (pretensioner squib (driver side))<br>2. Center airbag sensor assembly<br>3. Floor wire | *2 | RS-213 |
| B1901/73 | Open in Front Driver Side Pretensioner Squib Circuit | Same as DTC B1900/73 | *2 | RS-213 |
| B1902/73 | Short to GND in Front Driver Side Pretensioner Squib Circuit | Same as DTC B1900/73 | *2 | RS-213 |
| B1903/73 | Short to B+ in Front Driver Side Pretensioner Squib Circuit | Same as DTC B1900/73 | *2 | RS-213 |

| DTC Code | Detection Item | Trouble Area | Check Mode | See page |
|---|---|---|---|---|
| B1905/74 | Short in Front Passenger Side Pretensioner Squib Circuit | 1. Front seat outer belt assembly RH (pretensioner squib (front passenger side))<br>2. Center airbag sensor assembly<br>3. No. 2 floor wire | *2 | RS-222 |
| B1906/74 | Open in Front Passenger Side Pretensioner Squib Circuit | Same as DTC B1905/74 | *2 | RS-222 |
| B1907/74 | Short to GND in Front Passenger Side Pretensioner Squib Circuit | Same as DTC B1905/74 | *2 | RS-222 |
| B1908/74 | Short to B+ in Front Passenger Side Front Pretensioner Squib Circuit | Same as DTC B1905/74 | *2 | RS-222 |

| DTC | B1000/31 | Center Airbag Sensor Assembly Malfunction |
|---|---|---|

## DESCRIPTION

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



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

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

## INSPECTION PROCEDURE

**1 CHECK FOR DTC**

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page RS-18).
(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-18).
**OK:**
**DTC B1000/31 is not output.**

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

**PERFORM SYMPTOM SIMULATION**

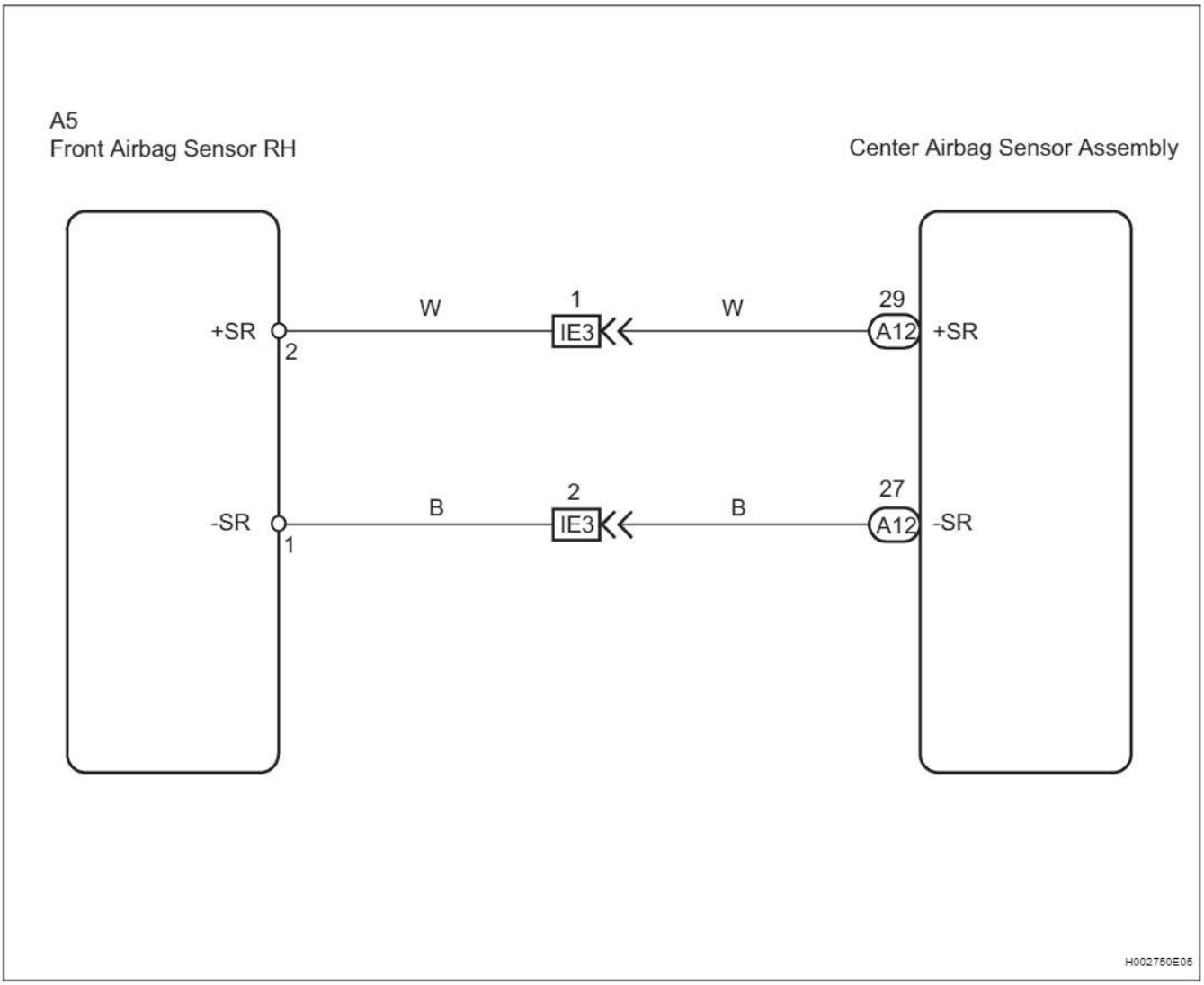
| DTC | B1610/13 | Front Airbag Sensor RH Circuit Malfunction |
|---|---|---|

## DESCRIPTION

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

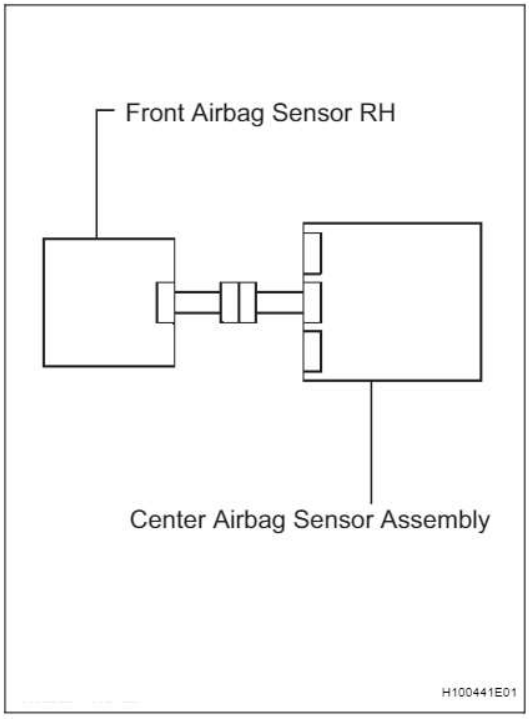
| DTC No, | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1610/13 | • The center airbag sensor assembly receives a line short signal, open signal, short to ground signal or B+ short signal in the front airbag sensor RH circuit for 2 seconds.<br>• Front airbag sensor RH malfunction<br>• Center airbag sensor assembly malfunction | • Front airbag sensor RH<br>• Center airbag sensor assembly<br>• Instrument panel wire<br>• Engine room main wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FOR 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-18).
(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 for DTCs (See page RS-18).

**OK:**

**DTC B1610/13 is not output.**

HINT:

Codes other than code B1610/13 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK

**PERFORM SYMPTOM SIMULATION**

| 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 and the front airbag sensor RH.

**OK:**

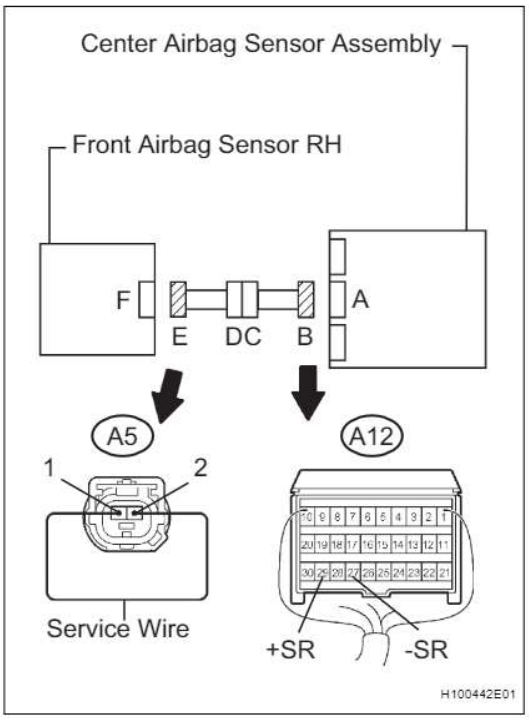
**The connectors are connected.**

NG → **CONNECT CONNECTORS**

OK

RS

| 3 | CHECK FRONT AIRBAG SENSOR RH CIRCUIT (OPEN) |
|---|---|



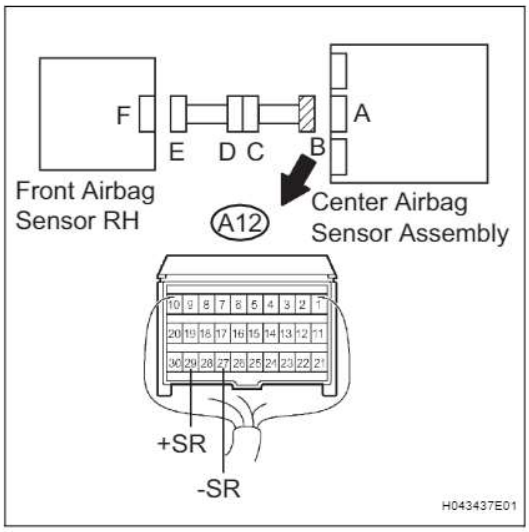

(a) Disconnect the connectors from the center airbag sensor.
(b) Disconnect the connectors from the horn button.
(c) Disconnect the connectors from the front passenger airbag.
(d) Disconnect the connector from the No. 1 instrument panel airbag lower.
(e) w/ Side and curtain shield airbag:
Disconnect the connector from the front seat airbag LH.
(f) w/ Side and curtain shield airbag:
Disconnect the connector from the front seat airbag RH.
(g) w/ Side and curtain shield airbag:
Disconnect the connector from the curtain shield airbag LH.
(h) w/ Side and curtain shield airbag:
Disconnect the connector from the curtain shield airbag RH.
(i) Disconnect the connector from the front seat outer belt LH.
(j) Disconnect the connector from the front seat outer belt RH.
(k) Using a service wire, connect A5-2 and A5-1 of connector "E".
**NOTICE:**
**Do not forcibly insert a service wire into the terminals of the connector when connecting.**
(l) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A12-29 (+SR) - A12-27 (-SR) | Below 1 Ω |

NG → **Go to step 8**

OK

## 4 CHECK FRONT AIRBAG SENSOR RH CIRCUIT (SHORT)




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

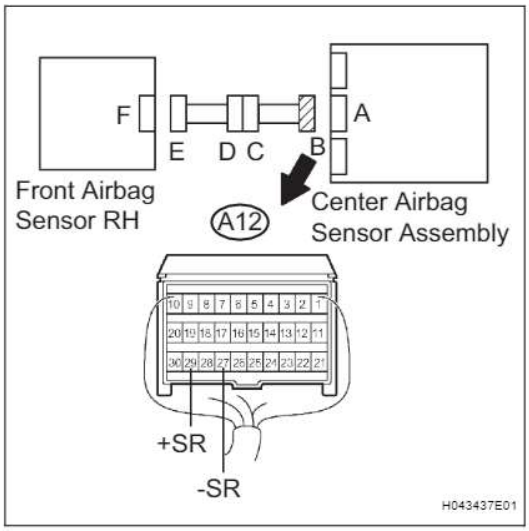
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A12-29 (+SR) - A12-27 (-SR) | 1 MΩ or higher |

NG → Go to step 9

OK

## 5 CHECK FRONT AIRBAG SENSOR RH CIRCUIT (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.

**Standard voltage**

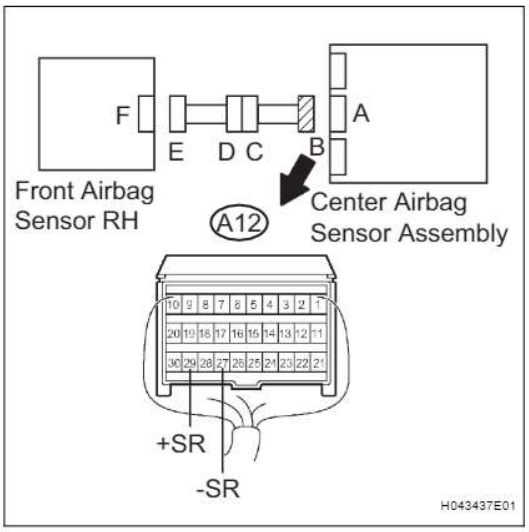
| Tester Connection | Specified Condition |
|---|---|
| A12-29 (+SR) - Body ground | Below 1 V |
| A12-27 (-SR) - Body ground | Below 1 V |

NG → Go to step 10

OK

RS

## 6 CHECK FRONT AIRBAG SENSOR RH CIRCUIT (TO GROUND)




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

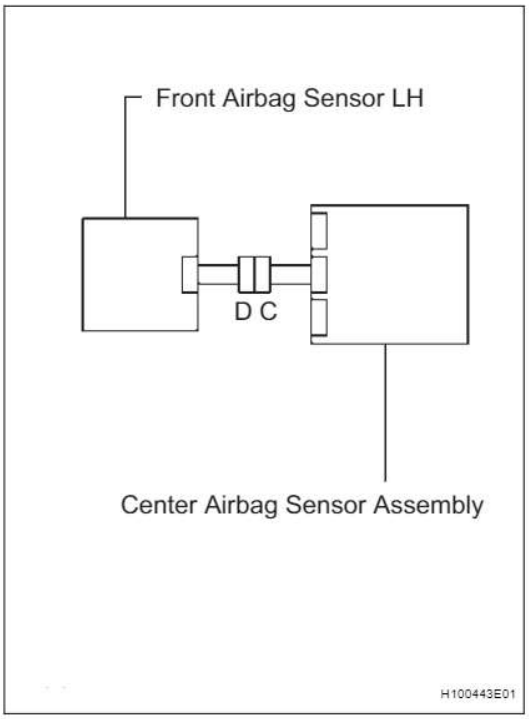
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A12-29 (+SR) - Body ground | 1 MΩ or higher |
| A12-27 (-SR) - Body ground | 1 MΩ or higher |

NG → **Go to step 11**

OK

## 7 CHECK FRONT AIRBAG SENSOR RH




(a) Connect the connectors to the center airbag sensor.
(b) Interchange the front 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-18).
(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-18).

**Result**

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

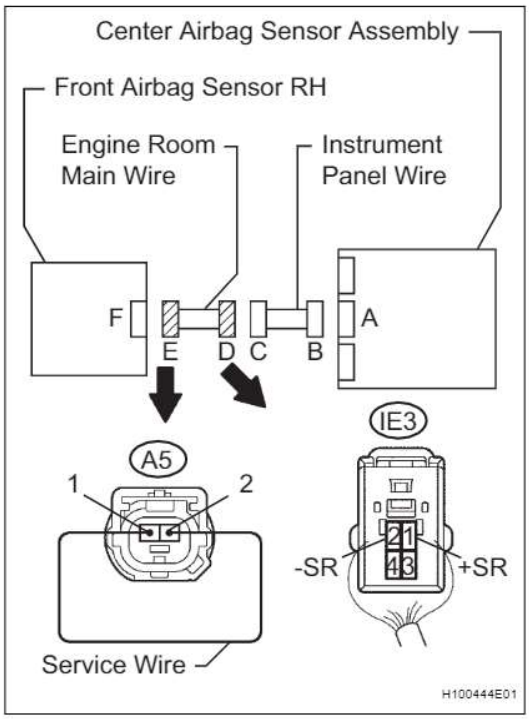
A → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

B → **REPLACE FRONT AIRBAG SENSOR RH**

C

**PERFORM SYMPTOM SIMULATION**

| 8 | CHECK ENGINE ROOM MAIN WIRE (OPEN) |
|---|---|




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

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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| IE3-1 (+SR) - IE3-2 (-SR) | Below 1 Ω |

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

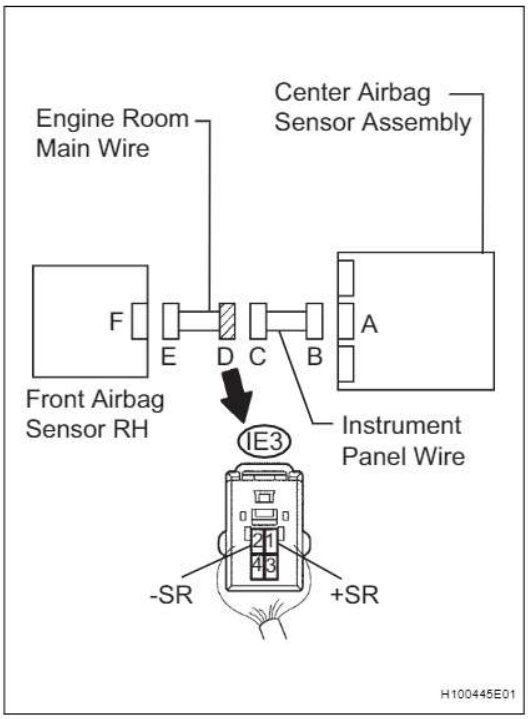
OK

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

RS

| 9 | CHECK ENGINE ROOM MAIN WIRE (SHORT) |
|---|---|

RS




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

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

**Standard resistance**

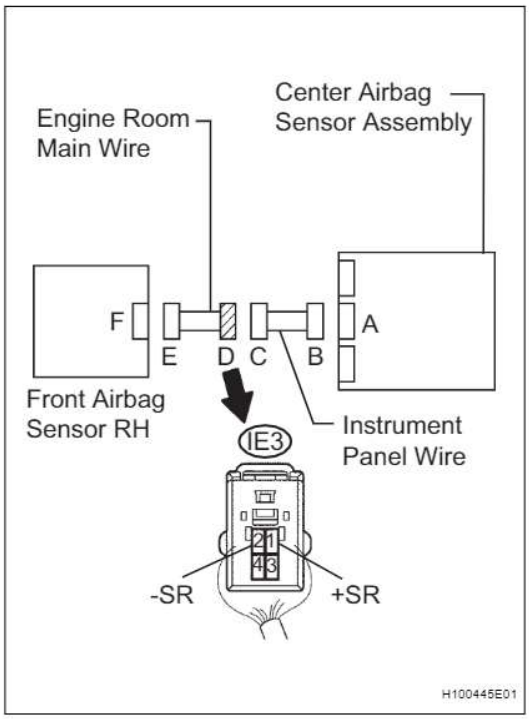
| Tester Connection | Specified Condition |
|---|---|
| IE3-1 (+SR) - IE3-2 (-SR) | 1 MΩ or higher |

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

OK

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

| 10 | CHECK ENGINE ROOM MAIN WIRE (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) Disconnect the negative (-) terminal cable from 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.

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| IE3-1 (+SR) - Body ground | Below 1 V |
| IE3-2 (-SR) - Body ground | Below 1 V |

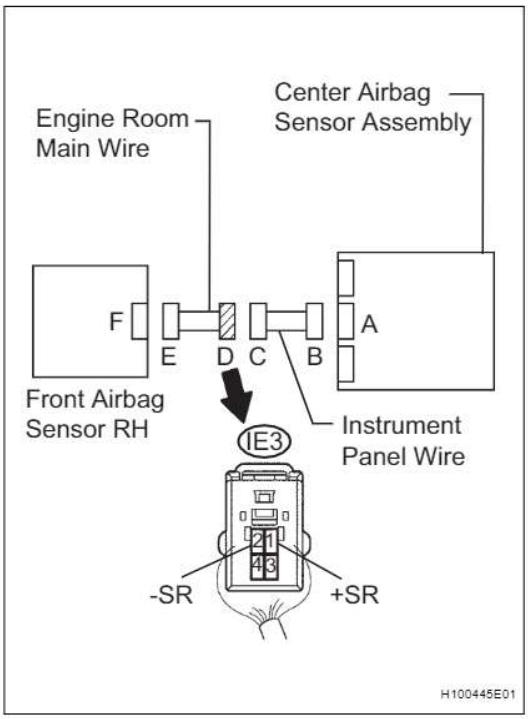
NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

RS

| 11 | CHECK ENGINE ROOM MAIN WIRE (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.

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| IE3-1 (+SR) - Body ground | 1 MΩ or higher |
| IE3-2 (-SR) - Body ground | 1 MΩ or higher |

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

OK

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

| DTC | B1615/14 | Front Airbag Sensor LH Circuit Malfunction |
|---|---|---|

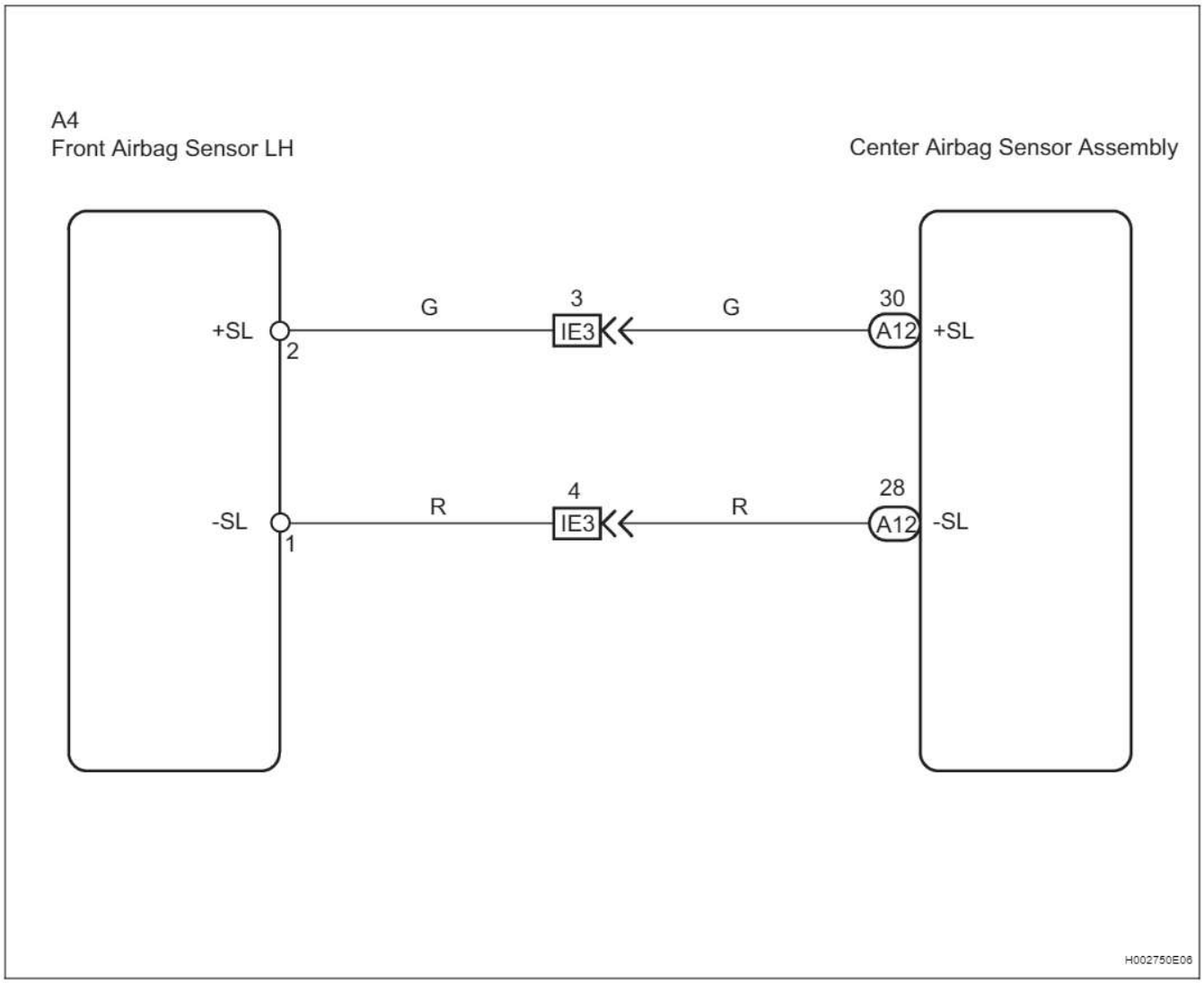
## DESCRIPTION

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



| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1615/14 | • The center airbag sensor assembly receives a line short signal, open signal, short to ground signal or B+ short signal in the front airbag sensor LH circuit for 2 seconds.<br>• Front airbag sensor LH malfunction<br>• Center airbag sensor assembly malfunction | • Front airbag sensor LH<br>• Center airbag sensor assembly<br>• Instrument panel wire<br>• Engine room main wire |

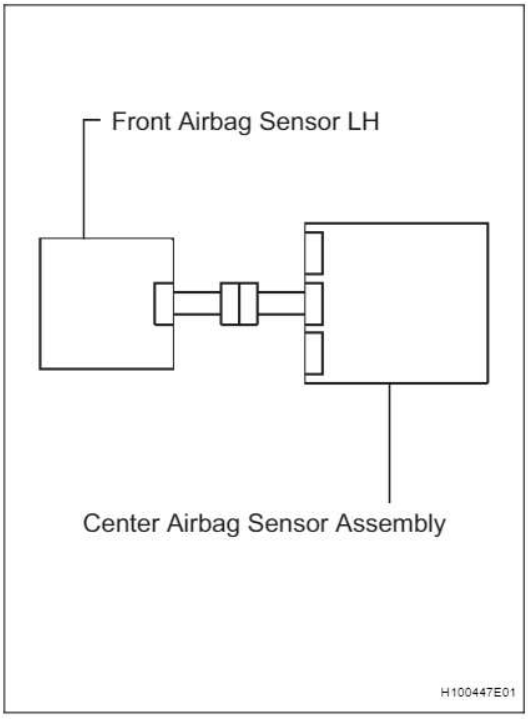
## WIRING DIAGRAM



## INSPECTION PROCEDURE

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

RS




(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-18).
(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 for DTCs (See page RS-18).

**OK:**

**DTC B1615/14 is not output.**

HINT:

Codes other than code B1615/14 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK

**PERFORM SYMPTOM SIMULATION**

| 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 and the front airbag sensor LH.

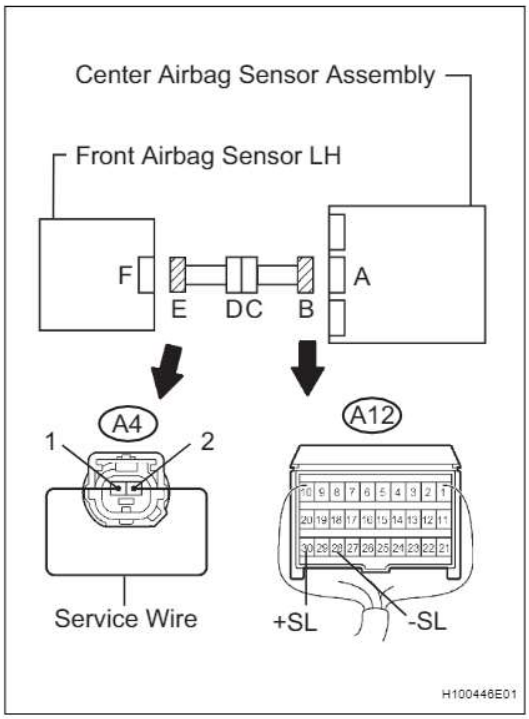
**OK:**

**The connectors are connected.**

NG → **CONNECT CONNECTORS**

OK

## 3 CHECK FRONT AIRBAG SENSOR LH CIRCUIT (OPEN)




(a) Disconnect the connectors from the center airbag sensor.
(b) Disconnect the connectors from the horn button.
(c) Disconnect the connectors from the front passenger airbag.
(d) Disconnect the connector from the No. 1 instrument panel airbag lower.
(e) w/ Side and curtain shield airbag:
Disconnect the connector from the front seat airbag LH.
(f) w/ Side and curtain shield airbag:
Disconnect the connector from the front seat airbag RH.
(g) w/ Side and curtain shield airbag:
Disconnect the connector from the curtain shield airbag LH.
(h) w/ Side and curtain shield airbag:
Disconnect the connector from the curtain shield airbag RH.
(i) Disconnect the connector from the front seat outer belt LH.
(j) Disconnect the connector from the front seat outer belt RH.
(k) Using a service wire, connect A4-2 and A4-1 of connector "E".
**NOTICE:**
**Do not forcibly insert a service wire into the terminals of the connector when connecting.**
(l) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

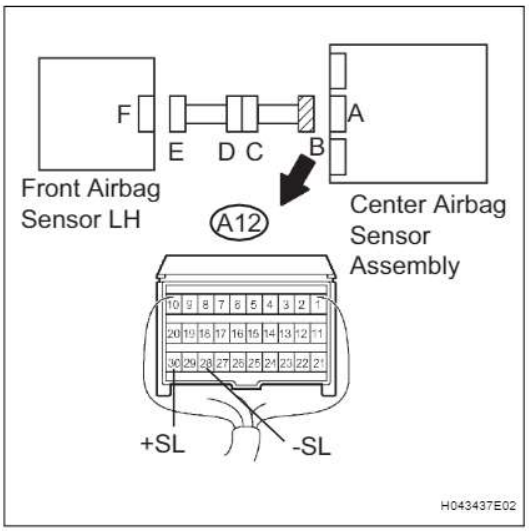
| Tester Connection | Specified Condition |
|---|---|
| A12-30 (+SL) - A12-28 (-SL) | Below 1 Ω |

NG → **Go to step 8**

OK

RS

## 4 CHECK FRONT AIRBAG SENSOR LH CIRCUIT (SHORT)




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

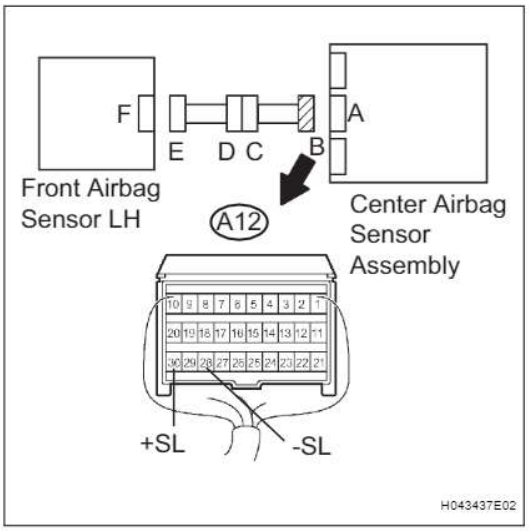
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A12-30 (+SL) - A12-28 (-SL) | 1 MΩ or higher |

NG → Go to step 9

OK

## 5 CHECK FRONT AIRBAG SENSOR LH CIRCUIT (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.

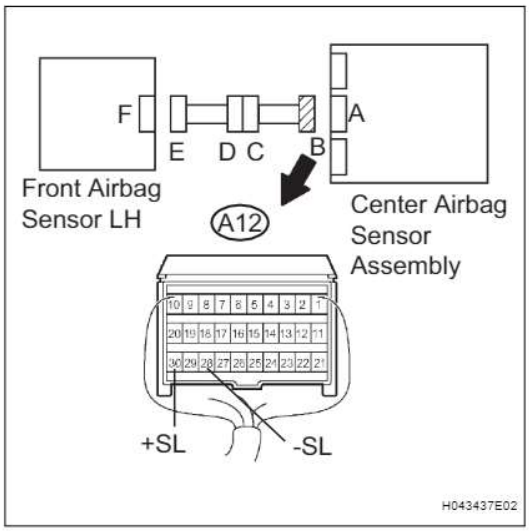
**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| A12-30 (+SL) - Body ground | Below 1 V |
| A12-28 (-SL) - Body ground | Below 1 V |

NG → Go to step 10

OK

## 6 CHECK FRONT AIRBAG SENSOR LH CIRCUIT (TO GROUND)




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

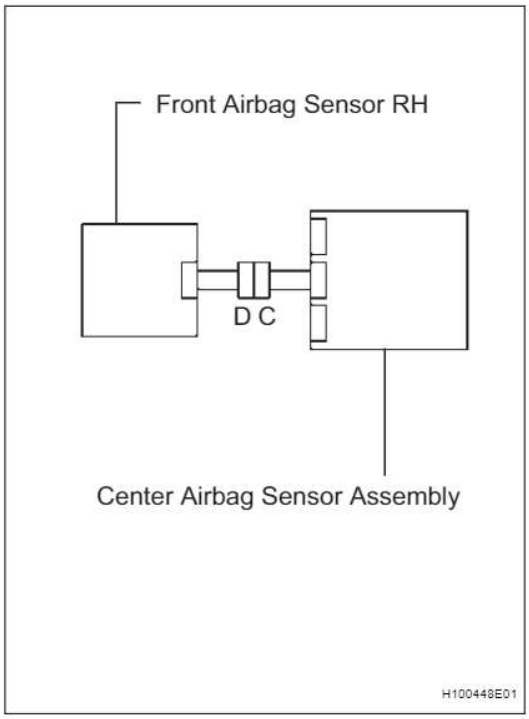
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A12-30 (+SL) - Body ground | 1 MΩ or higher |
| A12-28 (-SL) - Body ground | 1 MΩ or higher |

NG → **Go to step 11**

OK

## 7 CHECK FRONT AIRBAG SENSOR LH




(a) Connect the connectors to the center airbag sensor.
(b) Interchange the front airbag sensor LH with RH and connect the connectors to them.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (See page RS-18).
(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 for DTCs (See page RS-18).

**Result**

| Result | Proceed to |
|---|---|
| DTC B1615/14 is output. | A |
| DTC B1610/13 is output. | B |
| DTC B1610/13 and B 1615/14 are not output. | C |

A → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

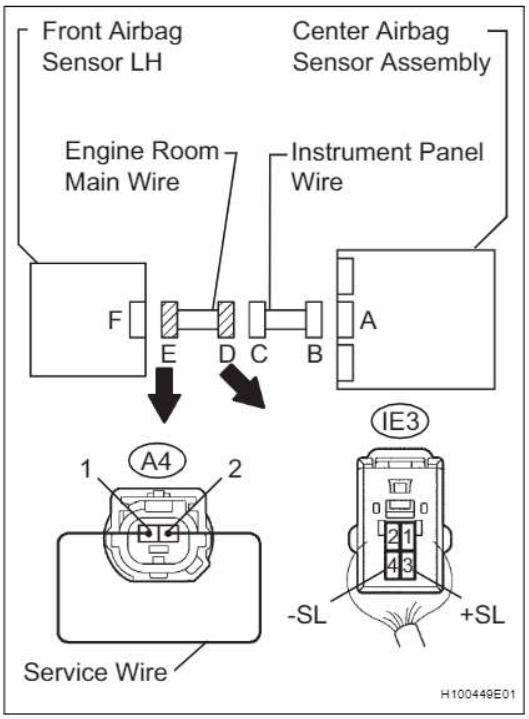
B → **REPLACE FRONT AIRBAG SENSOR LH**

C

**PERFORM SYMPTOM SIMULATION**

RS

| 8 | CHECK ENGINE ROOM MAIN WIRE (OPEN) |
|---|---|




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

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

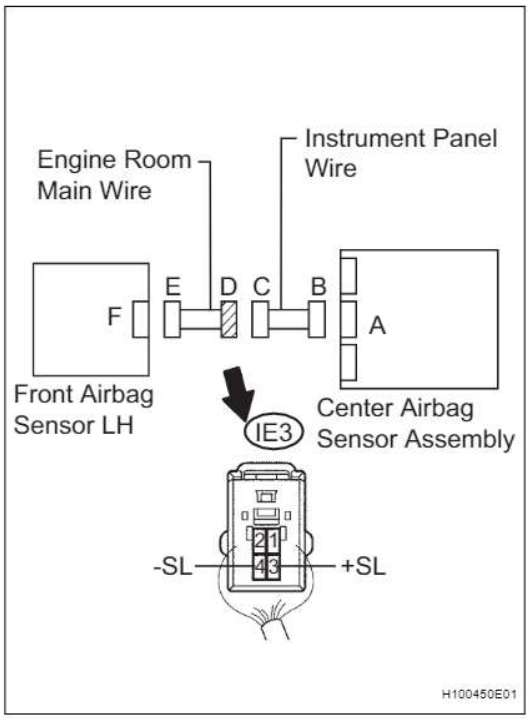
| Tester Connection | Specified Condition |
|---|---|
| IE3-3 (+SL) - IE3-4 (-SL) | Below 1 Ω |

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

OK

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

| 9 | CHECK ENGINE ROOM MAIN WIRE |
|---|---|




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

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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| IE3-3 (+SL) - IE3-4 (-SL) | 1 MΩ or higher |

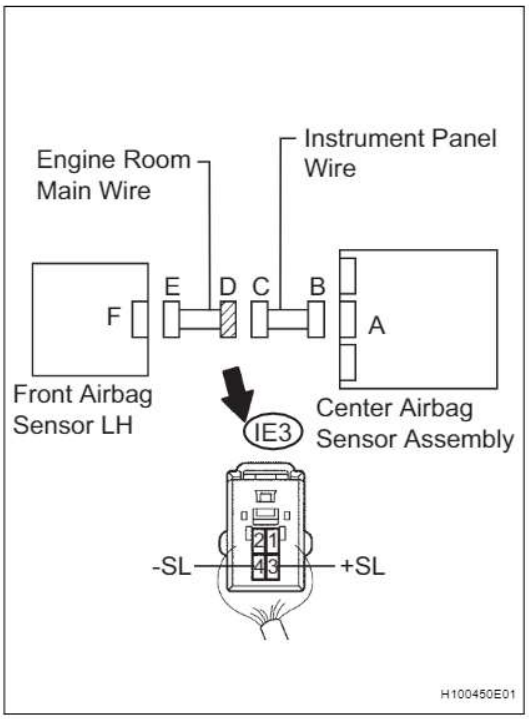
NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

| 10 | CHECK ENGINE ROOM MAIN WIRE (TO B+) |
|---|---|

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 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.

**Standard voltage**

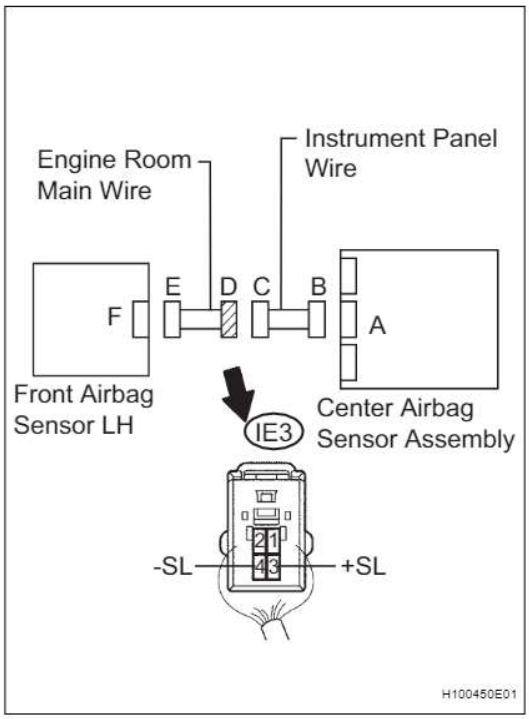
| Tester Connection | Specified Condition |
|---|---|
| IE3-3 (+SL) - Body ground | Below 1 V |
| IE3-4 (-SL) - Body ground | Below 1 V |

NG → REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

| 11 | CHECK ENGINE ROOM MAIN WIRE (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.

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| IE3-3 (+SL) - Body ground | 1 MΩ or higher |
| IE3-4 (-SL) - Body ground | 1 MΩ or higher |

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

OK

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

| DTC | B1620/21 | Side Airbag Sensor RH Circuit Malfunction |
|---|---|---|

## DESCRIPTION

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

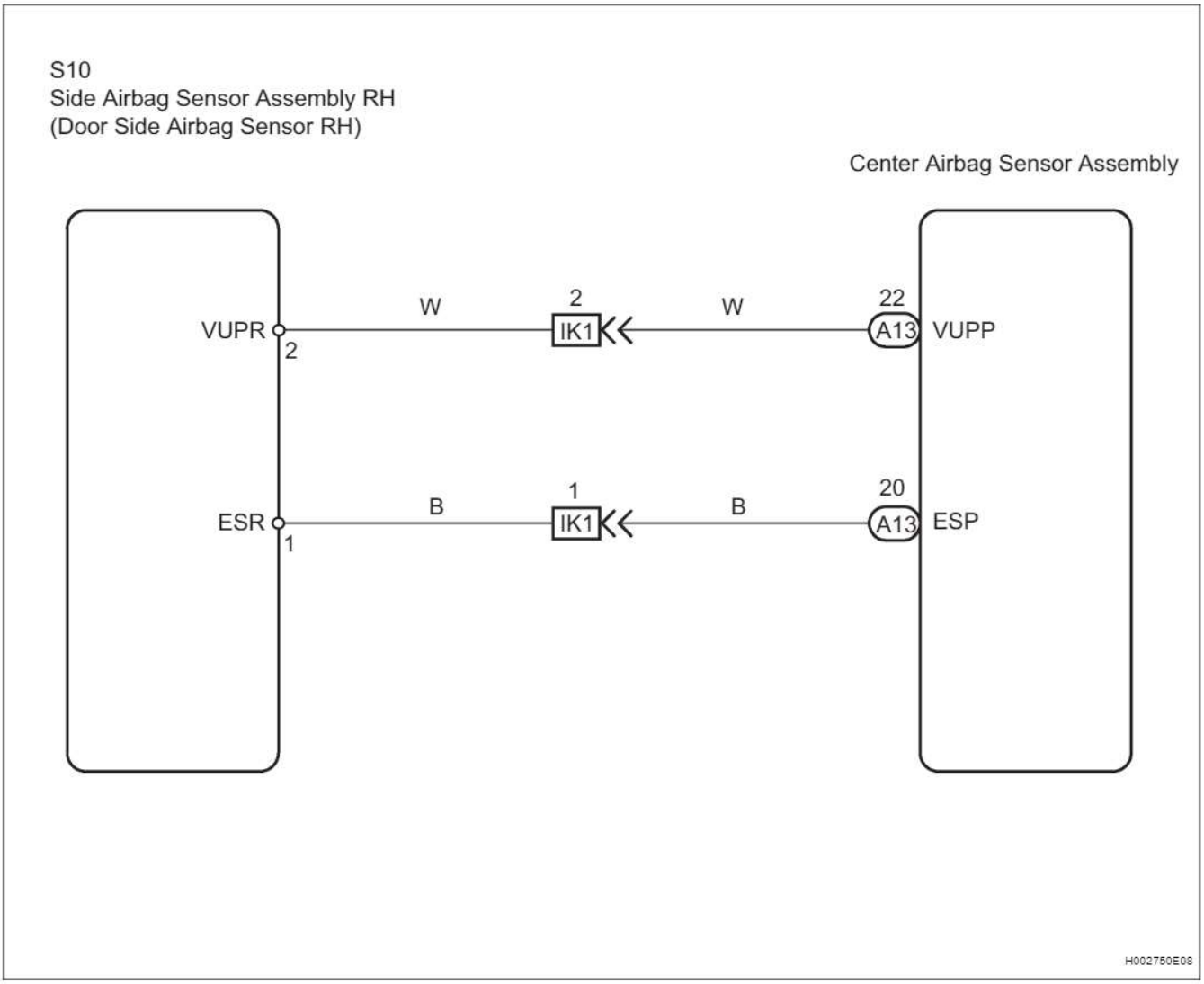
RS

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

DTC B1625/22 is recorded when a malfunction is detected in the side airbag sensor RH circuit.

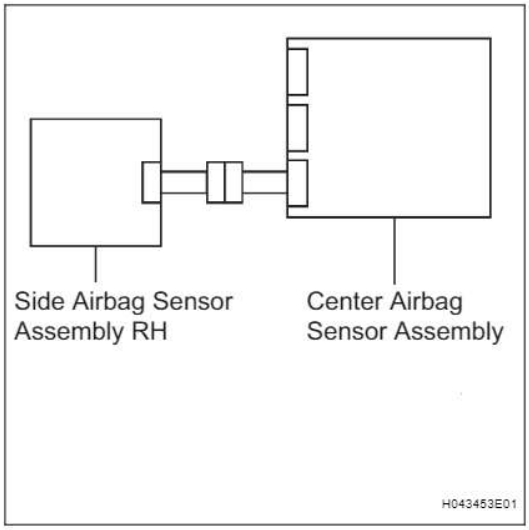
| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1625/22 | • The center airbag sensor assembly receives a line short signal, open signal, short to ground signal or B+ short signal in the side airbag sensor assembly RH circuit for 2 seconds.<br>• Side airbag sensor assembly RH malfunction<br>• Center airbag sensor assembly malfunction | • Side airbag sensor assembly RH (door side airbag sensor RH)<br>• Center airbag sensor assembly<br>• No. 2 floor wire<br>• Front door wire RH |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FOR 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-18).
(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 for DTCs (see page RS-18).

**OK:**

**DTC B1625/22 is output.**

HINT:

Codes other than code B1625/22 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK

**PERFORM SYMPTOM SIMULATION**

| 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 and the side airbag sensor RH.

**OK:**

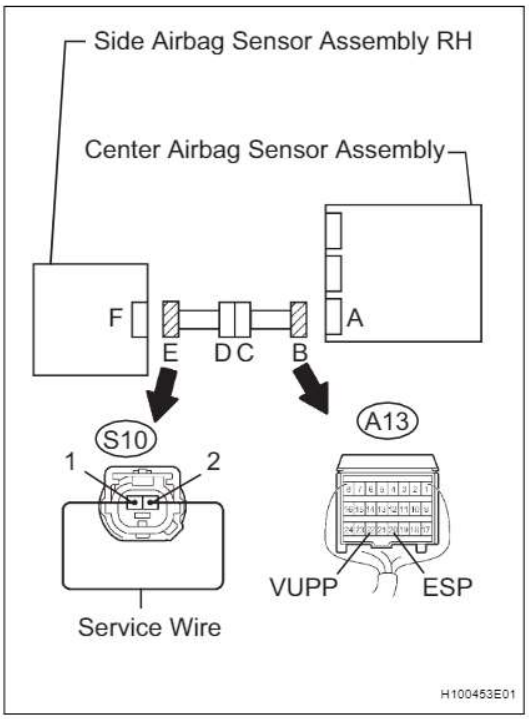
**The connectors are connected.**

NG → **CONNECT CONNECTORS**

OK

RS

## 3 CHECK SIDE AIRBAG SENSOR ASSEMBLY LH CIRCUIT (OPEN)



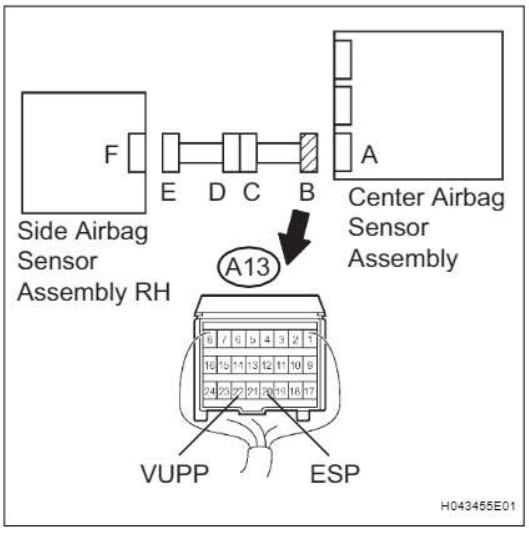

(a) Disconnect the connector from the center airbag sensor.
(b) Disconnect the connector from the horn button.
(c) Disconnect the connector from the front passenger airbag.
(d) Disconnect the connector from the No. 1 instrument panel airbag lower.
(e) Disconnect the connector from the front seat airbag LH.
(f) Disconnect the connector from the front seat airbag RH.
(g) Disconnect the connector from the curtain shield airbag LH.
(h) Disconnect the connector from the curtain shield airbag RH.
(i) Disconnect the connector from the front seat outer belt LH.
(j) Disconnect the connector from the front seat outer belt RH.
(k) Using a service wire, connect S10-2 and S10-1 of connector "E".
**NOTICE:**
**Do not forcibly insert a service wire into the terminals of the connector when connecting.**
(l) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A13-22 (VUPP) - A13-20 (ESP) | Below 1 Ω |

NG → **Go to step 8**

OK

## 4 CHECK SIDE AIRBAG SENSOR ASSEMBLY LH CIRCUIT (SHORT)



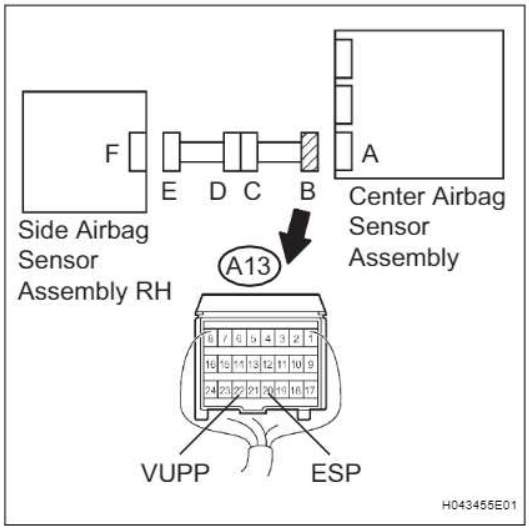

(a) Disconnect the service wire from connector "E".
(b) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A13-22 (VUPP) - A13-20 (ESP) | 1 MΩ or higher |

NG → **Go to step 9**

OK

| 5 | CHECK SIDE AIRBAG SENSOR ASSEMBLY LH CIRCUIT (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.

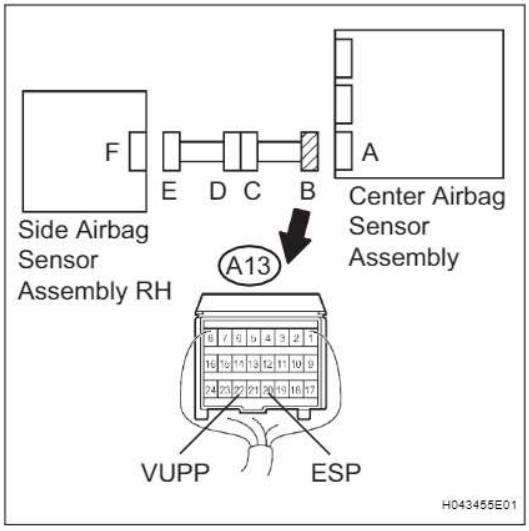
**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| A13-22 (VUPP) - Body ground | Below 1 V |
| A13-20 (ESP) - Body ground | Below 1 V |

NG → Go to step 10

OK

| 6 | CHECK SIDE AIRBAG SENSOR ASSEMBLY LH CIRCUIT (TO GROUND) |
|---|---|




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

**Standard resistance**

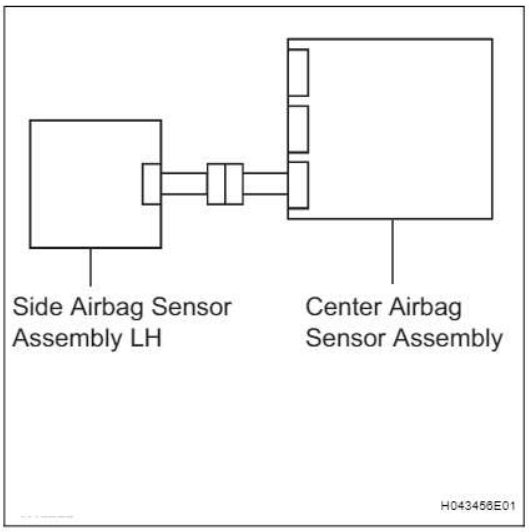
| Tester Connection | Specified Condition |
|---|---|
| A13-22 (VUPP) - Body ground | 1 MΩ or higher |
| A13-20 (ESP) - Body ground | 1 MΩ or higher |

NG → Go to step 11

OK

RS

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




(a) Connect the connectors to the center airbag sensor.
(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-18).
(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 for DTCs (see page RS-18).

**Result**

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

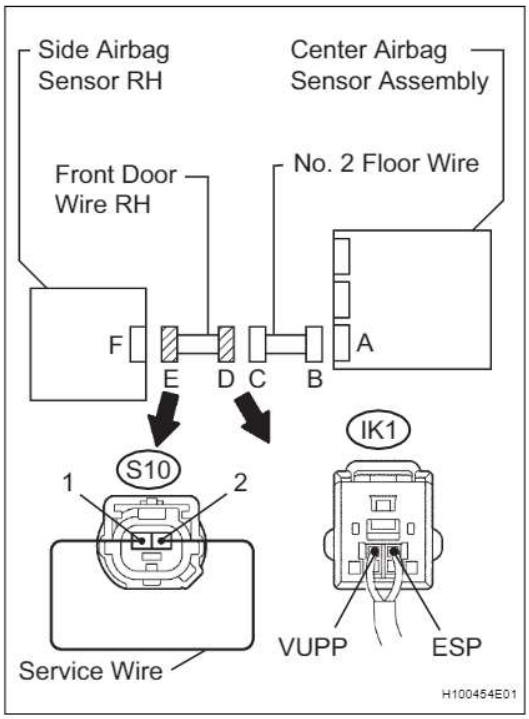
A → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

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

C

**PERFORM SYMPTOM SIMULATION**

## 8 CHECK FRONT DOOR WIRE LH (OPEN)




(a) Disconnect the front door wire RH connector from the No. 2 floor wire.
HINT:
Connector "E" has already been inserted into the service wire.

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

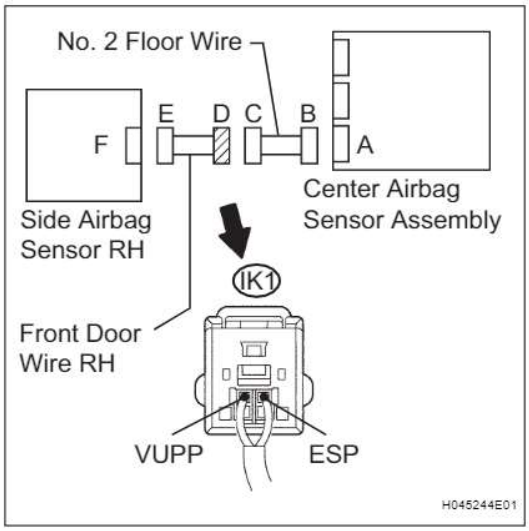
| Tester Connection | Specified Condition |
|---|---|
| IK1-2 (VUPP) - IK1-1 (ESP) | Below 1 Ω |

NG → **REPAIR OR REPLACE FRONT DOOR WIRE LH**

OK

**REPAIR OR REPLACE FLOOR WIRE**

## 9 CHECK FRONT DOOR WIRE LH (SHORT)




(a) Disconnect the front door wire RH connector from the No. 2 floor wire.

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

| Tester Connection | Specified Condition |
|---|---|
| IK1-2 (VUPP) - IK1-1 (ESP) | 1 MΩ or higher |

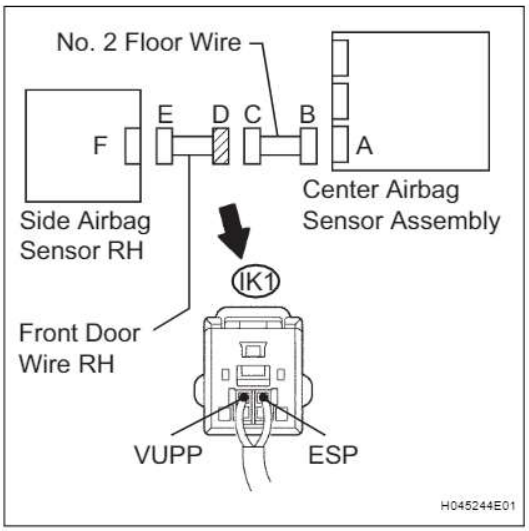
NG → **REPAIR OR REPLACE FRONT DOOR WIRE LH**

OK

**REPAIR OR REPLACE FLOOR WIRE**

RS

| 10 | CHECK FRONT DOOR WIRE LH (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 front door wire RH connector from the No. 2 floor 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.

**Standard voltage**

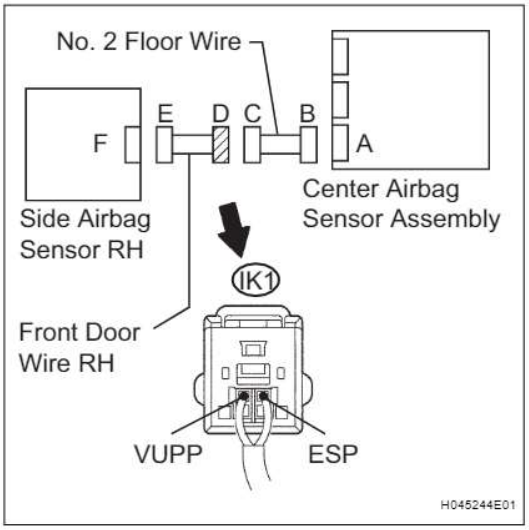
| Tester Connection | Specified Condition |
|---|---|
| IK1-2 (VUPP) - Body ground | Below 1 V |
| IK1-1 (ESP) - Body ground | Below 1 V |

NG → REPAIR OR REPLACE FRONT DOOR WIRE LH

OK

REPAIR OR REPLACE FLOOR WIRE

| 11 | CHECK FRONT DOOR WIRE LH (TO GROUND) |
|---|---|




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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| IK1-2 (VUPP) - Body ground | 1 MΩ or higher |
| IK1-1 (ESP) - Body ground | 1 MΩ or higher |

NG → REPAIR OR REPLACE FRONT DOOR WIRE LH

OK

REPAIR OR REPLACE FLOOR WIRE

| DTC | B1625/22 | Side Airbag Sensor LH Circuit Malfunction |
|---|---|---|

## DESCRIPTION

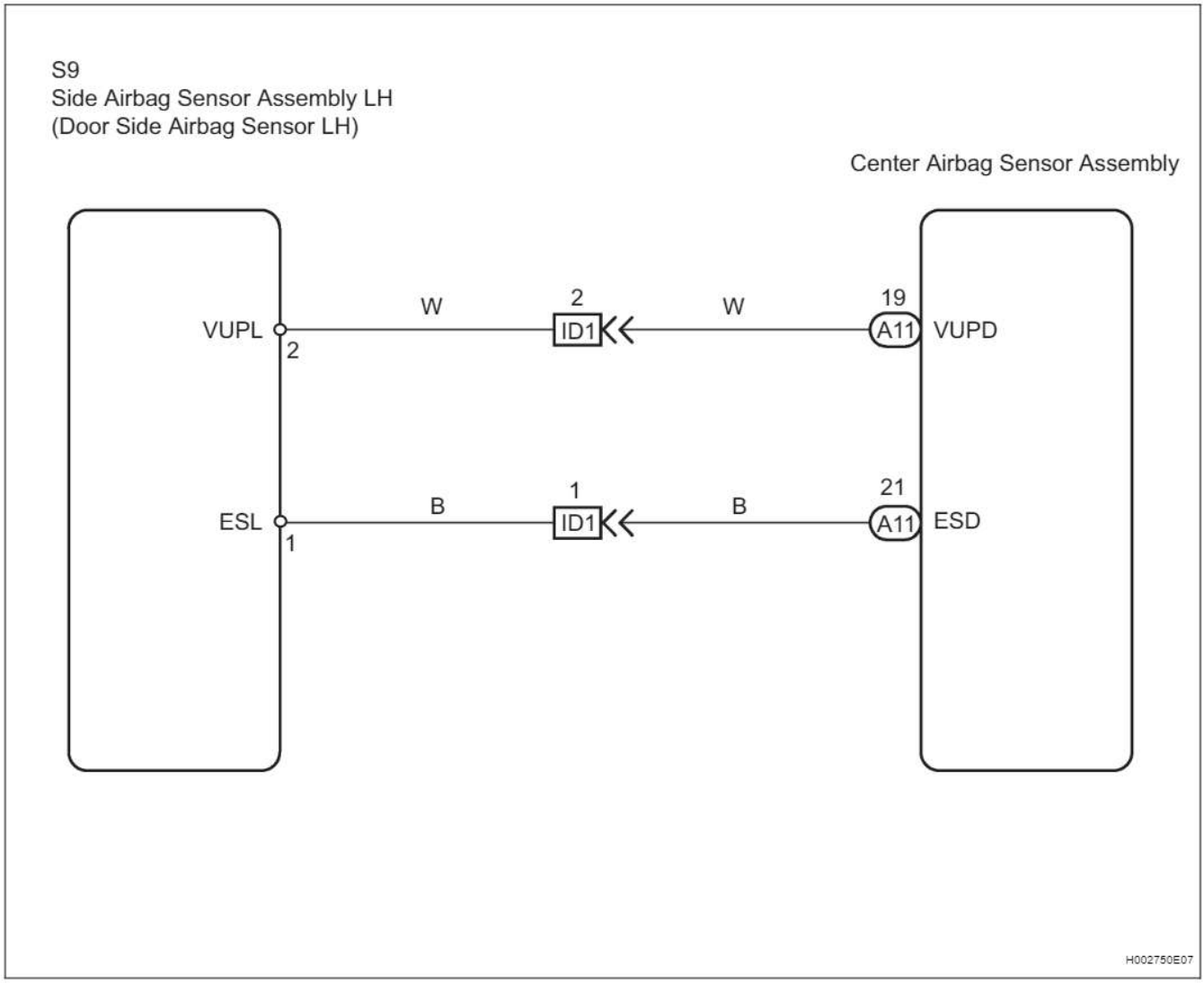
The side airbag sensor LH consists of the safing sensor, the diagnostic circuit, the lateral deceleration sensor, etc.

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

DTC B1620/21 is recorded when a malfunction is detected in the side airbag sensor LH circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1620/21 | • The center airbag sensor assembly receives a line short signal, open signal, short to ground signal or B+ short signal in the side airbag sensor assembly LH circuit for 2 seconds.<br>• Side airbag sensor assembly LH malfunction<br>• Center airbag sensor assembly malfunction | • Side airbag sensor assembly LH (door side airbag sensor LH)<br>• Center airbag sensor assembly<br>• Floor wire<br>• Front door wire LH |

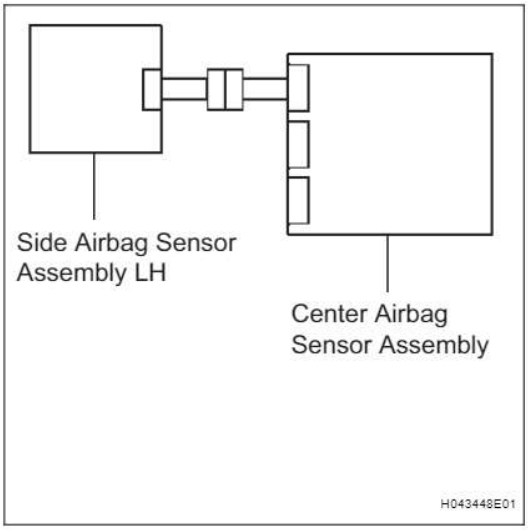
## WIRING DIAGRAM



## INSPECTION PROCEDURE

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

RS




(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-18).
(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 for DTCs (see page RS-18).

**OK:**

**DTC B1620/21 is not output.**

HINT:

Codes other than code B1620/21 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK

**PERFORM SYMPTOM SIMULATION**

| 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 and the side airbag sensor LH.

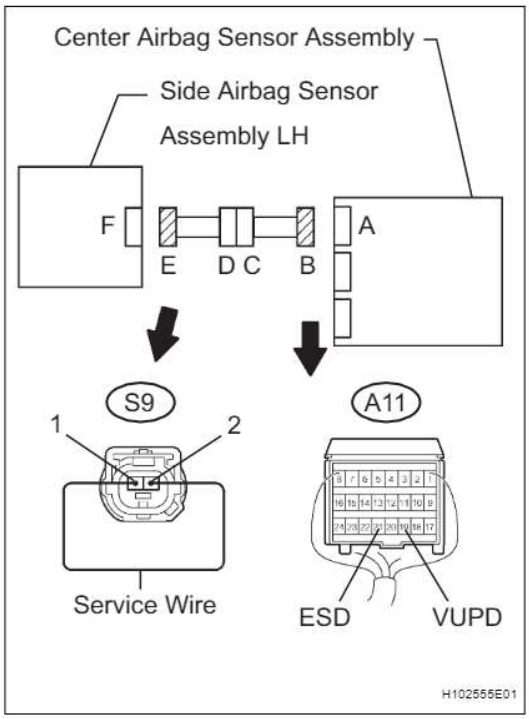
**OK:**

**The connectors are connected.**

NG → **CONNECT CONNECTORS**

OK

## 3 CHECK SIDE AIRBAG SENSOR ASSEMBLY RH CIRCUIT (OPEN)




(a) Disconnect the connector from the center airbag sensor.
(b) Disconnect the connector from the horn button.
(c) Disconnect the connector from the front passenger airbag.
(d) Disconnect the connector from the No. 1 instrument panel airbag lower.
(e) Disconnect the connector from the front seat airbag LH.
(f) Disconnect the connector from the front seat airbag RH.
(g) Disconnect the connector from the curtain shield airbag LH.
(h) Disconnect the connector from the curtain shield airbag RH.
(i) Disconnect the connector from the front seat outer belt LH.
(j) Disconnect the connector from the front seat outer belt RH.
(k) Using a service wire, connect S9-2 and S9-1 of connector "E".

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

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

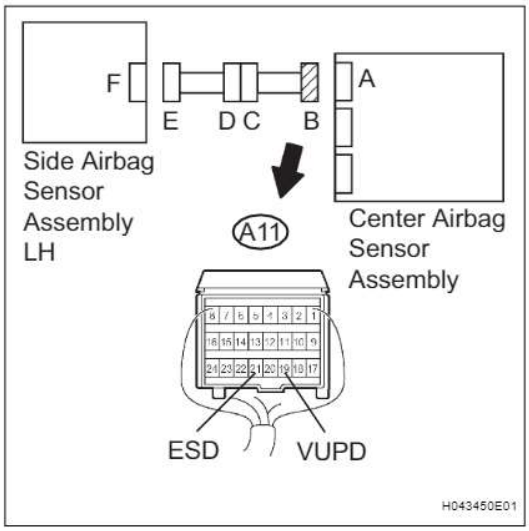
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A11-19 (VUPD) - A11-21 (ESD) | Below 1 Ω |

NG → **Go to step 8**

OK

## 4 CHECK SIDE AIRBAG SENSOR ASSEMBLY RH CIRCUIT (SHORT)




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

**Standard resistance**

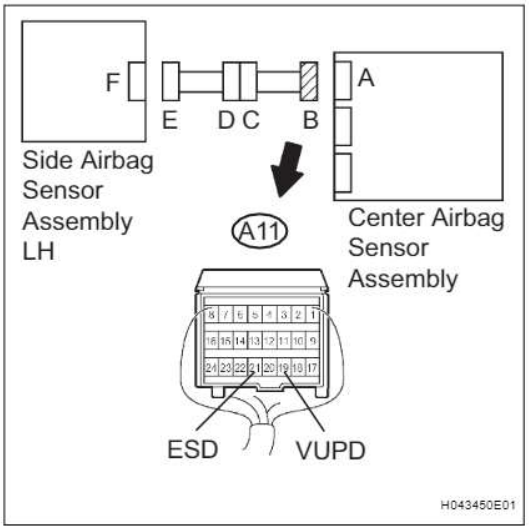
| Tester Connection | Specified Condition |
|---|---|
| A11-19 (VUPD) - A11-21 (ESD) | 1 MΩ or higher |

NG → **Go to step 9**

OK

## 5 CHECK SIDE AIRBAG SENSOR ASSEMBLY RH CIRCUIT (TO B+)

RS




(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.

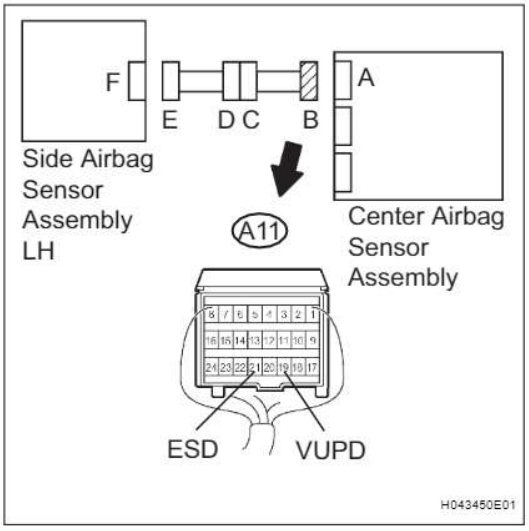
**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| A11-19 (VUPD) - Body ground | Below 1 V |
| A11-21 (ESD) - Body ground | Below 1 V |

NG → Go to step 10

OK

## 6 CHECK SIDE AIRBAG SENSOR ASSEMBLY RH CIRCUIT (TO GROUND)




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

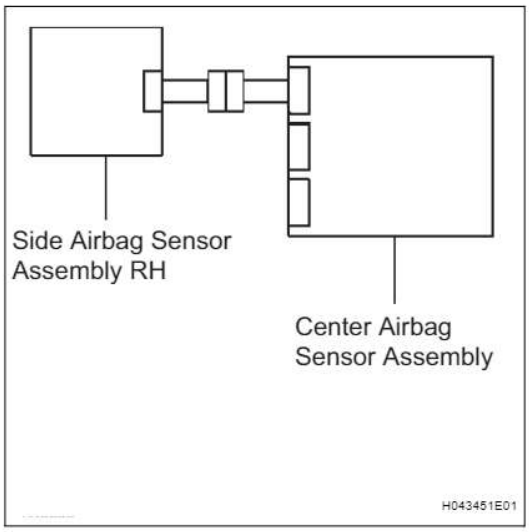
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A11-19 (VUPD) - Body ground | 1 MΩ or higher |
| A11-21 (ESD) - Body ground | 1 MΩ or higher |

NG → Go to step 11

OK

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




(a) Connect the connectors to the center airbag sensor.
(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-18).
(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 for DTCs (see page RS-18).

**Result**

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

A → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

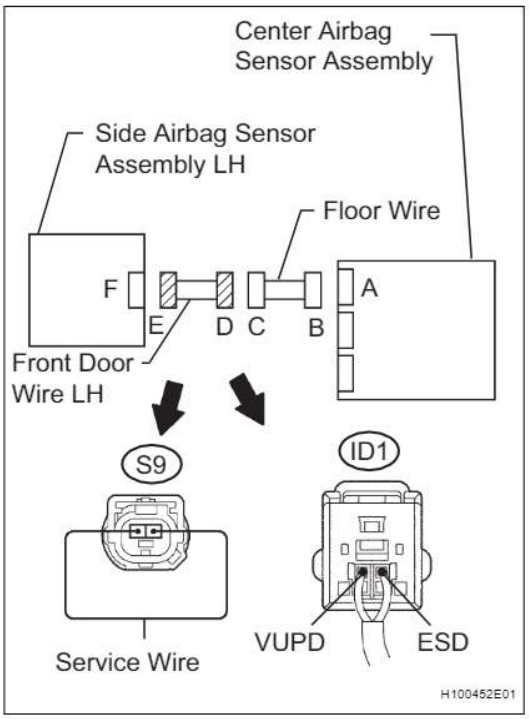
B → **REPLACE SIDE AIRBAG SENSOR ASSEMBLY RH**

C

**PERFORM SYMPTOM SIMULATION**

RS

| 8 | CHECK FRONT DOOR WIRE RH (OPEN) |
|---|---|




(a) Disconnect the front door wire LH connector from the floor wire.
HINT:
Connector "E" has already been inserted into the service wire.

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

**Standard resistance**

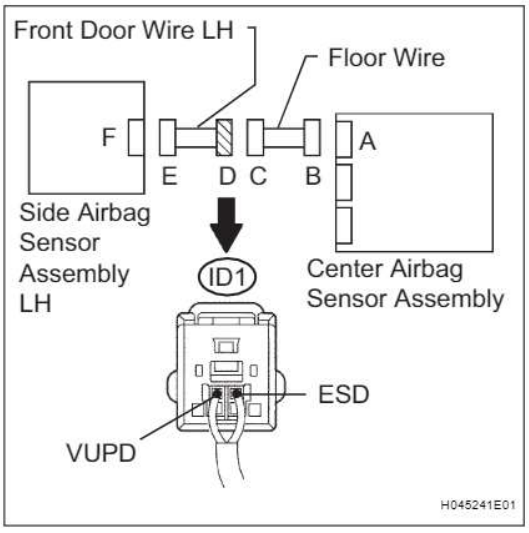
| Tester Connection | Specified Condition |
|---|---|
| ID1-2 (VUPD) - ID1-1 (ESD) | Below 1 Ω |

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

OK

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

| 9 | CHECK FRONT DOOR WIRE RH (SHORT) |
|---|---|




(a) Disconnect the front door wire LH connector from the floor wire.

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

**Standard resistance**

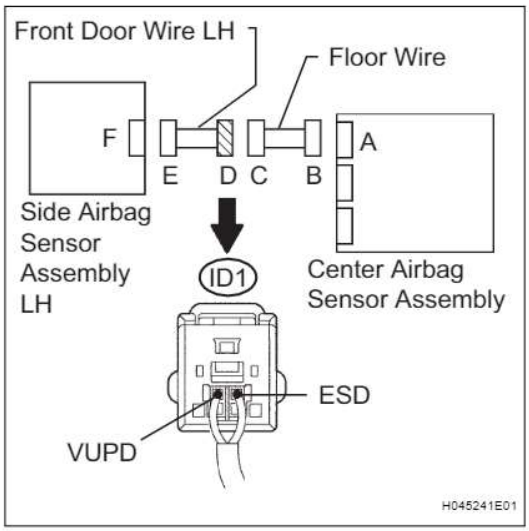
| Tester Connection | Specified Condition |
|---|---|
| ID1-2 (VUPD) - ID1-1 (ESD) | 1 MΩ or higher |

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

OK

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

## 10 CHECK FRONT DOOR WIRE RH (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 front door wire LH connector from the floor 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.

**Standard voltage**

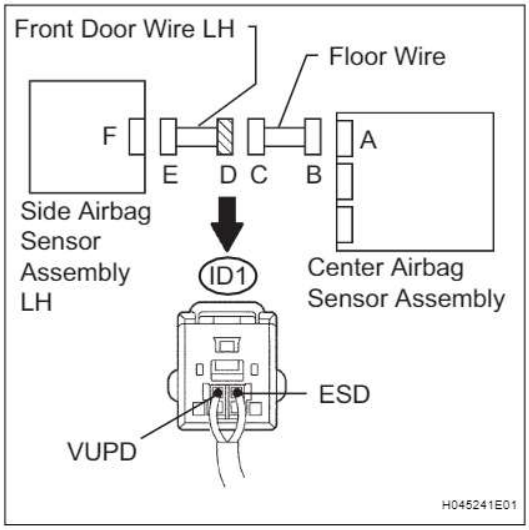
| Tester Connection | Specified Condition |
|---|---|
| ID1-2 (VUPD) - Body ground | Below 1 V |
| ID1-1 (ESD) - Body ground | Below 1 V |

NG → REPAIR OR REPLACE FRONT DOOR WIRE RH

OK

REPAIR OR REPLACE NO. 2 FLOOR WIRE

## 11 CHECK FRONT DOOR WIRE RH (TO GROUND)




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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| ID1-2 (VUPD) - Body ground | 1 MΩ or higher |
| ID1-1 (ESD) - Body ground | 1 MΩ or higher |

NG → REPAIR OR REPLACE FRONT DOOR WIRE RH

OK

REPAIR OR REPLACE NO. 2 FLOOR WIRE

| DTC | B1630/23 | Driver Side Rear Airbag Sensor Circuit Malfunction |
|---|---|---|

## DESCRIPTION

RS

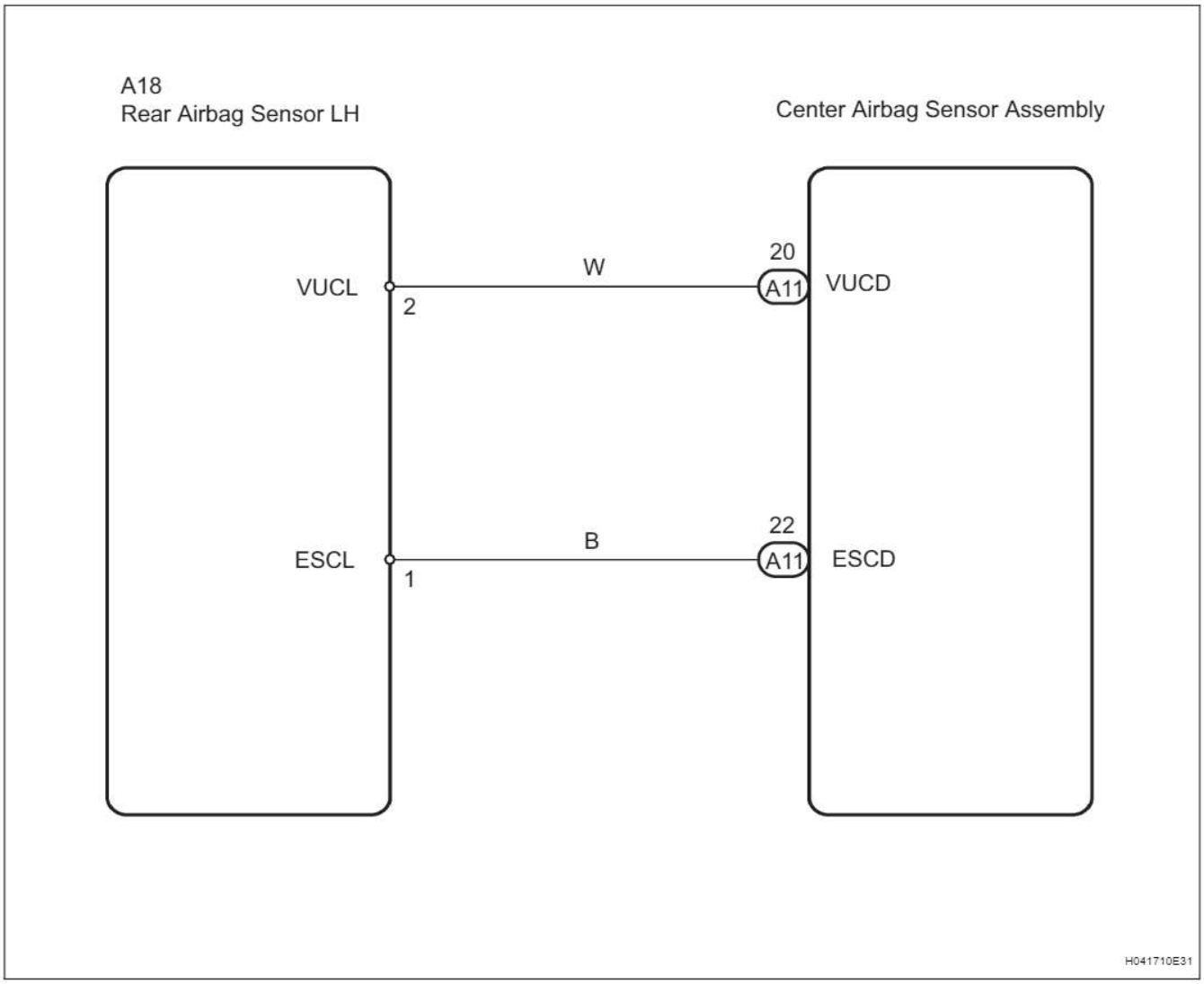
The rear airbag sensor LH consists of the safing sensor, the diagnostic circuit, the lateral deceleration sensor, etc.

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

DTC B1630/23 is recorded when a malfunction is detected in the rear airbag sensor LH circuit.

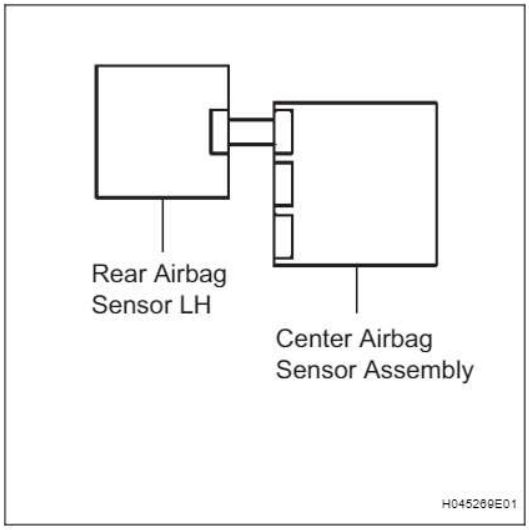
| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1630/23 | • The center airbag sensor assembly receives a line short signal, open signal, short to ground signal or B+ short signal in the rear airbag sensor LH circuit for 2 seconds.<br>• Rear airbag sensor LH malfunction<br>• Center airbag sensor assembly malfunction | • Rear airbag sensor LH<br>• Center airbag sensor assembly<br>• Floor wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FOR 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-18).
(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 for DTCs (see page RS-18).

**OK:**

**DTC B1630/23 is not output.**

HINT:

Codes other than code B1630/23 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK

**PERFORM SYMPTOM SIMULATION**

| 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 and the rear airbag sensor LH.

**OK:**

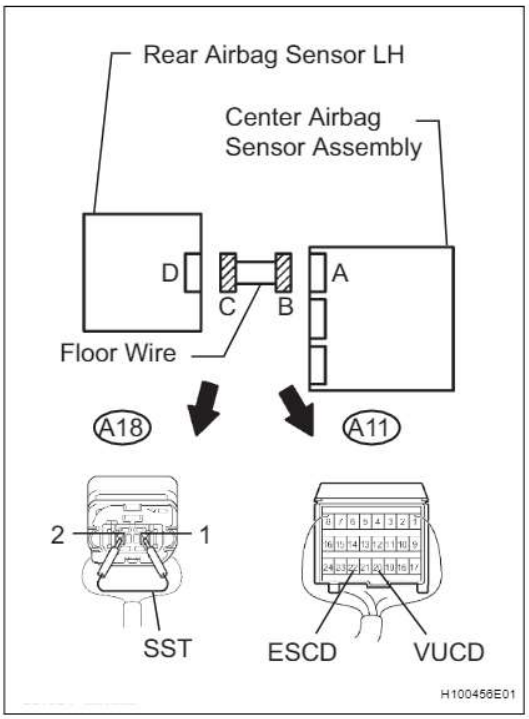
**The connectors are connected.**

NG → **CONNECT CONNECTORS**

OK

RS

## 3 CHECK FLOOR WIRE (OPEN)



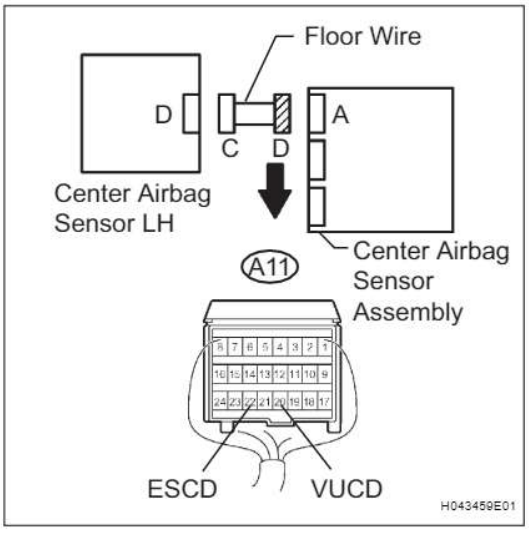

(a) Disconnect the connector from the center airbag sensor.
(b) Disconnect the connector from the horn button.
(c) Disconnect the connector from the front passenger airbag.
(d) Disconnect the connector from the No. 1 instrument panel airbag lower.
(e) Disconnect the connector from the front seat airbag LH.
(f) Disconnect the connector from the front seat airbag RH.
(g) Disconnect the connector from the curtain shield airbag LH.
(h) Disconnect the connector from the curtain shield airbag RH.
(i) Disconnect the connector from the front seat outer belt LH.
(j) Disconnect the connector from the front seat outer belt RH.
(k) Using SST, connect A18-2 and A18-1 of connector "C".
**SST 09843-18040**
(l) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A11-20 (VUCD) - A11-22 (ESCD) | Below 1 Ω |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

## 4 CHECK FLOOR WIRE (SHORT)



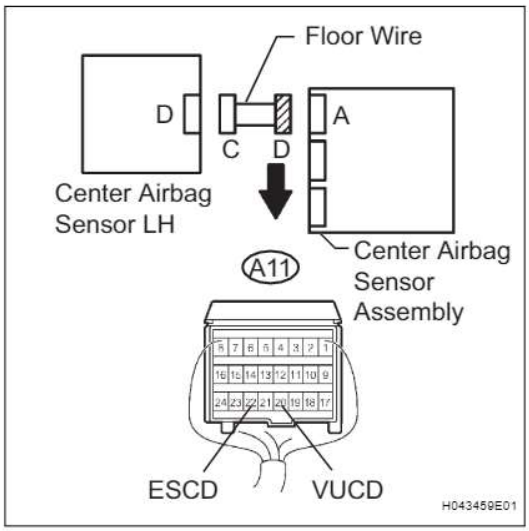

(a) Disconnect the SST from connector "C".
(b) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A11-20 (VUCD) - A11-22 (ESCD) | 1 MΩ or higher |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

**5 CHECK FLOOR WIRE (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.

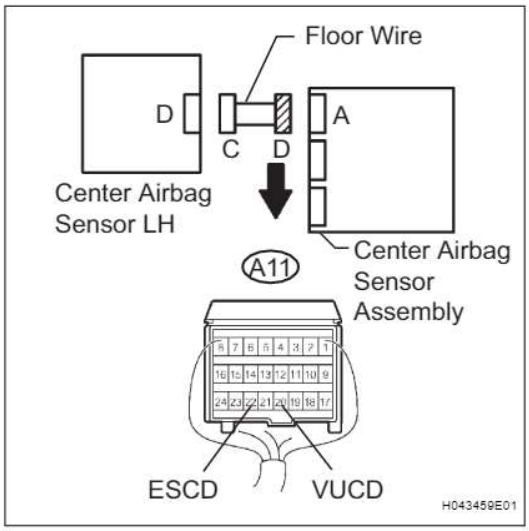
**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| A11-20 (VUCD) - Body ground | Below 1 V |
| A11-22 (ESCD) - Body ground | Below 1 V |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

**6 CHECK FLOOR WIRE (TO GROUND)**




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

**Standard resistance**

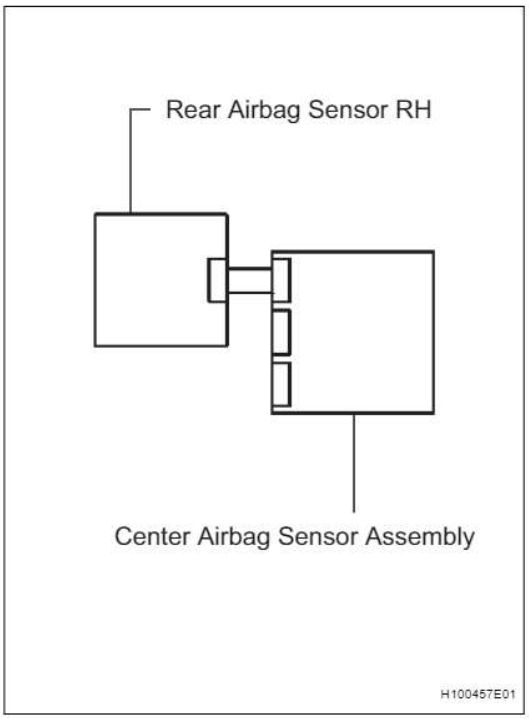
| Tester Connection | Specified Condition |
|---|---|
| A11-20 (VUCD) - Body ground | 1 MΩ or higher |
| A11-22 (ESCD) - Body ground | 1 MΩ or higher |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

| 7 | CHECK REAR AIRBAG SENSOR LH |
|---|---|




(a) Connect the connectors to the center airbag sensor.
(b) Interchange the rear airbag sensor LH with RH and connect the connectors to them.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page RS-18).
(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-18).

**Result**

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

A → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

B → REPLACE REAR AIRBAG SENSOR LH

C

**PERFORM SYMPTOM SIMULATION**

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

## DESCRIPTION

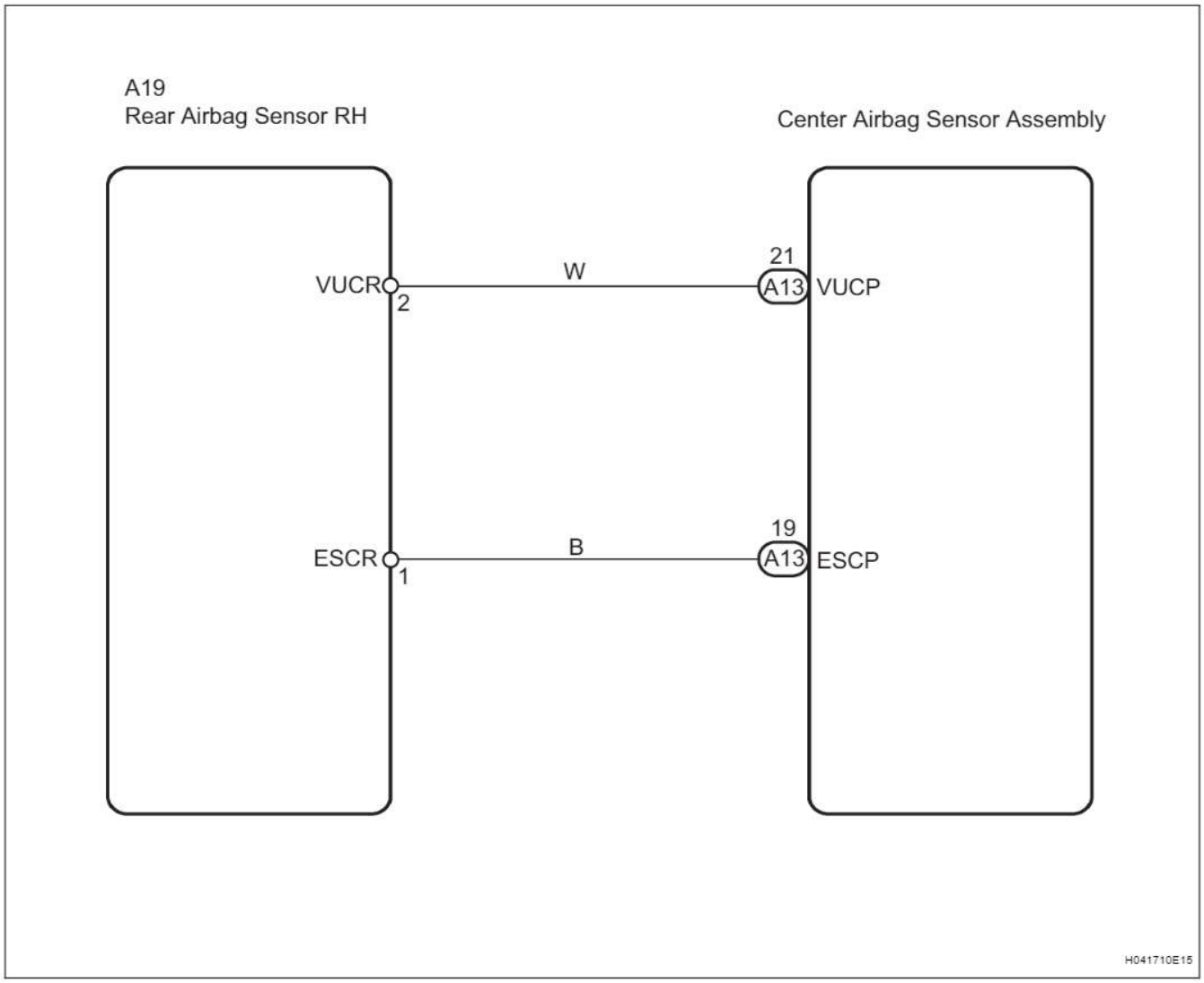
The rear airbag sensor RH consists of the safing sensor, the diagnostic circuit, the lateral deceleration sensor, etc.

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

DTC B1635/24 is recorded when a malfunction is detected in the rear airbag sensor RH circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1635/24 | • The center airbag sensor assembly receives a line short signal, open signal, short to ground signal or B+ short signal in the rear airbag sensor RH circuit for 2 seconds.<br>• Rear airbag sensor RH malfunction<br>• Center airbag sensor assembly malfunction | • Rear airbag sensor RH<br>• Center airbag sensor assembly<br>• No. 2 floor wire |

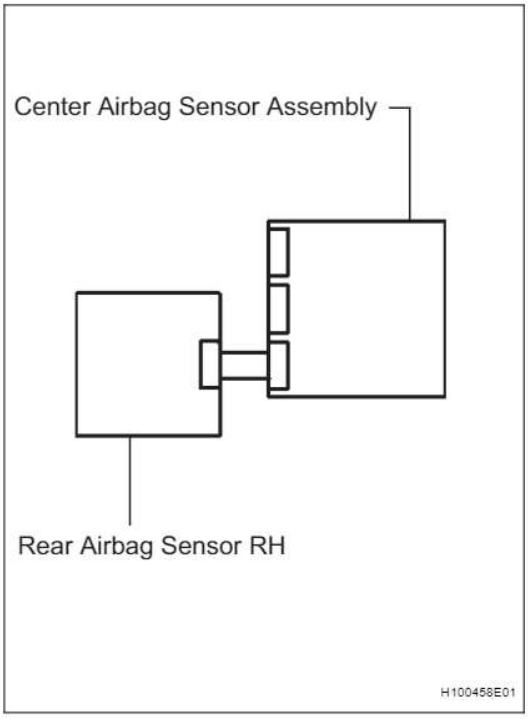
## WIRING DIAGRAM



## INSPECTION PROCEDURE

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

RS




(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-18).
(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 for DTCs (see page RS-18).

**OK:**

**DTC B1635/24 is not output.**

HINT:

Codes other than code B1635/24 may be output at this time, but they are not related to this check.

NG → **Go to step 2**

OK

**PERFORM SYMPTOM SIMULATION**

| 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 and the rear airbag sensor RH.

**OK:**

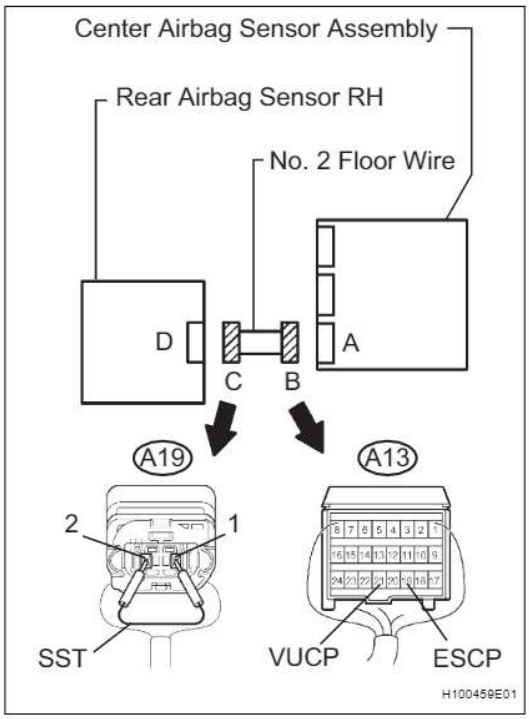
**The connectors are connected.**

NG → **CONNECT CONNECTORS**

OK

RS

## 3 CHECK NO. 2 FLOOR WIRE (OPEN)



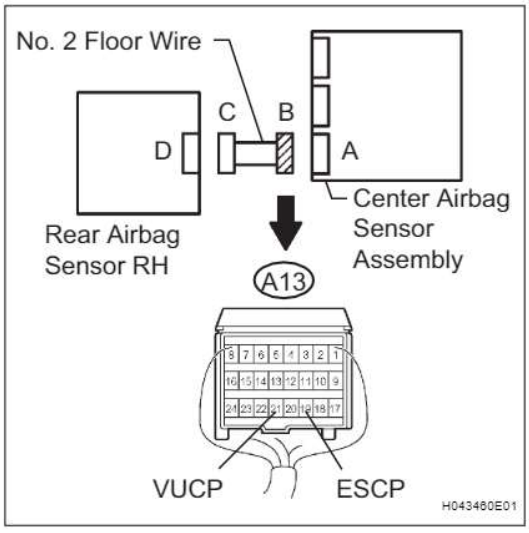

(a) Disconnect the connector from the center airbag sensor.
(b) Disconnect the connector from the horn button.
(c) Disconnect the connector from the front passenger airbag.
(d) Disconnect the connector from the No. 1 instrument panel airbag lower.
(e) Disconnect the connector from the front seat airbag LH.
(f) Disconnect the connector from the front seat airbag RH.
(g) Disconnect the connector from the curtain shield airbag LH.
(h) Disconnect the connector from the curtain shield airbag RH.
(i) Disconnect the connector from the front seat outer belt LH.
(j) Disconnect the connector from the front seat outer belt RH.
(k) Using SST, connect A19-2 and A19-1 of connector "C".
**SST 09843-18040**
(l) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A13-21 (VUCP) - A13-19 (ESCP) | Below 1 Ω |

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

OK

## 4 CHECK NO. 2 FLOOR WIRE (SHORT)




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

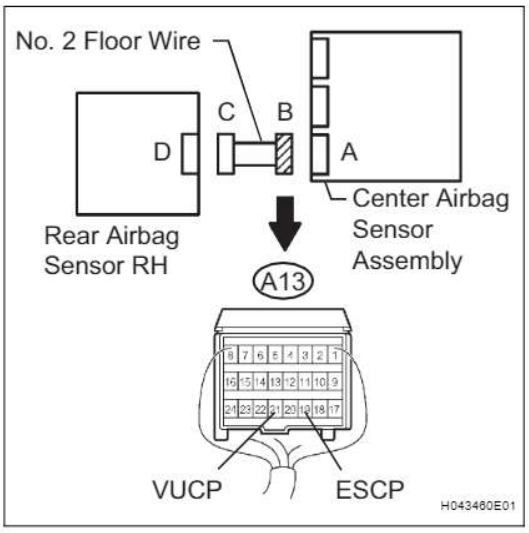
| Tester Connection | Specified Condition |
|---|---|
| A13-21 (VUCP) - A13-19 (ESCP) | 1 MΩ or higher |

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

OK

RS

| 5 | CHECK NO. 2 FLOOR WIRE (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.

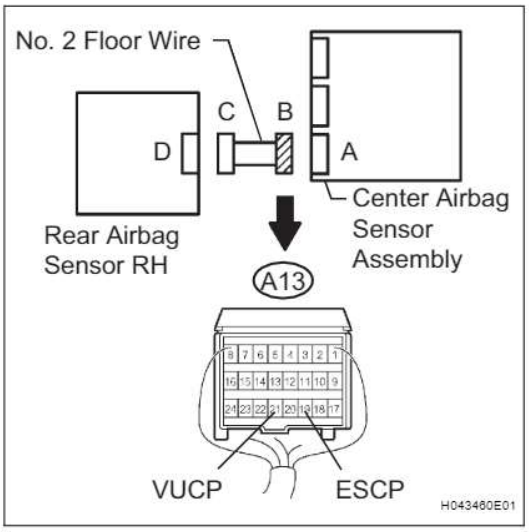
**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| A13-21 (VUCP) - Body ground | Below 1 V |
| A13-19 (ESCP) - Body ground | Below 1 V |

NG → REPAIR OR REPLACE NO. 2 FLOOR WIRE

OK

| 6 | CHECK NO. 2 FLOOR WIRE (TO GROUND) |
|---|---|




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

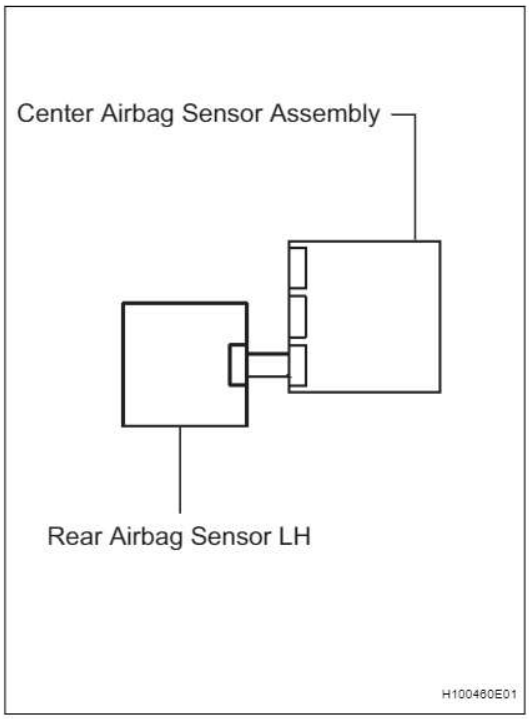
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A13-21 (VUCP) - Body ground | 1 MΩ or higher |
| A13-19 (ESCP) - Body ground | 1 MΩ or higher |

NG → REPAIR OR REPLACE NO. 2 FLOOR WIRE

OK

## 7 CHECK REAR AIRBAG SENSOR RH




(a) Connect the connectors to the center airbag sensor.
(b) Interchange the rear airbag sensor LH with RH and connect the connectors to them.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page RS-18).
(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-18).

**Result**

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

A → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

B → **REPLACE REAR AIRBAG SENSOR RH**

C

**PERFORM SYMPTOM SIMULATION**

| DTC | B1650/32 | Occupant Classification System Malfunction |
|---|---|---|

## DESCRIPTION

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

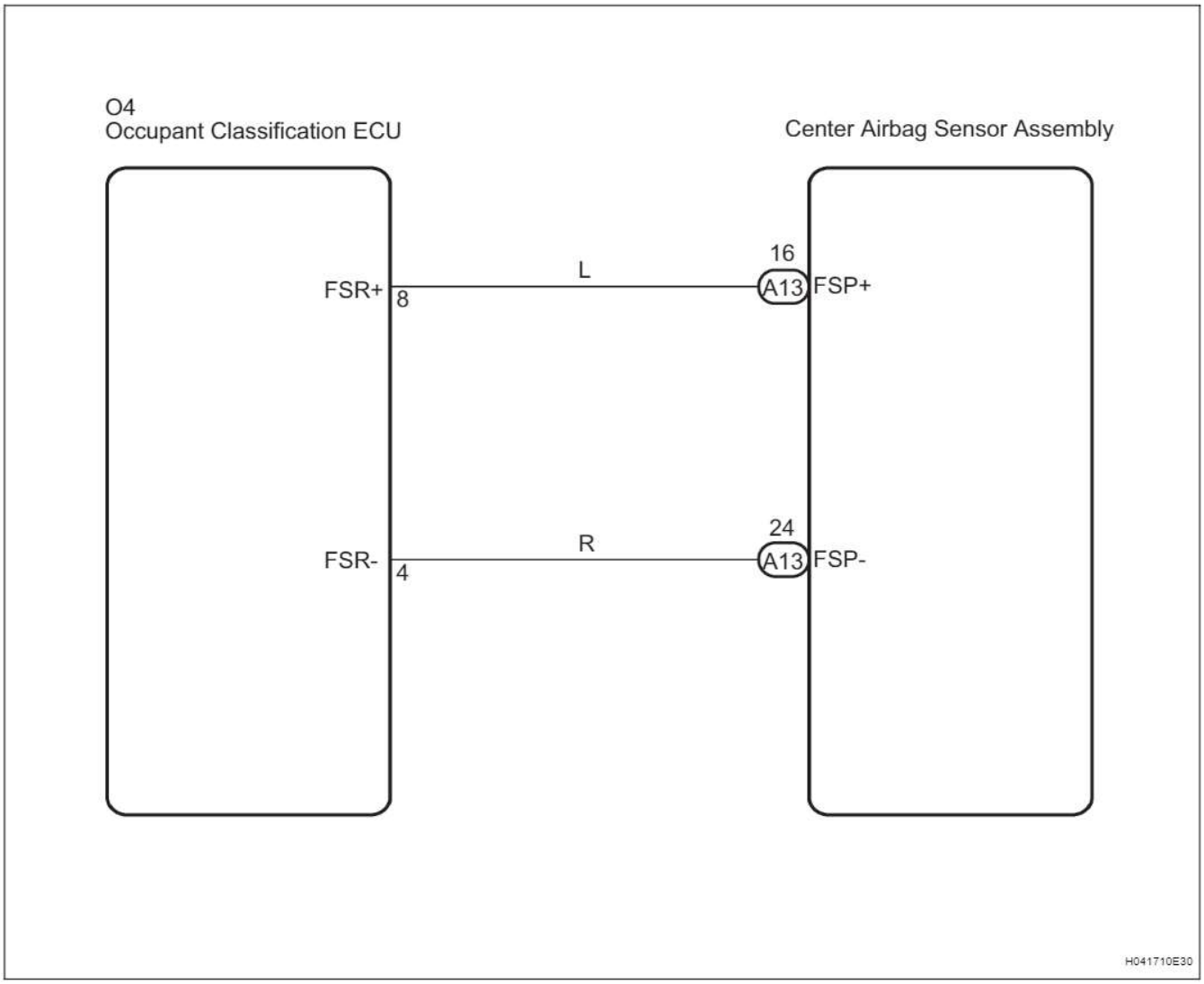
RS

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 side airbag assembly RH should be operated.

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

| DTC No. | DTC Detecting Condition | Trouble Area |
|---|---|---|
| B1650/32 | • Occupant classification system malfunction<br>• The center airbag sensor assembly 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 system circuit for 2 seconds.<br>• Center airbag sensor assembly malfunction | • Floor wire No. 2<br>• Occupant classification system<br>• Center airbag sensor assembly |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

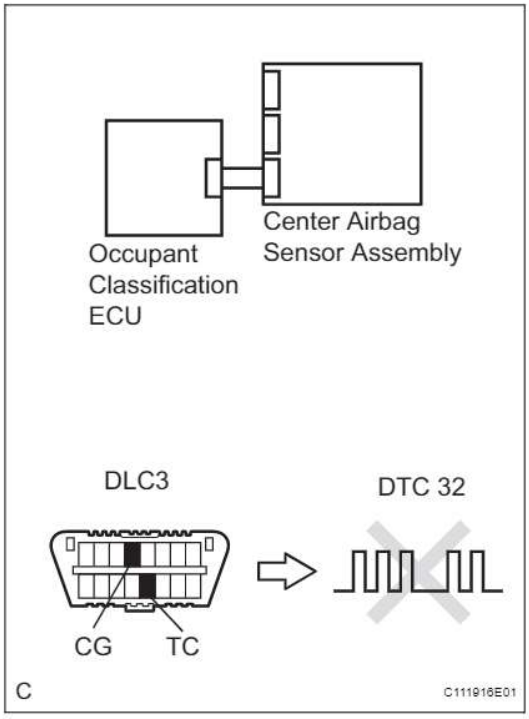
| 1 | CHECK DTC (OCCUPANT CLASSIFICATION ECU) |
|---|---|

(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-257).
**OK:**
**DTC is not output.**

NG → **REPAIR CIRCUITS INDICATED BY OUTPUT DTCS**

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-18).
(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-18).
**OK:**
**DTC B1650/32 is not output.**
HINT:
Codes other than DTC B1650/32 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

| 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) Check that the connectors are properly connected to the center airbag sensor assembly and occupant classification ECU.
**OK:**
**The connectors are properly connected.**

RS

HINT:
If the connectors are not connected securely, reconnect the connectors and proceed to the next inspection.

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

(e) Check that the connectors are not damaged.

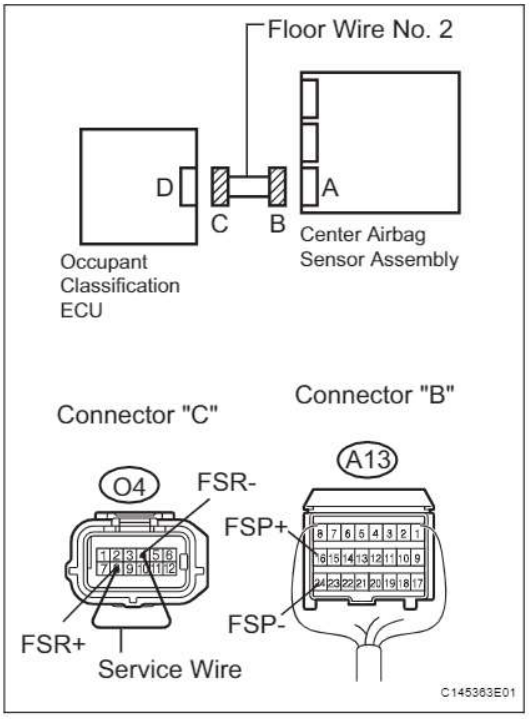
**OK:**

**The connectors are connected.**

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

OK

## 4 CHECK FLOOR WIRE NO. 2 (OPEN)




(a) Disconnect the connectors from the steering pad.

(b) Disconnect the connectors from the front passenger airbag assembly.

(c) Disconnect the connector from the driver side knee airbag assembly.

(d) with Side and Curtain Shield Airbag:
Disconnect the connector from the front seat side airbag assembly LH.

(e) with Side and Curtain Shield Airbag:
Disconnect the connector from the front seat side airbag assembly RH.

(f) with Side and Curtain Shield Airbag:
Disconnect the connector from the curtain shield airbag assembly LH.

(g) with Side and Curtain Shield Airbag:
Disconnect the connector from the curtain shield airbag assembly RH.

(h) Disconnect the connector from the front seat outer belt assembly LH.

(i) Disconnect the connector from the front seat outer belt assembly RH.

(j) Using a service wire, connect terminals O4-8 (FSR+) and O4-4 (FSR-) of connector "C".

**NOTICE:**

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

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

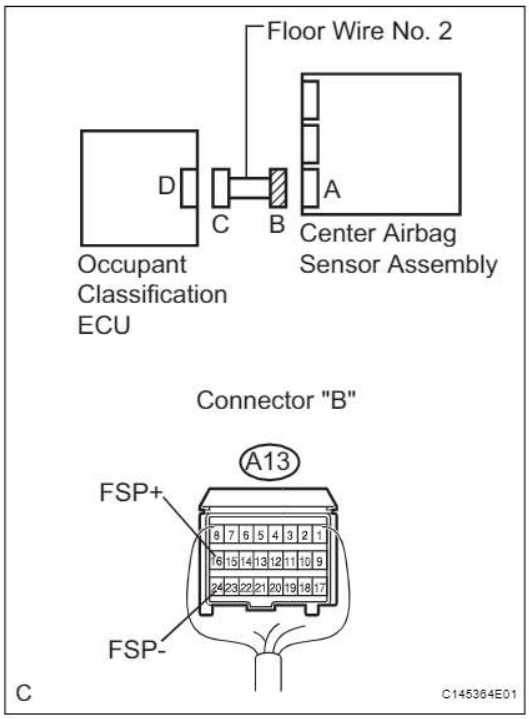
**Standard resistance**

| Terminal Connection | Condition | Specified Condition |
|---|---|---|
| A13-16 (FSP+) - A13-23 (FSP-) | Always | Below 1 Ω |

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

OK

## 5 CHECK FLOOR WIRE NO. 2 (SHORT)




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

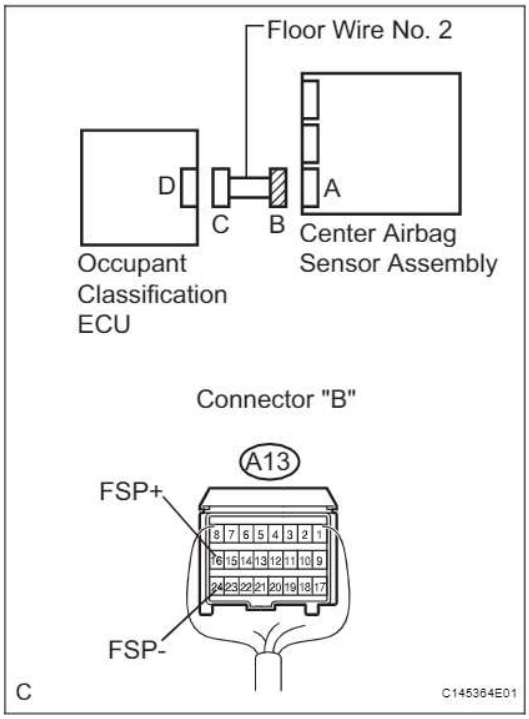
**Standard resistance**

| Terminal Connection | Condition | Specified Condition |
|---|---|---|
| A13-16 (FSP+) - A13-23 (FSP-) | Always | 1 MΩ or higher |

NG → REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

## 6 CHECK FLOOR WIRE NO. 2 (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.

**Standard voltage**

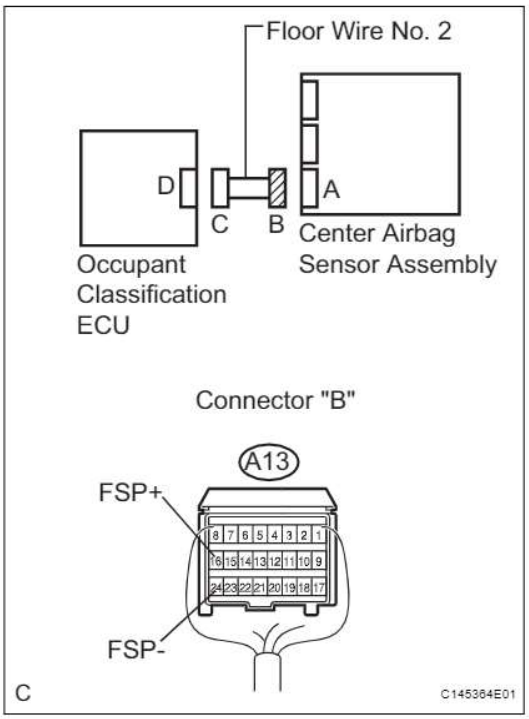
| Tester Connection | Condition | Specified Condition |
|---|---|---|
| A13-16 (FSP+) - Body ground | Ignition switch ON | Below 1 V |
| A13-23 (FSP-) Body ground | Ignition switch ON | Below 1 V |

NG → REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

RS

## 7 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.

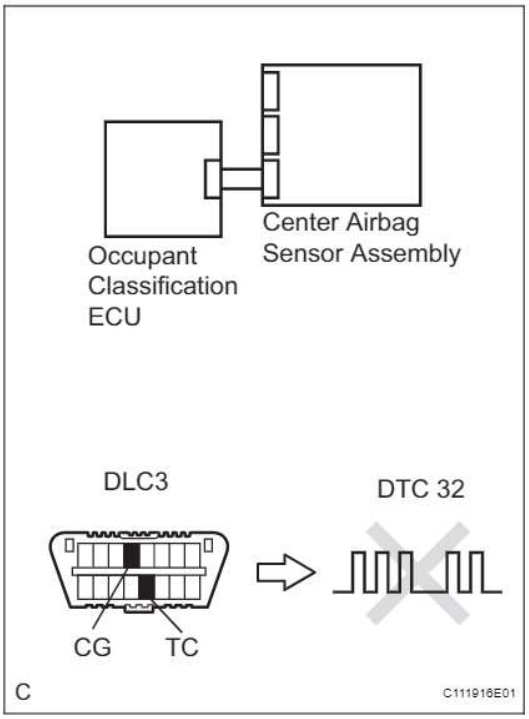
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| A13-16 (FSP+) - Body ground | Always | 1 MΩ or higher |
| A13-23 (FSP-) Body ground | Always | 1 MΩ or higher |

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

OK

## 8 CHECK CENTER AIRBAG SENSOR ASSEMBLY




(a) Connect the connectors to the center airbag sensor assembly and occupant classification ECU.
(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 the memory (See page RS-18).
(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 for DTCs (See page RS-18).

**OK:**

**DTC B1650/32 is not output.**

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 9 | REPLACE OCCUPANT CLASSIFICATION ECU |
|---|---|

(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 occupant classification ECU (See page RS-407).

NEXT

| 10 | PERFORM ZERO POINT CALIBRATION |
|---|---|

(a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Using the intelligent tester, perform "zero point calibration" (See page RS-250).
**OK:**
**"COMPLETED" is displayed.**

NEXT

| 11 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).

NEXT

END

| DTC | B1653/35 | Seat Position Airbag Sensor Circuit Malfunction |
|---|---|---|

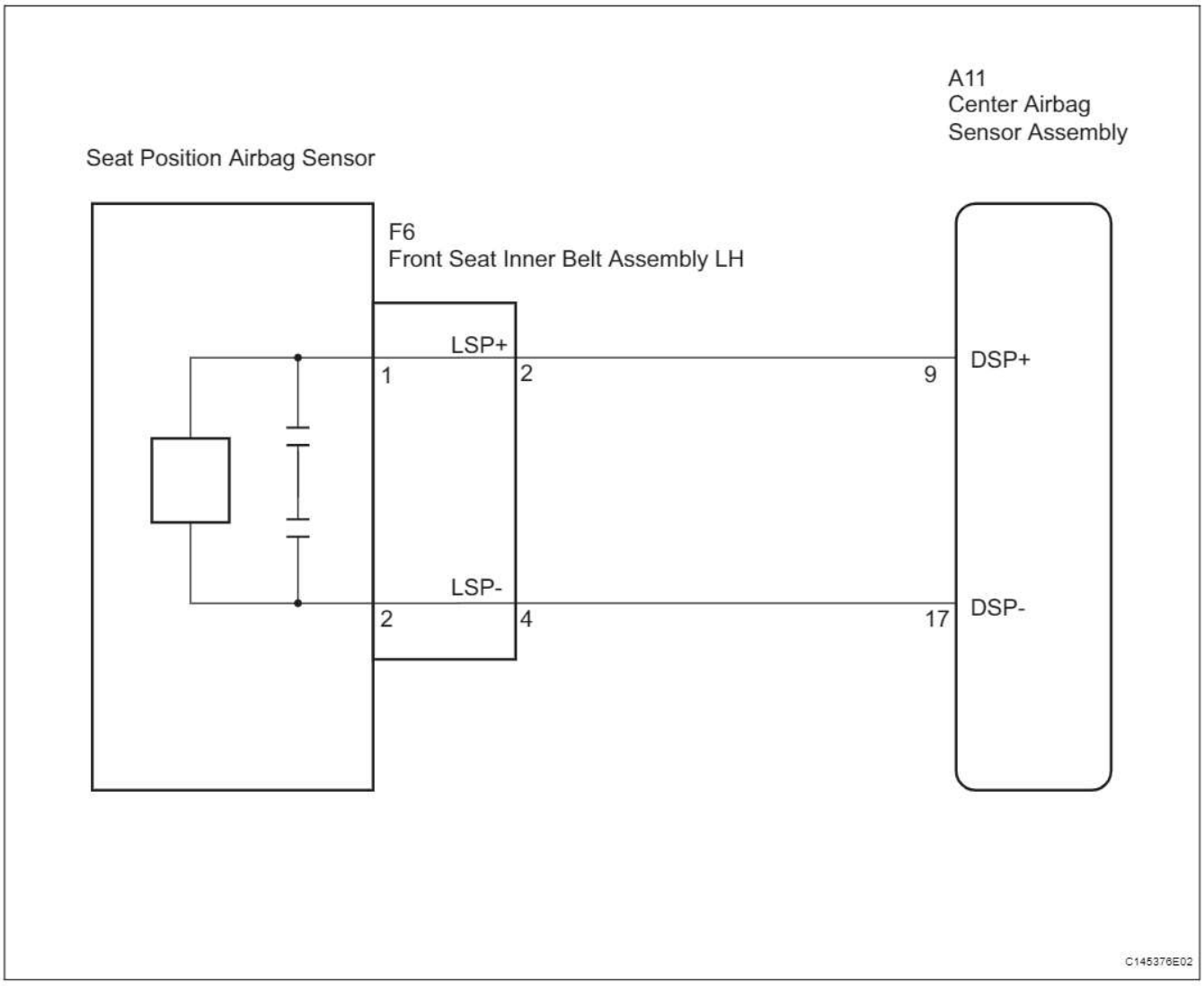
## DESCRIPTION

RS

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

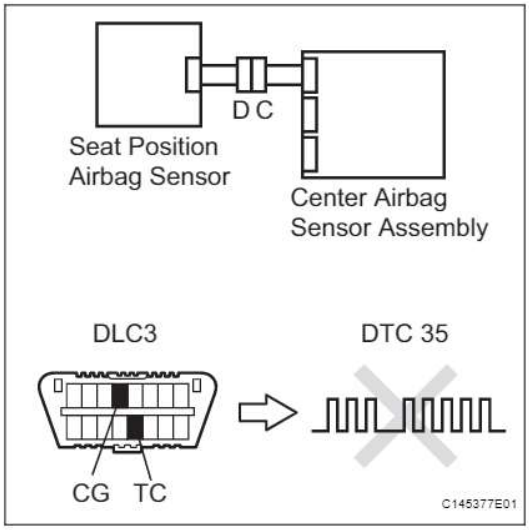
| DTC No. | DTC Detecting Condition | Trouble Area |
|---|---|---|
| B1653/35 | • The center airbag sensor assembly receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the seat position airbag sensor circuit for 2 seconds.<br>• Seat position airbag sensor malfunction<br>• Center airbag sensor assembly malfunction | • Floor wire<br>• Front seat inner belt assembly LH<br>• Seat position airbag sensor<br>• Center airbag sensor assembly |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 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 the memory (See page RS-18).
(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 for DTCs (See page RS-18).

**OK:**

**DTC B1653/35 is not output.**

HINT:

Codes other than DTC B1653/35 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 seat position airbag sensor.

**OK:**

**The connectors are properly connected.**

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

OK

| 3 | CHECK CONNECTORS |
|---|---|

(a) Disconnect the connectors from the center airbag sensor assembly and the seat position airbag sensor.
(b) Check that the connectors are not damaged.

**OK:**

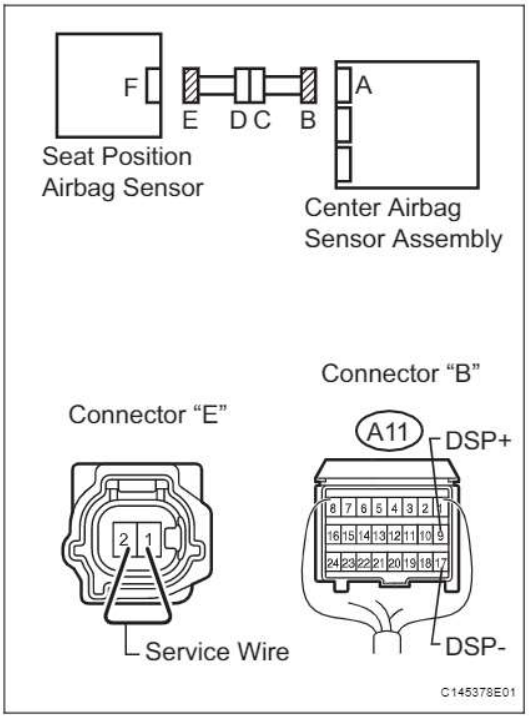
**The connectors are not deformed or damaged.**

NG → **REPAIR OR REPLACE WIRE HARNESS**

OK

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

RS



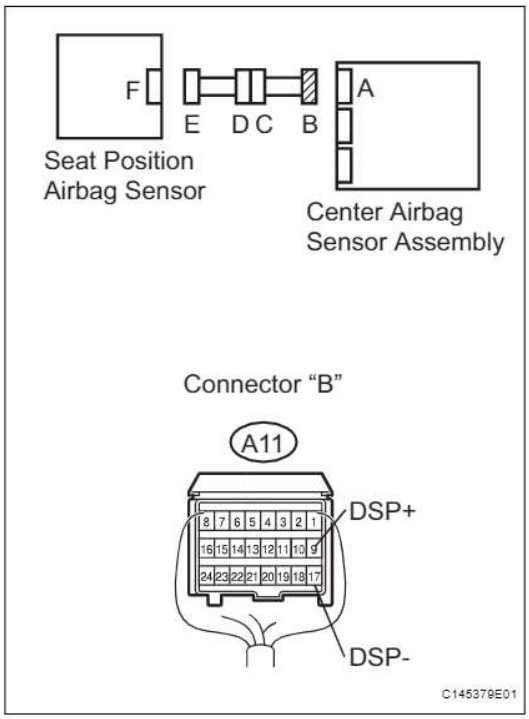

(a) Disconnect the connectors from the steering pad.
(b) Disconnect the connectors from the front passenger airbag assembly.
(c) Disconnect the connector from the driver side knee airbag assembly.
(d) with Side and Curtain Shield Airbag:
Disconnect the connector from the front seat side airbag assembly LH.
(e) with Side and Curtain Shield Airbag:
Disconnect the connector from the front seat side airbag assembly RH.
(f) with Side and Curtain Shield Airbag:
Disconnect the connector from the curtain shield airbag assembly LH.
(g) with Side and Curtain Shield Airbag:
Disconnect the connector from the curtain shield airbag assembly RH.
(h) Disconnect the connector from the front seat outer belt assembly LH.
(i) Disconnect the connector from the front seat outer belt assembly RH.
(j) Using a service wire, connect terminals 1 and 2 of connector "E".
**NOTICE:**
**Do not forcibly insert a service wire into the terminals of the connector when connecting.**
(k) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| A11-9 (DSP+) - A11-17 (DSP-) | Always | Below 1 Ω |

NG → Go to step 11

OK

## 5 CHECK SEAT POSITION AIRBAG SENSOR CIRCUIT (SHORT)




(a) Disconnect the service wire from connector E.
(b) Measure the resistance between the terminals of connector E according to the value(s) in the table below.

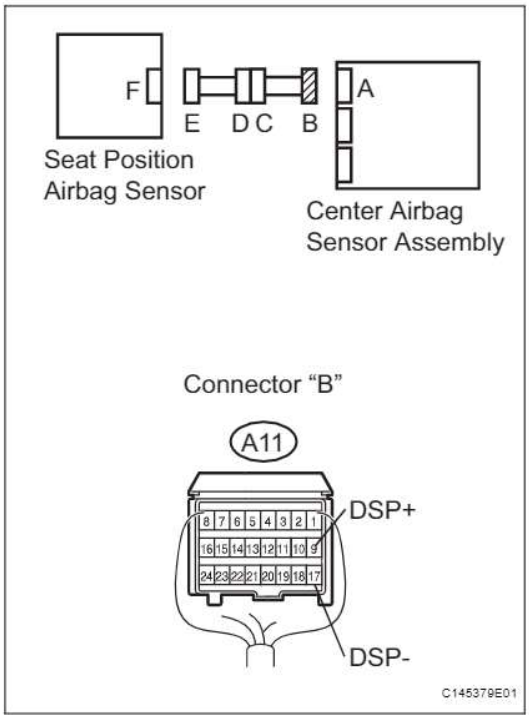
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| A11-9 (DSP+) - A11-17 (DSP-) | Always | 1 MΩ or higher |

NG → Go to step 12

OK

## 6 CHECK SEAT POSITION AIRBAG SENSOR 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.

**Standard voltage**

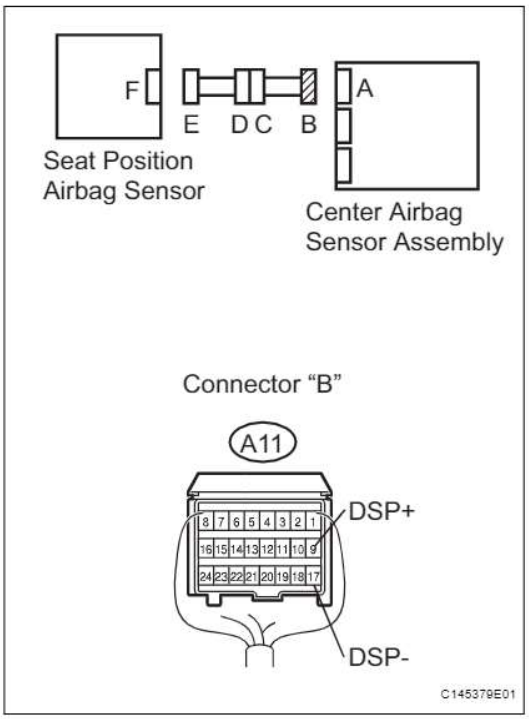
| Tester Connection | Condition | Specified Condition |
|---|---|---|
| A11-9 (DSP+) - Body ground | Ignition switch ON | Below 1 V |
| A11-17 (DSP-) - Body ground | Ignition switch ON | Below 1 V |

NG → Go to step 13

OK

RS

## 7 CHECK SEAT POSITION AIRBAG SENSOR CIRCUIT (SHORT TO GROUND)




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

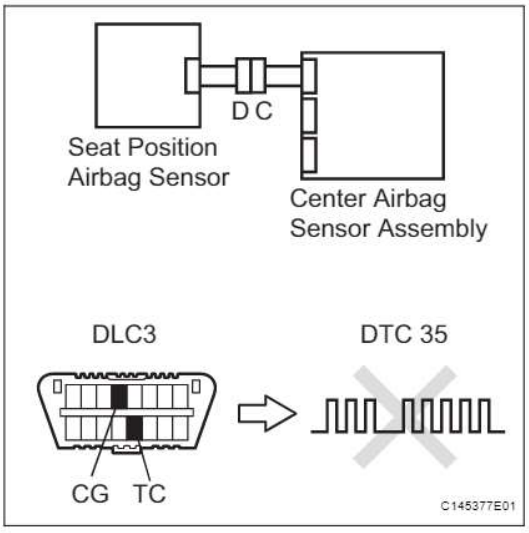
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| A11-9 (DSP+) - Body ground | Always | 1 MΩ or higher |
| A11-17 (DSP-) - Body ground | Always | 1 MΩ or higher |

NG → **Go to step 14**

OK

## 8 CHECK SEAT POSITION AIRBAG SENSOR




(a) Connect the connectors to the center airbag sensor assembly and the seat position airbag sensor.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in the memory (See page RS-18).
(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 for DTCs (See page RS-18).

**OK:**

**DTC B1653/35 is not output.**

HINT:

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

NG → **Go to step 9**

OK

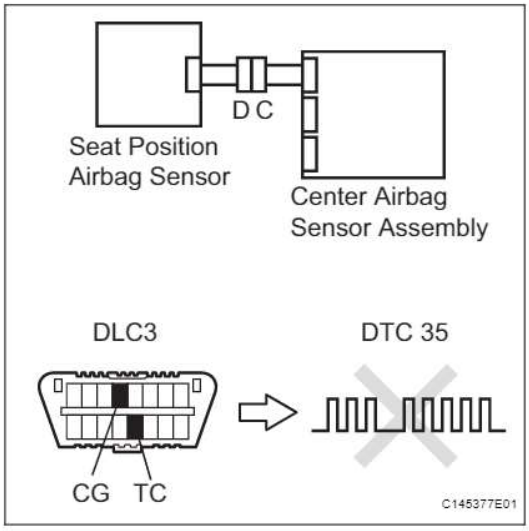
## USE SIMULATION METHOD TO CHECK

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

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Replace the seat position airbag sensor (See page RS-404).
HINT:
Perform inspection using parts from a normal vehicle if possible.

NEXT

| 10 | 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 the memory (See page RS-18).
(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 for DTCs (See page RS-18).
**OK:**
**DTC B1653/35 is not output.**
HINT:
Codes other than DTC B1653/35 may be output at this time, but they are not related to this check.

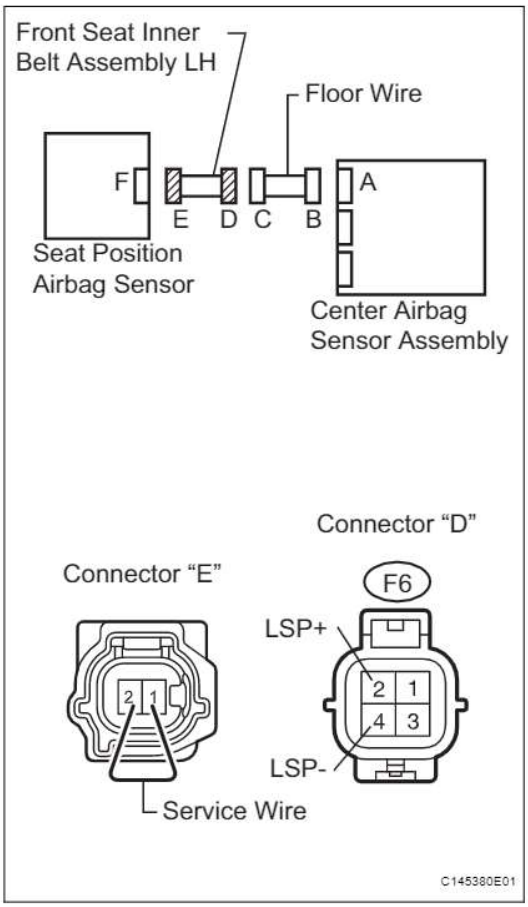
NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

**END**

RS

| 11 | CHECK FRONT SEAT INNER BELT ASSEMBLY LH (OPEN) |
|---|---|




(a) Disconnect the floor wire connector from the front seat inner belt assembly LH.
HINT:
The service wire has already been inserted into connector "E".

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

**Standard resistance**

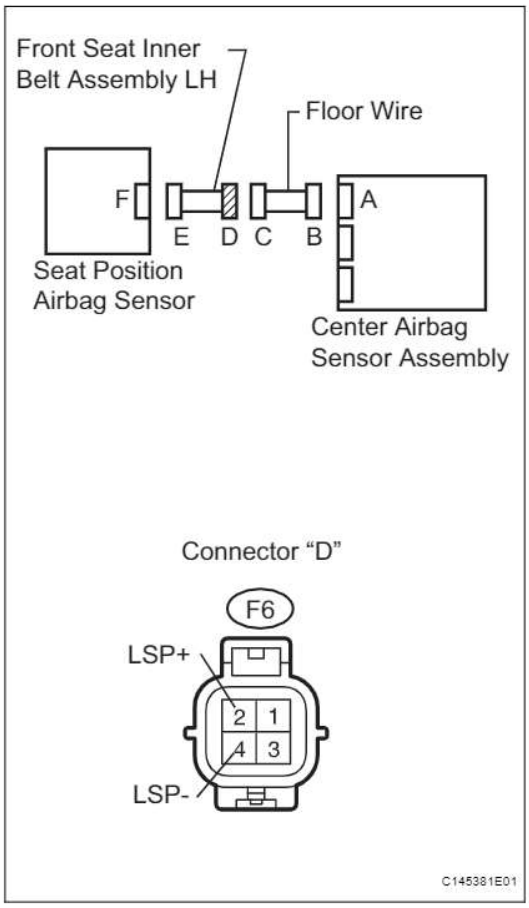
| Tester Connection | Condition | Specified Condition |
|---|---|---|
| F6-2 (LSP+) - F6-4 (LSP-) | Always | Below 1 Ω |

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

OK

**REPAIR OR REPLACE FLOOR WIRE**

## 12 CHECK FRONT SEAT INNER BELT ASSEMBLY LH (SHORT)




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

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

**Standard resistance**

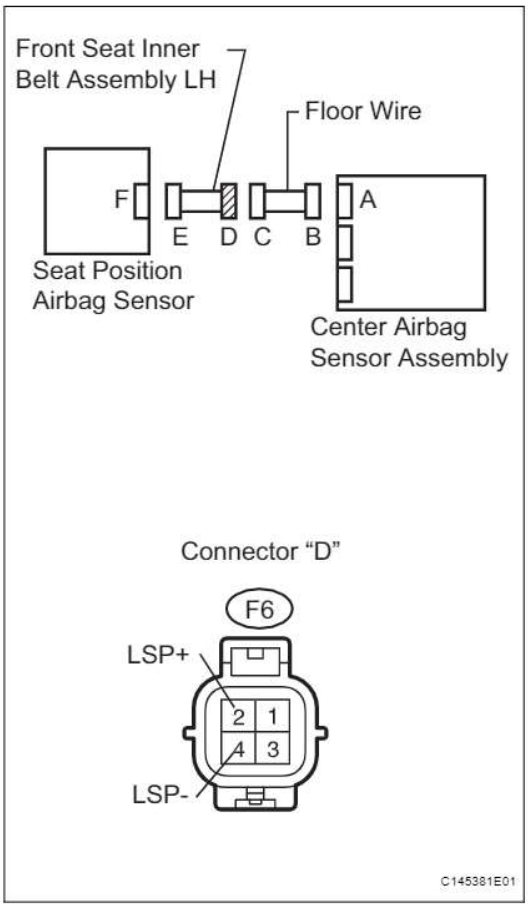
| Tester Connection | Condition | Specified Condition |
|---|---|---|
| F6-2 (LSP+) - F6-4 (LSP-) | Always | 1 MΩ or higher |

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

OK

**REPAIR OR REPLACE FLOOR WIRE**

| 13 | CHECK FRONT SEAT INNER BELT ASSEMBLY LH (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 inner belt assembly LH.
(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.

**Standard voltage**

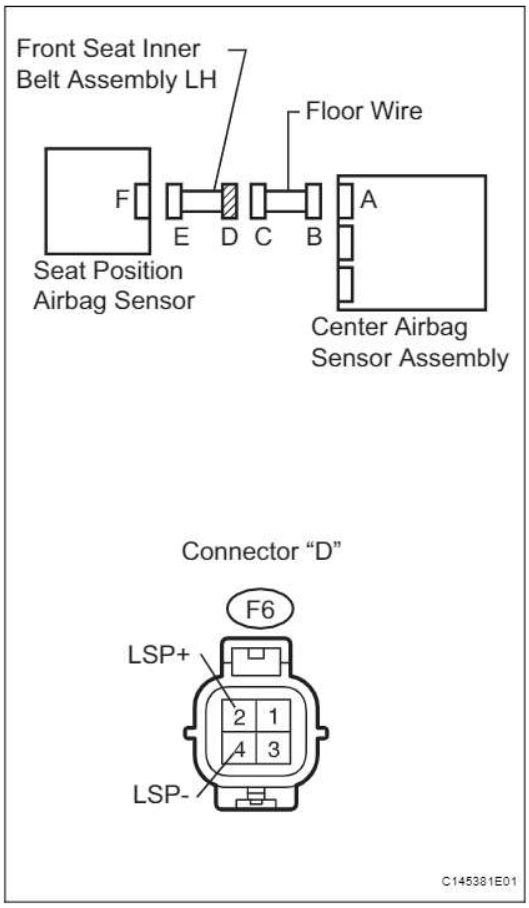
| Tester Connection | Condition | Specified Condition |
|---|---|---|
| F6-2 (LSP+) - Body ground | Ignition switch ON | Below 1 V |
| F6-4 (LSP-) - Body ground | Ignition switch ON | Below 1 V |

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

OK

**REPAIR OR REPLACE FLOOR WIRE**

## 14 CHECK FRONT SEAT INNER BELT ASSEMBLY LH (SHORT TO GROUND)




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

**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| F6-2 (LSP+) - Body ground | Always | 1 MΩ or higher |
| F6-4 (LSP-) - Body ground | Always | 1 MΩ or higher |

NG → REPLACE FRONT SEAT INNER BELT ASSEMBLY LH

OK

REPAIR OR REPLACE FLOOR WIRE

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

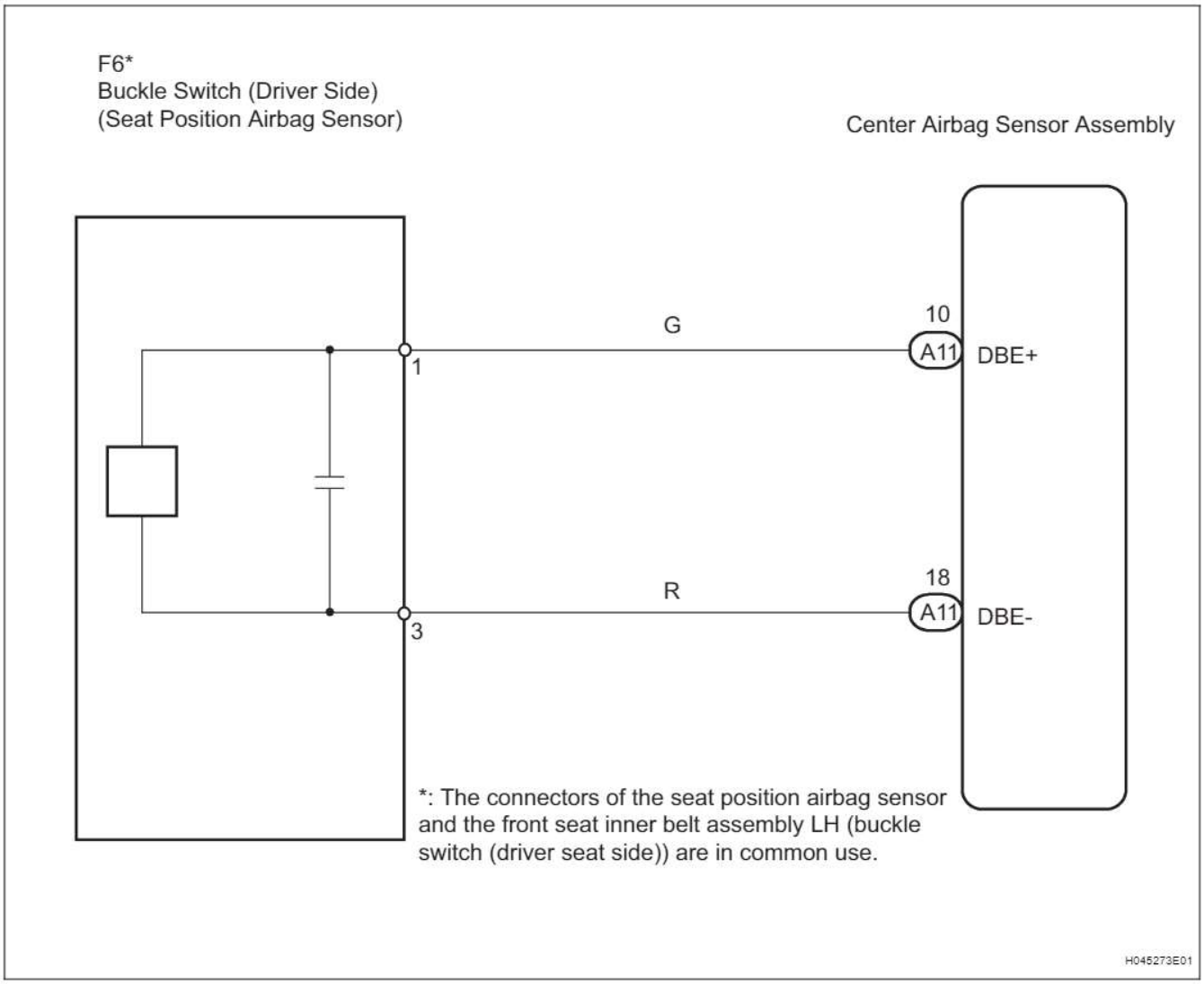
## DESCRIPTION

RS

The seat belt buckle switch (driver side) circuit consists of the center airbag sensor and the front seat inner belt LH (seat belt buckle switch (driver side)).
DTC B1655/37 is recorded when a malfunction is detected in the seat belt buckle switch (driver side) circuit.

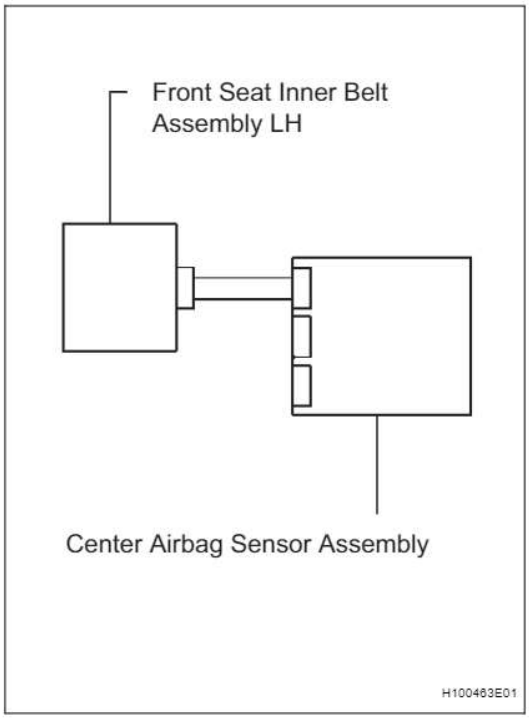
| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1655/37 | • The center airbag sensor assembly receives a line short signal, open signal, short to ground signal or B+ short signal in the seat belt buckle switch (driver side) circuit for 2 seconds.<br>• Front seat inner belt assembly LH (seat belt buckle switch (driver side)) malfunction<br>• Center airbag sensor assembly malfunction | • Front seat inner belt assembly LH (seat belt buckle switch (driver side))<br>• Center airbag sensor assembly<br>• Floor wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FOR 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-18).
(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 for DTCs (see page RS-18).

**OK:**

**DTC B1655/37 is not output.**

HINT:

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

NG → **Go to step 2**

OK

**PERFORM SYMPTOM SIMULATION**

| 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 and the front seat inner belt LH.

**OK:**

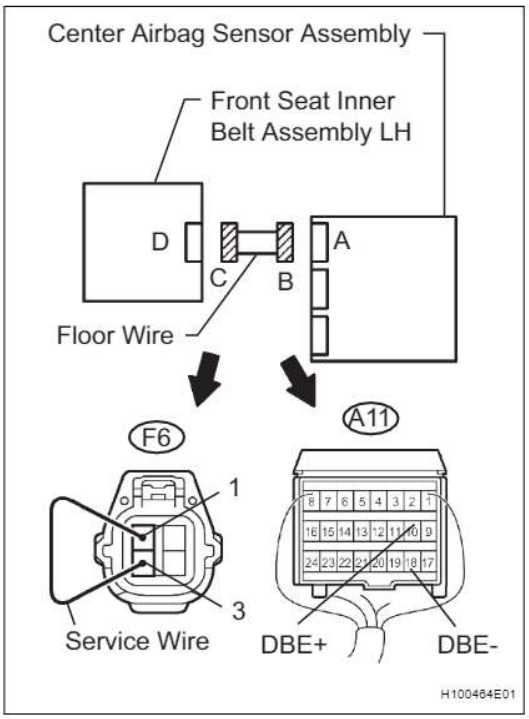
**The connectors are connected.**

NG → **CONNECT CONNECTORS**

OK

RS

| 3 | CHECK FLOOR WIRE (OPEN) |
|---|---|



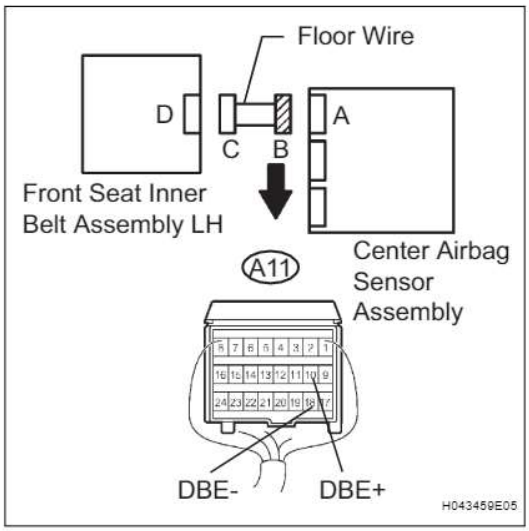

(a) Disconnect the connectors from the center airbag sensor.
(b) Disconnect the connectors from the horn button.
(c) Disconnect the connectors from the front passenger airbag.
(d) Disconnect the connector from the No. 1 instrument panel airbag lower.
(e) w/ Side and curtain shield airbag:
Disconnect the connector from the front seat airbag LH.
(f) w/ Side and curtain shield airbag:
Disconnect the connector from the front seat airbag RH.
(g) w/ Side and curtain shield airbag:
Disconnect the connector from the curtain shield airbag LH.
(h) w/ Side and curtain shield airbag:
Disconnect the connector from the curtain shield airbag RH.
(i) Disconnect the connector from the front seat outer belt LH.
(j) Disconnect the connector from the front seat outer belt RH.
(k) Using a service wire, connect F6-1 and F6-3 of connector "C".
**NOTICE:**
**Do not forcibly insert a service wire into the terminals of the connector when connecting.**
(l) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A11-10 (DBE+) - A11-18 (DBE-) | Below 1 Ω |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

## 4 CHECK FLOOR WIRE (SHORT)




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

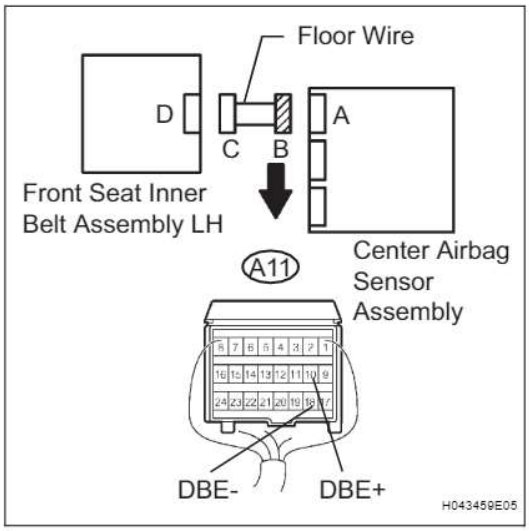
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A11-10 (DBE+) - A11-18 (DBE-) | 1 MΩ or higher |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

## 5 CHECK FLOOR WIRE (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.

**Standard voltage**

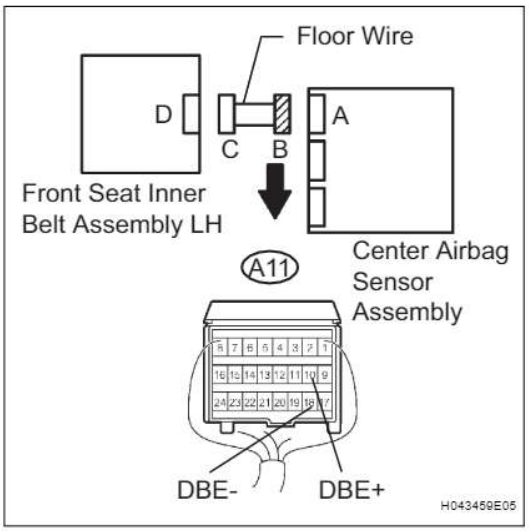
| Tester Connection | Specified Condition |
|---|---|
| A11-10 (DBE+) - Body ground | Below 1 V |
| A11-18 (DBE-) - Body ground | Below 1 V |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

## 6 CHECK FLOOR WIRE (TO GROUND)




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

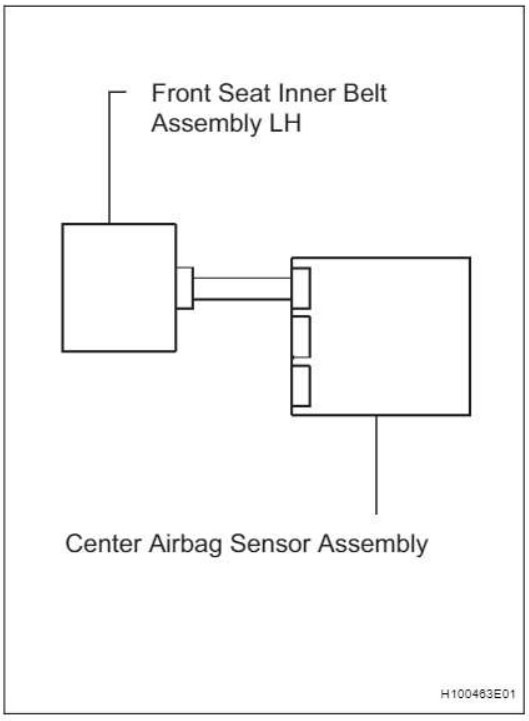
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A11-10 (DBE+) - Body ground | 1 MΩ or higher |
| A11-18 (DBE-) - Body ground | 1 MΩ or higher |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

## 7 CHECK FRONT SEAT INNER BELT ASSEMBLY LH




(a) Connect the connectors to the center airbag sensor.
(b) Connect the connector to the front seat inner belt LH.
(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-18).
(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-18).

**OK:**

**DTC B1655/37 is not output.**

HINT:

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

NG → **Go to step 8**

OK

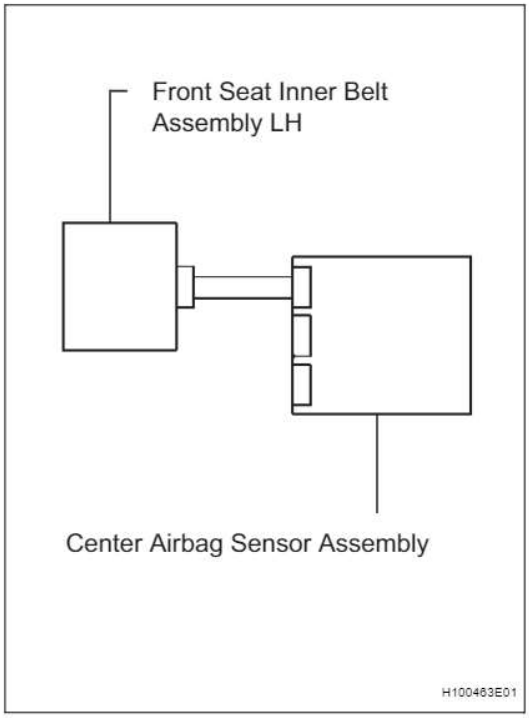
**PERFORM SYMPTOM SIMULATION**

| 8 | 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 LH and connect the connector (see page SB-5).
HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

| 9 | 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-18).
(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-18).
**OK:**
**DTC B1655/37 is not output.**
HINT:
Codes other than code B1655/37 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

**END**

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

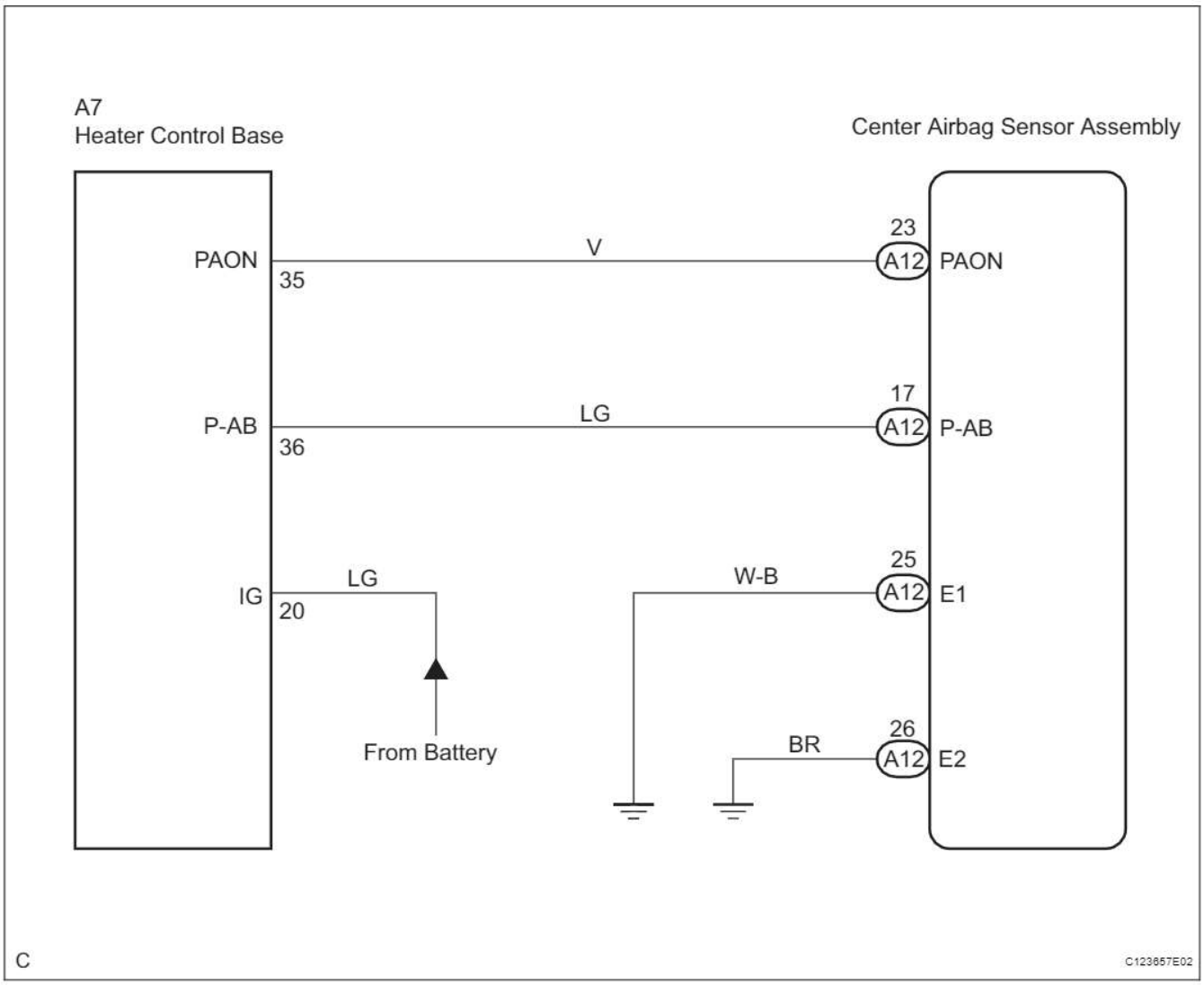
## DESCRIPTION

RS

The passenger airbag ON/OFF indicator circuit consists of the center airbag sensor assembly and the heater control base.
The passenger airbag ON/OFF indicator indicates the operation condition of the front passenger airbag assembly and the front seat side airbag assembly RH.
DTC B1660/43 is recorded when a malfunction is detected in the passenger airbag ON/OFF indicator circuit.

| DTC No. | DTC Detecting Condition | Trouble Area |
|---|---|---|
| B1660/43 | • The center airbag sensor assembly 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 airbag ON/OFF indicator circuit for 2 seconds.<br>• Heater control base malfunction<br>• Center airbag sensor assembly malfunction | • Instrument panel wire<br>• Heater control base (Passenger airbag ON/OFF indicator)<br>• Center airbag sensor assembly |

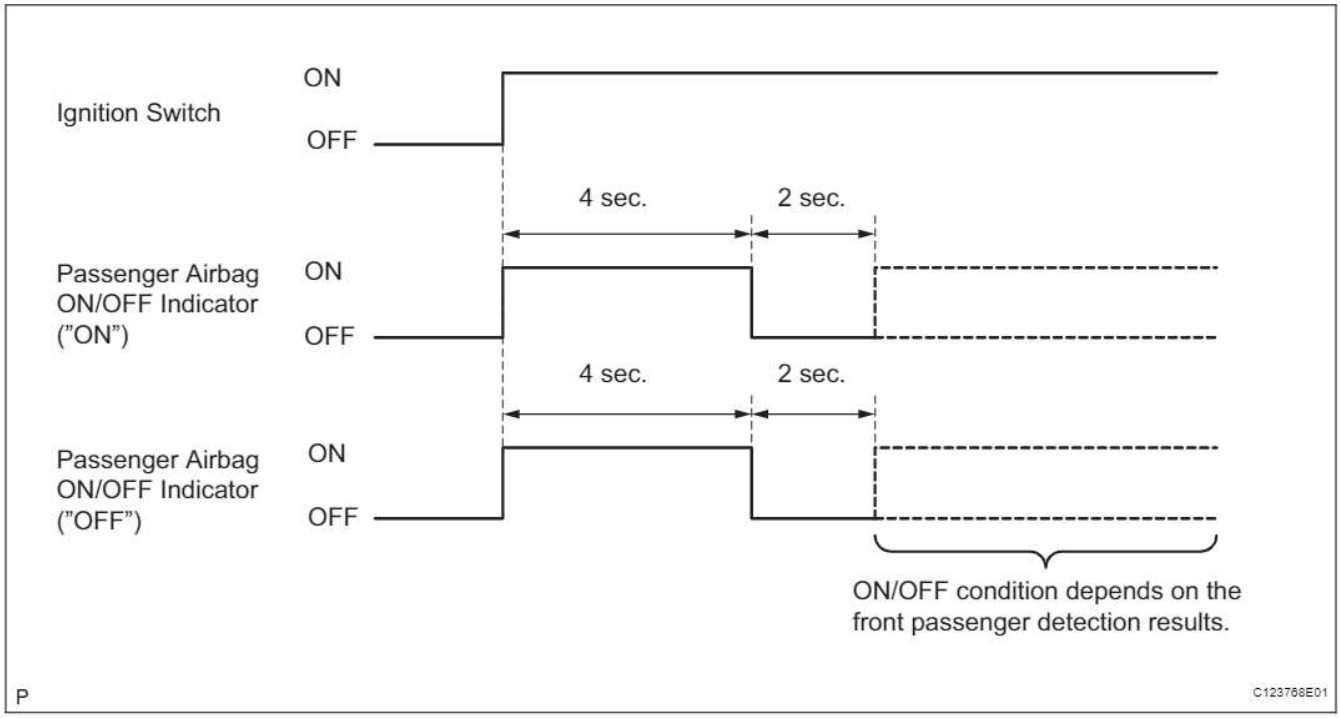
## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK PASSENGER AIRBAG ON/OFF INDICATOR CONDITION |
|---|---|

(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-11).




**Result**

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

B → Go to step 10

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) Check that the connectors are properly connected to the center airbag sensor assembly and the heater control base.
**OK:**
**The connectors are properly connected.**

NG → CONNECT CONNECTORS PROPERLY, THEN GO TO STEP 1

OK

RS

| 3 | CHECK CONNECTORS |
|---|---|

(a) Disconnect the connectors from the center airbag sensor assembly and the heater control base.
(b) Check that the connectors (on the center airbag sensor assembly side and heater control base side) are not damaged.
**OK:**
**The connectors are not deformed or damaged.**

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

| 4 | CHECK PASSENGER AIRBAG ON/OFF INDICATOR |
|---|---|

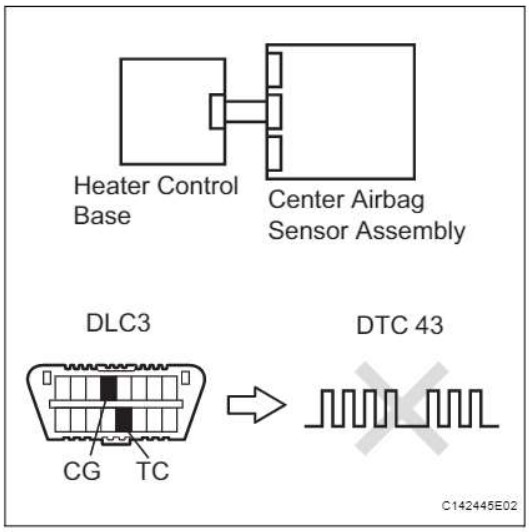



(a) Connect the connector to the heater control base.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position.
(d) Check the passenger airbag ON/OFF indicator operation.
**OK:**
**The passenger airbag ON/OFF indicator does not come on.**

NG → Go to step 6

OK

## 5 CHECK CENTER AIRBAG SENSOR ASSEMBLY




(a) Connect the connector to the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in the memory (See page RS-18).
(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 for DTCs (See page RS-18).

**OK:**

**DTC B1660/43 is not output.**

HINT:

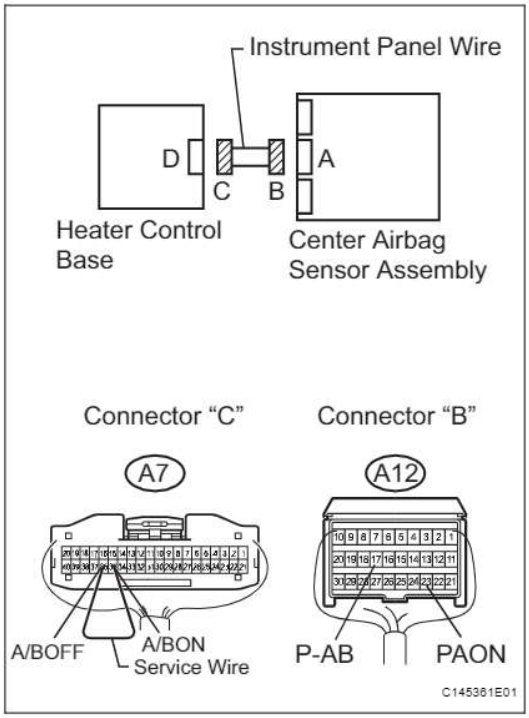
Codes other than DTC B1660/43 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

**USE SIMULATION METHOD TO CHECK**

## 6 CHECK INSTRUMENT PANEL WIRE (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) Disconnect the connector from the heater control base.
(d) Disconnect the connectors from the steering pad.
(e) Disconnect the connectors from the front passenger airbag assembly.
(f) Disconnect the connector from the driver side knee airbag assembly.
(g) with Side and Curtain Shield Airbag:
Disconnect the connector from the front seat side airbag assembly LH.
(h) with Side and Curtain Shield Airbag:
Disconnect the connector from the front seat side airbag assembly RH.
(i) with Side and Curtain Shield Airbag:
Disconnect the connector from the curtain shield airbag assembly LH.
(j) with Side and Curtain Shield Airbag:
Disconnect the connector from the curtain shield airbag assembly RH.
(k) Disconnect the connector from the front seat outer belt assembly LH.

RS

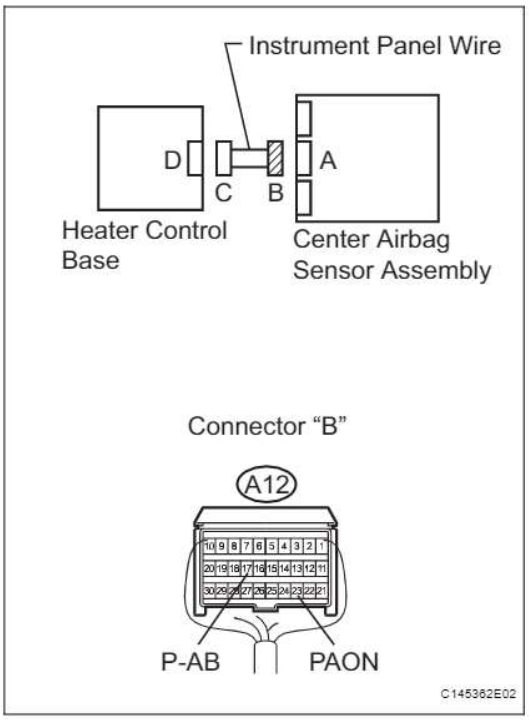
(l) Disconnect the connector from the front seat outer belt assembly RH.
(m) Using a service wire, connect A7-35 (A/BON) and A7-36 (A/BOFF) of connector "B".
**NOTICE:**
**Do not forcibly insert a service wire into the terminals of the connector when connecting.**
(n) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| A12-23 (PAON) - A12-17 (P-AB) | Always | Below 1 Ω |

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

OK

## 7 CHECK INSTRUMENT PANEL WIRE (SHORT)



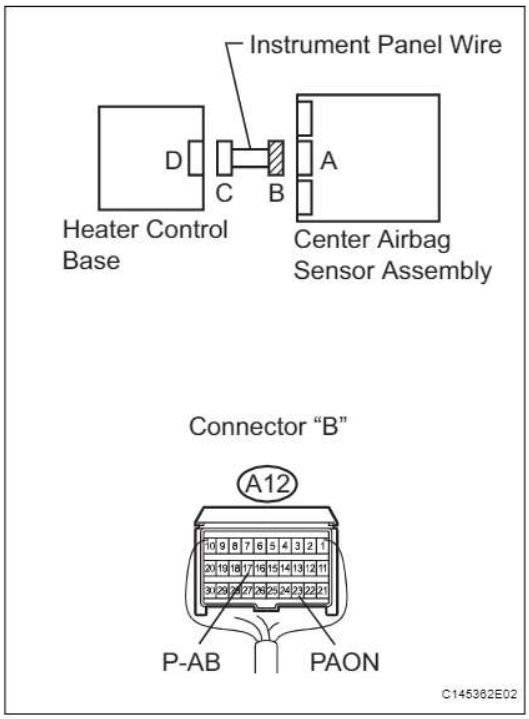

(a) Disconnect the service wire from connector "B".
(b) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| A12-23 (PAON) - A12-17 (P-AB) | Always | 1 MΩ or higher |

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

OK

## 8 CHECK INSTRUMENT PANEL WIRE (SHORT TO GROUND)




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

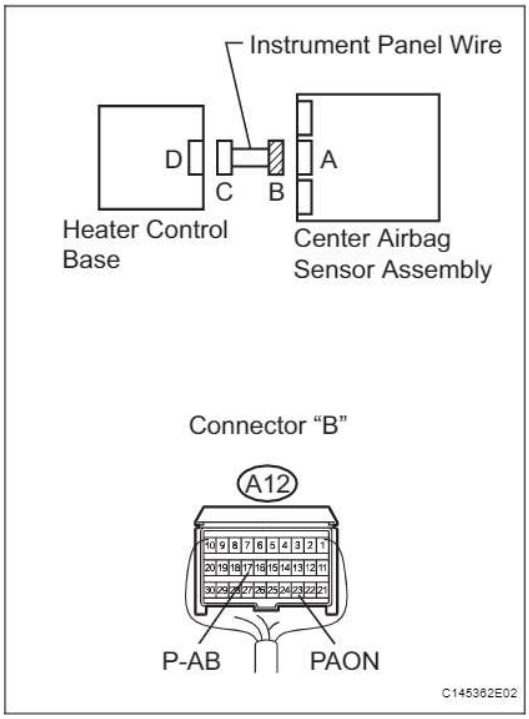
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| A12-23 (PAON) - Body ground | Always | 1 MΩ or higher |
| A12-17 (P-AB) - Body ground | Always | 1 MΩ or higher |

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

## 9 CHECK INSTRUMENT PANEL WIRE (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.

**Standard voltage**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| A12-23 (PAON) - Body ground | Ignition switch ON | Below 1 V |
| A12-17 (P-AB) - Body ground | Ignition switch ON | Below 1 V |

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

**REPLACE HEATER CONTROL BASE**

RS

| 10 | 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 heater control base.
**OK:**
**The connectors are properly connected.**

NG → **CONNECT CONNECTORS PROPERLY**

OK

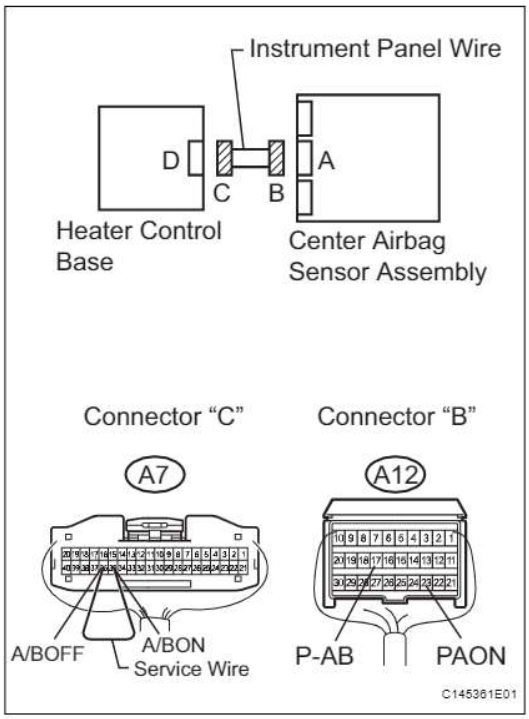
| 11 | CHECK CONNECTORS |
|---|---|

(a) Disconnect the connectors from the center airbag sensor assembly and the heater control base.
(b) Check that the connectors (on the center airbag sensor assembly side and heater control base side) are not damaged.
**OK:**
**The connectors are not deformed or damaged.**

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

OK

## 12 CHECK INSTRUMENT PANEL WIRE (OPEN)




(a) Disconnect the connectors from the steering pad.
(b) Disconnect the connectors from the front passenger airbag assembly.
(c) Disconnect the connector from the driver side knee airbag assembly.
(d) with Side and Curtain Shield Airbag:
Disconnect the connector from the front seat side airbag assembly LH.
(e) with Side and Curtain Shield Airbag:
Disconnect the connector from the front seat side airbag assembly RH.
(f) with Side and Curtain Shield Airbag:
Disconnect the connector from the curtain shield airbag assembly LH.
(g) with Side and Curtain Shield Airbag:
Disconnect the connector from the curtain shield airbag assembly RH.
(h) Disconnect the connector from the front seat outer belt assembly LH.
(i) Disconnect the connector from the front seat outer belt assembly RH.
(j) Using a service wire, connect A7-35 (A/BON) and A7-36 (A/BOFF) of connector "B".
**NOTICE:**
**Do not forcibly insert a service wire into the terminals of the connector when connecting.**
(k) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

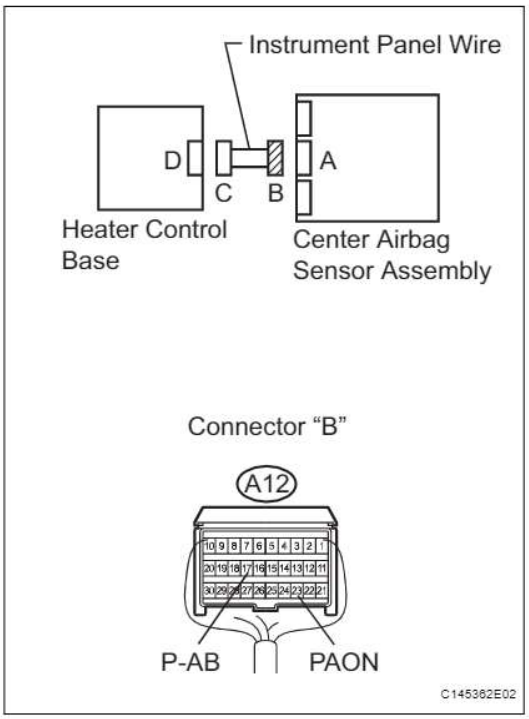
| Tester Connection | Condition | Specified Condition |
|---|---|---|
| A12-23 (PAON) - A12-17 (P-AB) | Always | Below 1 Ω |

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

OK

RS

## 13 CHECK INSTRUMENT PANEL WIRE (SHORT)




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

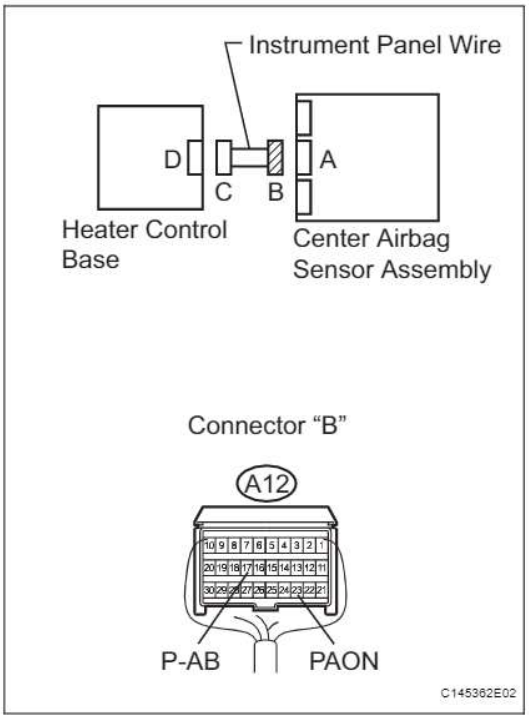
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| A12-23 (PAON) - A12-17 (P-AB) | Always | 1 MΩ or higher |

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

## 14 CHECK INSTRUMENT PANEL WIRE (SHORT TO GROUND)




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

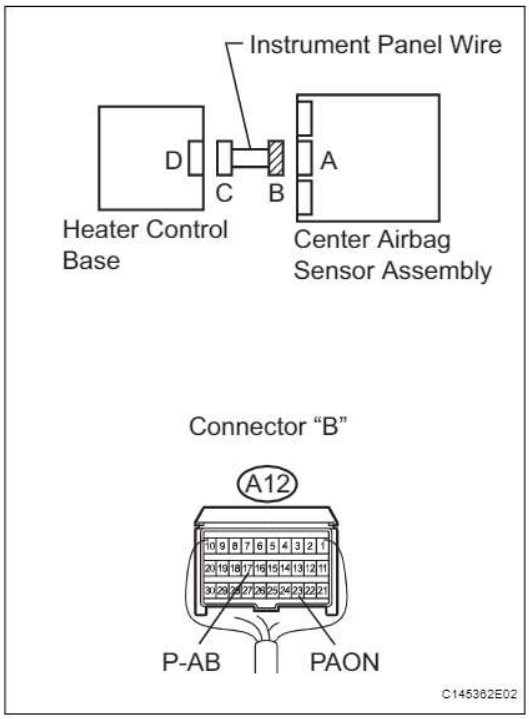
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| A12-23 (PAON) - Body ground | Always | 1 MΩ or higher |
| A12-17 (P-AB) - Body ground | Always | 1 MΩ or higher |

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

## 15 CHECK INSTRUMENT PANEL WIRE (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.

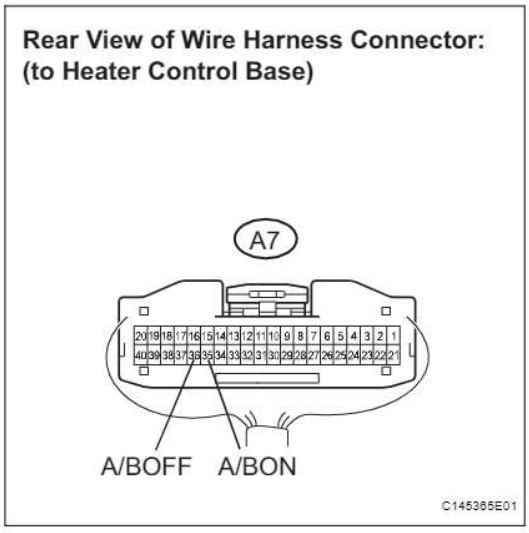
**Standard voltage**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| A12-23 (PAON) - Body ground | Ignition switch ON | Below 1 V |
| A12-17 (P-AB) - Body ground | Ignition switch ON | Below 1 V |

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

OK

## 16 CHECK WIRE HARNESS (HEATER CONTROL BASE - BATTERY)




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

**Standard voltage**

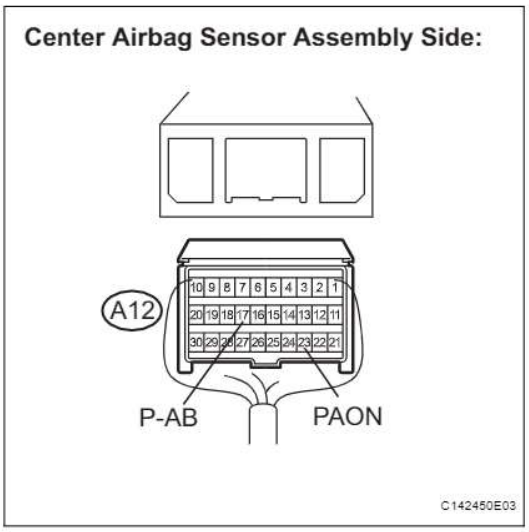
| Tester Connection | Condition | Specified Condition |
|---|---|---|
| A7-20 (IG) -Body ground | Ignition switch ON | 10 to 14 V |

NG → **REPAIR OR REPLACE WIRE HARNESS (HEATER CONTROL BASE - BATTERY)**

OK

RS

## 17 CHECK PASSENGER AIRBAG ON / OFF INDICATOR




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the heater control base.
(d) Disconnect the connectors from the center airbag sensor assembly.
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position.
(g) Check the indicator according to the conditions in the table below.

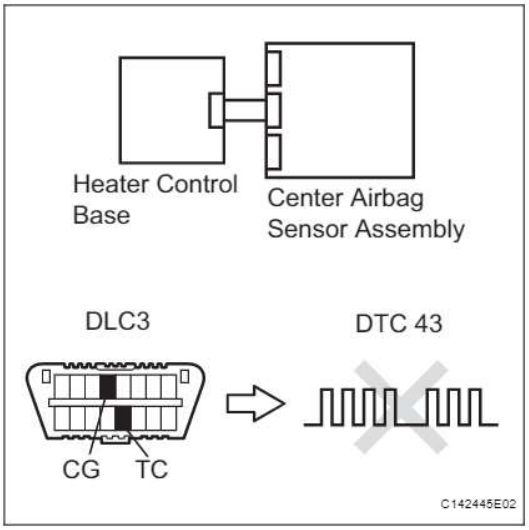
**Result**

| Tester Connection | Condition | Passenger airbag ON/ OFF indicator |
|---|---|---|
| A12-23 (PAON) - Body ground | Ignition switch ON | "ON" comes on |
| A12-17 (P-AB) - Body ground | Ignition switch ON | "OFF" comes on |

NG → **REPLACE HEATER CONTROL BASE**

OK

## 18 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 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 the memory (See page RS-18).
(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 for DTCs (See page RS-18).

**OK:**

**DTC B1660/43 is not output.**

HINT:

Codes other than DTC B1660/43 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

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

| DTC | B1800/51 | Short in Driver Side Squib Circuit |
|---|---|---|

| DTC | B1801/51 | Open in Driver Side Squib Circuit |
|---|---|---|

RS

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

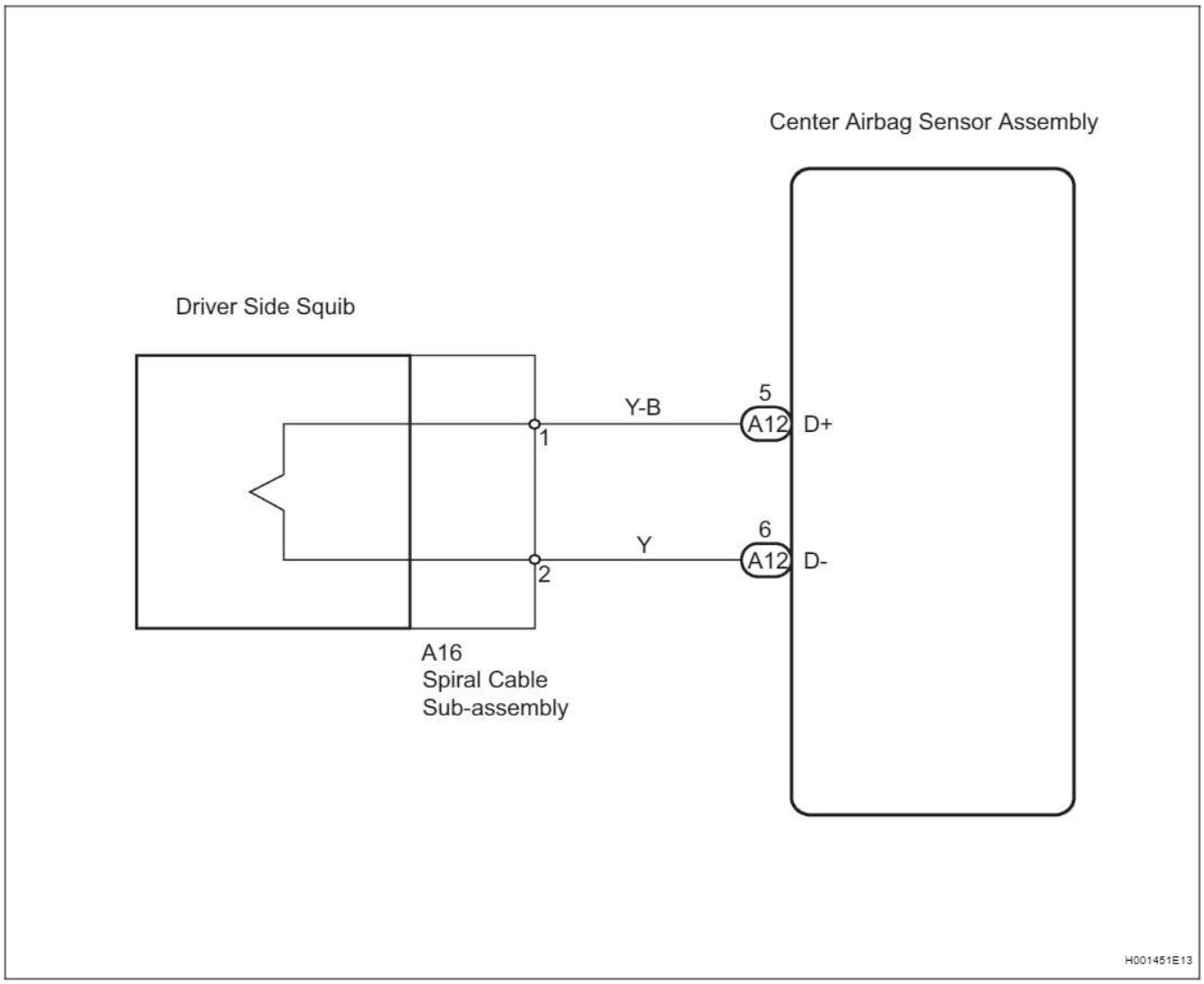
| DTC | B1803/51 | Short to B+ in Driver Side Squib Circuit |
|---|---|---|

## DESCRIPTION

The driver side squib circuit consists of the center airbag sensor, the spiral cable and the horn button. The circuit instructs the SRS to deploy when deployment conditions are met.
These DTCs are recorded when a malfunction is detected in the driver side squib circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1800/51 | • The center airbag sensor assembly receives a line short circuit signal 5 times in the driver side squib circuit during primary check. | • Horn button assembly (driver side squib)<br>• Spiral cable sub-assembly<br>• Center airbag sensor assembly<br>• Instrument panel wire |
| B1801/51 | • The center airbag sensor assembly receives an open circuit signal in the driver side squib circuit for 2 seconds. | • Horn button assembly (driver side squib)<br>• Spiral cable sub-assembly<br>• Center airbag sensor assembly<br>• Instrument panel wire |
| B1802/51 | • The center airbag sensor assembly receives a short circuit to ground signal in the driver side squib circuit for 0.5 seconds. | • Horn button assembly (driver side squib)<br>• Spiral cable sub-assembly<br>• Center airbag sensor assembly<br>• Instrument panel wire |
| B1803/51 | • The center airbag sensor assembly receives a B+ short circuit signal in the driver side squib circuit for 0.5 seconds. | • Horn button assembly (driver side squib)<br>• Spiral cable sub-assembly<br>• Center airbag sensor assembly<br>• Instrument panel wire |

## WIRING DIAGRAM




## INSPECTION PROCEDURE

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

(a) Proceed to each step according to DTC readings.
(1) If using the intelligent tester (read the 5-digit of DTC):
Using the intelligent tester, check for DTCs (see page RS-18).
**Result**

| Result | Proceed to |
|---|---|
| DTC B1800 is output. | A |
| DTC B1801 is output. | B |
| DTC B1802 is output. | C |
| DTC B1803 is output. | D |

(2) If not using the intelligent tester (read the 2-digit of DTC):

RS

Check for DTCs (see page RS-18).

**Result**

| Result | Proceed to |
|---|---|
| DTC 51 is output. | E |

| | |
|---|---|
| B | Go to step 4 |
| C | Go to step 5 |
| D | Go to step 6 |
| E | Go to step 7 |

A

## 2 CHECK CONNECTOR

(a) Check that the spiral cable connectors (on the horn button side) are not damaged.

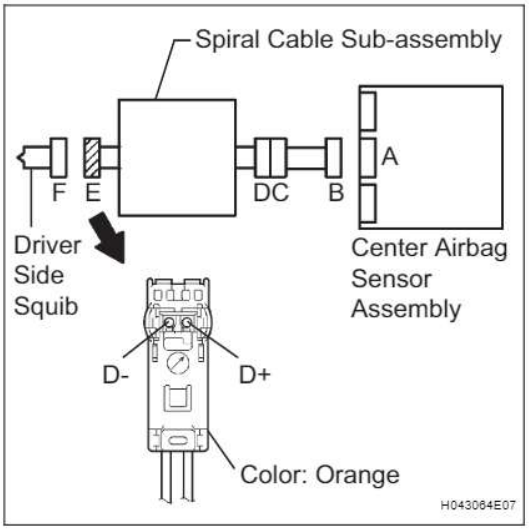
**OK:**

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

| | |
|---|---|
| NG | REPLACE SPIRAL CABLE SUB-ASSEMBLY |

OK

## 3 CHECK DRIVER SIDE SQUIB CIRCUIT (SHORT)



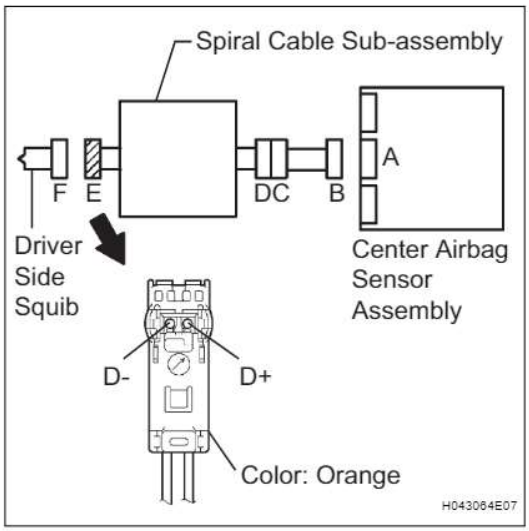

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor.
(d) Disconnect the connectors from the horn button.
(e) Release the activation prevention mechanism built into connector "B" (see page RS-11).
(f) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

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

| | |
|---|---|
| OK | Go to step 10 |
| NG | Go to step 13 |

## 4 CHECK DRIVER SIDE SQUIB 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) Disconnect the connectors from the center airbag sensor.
(d) Disconnect the connectors from the horn button.
(e) Measure the resistance according to the value(s) in the table below.

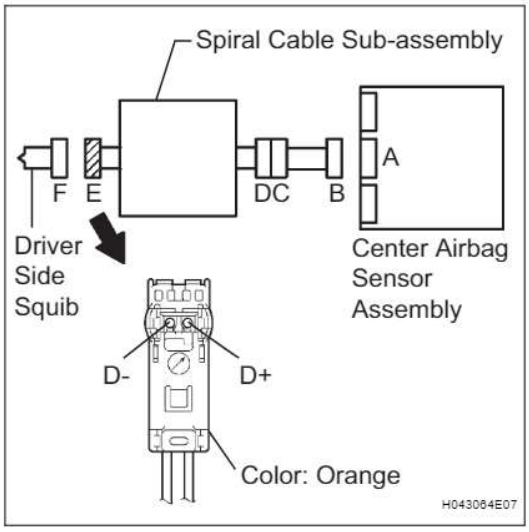
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| D+ - D- | Below 1 Ω |

OK → Go to step 11

NG → Go to step 15

## 5 CHECK DRIVER SIDE SQUIB CIRCUIT (TO GROUND)




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

**Standard resistance**

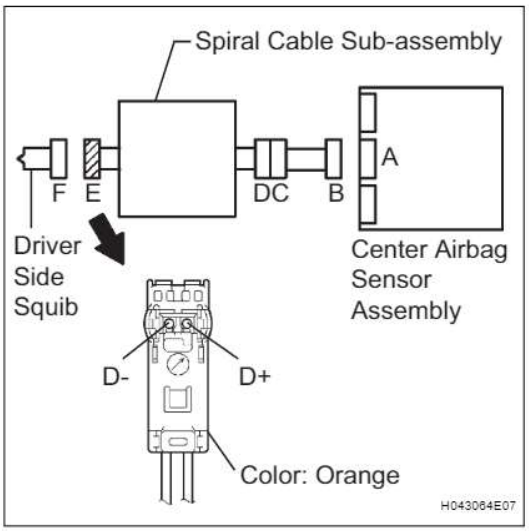
| Tester Connection | Specified Condition |
|---|---|
| D+ - Body ground | 1 MΩ or higher |
| D- - Body ground | 1 MΩ or higher |

OK → Go to step 11

NG → Go to step 17

RS

| 6 | CHECK DRIVER SIDE SQUIB CIRCUIT (TO B+) |
|---|---|




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

**Standard voltage**

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

(h) Before proceeding to the next step, perform the following procedures.
(1) Turn the ignition switch to the LOCK position.
(2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

| | |
|---|---|
| OK | Go to step 11 |
| NG | Go to step 19 |

| 7 | CHECK CONNECTOR |
|---|---|

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the spiral cable connectors (on the horn button side) are not damaged.

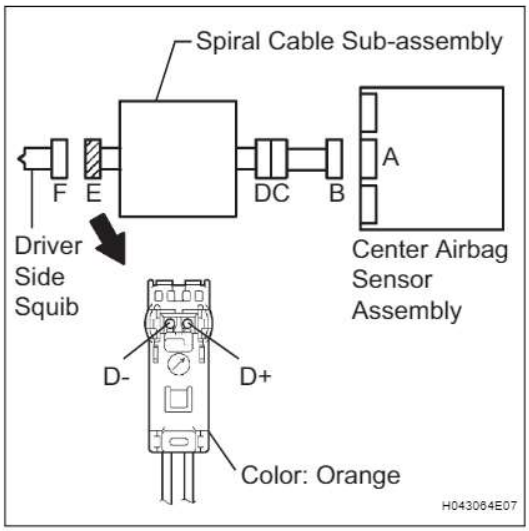
**OK:**

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

| | |
|---|---|
| NG | REPLACE SPIRAL CABLE SUB-ASSEMBLY |

OK

## 8 CHECK DRIVER SIDE SQUIB CIRCUIT




(a) Disconnect the connectors from the center airbag sensor.
(b) Disconnect the connectors from the horn button.
(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) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

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

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

**Standard resistance**

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

(i) Release the activation prevention mechanism built into connector "B" (see page RS-11).
(j) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

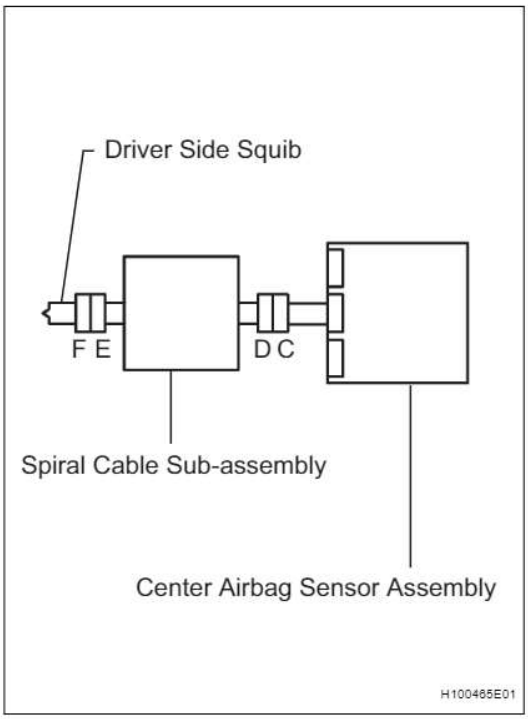
| Tester Connection | Specified Condition |
|---|---|
| D+ - D- | 1 MΩ or higher |

NG → Go to step 21

OK

RS

| 9 | REPLACE HORN BUTTON ASSEMBLY (DRIVER SIDE SQUIB) |
|---|---|



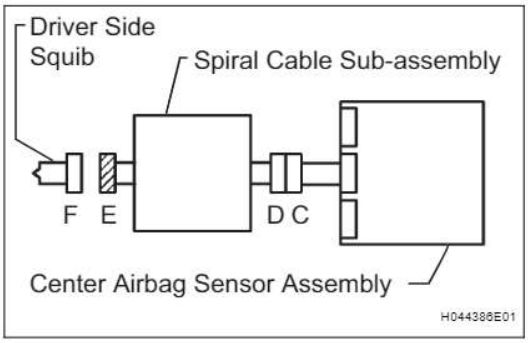

(a) Replace the horn button and connect the connectors.
HINT:
Perform the inspection using parts from a normal vehicle if possible.
(b) Connect the connectors to the center airbag sensor.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page RS-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC 51 is not output**
HINT:
Codes other than code 51 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

**END**

| 10 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|

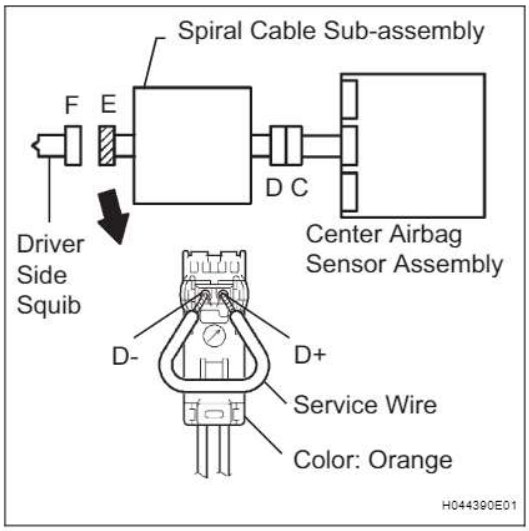



(a) Restore the released activation prevention mechanism of connector "B" to the original condition.
(b) Connect the connectors to the center airbag sensor.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page RS-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC B1800 is not output.**
HINT:
Codes other than code B1800 may be output at this time, but they are not related to this check.

OK → **Go to step 12**

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

## 11 CHECK CENTER AIRBAG SENSOR ASSEMBLY



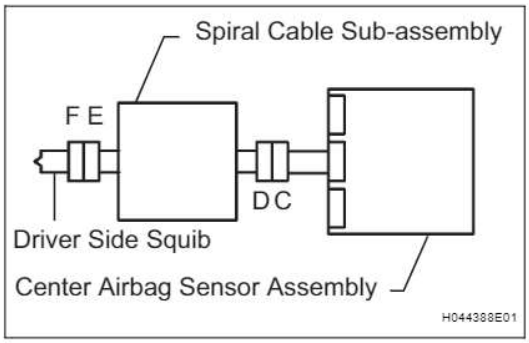

(a) Connect the connectors to the center airbag sensor.
(b) Using a service wire, connect D+ and D- of connector "E".
**NOTICE:**
- **Twist the end of the service wire in order to insert it into the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when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

(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch on the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page RS-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC B1801, B1802 or B1803 is not output.**
HINT:
Codes other than code B1801, B1802 or B1803 may be output at this time, but they are not related to this check.
(i) Before proceeding to the next step, perform the following procedures.
(1) Disconnect the service wire from connector "E".

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

## 12 CHECK HORN BUTTON ASSEMBLY (DRIVER SIDE SQUIB)




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the horn button.
(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-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC B1800, B1801, B1802 or B1803 is not output.**

HINT:
Codes other than code B1800, B1801, B1802 or B1803 may be output at this time, but they are not related to this check.

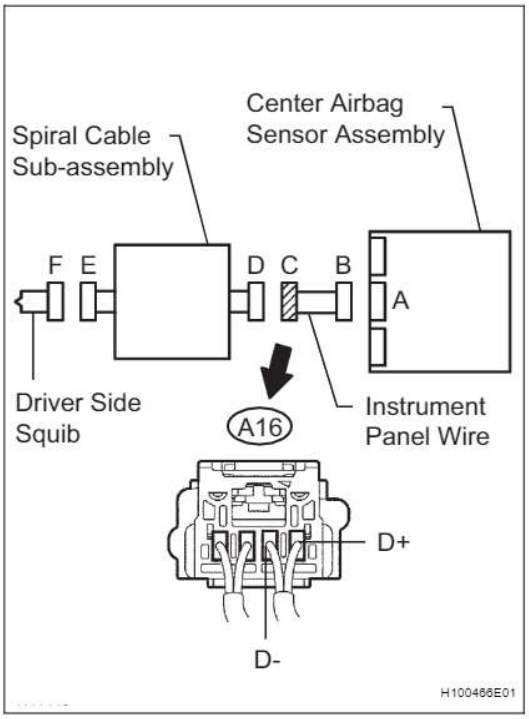
NG → REPLACE HORN BUTTON ASSEMBLY

RS

OK

PERFORM SYMPTOM SIMULATION

**13 CHECK INSTRUMENT PANEL WIRE (SHORT)**




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

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

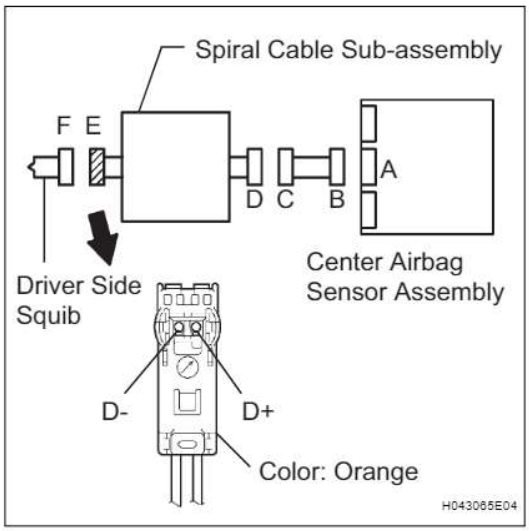
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A16-1 (D+) - A16-2 (D-) | 1 MΩ or higher |

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

## 14 CHECK SPIRAL CABLE SUB-ASSEMBLY (SHORT)




(a) Release the activation prevention mechanism built into connector "D" (see page RS-11).

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

**Standard resistance**

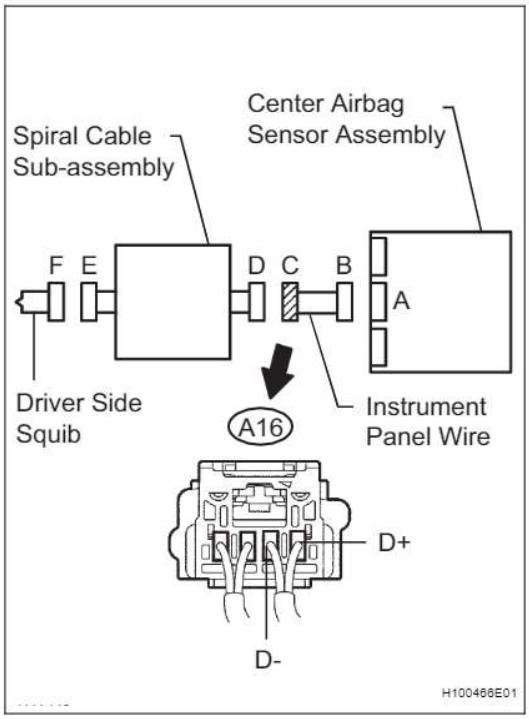
| Tester Connection | Specified Condition |
|---|---|
| D+ - D- | 1 MΩ or higher |

NG → REPLACE SPIRAL CABLE SUB-ASSEMBLY

OK

## PERFORM SYMPTOM SIMULATION

## 15 CHECK INSTRUMENT PANEL WIRE (OPEN)




(a) Disconnect the instrument panel wire connector from the spiral cable.

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

**Standard resistance**

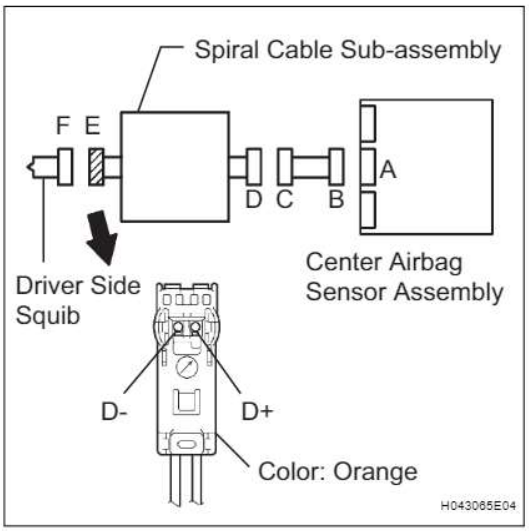
| Tester Connection | Specified Condition |
|---|---|
| A16-1 (D+) - A16-2 (D-) | Below 1 Ω |

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

RS

## 16 CHECK SPIRAL CABLE SUB-ASSEMBLY (OPEN)




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

**Standard resistance**

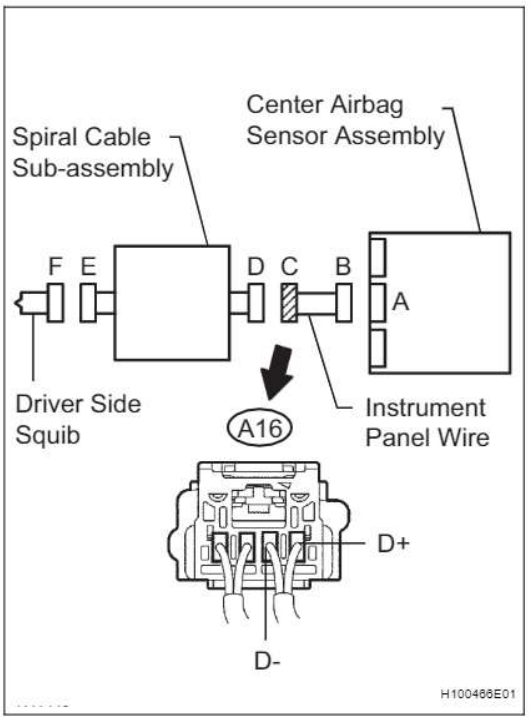
| Tester Connection | Specified Condition |
|---|---|
| D+ - D- | Below 1 Ω |

NG → REPLACE SPIRAL CABLE SUB-ASSEMBLY

OK

## PERFORM SYMPTOM SIMULATION

## 17 CHECK INSTRUMENT PANEL WIRE (TO GROUND)




(a) Disconnect the instrument panel wire connector from the spiral cable.

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

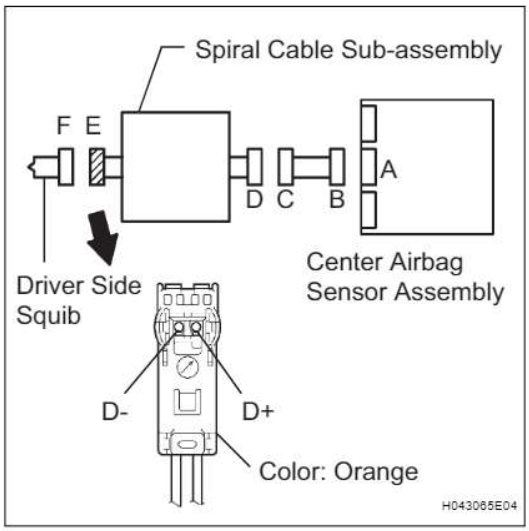
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A16-1 (D+) - Body ground | 1 MΩ or higher |
| A16-2 (D-) - Body ground | 1 MΩ or higher |

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

## 18 CHECK SPIRAL CABLE SUB-ASSEMBLY (TO GROUND)




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

**Standard resistance**

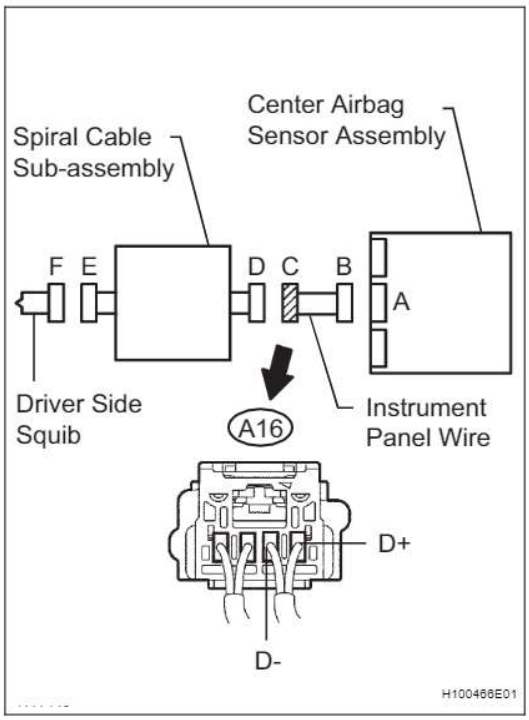
| Tester Connection | Specified Condition |
|---|---|
| D+ - Body ground | 1 MΩ or higher |
| D- - Body ground | 1 MΩ or higher |

NG → REPLACE SPIRAL CABLE SUB-ASSEMBLY

OK

## PERFORM SYMPTOM SIMULATION

## 19 CHECK INSTRUMENT PANEL WIRE (TO B+)




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

**Standard voltage**

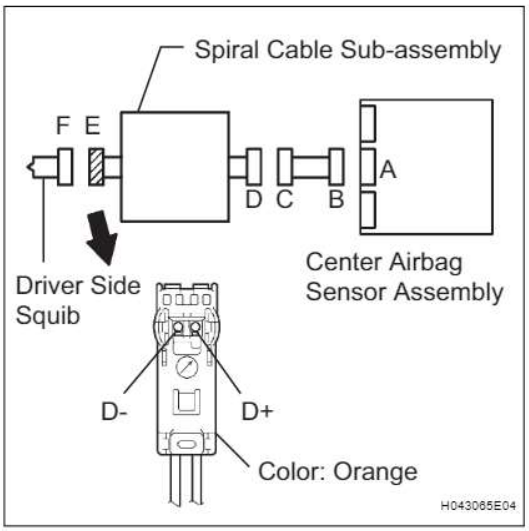
| Tester Connection | Specified Condition |
|---|---|
| A16-1 (D+) - Body ground | Below 1 V |
| A16-2 (D-) - Body ground | Below 1 V |

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

RS

## 20 CHECK SPIRAL CABLE SUB-ASSEMBLY (TO B+)




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

**Standard voltage**

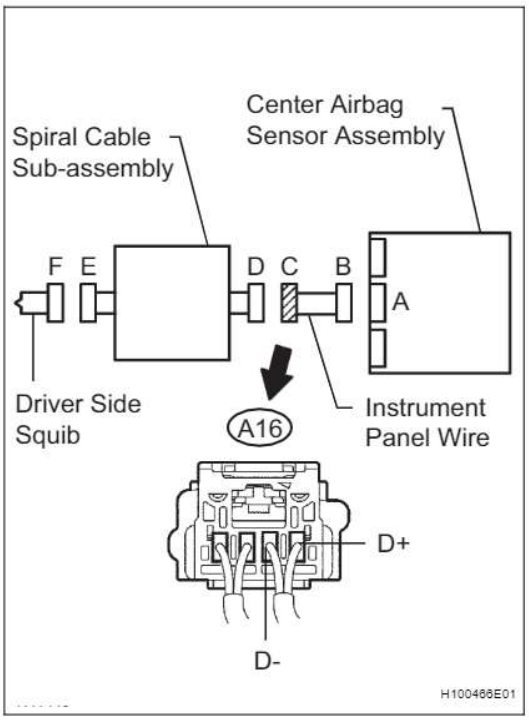
| Tester Connection | Specified Condition |
|---|---|
| D+ - Body ground | Below 1 V |
| D- - Body ground | Below 1 V |

NG → REPLACE SPIRAL CABLE SUB-ASSEMBLY

OK

## PERFORM SYMPTOM SIMULATION

## 21 CHECK INSTRUMENT PANEL WIRE




(a) Restore the released activation prevention mechanism of connector "B" to the original condition.
(b) Disconnect the instrument panel wire connector from the spiral cable.
(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) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| A16-1 (D+) - Body ground | Below 1 V |
| A16-2 (D-) - Body ground | Below 1 V |

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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A16-1 (D+) - A16-2 (D-) | Below 1 Ω |
| A16-1 (D+) - Body ground | 1 MΩ or higher |
| A16-2 (D-) - Body ground | 1 MΩ or higher |

(i) Release the activation prevention mechanism built into connector "B" (see page RS-11).
(j) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

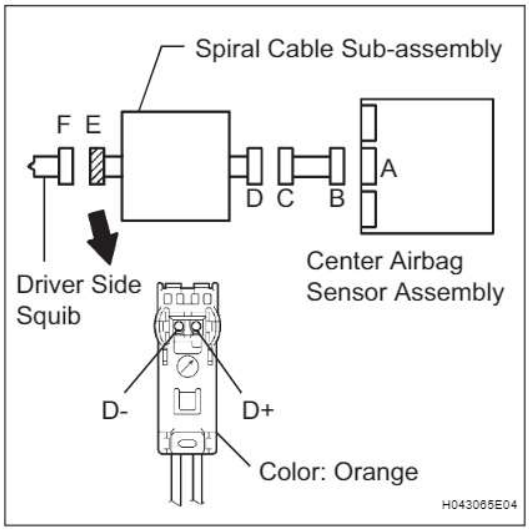
| Tester Connection | Specified Condition |
|---|---|
| A16-1 (D+) - A16-2 (D-) | 1 MΩ or higher |

RS

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

OK

## 22 CHECK SPIRAL CABLE SUB-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.
(c) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

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

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

**Standard resistance**

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

(g) Release the activation prevention mechanism built into connector "D" (see page RS-11).
(h) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

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

NG → **REPLACE SPIRAL CABLE SUB-ASSEMBLY**

OK

**PERFORM SYMPTOM SIMULATION**

| | | |
|---|---|---|
| DTC | B1805/52 | Short in Front Passenger Side Squib Circuit |
| DTC | B1806/52 | Open in Front Passenger Side Squib Circuit |
| DTC | B1807/52 | Short to GND in Front Passenger Side Squib Circuit |
| DTC | B1808/52 | Short to B+ in Front Passenger Side Squib Circuit |

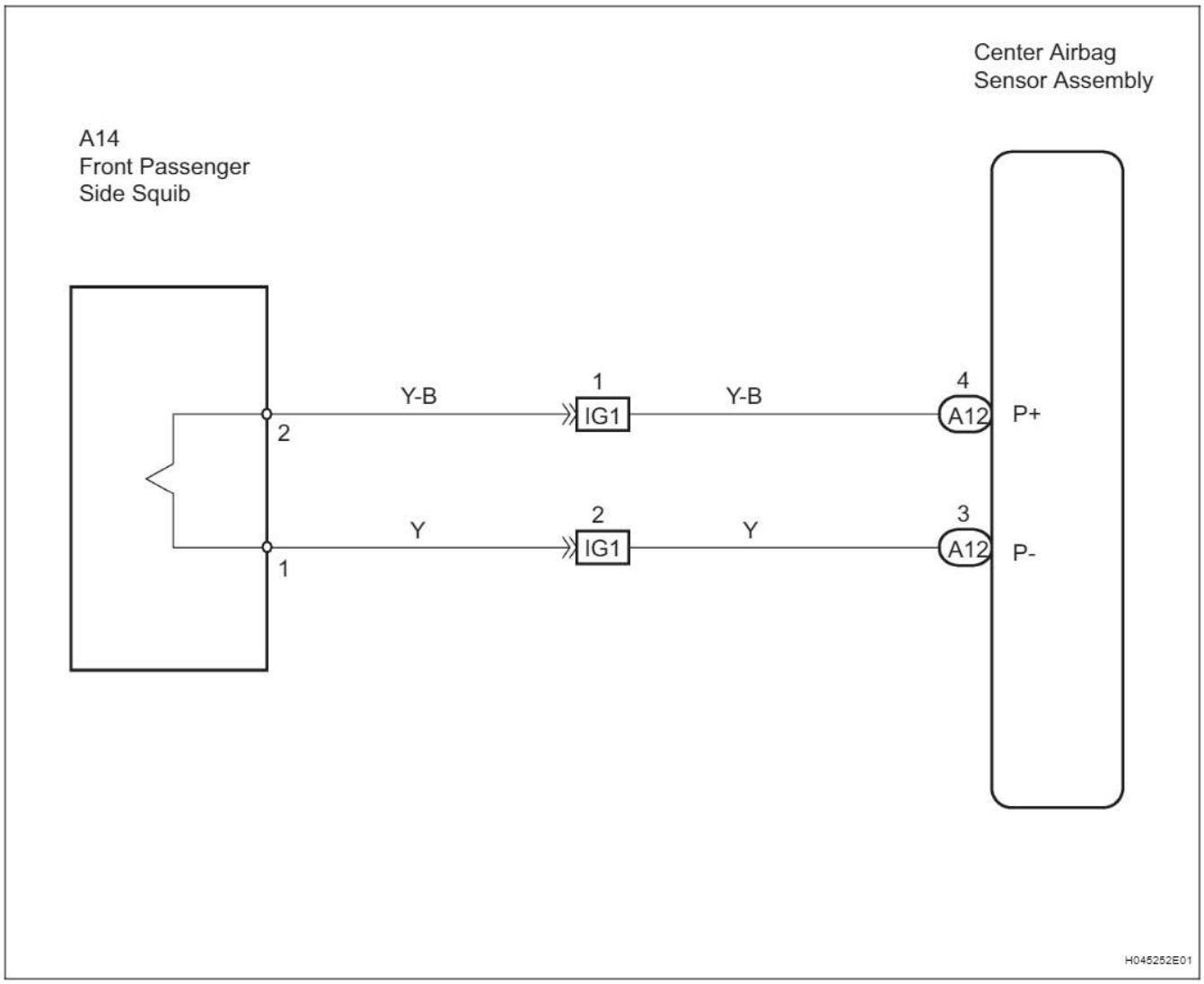
RS

## DESCRIPTION

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

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

## WIRING DIAGRAM




## INSPECTION PROCEDURE

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

(a) Proceed to each step according to DTC readings.
(1) If using the intelligent tester (read the 5-digit of DTC):
Using the intelligent tester, check for DTCs (see page RS-18).
**Result**

| Result | Proceed to |
|---|---|
| DTC B1805 is output. | A |
| DTC B1806 is output. | B |
| DTC B1807 is output. | C |
| DTC B1808 is output. | D |

(2) If not using the intelligent tester (read the 2-digit of DTC):

Check for DTCs (see page RS-18).

**Result**

| Result | Proceed to |
|---|---|
| DTC 52 is output. | E |

RS

| | |
|---|---|
| B | Go to step 4 |
| C | Go to step 5 |
| D | Go to step 6 |
| E | Go to step 7 |

A

## 2 CHECK CONNECTOR

(a) Check that the instrument panel wire connectors (on the front passenger airbag side) are not damaged.

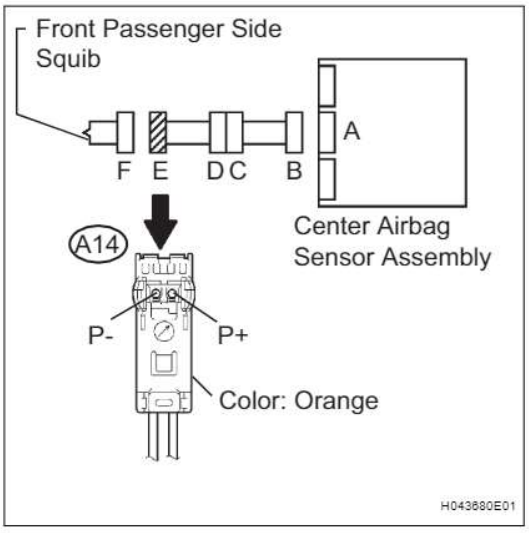
**OK:**

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

| | |
|---|---|
| NG | REPAIR OR REPLACE INSTRUMENT PANEL WIRE ASSEMBLY |

OK

## 3 CHECK FRONT PASSENGER SIDE SQUIB CIRCUIT (SHORT)



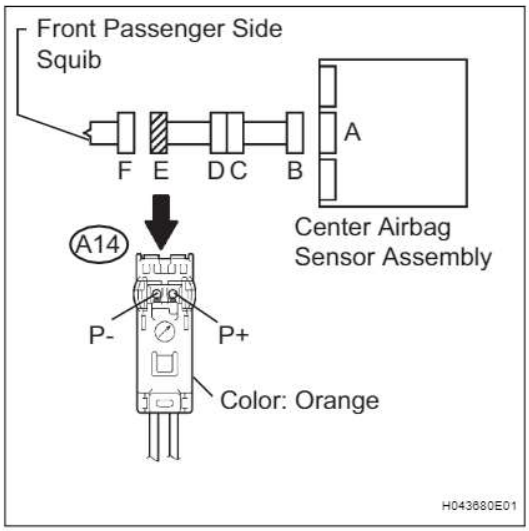

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor.
(d) Disconnect the connectors from the front passenger airbag.
(e) Release the activation prevention mechanism built into connector "B" (see page RS-11).
(f) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A14-2 (P+) - A14-1 (P-) | 1 MΩ or higher |

| | |
|---|---|
| OK | Go to step 10 |
| NG | Go to step 13 |

## 4 CHECK FRONT PASSENGER SIDE SQUIB CIRCUIT (OPEN)



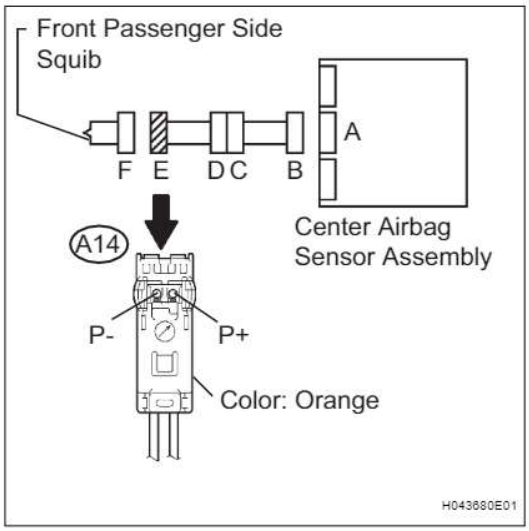

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor.
(d) Disconnect the connectors from the front passenger airbag.
(e) Measure the resistance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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A14-2 (P+) - A14-1 (P-) | Below 1 Ω |

| | |
|---|---|
| OK | Go to step 11 |
| NG | Go to step 15 |

## 5 CHECK FRONT PASSENGER SIDE SQUIB CIRCUIT (TO GROUND)




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

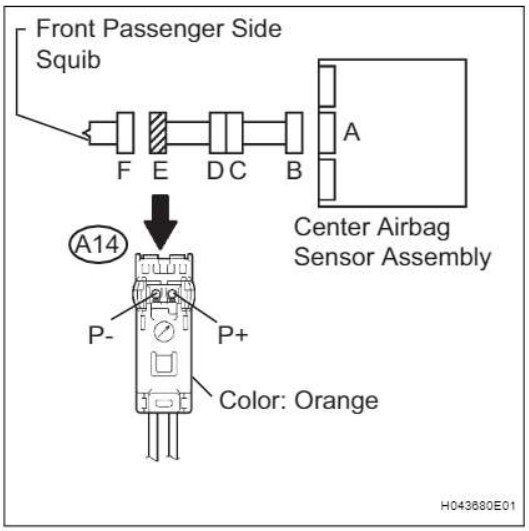
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A14-2 (P+) - Body ground | 1 MΩ or higher |
| A14-1 (P-) - Body ground | 1 MΩ or higher |

| | |
|---|---|
| OK | Go to step 11 |
| NG | Go to step 17 |

RS

| 6 | CHECK FRONT PASSENGER SIDE SQUIB CIRCUIT (TO B+) |
|---|---|




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

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| A14-2 (P+) - Body ground | Below 1 V |
| A14-1 (P-) - Body ground | Below 1 V |

(h) Before proceeding to the next step, perform the following procedures.
(1) Turn the ignition switch to the LOCK position.
(2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

| | |
|---|---|
| OK | Go to step 11 |
| NG | Go to step 19 |

| 7 | CHECK CONNECTOR |
|---|---|

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

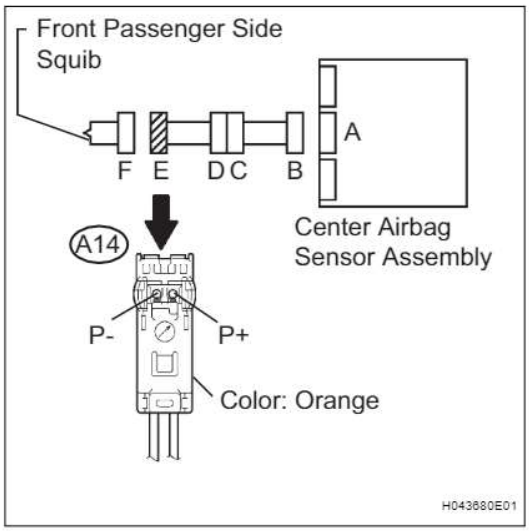
**OK:**

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

| | |
|---|---|
| NG | REPAIR OR REPLACE INSTRUMENT PANEL WIRE ASSEMBLY |

OK

## 8 CHECK FRONT PASSENGER SIDE SQUIB CIRCUIT




(a) Disconnect the connectors from the center airbag sensor.
(b) Disconnect the connectors from the front passenger airbag.
(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) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| A14-2 (P+) - Body ground | Below 1 V |
| A14-1 (P-) - Body ground | Below 1 V |

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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A14-2 (P+) -A14-1 (P-) | Below 1 Ω |
| A14-2 (P+) - Body ground | 1 MΩ or higher |
| A14-1 (P-) - Body ground | 1 MΩ or higher |

(i) Release the activation prevention mechanism built into connector "B" (see page RS-11).
(j) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

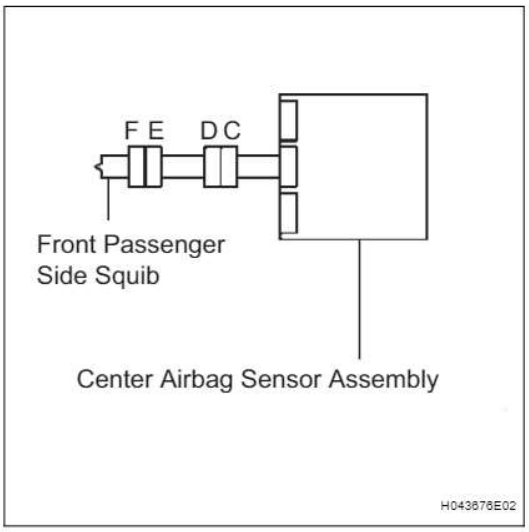
| Tester Connection | Specified Condition |
|---|---|
| A14-2 (P+) - A14-1 (P-) | 1 MΩ or higher |

NG → Go to step 21

OK

RS

| 9 | REPLACE FRONT PASSENGER AIRBAG ASSEMBLY (FRONT PASSENGER SIDE SQUIB) |
|---|---|



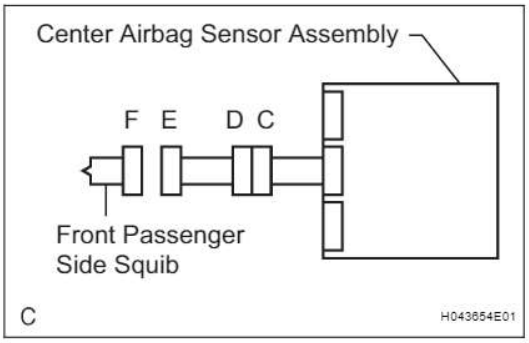

(a) Replace the front passenger airbag and connect the connectors.
HINT:
Perform the inspection using parts from a normal vehicle if possible.
(b) Connect the connectors to the center airbag sensor.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page RS-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC 52 is not output.**
HINT:
Codes other than code 52 may be output at this time, but they are not related to this check.

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

OK

**END**

| 10 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|

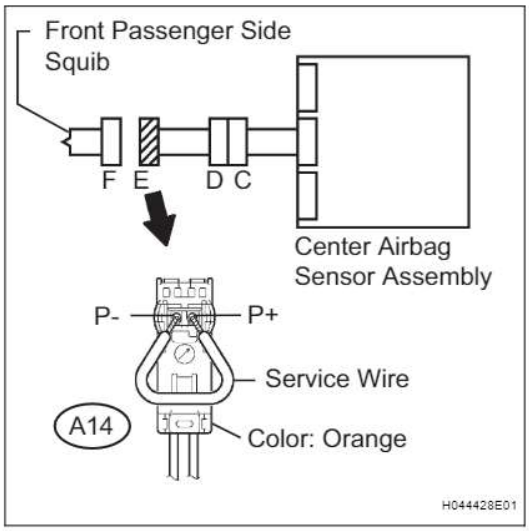



(a) Restore the released activation prevention mechanism of connector "B" to the original condition.
(b) Connect the connectors to the center airbag sensor.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page RS-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC B1805 is not output.**
HINT:
Codes other than code B1805 may be output at this time, but they are not related to this check.

OK → **Go to step 12**

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

## 11 CHECK CENTER AIRBAG SENSOR ASSEMBLY



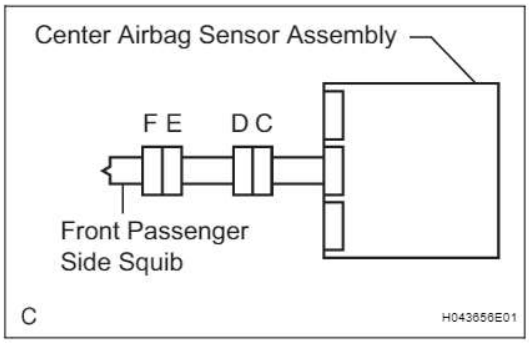

(a) Connect the connectors to the center airbag sensor.
(b) Using a service wire, connect A14-2 (P+) and A14-1 (P-) of connector "E".
**NOTICE:**
- **Twist the end of the service wire in order to insert it into the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch on the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page RS-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC B1806, B1807 or B1808 is not output.**
HINT:
Codes other than code B1806, B1807 or B1808 may be output at this time, but they are not related to this check.
(i) Before proceeding to the next step, perform the following procedures.
(1) Disconnect the service wire from connector "E".

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

## 12 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) Connect the connector to the front passenger airbag.
(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-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC B1805, B1806, B1807 or B1808 is not output.**

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

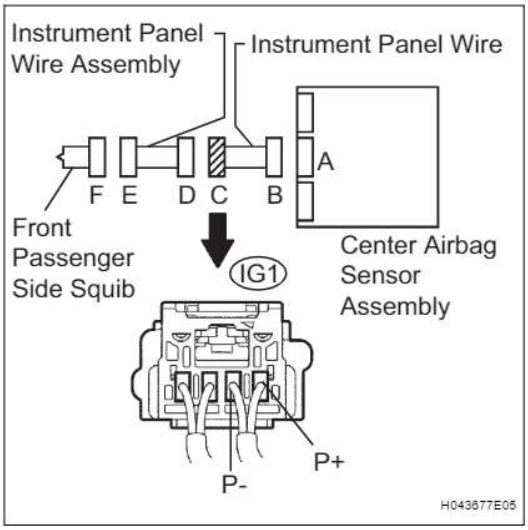
NG → REPLACE FRONT PASSENGER AIRBAG ASSEMBLY

RS

OK

**PERFORM SYMPTOM SIMULATION**

## 13 CHECK INSTRUMENT PANEL WIRE (SHORT)



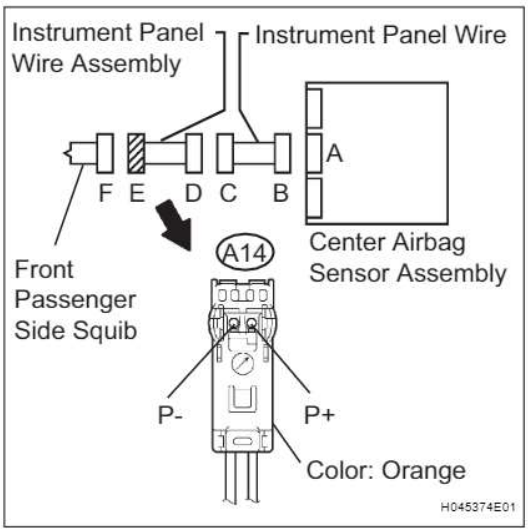

(a) Disconnect the instrument panel wire connector from the instrument panel wire assembly.
HINT:
The activation prevention mechanism of connector "B" has already been released.
(b) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| IG1-1 (P+) - IG1-2 (P-) | 1 MΩ or higher |

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

## 14 CHECK INSTRUMENT PANEL WIRE ASSEMBLY (SHORT)




(a) Release the activation prevention mechanism built into connector "D" (see page RS-11).
(b) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A14-2 (P+) - A14-1 (P-) | 1 MΩ or higher |

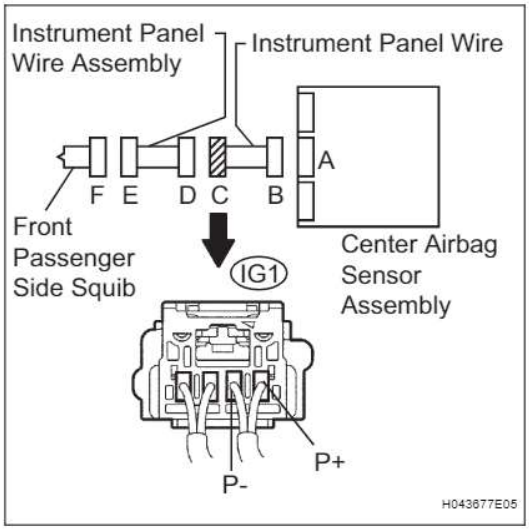
NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE ASSEMBLY

OK

**PERFORM SYMPTOM SIMULATION**

RS

## 15 CHECK INSTRUMENT PANEL WIRE (OPEN)



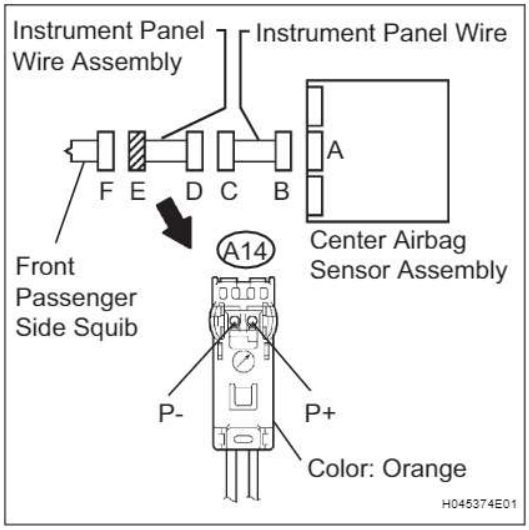

(a) Disconnect the instrument panel wire connector from the instrument panel wire assembly.
(b) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| IG1-1 (P+) - IG1-2 (P-) | Below 1 Ω |

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

OK

## 16 CHECK INSTRUMENT PANEL WIRE ASSEMBLY (OPEN)




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

| Tester Connection | Specified Condition |
|---|---|
| A14-2 (P+) - A14-1 (P-) | Below 1 Ω |

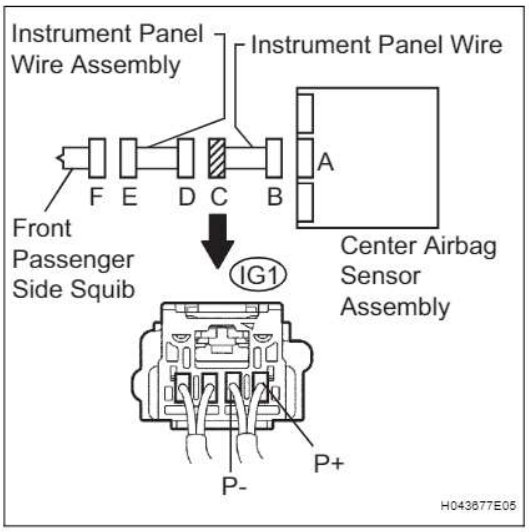
NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK

**PERFORM SYMPTOM SIMULATION**

RS

| 17 | CHECK INSTRUMENT PANEL WIRE (TO GROUND) |
|---|---|




(a) Disconnect the instrument panel wire connector from the instrument panel wire assembly.

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

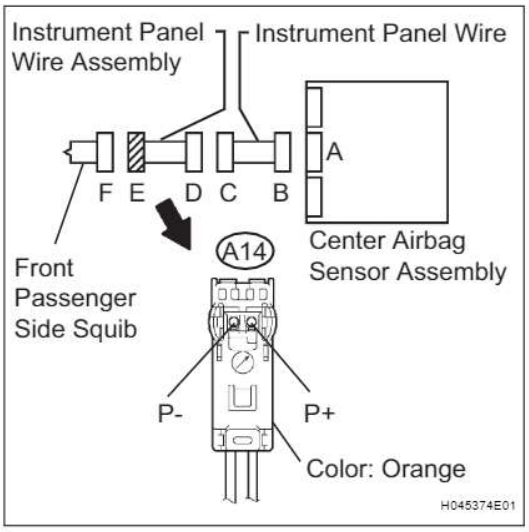
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| IG1-1 (P+) - Body ground | 1 MΩ or higher |
| IG1-2 (P-) - Body ground | 1 MΩ or higher |

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

OK

| 18 | CHECK INSTRUMENT PANEL WIRE ASSEMBLY (TO GROUND) |
|---|---|




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

**Standard resistance**

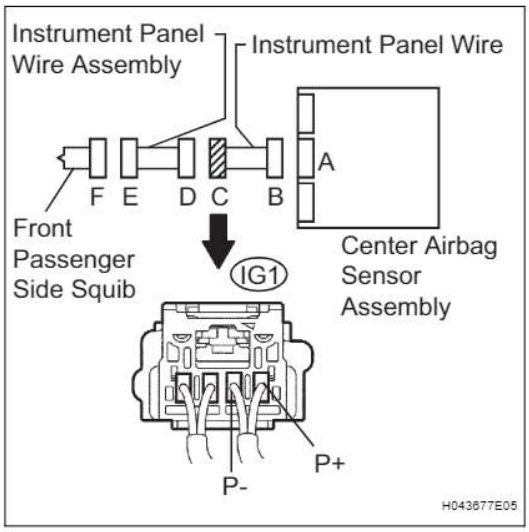
| Tester Connection | Specified Condition |
|---|---|
| A14-2 (P+) - Body ground | 1 MΩ or higher |
| A14-1 (P-) - Body ground | 1 MΩ or higher |

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

OK

**PERFORM SYMPTOM SIMULATION**

## 19 CHECK INSTRUMENT PANEL WIRE (TO B+)




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

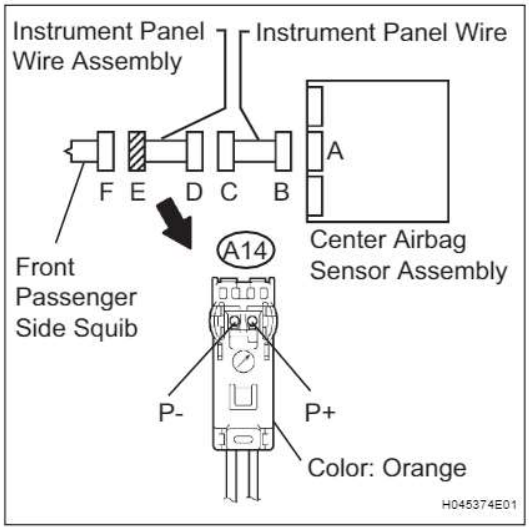
**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| IG1-1 (P+) - Body ground | Below 1 V |
| IG1-2 (P-) - Body ground | Below 1 V |

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

OK

## 20 CHECK INSTRUMENT PANEL WIRE ASSEMBLY (TO B+)




(a) Measure the voltage according to the value(s) in the table below when the ignition switch is in the ON position.

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| A14-2 (P+) - Body ground | Below 1 V |
| A14-1 (P-) - Body ground | Below 1 V |

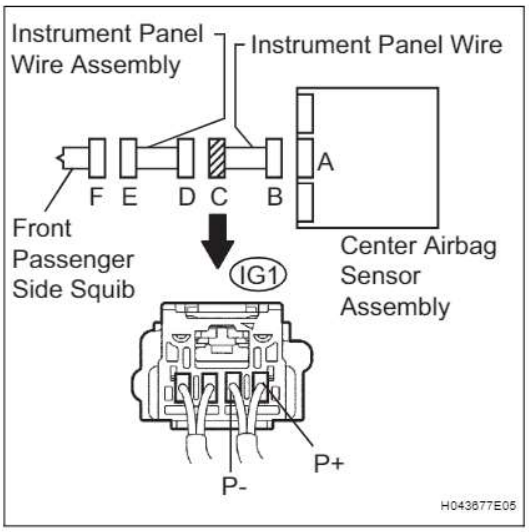
NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK

**PERFORM SYMPTOM SIMULATION**

RS

| 21 | CHECK INSTRUMENT PANEL WIRE |
|---|---|




(a) Restore the released activation prevention mechanism of connector "B" to the original condition.
(b) Disconnect the instrument panel wire connector from the instrument panel wire 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) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| IG1-1 (P+) - Body ground | Below 1 V |
| IG1-2 (P-) - Body ground | Below 1 V |

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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| IG1-1 (P+) - IG1-2 (P-) | Below 1 Ω |
| IG1-1 (P+) - Body ground | 1 MΩ or higher |
| IG1-2 (P-) - Body ground | 1 MΩ or higher |

(i) Release the activation prevention mechanism built into connector "B" (see page RS-11).
(j) Measure the resistance according to the value(s) in the table below.

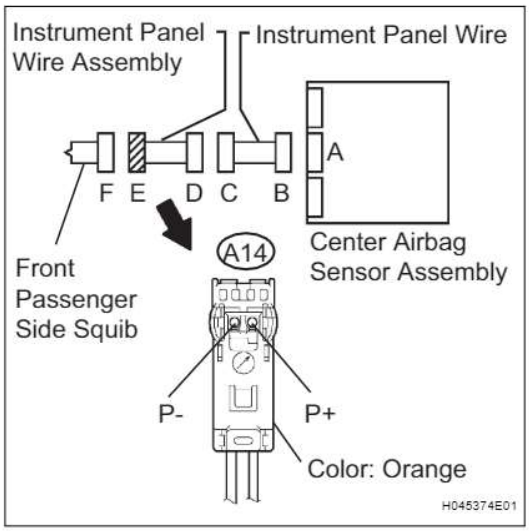
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| IG1-1 (P+) - IG1-2 (P-) | 1 MΩ or higher |

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

OK

## 22 CHECK INSTRUMENT PANEL WIRE 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.
(c) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| A14-2 (P+) - Body ground | Below 1 V |
| A14-1 (P-) - Body ground | Below 1 V |

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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A14-2 (P+) - A14-1 (P-) | Below 1 Ω |
| A14-2 (P+) - Body ground | 1 MΩor higher |
| A14-1 (P-) - Body ground | 1 MΩor higher |

(g) Release the activation prevention mechanism built into connector "D" (see page RS-11).
(h) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A14-2 (P+) - A14-1 (P-) | 1 MΩor higher |

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

OK

**PERFORM SYMPTOM SIMULATION**

| | | |
|---|---|---|
| DTC | B1810/53 | Short in Driver Side Squib 2nd Step Circuit |
| DTC | B1811/53 | Open in Driver Side Squib 2nd Step Circuit |
| DTC | B1812/53 | Short to GND in Driver Side Squib 2nd Step Circuit |
| DTC | B1813/53 | Short to B+ in Driver Side Squib 2nd Step Circuit |

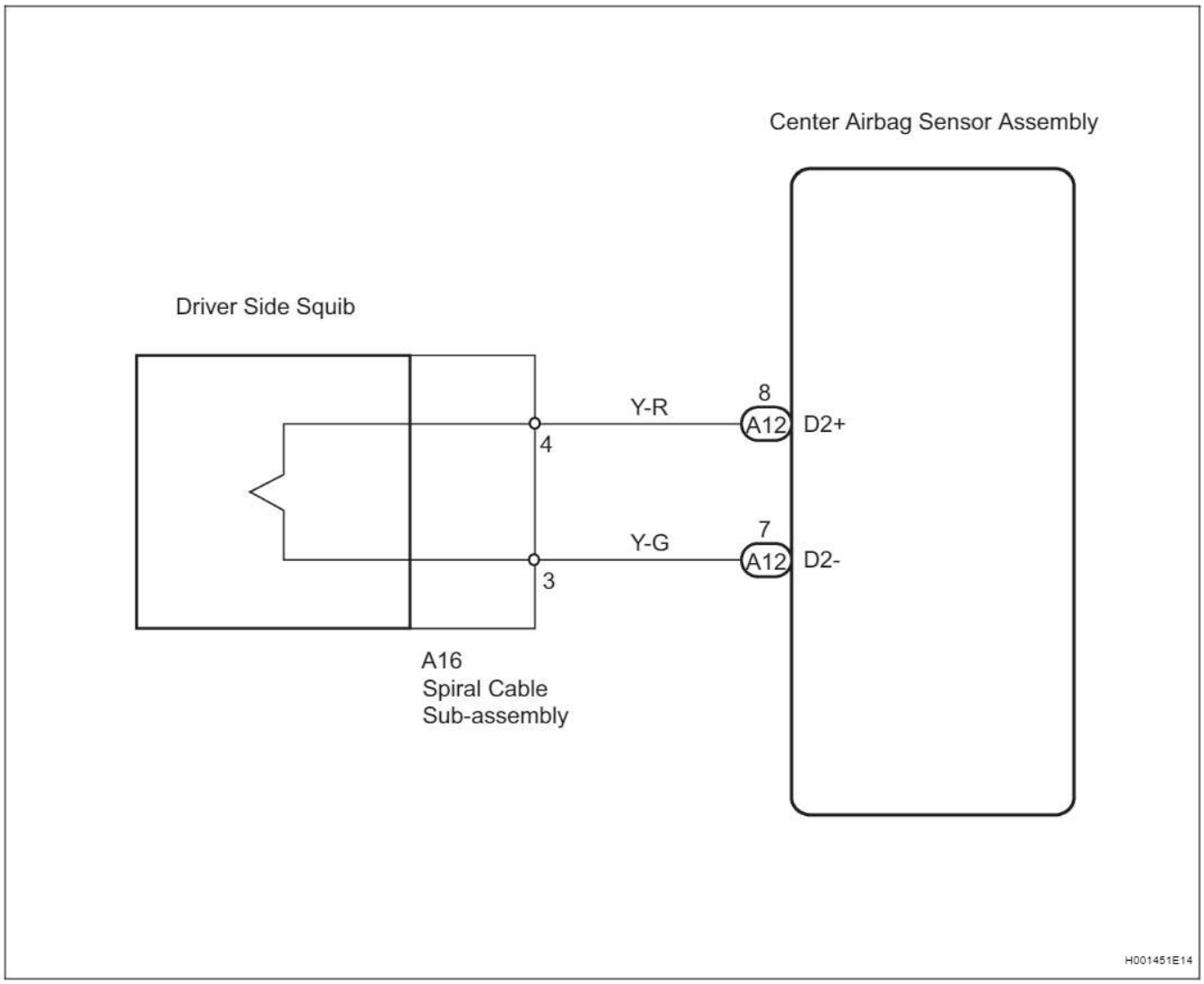
RS

## DESCRIPTION

The driver side squib (dual stage - 2nd step) circuit consists of the center airbag sensor, the spiral cable and the horn button.
The circuit instructs the SRS to deploy when deployment conditions are met.
These DTCs are recorded when a malfunction is detected in the driver side squib (dual stage - 2nd step) circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1810/53 | • The center airbag sensor assembly receives a line short circuit signal 5 times in the driver side squib (dual stage - 2nd step) circuit during primary check. | • Horn button assembly (driver side squib, dual stage - 2nd step)<br>• Spiral cable sub-assembly<br>• Center airbag sensor assembly<br>• Instrument panel wire |
| B1811/53 | • The center airbag sensor assembly receives an open circuit signal in the driver side squib (dual stage - 2nd step) circuit for 2 seconds. | • Horn button assembly (driver side squib, dual stage - 2nd step)<br>• Spiral cable sub-assembly<br>• Center airbag sensor assembly<br>• Instrument panel wire |
| B1812/53 | • The center airbag sensor assembly receives a short circuit to ground signal in the driver side squib (dual stage - 2nd step) circuit for 0.5 seconds. | • Horn button assembly (driver side squib, dual stage - 2nd step)<br>• Spiral cable sub-assembly<br>• Center airbag sensor assembly<br>• Instrument panel wire |
| B1813/53 | • The center airbag sensor assembly receives a B+ short circuit signal in the driver side squib (dual stage - 2nd step) circuit for 0.5 seconds. | • Horn button assembly (driver side squib, dual stage - 2nd step)<br>• Spiral cable sub-assembly<br>• Center airbag sensor assembly<br>• Instrument panel wire |

## WIRING DIAGRAM




## INSPECTION PROCEDURE

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

(a) Proceed to each step according to DTC readings.
(1) If using the intelligent tester (read the 5-digit of DTC):
Using the intelligent tester, check for DTCs (see page RS-18).
**Result**

| Result | Proceed to |
|---|---|
| DTC B1810 is output. | A |
| DTC B1811 is output. | B |
| DTC B1812 is output. | C |
| DTC B1813 is output. | D |

(2) If not using the intelligent tester (read the 2-digit of DTC):

Check for DTCs (see page RS-18).

**Result**

| Result | Proceed to |
|---|---|
| DTC 53 is output. | E |

| | |
|---|---|
| B | Go to step 4 |
| C | Go to step 5 |
| D | Go to step 6 |
| E | Go to step 7 |

A

## 2 CHECK CONNECTOR

(a) Check that the instrument panel wire connectors (on the front passenger airbag side) are not damaged.

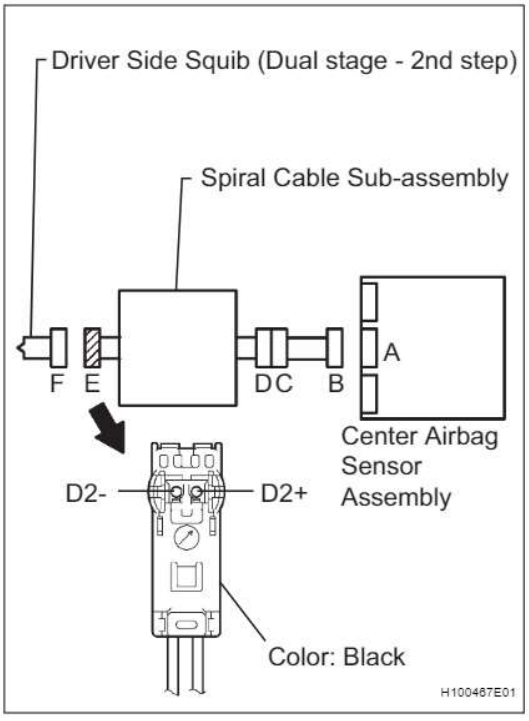
**OK:**

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

| | |
|---|---|
| NG | REPLACE SPIRAL CABLE SUB-ASSEMBLY |

OK

## 3 CHECK DRIVER SIDE SQUIB (DUAL STAGE - 2ND STEP) CIRCUIT (SHORT)



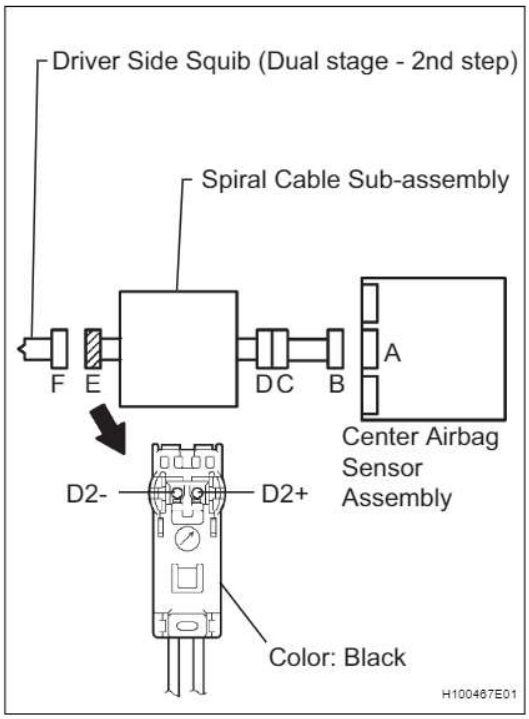

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor.
(d) Disconnect the connectors from the horn button.
(e) Release the activation prevention mechanism built into connector "B" (see page RS-11).
(f) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

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

| | |
|---|---|
| OK | Go to step 10 |
| NG | Go to step 13 |

## 4 CHECK DRIVER SIDE SQUIB (DUAL STAGE - 2ND STEP) CIRCUIT (OPEN)



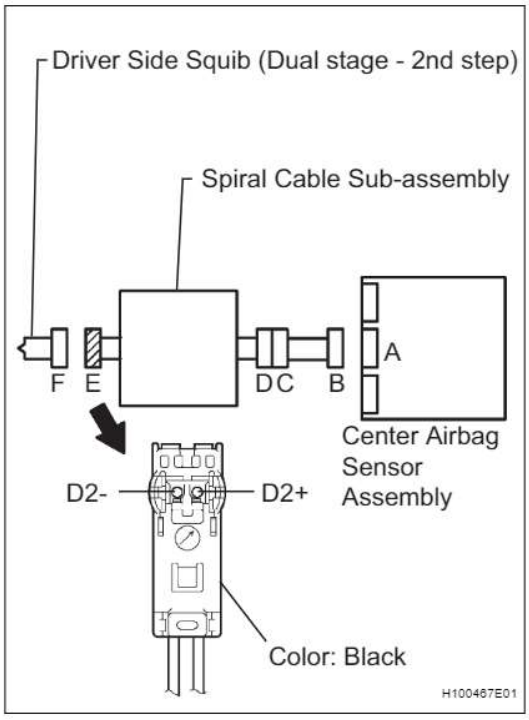

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor.
(d) Disconnect the connectors from the horn button.
(e) Measure the resistance according to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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| D2+ - D2- | Below 1 Ω |

| | |
|---|---|
| OK | Go to step 11 |
| NG | Go to step 15 |

## 5 CHECK DRIVER SIDE SQUIB (DUAL STAGE - 2ND STEP) CIRCUIT (TO GROUND)




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

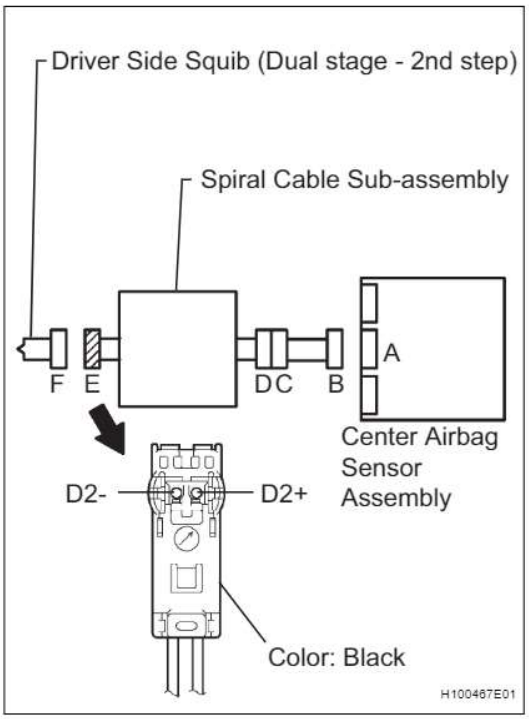
**Standard resistance**

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

| | |
|---|---|
| OK | Go to step 11 |
| NG | Go to step 17 |

RS

## 6 CHECK DRIVER SIDE SQUIB (DUAL STAGE - 2ND STEP) CIRCUIT (TO BE+)




(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.
(d) Disconnect the connectors from the horn button.
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position.
(g) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

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

(h) Before proceeding to the next step, perform the following procedures.
(1) Turn the ignition switch to the LOCK position.
(2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

OK → **Go to step 11**

NG → **Go to step 19**

## 7 CHECK CONNECTOR

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the spiral cable connectors (on the horn button side) are not damaged.

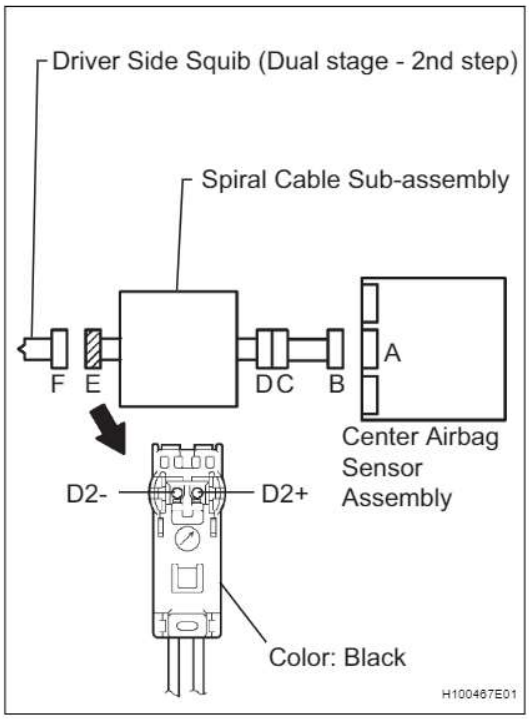
**OK:**

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

NG → **REPLACE SPIRAL CABLE SUB-ASSEMBLY**

OK

## 8 CHECK DRIVER SIDE SQUIB (DUAL STAGE - 2ND STEP) CIRCUIT




(a) Disconnect the connectors from the center airbag sensor.
(b) Disconnect the connectors from the horn button.
(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) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

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

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

**Standard resistance**

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

(i) Release the activation prevention mechanism built into connector "B" (see page RS-11).
(j) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

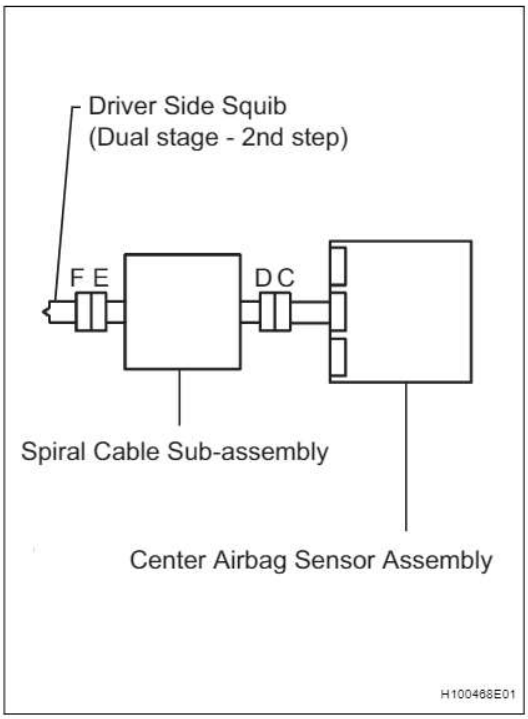
| Tester Connection | Specified Condition |
|---|---|
| D2+ - D2- | 1 MΩ or higher |

NG → Go to step 21

OK

RS

| 9 | REPLACE HORN BUTTON ASSEMBLY (DRIVER SIDE SQUIB, DUAL STAGE - 2ND STEP) |
|---|---|



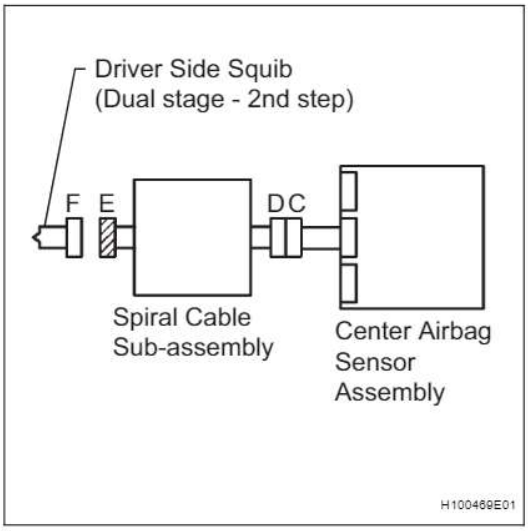

(a) Replace the horn button and connect the connectors (see page RS-11).
HINT:
Perform the inspection using parts from a normal vehicle if possible.
(b) Connect the connectors to the center airbag sensor.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) 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-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC 53 is not output.**
HINT:
Codes other than code 53 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

**END**

| 10 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|

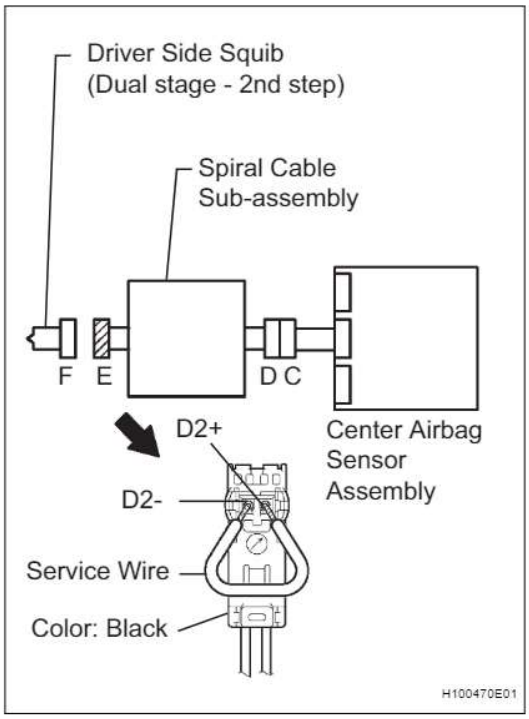



(a) Restore the released activation prevention mechanism of connector "B" to the original condition.
(b) Connect the connectors to the center airbag sensor.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page RS-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC B1810 is not output.**
HINT:
Codes other than code B1810 may be output at this time, but they are not related to this check.

OK → **Go to step 12**

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

**11 CHECK CENTER AIRBAG SENSOR ASSEMBLY**




(a) Connect the connectors to the center airbag sensor.
(b) Using a service wire, connect D2+ and D2- of connector "E".
**NOTICE:**
- **Twist the end of the service wire in order to insert it into the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

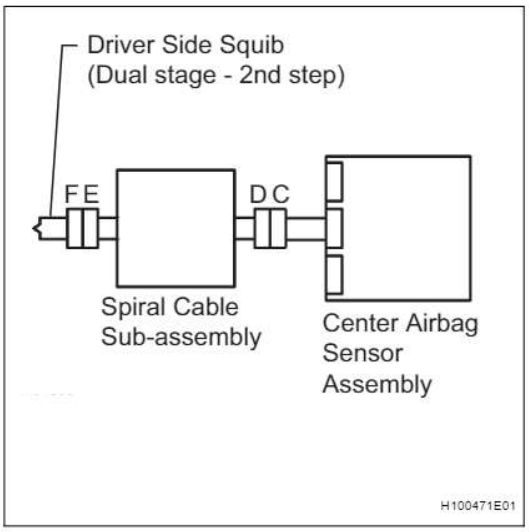
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch on the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page RS-18).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(h) Check for DTCs (see page RS-18).
**OK:**
**DTC B1811, B1812 or B1813 is not output.**
HINT:
Codes other than code B1811, B1812 or B1813 may be output at this time, but they are not related to this check.
(i) Before proceeding to the next step, perform the following procedures.
(1) Disconnect the service wire from connector "E".

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

RS

## 12 CHECK HORN BUTTON ASSEMBLY (DRIVER SIDE SQUIB, DUAL STAGE - 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) Connect the connectors to the horn button.
(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-18).
(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 for DTCs (see page RS-18).

**OK:**

**DTC B1810, B1811, B1812 or B1813 is not output.**

HINT:

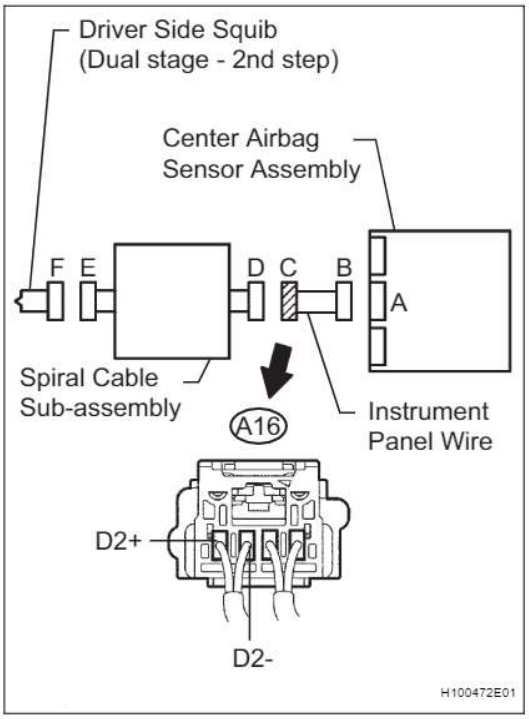
Codes other than code B1810, B1811, B1812 or B1813 may be output at this time, but they are not related to this check.

NG → **REPLACE HORN BUTTON ASSEMBLY**

OK

**PERFORM SYMPTOM SIMULATION**

## 13 CHECK INSTRUMENT PANEL WIRE (SHORT)




(a) Disconnect the instrument panel wire connector from the spiral cable.

HINT:

The activation prevention mechanism of connector "B" has already been released.

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

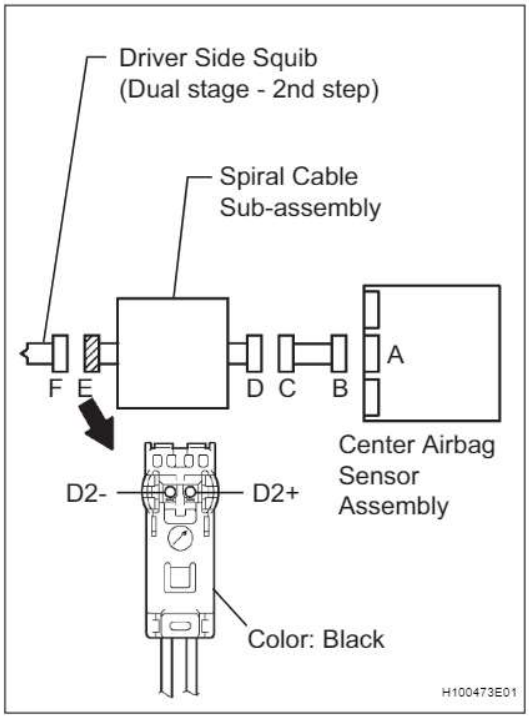
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A16-4 (D2+) - A16-3 (D2-) | 1 MΩ or higher |

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

OK

**14 CHECK SPIRAL CABLE SUB-ASSEMBLY (SHORT)**




(a) Release the activation prevention mechanism built into connector "D" (see page RS-11).

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

**Standard resistance**

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

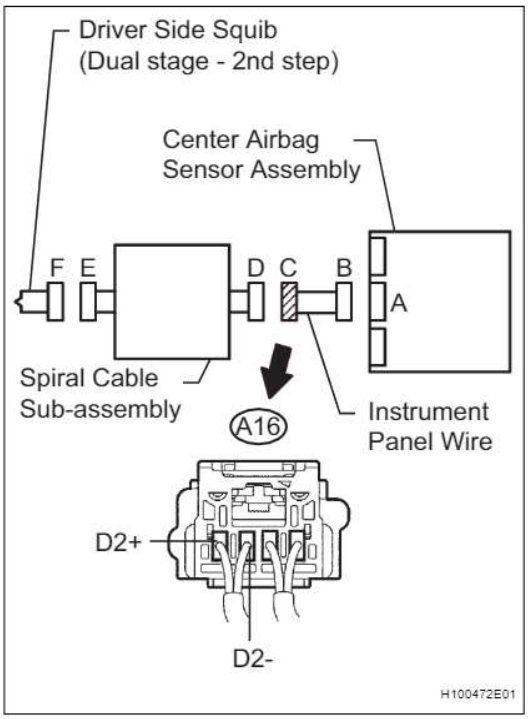
NG → **REPLACE SPIRAL CABLE SUB-ASSEMBLY**

OK

**PERFORM SYMPTOM SIMULATION**

RS

## 15 CHECK INSTRUMENT PANEL WIRE (OPEN)




(a) Disconnect the instrument panel wire connector from the spiral cable.

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

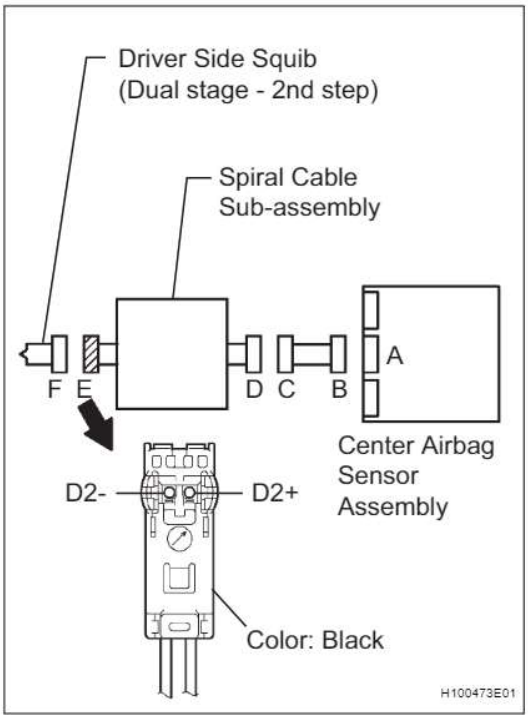
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A16-4 (D2+) - A16-3 (D2-) | Below 1 Ω |

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

OK

## 16 CHECK SPIRAL CABLE SUB-ASSEMBLY (OPEN)




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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| D2+ - D2- | Below 1 Ω |

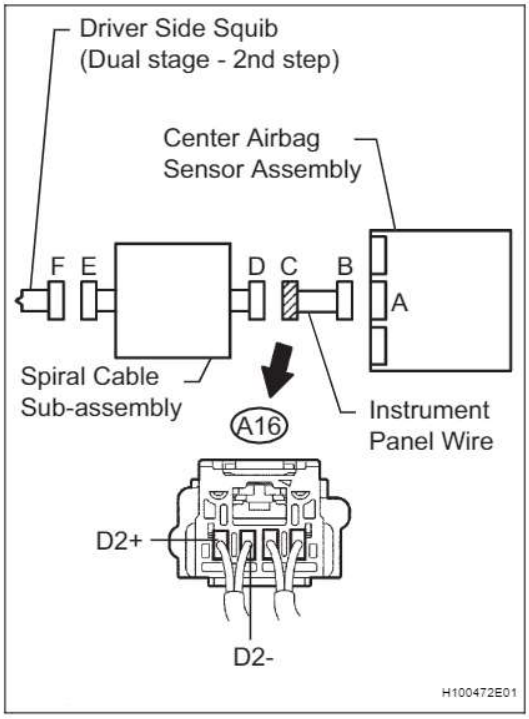
NG → **REPLACE SPIRAL CABLE SUB-ASSEMBLY**

OK

**PERFORM SYMPTOM SIMULATION**

RS

**17 CHECK INSTRUMENT PANEL WIRE (TO GROUND)**




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

**Standard resistance**

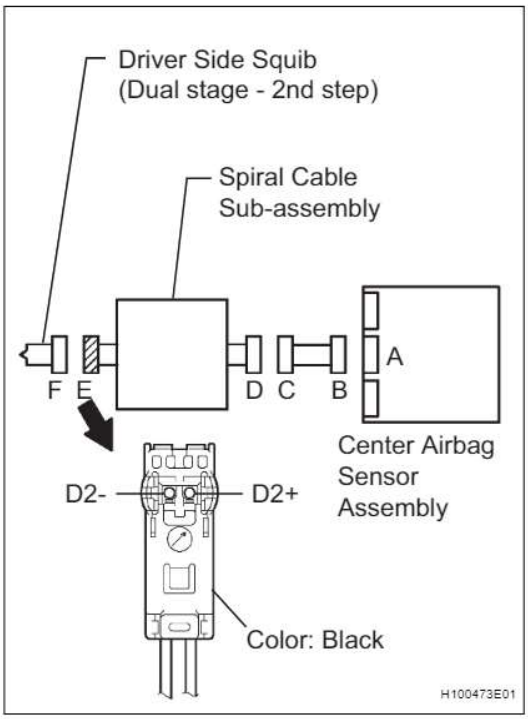
| Tester Connection | Specified Condition |
|---|---|
| A16-4 (D2+) - Body ground | 1 MΩ or higher |
| A16-3 (D2-) - Body ground | 1 MΩ or higher |

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

OK

RS

| 18 | CHECK SPIRAL CABLE SUB-ASSEMBLY (TO GROUND) |
|---|---|




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

**Standard resistance**

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

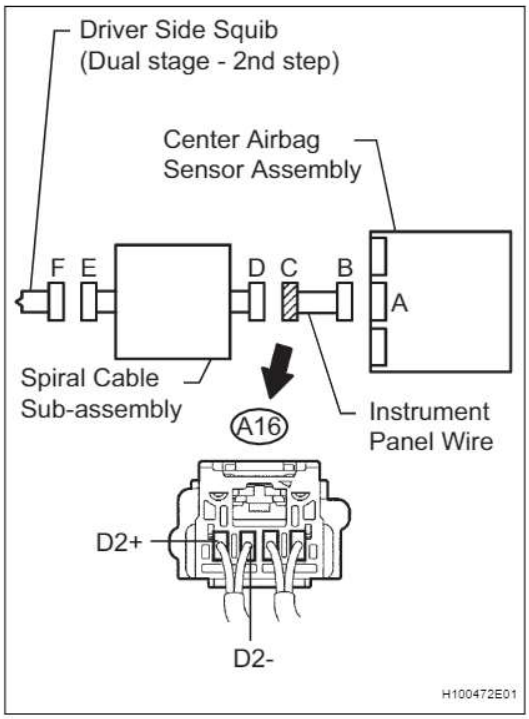
NG → REPLACE SPIRAL CABLE SUB-ASSEMBLY

OK

| PERFORM SYMPTOM SIMULATION |
|---|

RS

## 19 CHECK INSTRUMENT PANEL WIRE (TO B+)




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

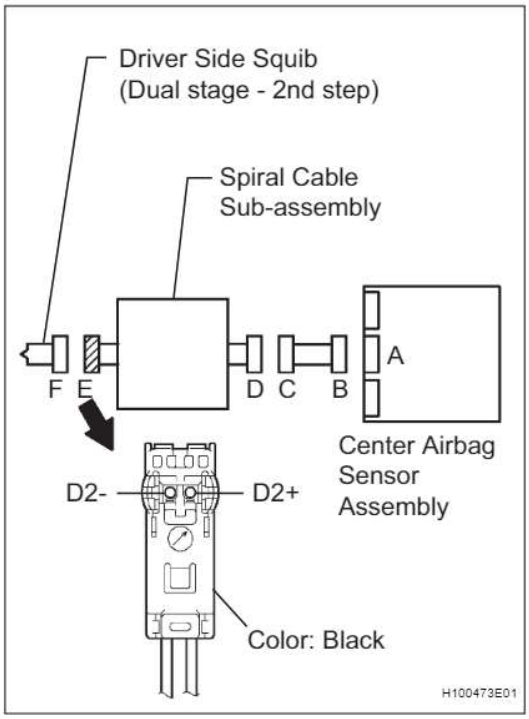
**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| A16-4 (D2+) - Body ground | Below 1 V |
| A16-3 (D2-) - Body ground | Below 1 V |

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

OK

## 20 CHECK SPIRAL CABLE SUB-ASSEMBLY (TO B+)




(a) Measure the voltage according to the value(s) in the table below when the ignition switch is in the ON position.

**Standard voltage**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| D2+ - Body ground | Ignition switch ON | Below 1 V |
| D2- - Body ground | Ignition switch ON | Below 1 V |

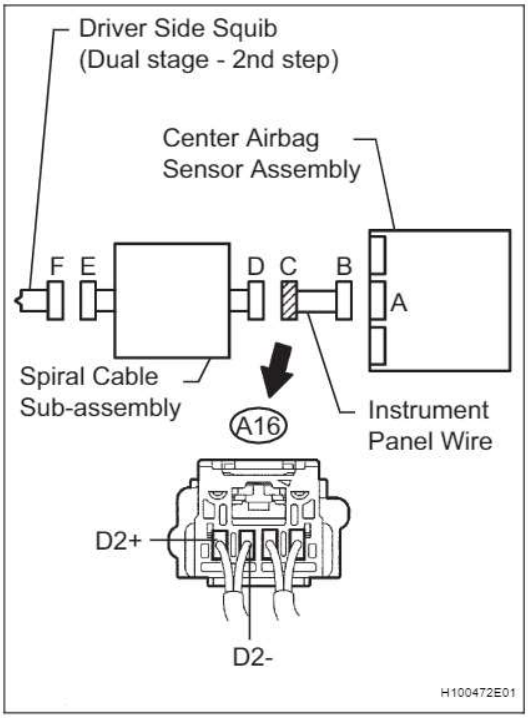
NG → **REPLACE SPIRAL CABLE SUB-ASSEMBLY**

OK

**PERFORM SYMPTOM SIMULATION**

RS

**21 CHECK INSTRUMENT PANEL WIRE**




(a) Restore the released activation prevention mechanism of connector "B" to the original condition.
(b) Disconnect the instrument panel wire connector from the spiral cable.
(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) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| A16-4 (D2+) - Body ground | Below 1 V |
| A16-3 (D2-) - Body ground | Below 1 V |

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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A16-4 (D2+) - A16-3 (D2-) | Below 1 Ω |
| A16-4 (D2+) - Body ground | 1 MΩ or higher |
| A16-3 (D2-) - Body ground | 1 MΩ or higher |

(i) Release the activation prevention mechanism built into connector "B" (see page RS-11).
(j) Measure the resistance according to the value(s) in the table below.

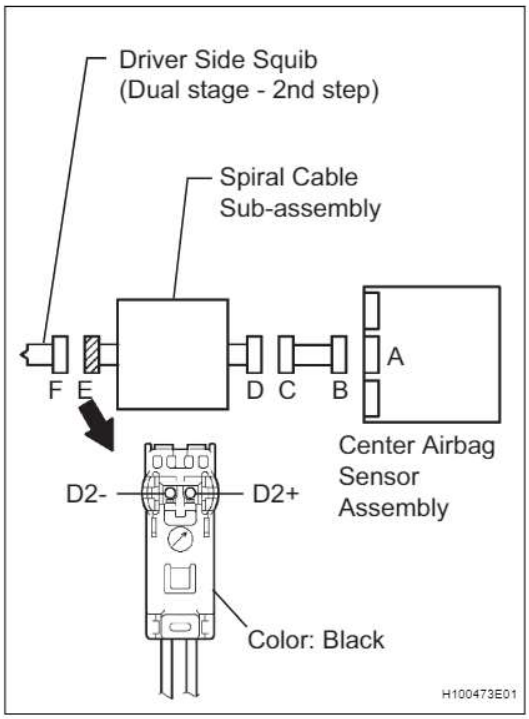
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A16-4 (D2+) - A16-3 (D2-) | 1 MΩ or higher |

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

OK

## 22 CHECK SPIRAL CABLE SUB-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.
(c) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

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

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

**Standard resistance**

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

(g) Release the activation prevention mechanism built into connector "D" (see page RS-11).
(h) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

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

NG → REPLACE SPIRAL CABLE SUB-ASSEMBLY

OK

## PERFORM SYMPTOM SIMULATION

| | | |
|---|---|---|
| DTC | B1830/57 | Short in Driver Side Curtain Shield Squib Circuit |
| DTC | B1831/57 | Open in Driver Side Curtain Shield Squib Circuit |
| DTC | B1832/57 | Short to GND in Driver Side Curtain Shield Squib Circuit |
| DTC | B1833/57 | Short to B+ in Driver Side Curtain Shield Squib Circuit |



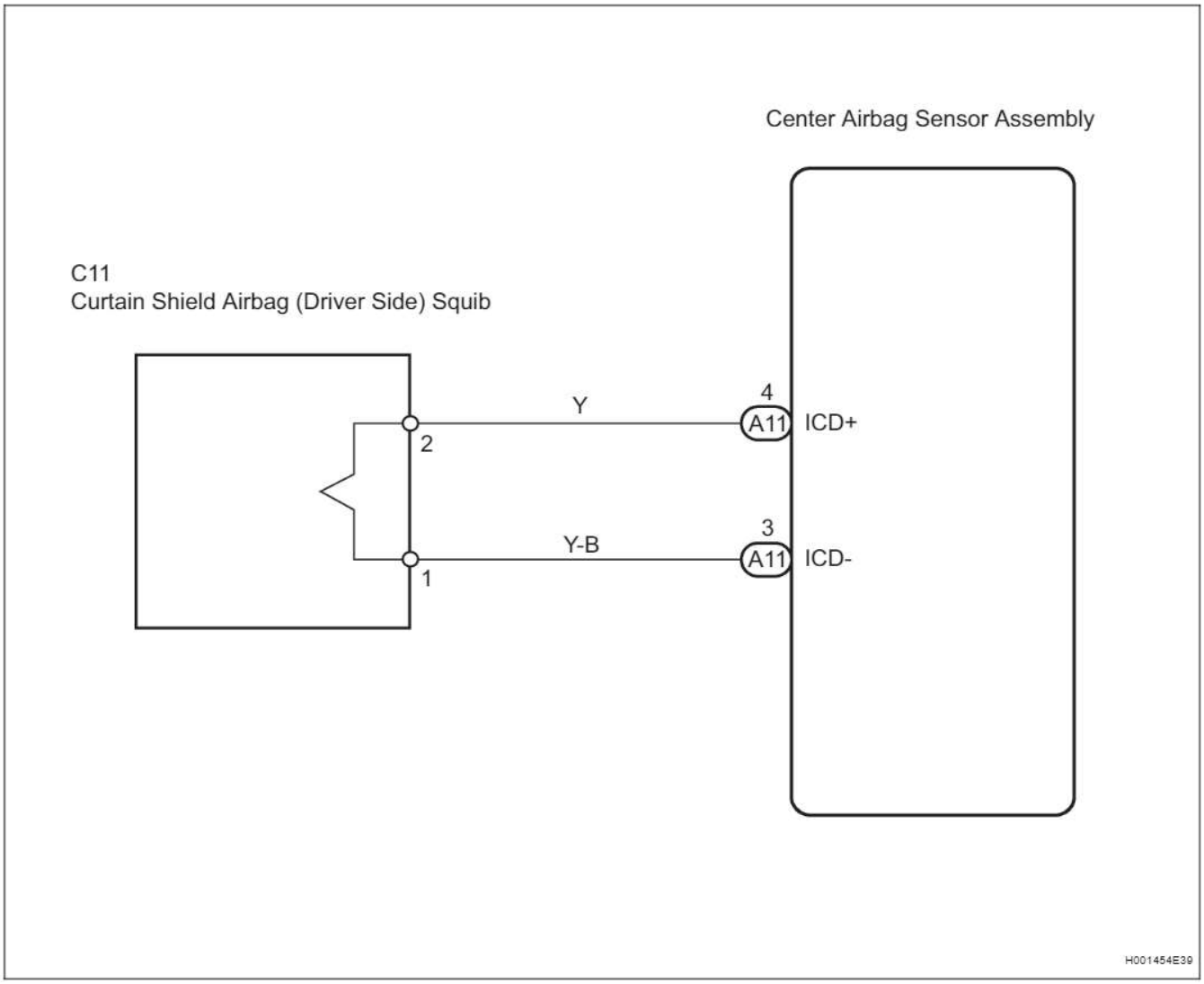
## DESCRIPTION

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

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

RS

## WIRING DIAGRAM




## INSPECTION PROCEDURE

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

(a) Proceed to each step according to DTC readings.
(1) If using the intelligent tester (read the 5-digit of DTC):
Using the intelligent tester, check for DTCs (see page RS-18).
**Result**

| Result | Proceed to |
|---|---|
| DTC B1830 is output. | A |
| DTC B1831 is output. | B |
| DTC B1832 is output. | C |
| DTC B1833 is output. | D |

(2) If not using the intelligent tester (read the 2-digit of DTC):

Check for DTCs (see page RS-18).

**Result**

| Result | Proceed to |
|---|---|
| DTC 57 is output. | E |

| | |
|---|---|
| B | Go to step 4 |
| C | Go to step 5 |
| D | Go to step 6 |
| E | Go to step 7 |

RS

A

## 2 CHECK CONNECTOR

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

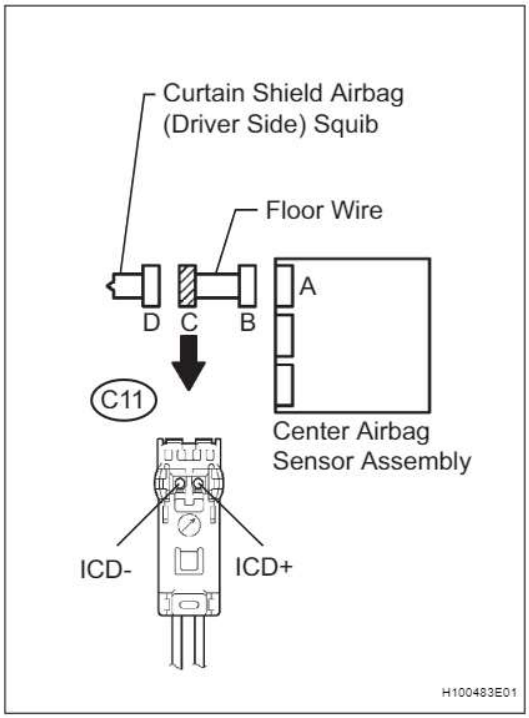
**OK:**

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

| | |
|---|---|
| NG | REPAIR OR REPLACE FLOOR WIRE |

OK

## 3 CHECK FLOOR WIRE (SHORT)




(a) Disconnect the connectors from the center airbag sensor.
(b) Disconnect the connector from the curtain shield airbag LH (driver side squib).
(c) Release the activation prevention mechanism built into connector "B" (see page RS-11).
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| C11-2 (ICD+) - C11-1 (ICD-) | 1 MΩ or higher |

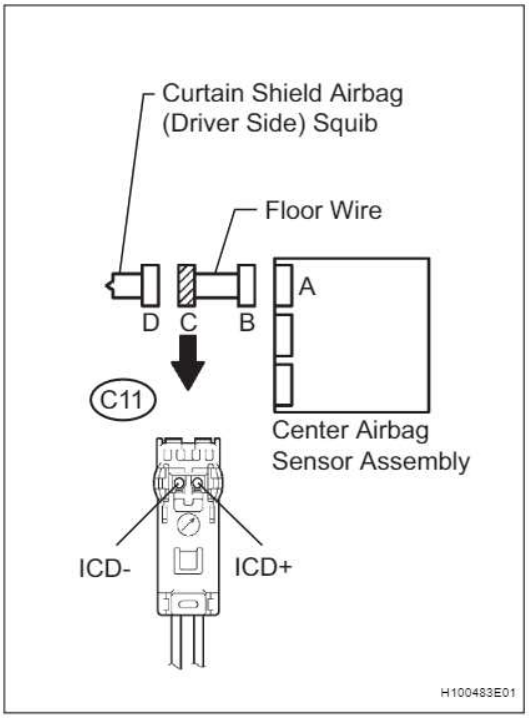
| | |
|---|---|
| OK | Go to step 10 |

NG

REPAIR OR REPLACE FLOOR WIRE

RS

| 4 | CHECK FLOOR WIRE (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) Disconnect the connectors from the center airbag sensor.
(d) Disconnect the connector from the curtain shield airbag LH (driver side squib).
(e) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| C11-2 (ICD+) - C11-1 (ICD-) | Below 1 Ω |

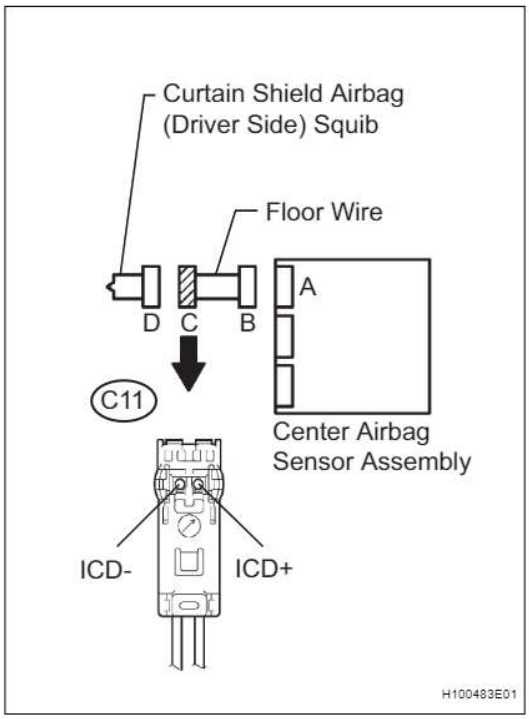
OK → Go to step 11

NG

REPAIR OR REPLACE FLOOR WIRE

RS

**5 CHECK FLOOR WIRE (TO GROUND)**




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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| C11-2 (ICD+) - Body ground | 1 MΩ or higher |
| C11-1 (ICD-) - Body ground | 1 MΩ or higher |

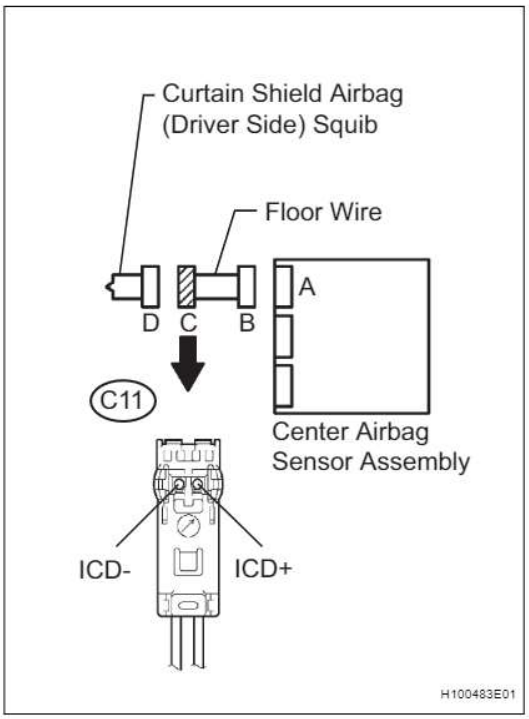
OK → Go to step 11

NG

**REPAIR OR REPLACE FLOOR WIRE**

RS

| 6 | CHECK FLOOR WIRE (TO B+) |
|---|---|




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

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| C11-2 (ICD+) - Body ground | Below 1 V |
| C11-1 (ICD-) - Body ground | Below 1 V |

(h) Before proceeding to the next step, perform the following procedures.
(1) Turn the ignition switch to the LOCK position.
(2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

OK → Go to step 11

NG

REPAIR OR REPLACE FLOOR WIRE

| 7 | CHECK CONNECTOR |
|---|---|

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

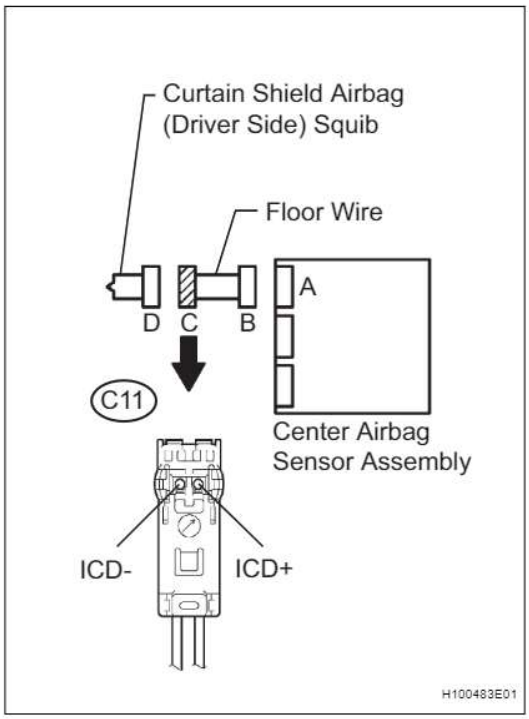
**OK:**

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

NG → REPAIR OR REPLACE FLOOR WIRE

OK

## 8 CHECK FLOOR WIRE (CURTAIN SHIELD AIRBAG (DRIVER SIDE) SQUIB CIRCUIT)




(a) Disconnect the connectors from the center airbag sensor.
(b) Disconnect the connector from the curtain shield airbag LH (driver side squib).
(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) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| C11-2 (ICD+) - Body ground | Below 1 V |
| C11-1 (ICD-) - Body ground | Below 1 V |

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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| C11-2 (ICD+) - C11-1 (ICD-) | Below 1 Ω |
| C11-2 (ICD+) - Body ground | 1 MΩ or higher |
| C11-1 (ICD-) - Body ground | 1 MΩ or higher |

(i) Release the activation prevention mechanism built into connector "B" (see page RS-11).
(j) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

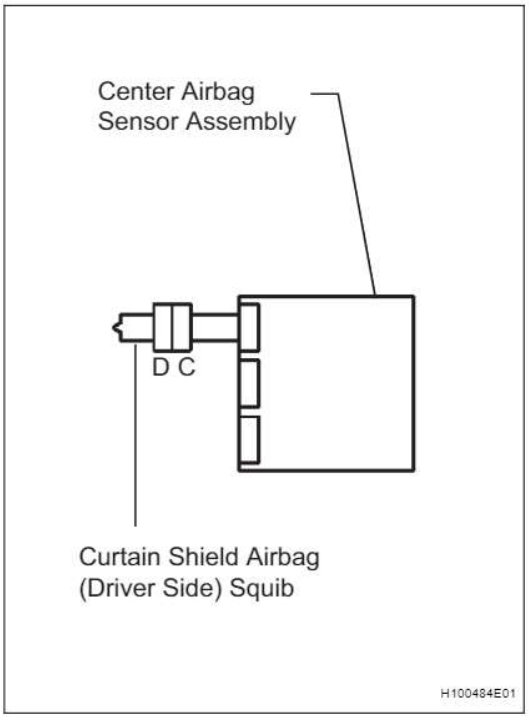
| Tester Connection | Specified Condition |
|---|---|
| C11-2 (ICD+) - C11-1 (ICD-) | 1 MΩ or higher |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

| 9 | REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY LH (CURTAIN SHIELD AIRBAG (DRIVER SIDE) SQUIB) |
|---|---|



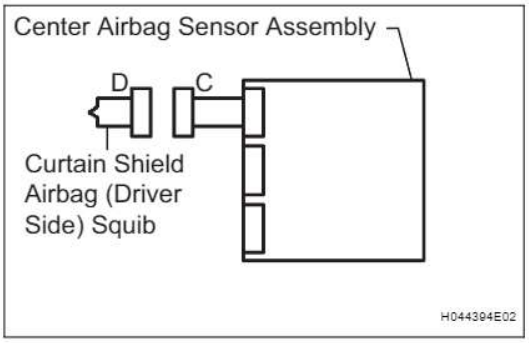

(a) Replace the curtain shield airbag LH and connect the connector.
HINT:
Perform the inspection using parts from a normal vehicle if possible.
(b) Connect the connectors to the center airbag sensor.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page RS-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC 57 is not output.**
HINT:
Codes other than code 57 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

**END**

| 10 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Restore the released activation prevention mechanism of connector "B" to the original condition.
(b) Connect the connectors to the center airbag sensor.
(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-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC B1830 is not output.**
HINT:
Codes other than code B1830 may be output at this time, but they are not related to this check.

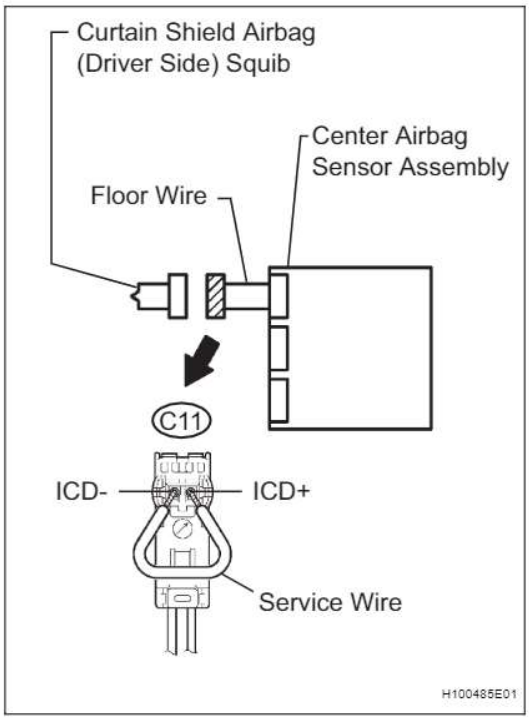
OK → Go to step 12

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

RS

| 11 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|

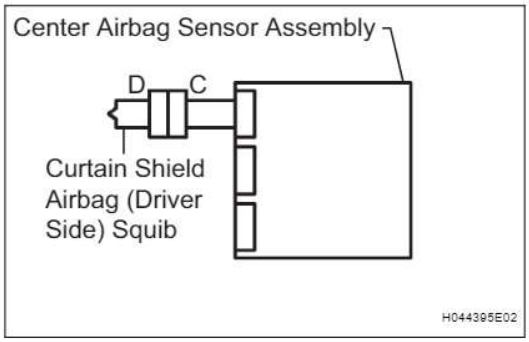



(a) Connect the connectors to the center airbag sensor.
(b) Using a service wire, connect C11-2 (ICD+) and C11-1 (ICD-) of connector "C".
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page RS-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC B1831, B1832 or B1833 is not output.**
HINT:
Codes other than code B1831, B1832 or B1833 may be output at this time, but they are not related to this check.
(i) Before proceeding to the next step, perform the following procedures.
(1) Disconnect the service wire from connector "C".

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

| 12 | CHECK CURTAIN SHIELD AIRBAG ASSEMBLY LH (CURTAIN SHIELD AIRBAG (DRIVER SIDE) SQUIB) |
|---|---|




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the curtain shield airbag LH.
(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-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC B1830, B1831, B1832 or B1833 is not output.**

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

NG → REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY LH

RS

OK

PERFORM SYMPTOM SIMULATION

| | | |
|---|---|---|
| DTC | B1860/64 | Short in Driver Side Knee Airbag Squib Circuit |
| DTC | B1861/64 | Open in Driver Side Knee Airbag Squib Circuit |
| DTC | B1862/64 | Short to GND in Driver Side Knee Airbag Squib Circuit |
| DTC | B1863/64 | Short to B+ in Driver Side Knee Airbag Squib Circuit |



## DESCRIPTION

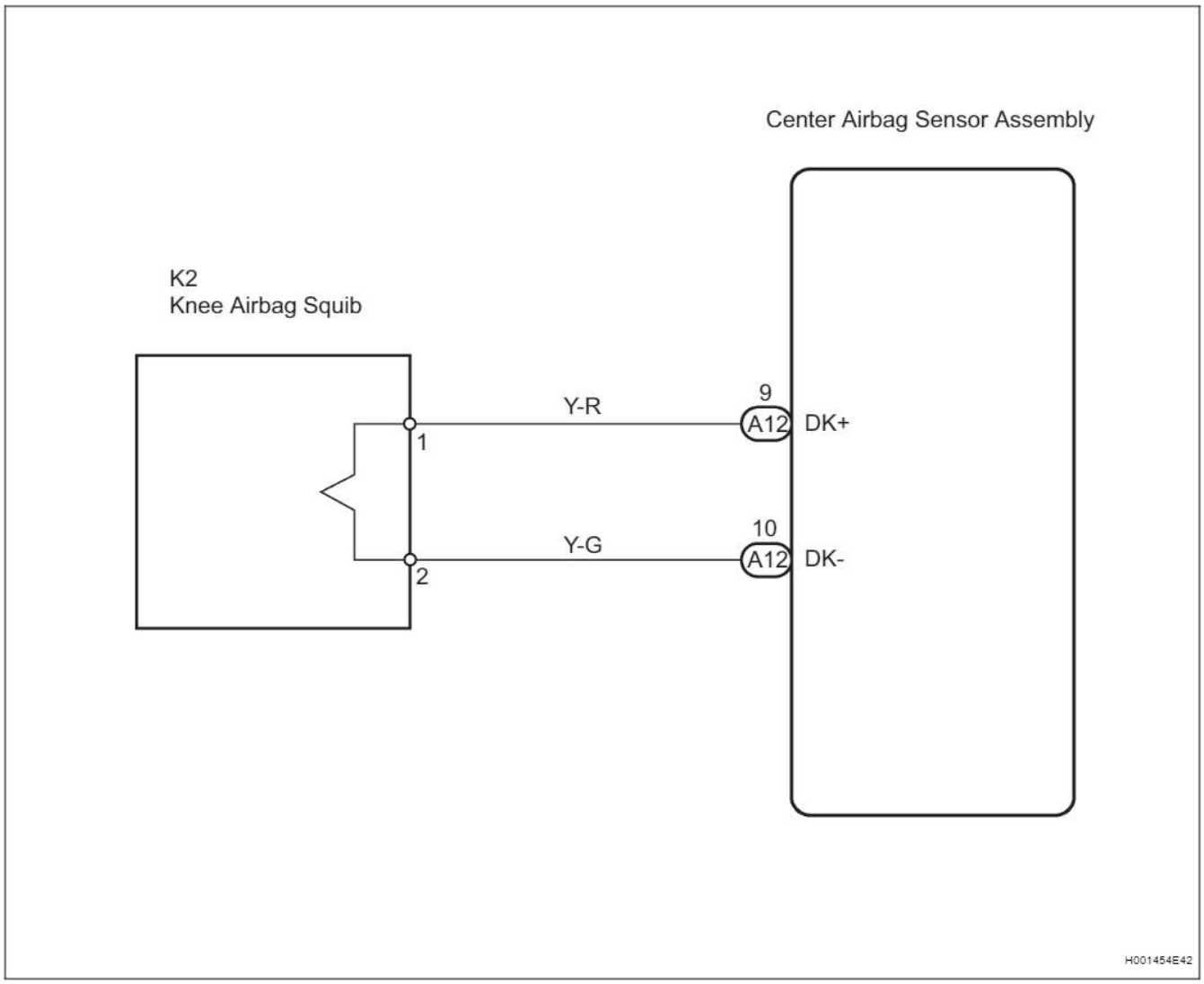
The knee airbag squib circuit consists of the center airbag sensor and the No. 1 instrument panel airbag lower.

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

DTC B1860 is recorded when a short circuit is detected in the knee airbag squib circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1860/64 | • The center airbag sensor assembly receives a line short signal 5 times in the knee airbag squib circuit during primary check.<br>• Knee airbag squib malfunction<br>• Center airbag sensor assembly malfunction | • Instrument panel wire<br>• No. 1 instrument panel airbag assembly lower (knee airbag squib)<br>• Center airbag sensor assembly |
| B1861/64 | • The center airbag sensor assembly receives an open signal in the knee airbag squib circuit for 2 seconds.<br>• Knee airbag squib malfunction<br>• Center airbag sensor assembly malfunction. | • Instrument panel wire<br>• No. 1 instrument panel airbag assembly lower (knee airbag squib)<br>• Center airbag sensor assembly |
| B1862/64 | • The center airbag sensor assembly receives a short to ground signal in the knee airbag squib circuit or 0.5 seconds.<br>• Knee airbag squib malfunction<br>• Center airbag sensor assembly malfunction. | • Instrument panel wire<br>• No. 1 instrument panel airbag assembly lower (knee airbag squib)<br>• Center airbag sensor assembly |
| B1863/64 | • The center airbag sensor assembly receives a B+ short signal in the knee airbag squib circuit for 0.5 seconds.<br>• Knee airbag squib malfunction<br>• Center airbag sensor assembly malfunction. | • Instrument panel wire<br>• No. 1 instrument panel airbag assembly lower (knee airbag squib)<br>• Center airbag sensor assembly |

## WIRING DIAGRAM




## INSPECTION PROCEDURE

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

(a) Proceed to each step according to DTC readings.
(1) If using the intelligent tester (read the 5-digit of DTC):
Using the intelligent tester, check for DTCs (see page RS-18).
**Result**

| Result | Proceed to |
|---|---|
| DTC B1860 is output. | A |
| DTC B1861 is output. | B |
| DTC B1862 is output. | C |
| DTC B1863 is output. | D |

(2) If not using the intelligent tester (read the 2-digit of DTC):

Check for DTC (see page RS-18).

**Result**

| Result | Proceed to |
|---|---|
| DTC B1860 is output. | E |

RS

| | |
|---|---|
| B | Go to step 4 |
| C | Go to step 5 |
| D | Go to step 6 |
| E | Go to step 7 |

A

## 2 CHECK CONNECTOR

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the instrument panel wire connector (on the No. 1 instrument panel airbag lower side) is not damaged.

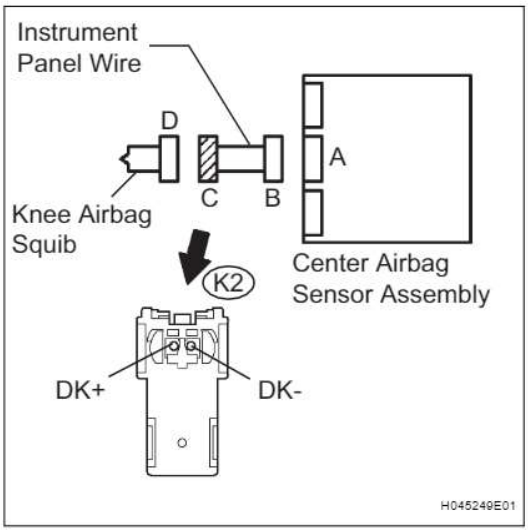
**OK:**

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

| | |
|---|---|
| NG | REPAIR OR REPLACE INSTRUMENT PANEL WIRE |

OK

## 3 CHECK INSTRUMENT PANEL WIRE (SHORT)




(a) Disconnect the connectors from the center airbag sensor.
(b) Disconnect the connector from the No. 1 instrument panel airbag lower (knee airbag squib).
(c) Release the activation prevention mechanism built into connector "B" (see page RS-11).
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| K2-1 (DK+) - K2-2 (DK-) | 1 MΩ or higher |

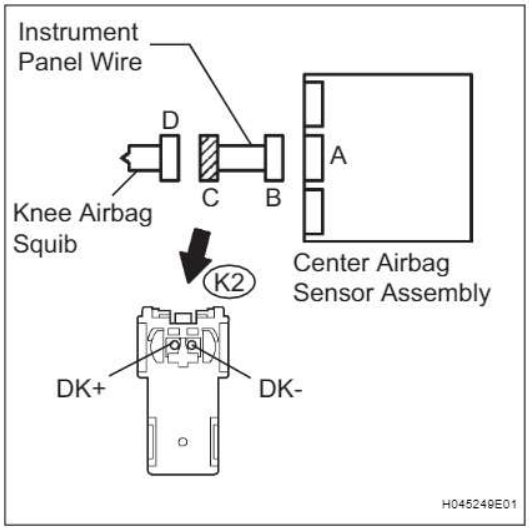
| | |
|---|---|
| OK | Go to step 10 |

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

## 4 CHECK INSTRUMENT PANEL WIRE (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) Disconnect the connectors from the center airbag sensor.
(d) Disconnect the connector from the No. 1 instrument panel airbag lower (knee airbag squib).
(e) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

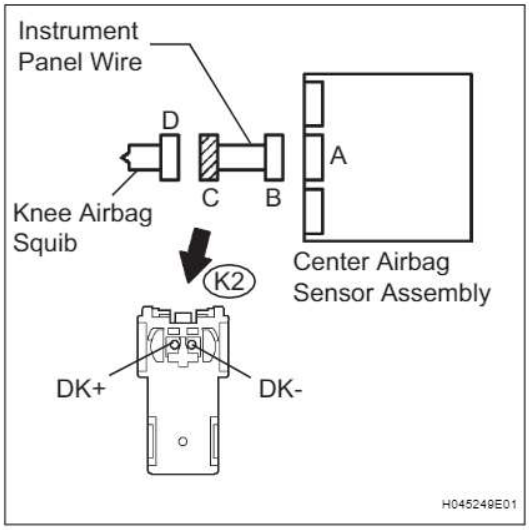
| Tester Connection | Specified Condition |
|---|---|
| K2-1 (DK+) - K2-2 (DK-) | Below 1 Ω |

OK → Go to step 11

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

## 5 CHECK INSTRUMENT PANEL WIRE (TO GROUND)




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor.
(d) Disconnect the connector from the No. 1 instrument panel airbag lower (knee airbag squib).
(e) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| K2-1 (DK+) - K2-2 (DK-) | 1 MΩ or higher |

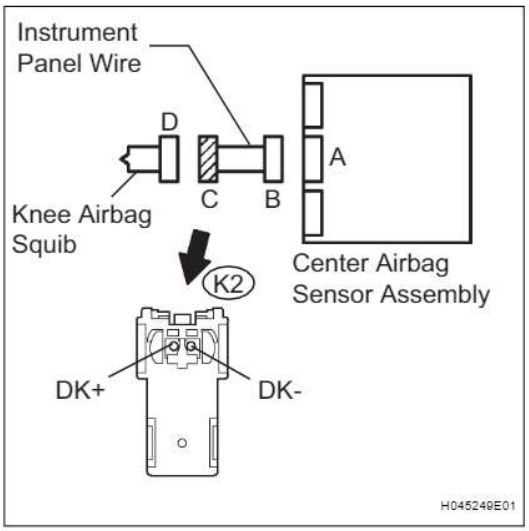
OK → Go to step 11

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

| 6 | CHECK INSTRUMENT PANEL WIRE (TO B+) |
|---|---|




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor.
(d) Disconnect the connector from the No. 1 instrument panel airbag lower (knee airbag squib).
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position.
(g) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| K2-1 (DK+) - Body ground | Below 1 V |
| K2-2 (DK-) - Body ground | Below 1 V |

(h) Before proceeding to the next step, perform the following procedures.
(1) Turn the ignition switch to the LOCK position.
(2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

OK → Go to step 11

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

| 7 | CHECK CONNECTOR |
|---|---|

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the instrument panel wire connector (on the No. 1 instrument panel airbag assembly lower side) is not damaged.

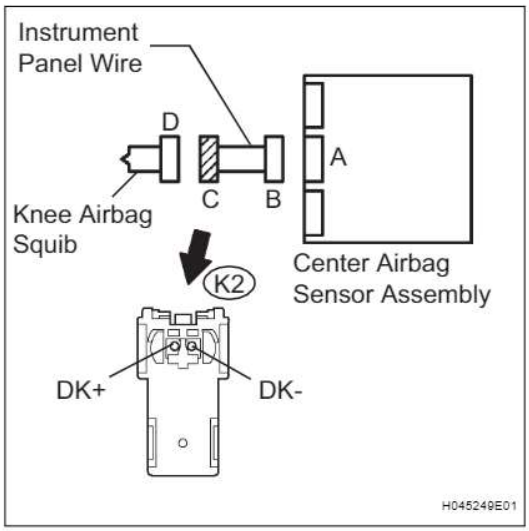
**OK:**

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

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

## 8 CHECK INSTRUMENT PANEL WIRE (KNEE AIRBAG SQUIB CIRCUIT)




(a) Disconnect the connectors from the center airbag sensor.
(b) Disconnect the connector from the No. 1 instrument panel airbag lower (knee airbag squib).
(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) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| K2-1 (DK+) - Body ground | Below 1 V |
| K2-2 (DK-) - Body ground | Below 1 V |

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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| K2-1 (DK+) - K2-2 (DK-) | Below 1 Ω |
| K2-1 (DK+) - Body ground | 1 MΩ or higher |
| K2-2 (DK-) - Body ground | 1 MΩ or higher |

(i) Release the activation prevention mechanism built into connector "B" (see page RS-11).
(j) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

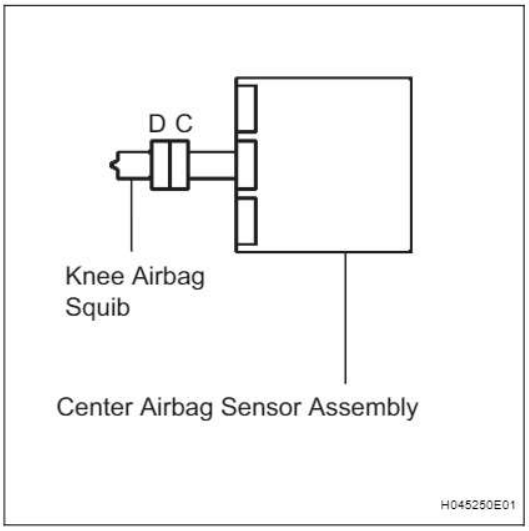
| Tester Connection | Specified Condition |
|---|---|
| K2-1 (DK+) - K2-2 (DK-) | 1 MΩ or higher |

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

OK

RS

| 9 | REPLACE NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY LOWER (KNEE AIRBAG SQUIB) |
|---|---|



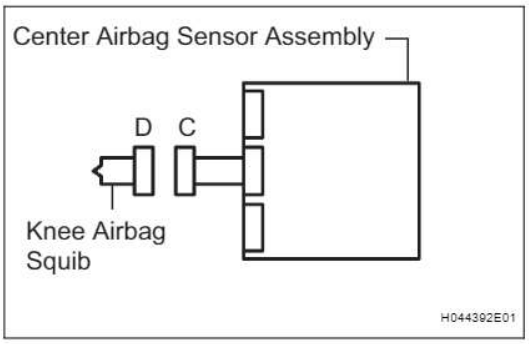

(a) Replace the No. 1 instrument panel airbag lower (knee airbag squib) and connect the connector.
HINT:
Perform the inspection using parts from a normal vehicle if possible.
(b) Connect the connectors to the center airbag sensor.
(c) Connect the negative (-) terminal cable to the battery, and wait for 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-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC 64 is not output.**
HINT:
Codes other than code 64 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

**END**

| 10 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Restore the released activation prevention mechanism of connector "B" to the original condition.
(b) Connect the connectors to the center airbag sensor.
(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-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC B1860 is not output.**
HINT:
Codes other than code B1860 may be output at this time, but they are not related to this check.

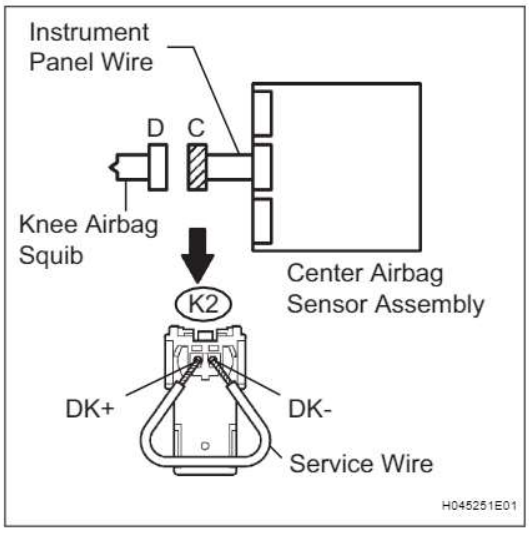
OK → Go to step 12

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

RS

## 11 CHECK CENTER AIRBAG SENSOR ASSEMBLY



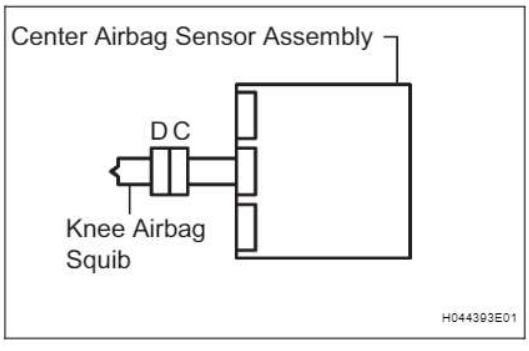

(a) Connect the connectors to the center airbag sensor.
(b) Using a service wire, connect K2-1 (DK+) and K2-2 (DK-) of connector "C".
**NOTICE:**
- **Twist the end of the service wire in order to insert it into the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(c) Connect the negative (-) terminal cable to the battery, and wait 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-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC B1861, B1862 or B1863 is not output.**
HINT:
Codes other than code B1861, B1862 or B1863 may be output at this time, but they are not related to this check.
(i) Before proceeding to the next step, perform the following procedures.
(1) Disconnect the service wire from connector "C".

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

## 12 CHECK NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY LOWER (KNEE AIRBAG SQUIB)




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the No. 1 instrument panel airbag lower.
(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-18).
(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 for DTCs (see page RS-18).

**OK:**

**DTC B1860, B1861, B1862 or B1863 may be output at this time, but they are not related to this check.**

HINT:

Codes other than code B1860, B1861, B1862 or B1863 may be output at this time, but they are not related to this check.

RS

NG → **REPLACE NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY LOWER**

OK

**PERFORM SYMPTOM SIMULATION**

| | | |
|---|---|---|
| DTC | B1900/73 | Short in Front Driver Side Pretensioner Squib Circuit |
| DTC | B1901/73 | Open in Front Driver Side Pretensioner Squib Circuit |
| DTC | B1902/73 | Short to GND in Front Driver Side Pretensioner Squib Circuit |
| DTC | B1903/73 | Short to B+ in Front Driver Side Pretensioner Squib Circuit |



## DESCRIPTION

The pretensioner squib (driver side) circuit consists of the center airbag sensor and the front seat outer belt LH.

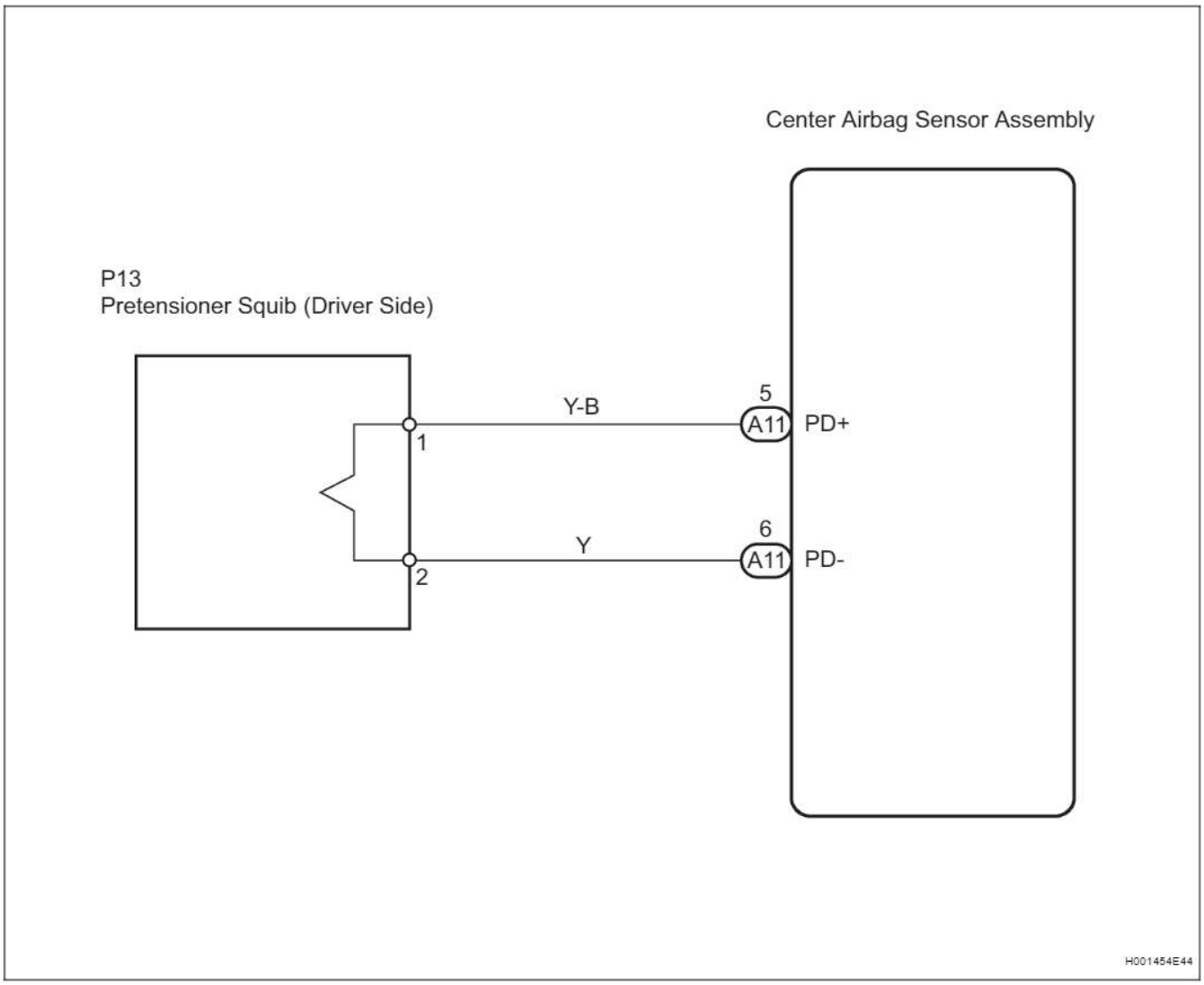
This circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the pretensioner squib (driver side) circuit.

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

RS

## WIRING DIAGRAM




## INSPECTION PROCEDURE

**CAUTION:**

**Be sure to perform the following procedures before troubleshooting to avoid unexpected airbag deployment.**

1. Disconnect the connectors from the horn button.
2. Disconnect the connectors from the front passenger airbag.
3. Disconnect the connector from the No. 1 instrument panel airbag lower.
4. w/ Side and curtain shield airbag:
   Disconnect the connector from the front seat airbag LH.
5. w/ Side and curtain shield airbag:
   Disconnect the connector from the front seat airbag RH.
6. w/ Side and curtain shield airbag:
   Disconnect the connector from the curtain shield airbag LH.
7. w/ Side and curtain shield airbag:
   Disconnect the connector from the curtain shield airbag RH.
8. Disconnect the connector from the front seat outer belt RH.

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

(a) Proceed to each step according to DTC readings.
(1) If using the intelligent tester (read the 5-digit of DTC):
Using the intelligent tester, check for DTCs (see page RS-18).
**Result**

| Result | Proceed to |
|---|---|
| DTC B1900 is output. | A |
| DTC B1901 is output. | B |
| DTC B1902 is output. | C |
| DTC B1903 is output. | D |

(2) If not using the intelligent tester (read the 2-digit of DTC):
Check for DTCs (see page RS-18).
**Result**

| Result | Proceed to |
|---|---|
| DTC 73 is output. | E |

B → **Go to step 4**

C → **Go to step 5**

D → **Go to step 6**

E → **Go to step 7**

A

| 2 | CHECK CONNECTOR |
|---|---|

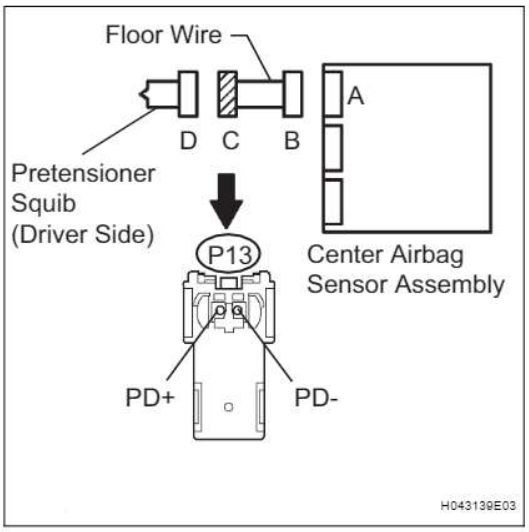
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the floor wire connector (on the front seat outer belt LH side) is not damaged.
**OK:**
**The lock button is not disengaged, or the claw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

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

| 3 | CHECK FLOOR WIRE (SHORT) |
|---|---|




(a) Disconnect the connectors from the center airbag sensor.
(b) Disconnect the connector from the front seat outer belt LH (pretensioner squib (driver side)).
(c) Release the activation prevention mechanism built into connector "B" (see page RS-11).
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

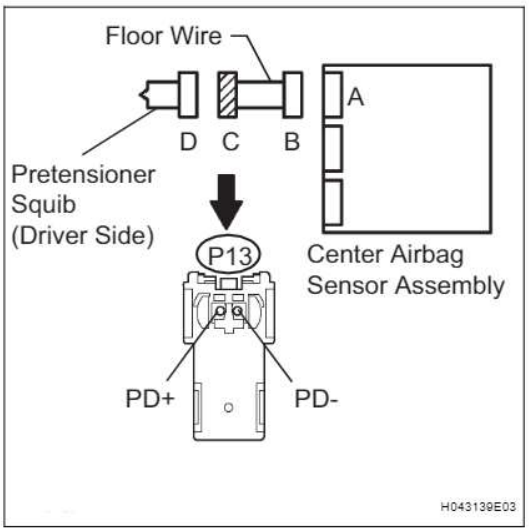
| Tester Connection | Specified Condition |
|---|---|
| P13-1 (PD+) - P13-2 (PD-) | 1 MΩ or higher |

OK → Go to step 10

NG

REPAIR OR REPLACE FLOOR WIRE

| 4 | CHECK FLOOR WIRE (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) Disconnect the connectors from the center airbag sensor.
(d) Disconnect the connector from the front seat outer belt LH (pretensioner squib (driver side)).
(e) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| P13-1 (PD+) - P13-2 (PD-) | Below 1 Ω |

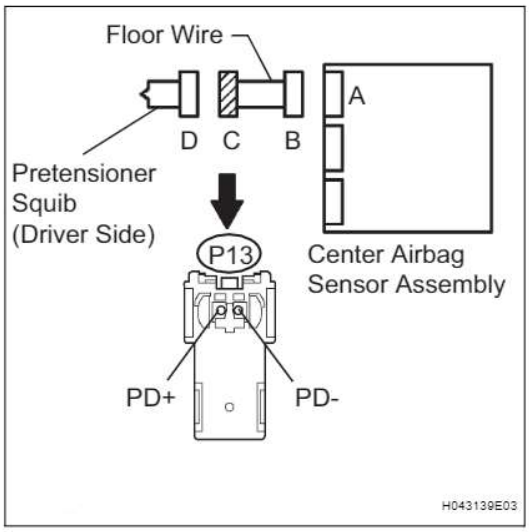
OK → Go to step 11

NG

REPAIR OR REPLACE FLOOR WIRE

RS

## 5 CHECK FLOOR WIRE (TO GROUND)




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

**Standard resistance**

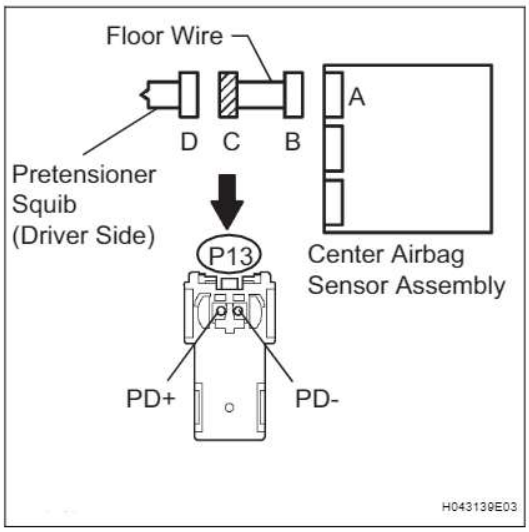
| Tester Connection | Specified Condition |
|---|---|
| P13-1 (PD+) - Body ground | 1 MΩ or higher |
| P13-2 (PD-) - Body ground | 1 MΩ or higher |

OK → Go to step 11

NG

**REPAIR OR REPLACE FLOOR WIRE**

## 6 CHECK FLOOR WIRE (TO B+)




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

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| P13-1 (PD+) - Body ground | Below 1 V |
| P13-2 (PD-) - Body ground | Below 1 V |

(h) Before proceeding to the next step, perform the following procedures.
  (1) Turn the ignition switch to the LOCK position.
  (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

OK → Go to step 11

NG

**REPAIR OR REPLACE FLOOR WIRE**

RS

| 7 | CHECK CONNECTOR |
|---|---|

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

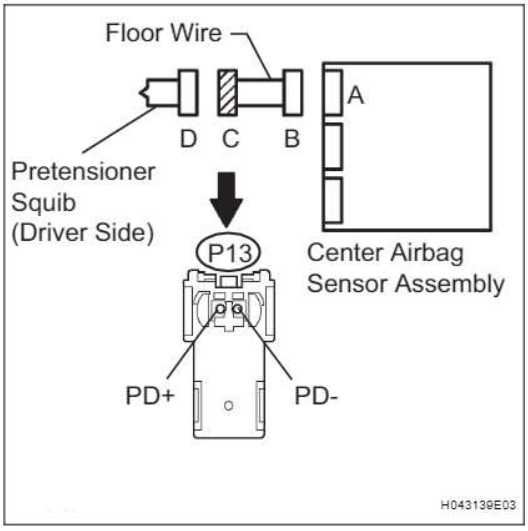
**OK:**

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

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

| 8 | CHECK FLOOR WIRE (PRETENSIONER SQUIB (DRIVER SIDE) CIRCUIT) |
|---|---|




(a) Disconnect the connectors from the center airbag sensor.
(b) Disconnect the connector from the front seat outer belt LH (pretensioner squib (driver side)).
(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) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| P13-1 (PD+) - Body ground | Below 1 V |
| P13-2 (PD-) - Body ground | Below 1 V |

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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| P13-1 (PD+) - P13-2 (PD-) | Below 1 Ω |
| P13-1 (PD+) - Body ground | 1 MΩ or higher |
| P13-2 (PD-) - Body ground | 1 MΩ or higher |

(i) Release the activation prevention mechanism built into connector "B" (see page RS-11).
(j) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

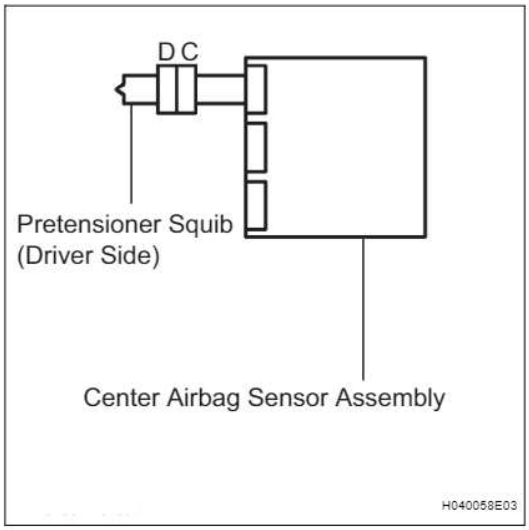
| Tester Connection | Specified Condition |
|---|---|
| P13-1 (PD+) - P13-2 (PD-) | 1 MΩ or higher |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

| 9 | REPLACE FRONT SEAT OUTER BELT ASSEMBLY LH (PRETENSIONER SQUIB (DRIVER SIDE)) |
|---|---|



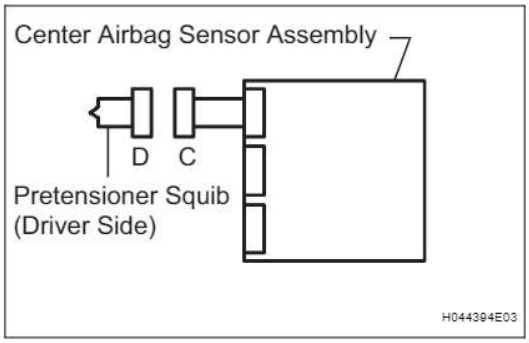

(a) Replace the front seat outer belt LH and connect the connector.
HINT:
Perform the inspection using parts from a normal vehicle if possible.
(b) Connect the connectors to the center airbag sensor.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page RS-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC 73 is not output.**
HINT:
Codes other than code 73 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

**END**

| 10 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Restore the released activation prevention mechanism of connector "B" to the original condition.
(b) Connect the connectors to the center airbag sensor.
(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-18).
(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.

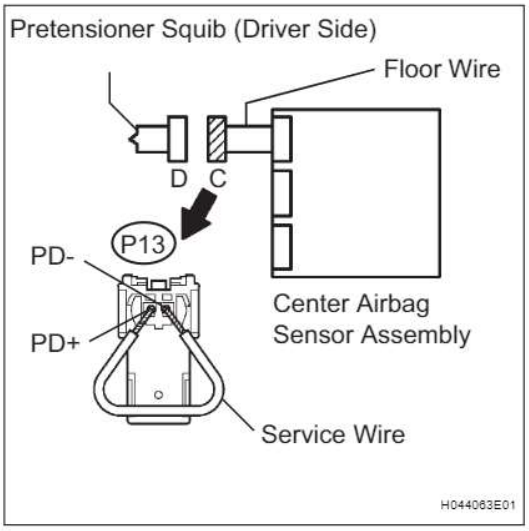
(h) Check for DTCs (see page RS-18).
**OK:**
**DTC B1900 is not output.**
HINT:
Codes other than code B1900 may be output at this time, but they are not related to this check.

| OK | Go to step 12 |
|---|---|

NG

**REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

**11 CHECK CENTER AIRBAG SENSOR ASSEMBLY**



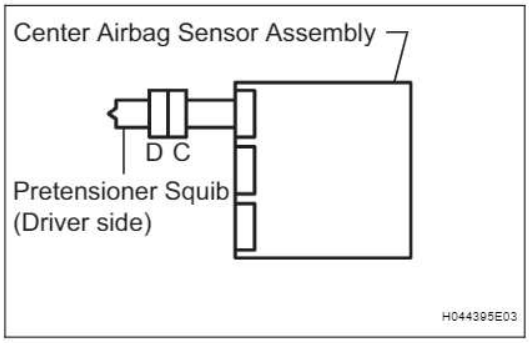

(a) Connect the connectors to the center airbag sensor.
(b) Using a service wire, connect P13-1 (PD+) and P13-2 (PD-) of connector "C".
**NOTICE:**
- **Twist the end of the service wire in order to insert it into the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch on the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page RS-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC B1901, B1902 or B1903 is not output.**
HINT:
Codes other than code B1901, B1902 or B1903 may be output at this time, but they are not related to this check.
(i) Before proceeding to the next step, perform the following procedures.
(1) Disconnect the service wire from connector "C".

| NG | REPLACE CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|

OK

| 12 | CHECK FRONT SEAT OUTER BELT ASSEMBLY LH (PRETENSIONER SQUIB (DRIVER SIDE)) |
|---|---|




(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 front seat outer belt LH.
(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-18).
(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 for DTCs (see page RS-18).

**OK:**

**DTC B1900, B1901, B1902 or B1903 is not output.**

HINT:

Codes other than code B1900, B1901, B1902 or B1903 may be output at this time, but they are not related to this check.

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

OK

**PERFORM SYMPTOM SIMULATION**

| | | |
|---|---|---|
| DTC | B1905/74 | Short in Front Passenger Side Pretensioner Squib Circuit |
| DTC | B1906/74 | Open in Front Passenger Side Pretensioner Squib Circuit |
| DTC | B1907/74 | Short to GND in Front Passenger Side Pretensioner Squib Circuit |
| DTC | B1908/74 | Short to B+ in Front Passenger Side Front Pretensioner Squib Circuit |

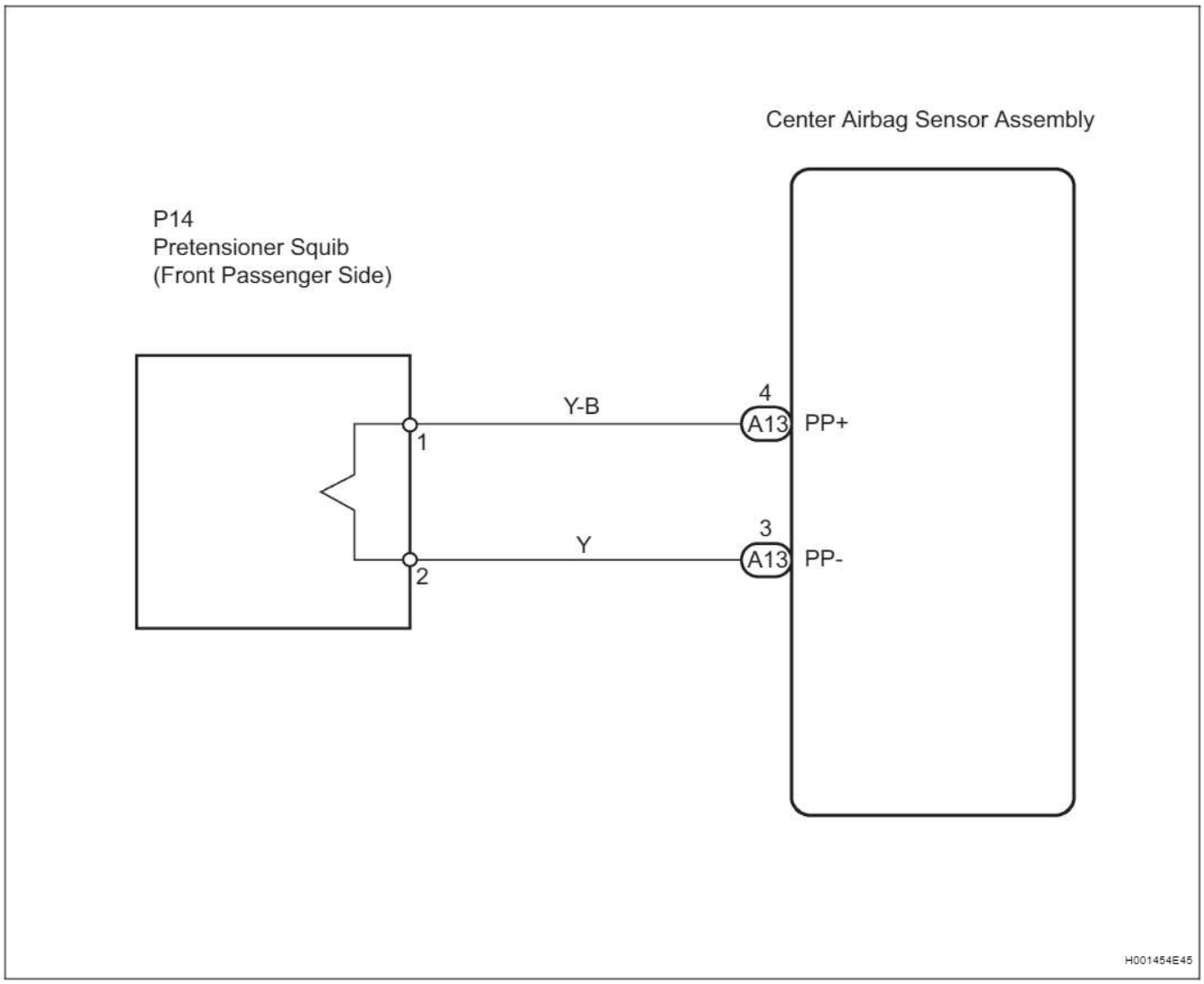
RS

## DESCRIPTION

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

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

## WIRING DIAGRAM




## INSPECTION PROCEDURE

**CAUTION:**

**Be sure to perform the following procedures before troubleshooting to avoid unexpected airbag deployment.**

1. Disconnect the connectors from the horn button.
2. Disconnect the connectors from the front passenger airbag.
3. Disconnect the connector from the No. 1 instrument panel airbag lower.
4. w/ Side and curtain shield airbag:
   Disconnect the connector from the front seat airbag LH.
5. w/ Side and curtain shield airbag:
   Disconnect the connector from the front seat airbag RH.
6. w/ Side and curtain shield airbag:
   Disconnect the connector from the curtain shield airbag LH.
7. w/ Side and curtain shield airbag:
   Disconnect the connector from the curtain shield airbag RH.
8. Disconnect the connector from the front seat outer belt LH.

RS

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

(a) Proceed to each step according to DTC readings.
(1) If using the intelligent tester (read the 5-digit of DTC):
Using the intelligent tester, check for DTCs (see page RS-18).
**Result**

| Result | Proceed to |
|---|---|
| DTC B1905 is output. | A |
| DTC B1906 is output. | B |
| DTC B1907 is output. | C |
| DTC B1908 is output. | D |

(2) If not using the intelligent tester (read the 2-digit of DTC):
Check for DTCs (see page RS-18).
**Result**

| Result | Proceed to |
|---|---|
| DTC 74 is output. | E |

B → **Go to step 4**

C → **Go to step 5**

D → **Go to step 6**

E → **Go to step 7**

A

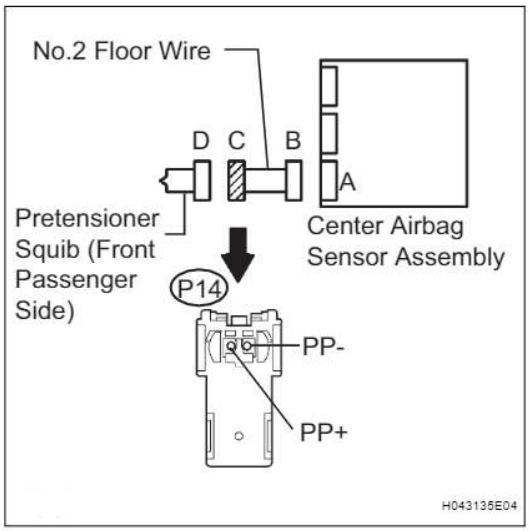
| 2 | CHECK CONNECTOR |
|---|---|

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the No. 2 floor wire connector (on the front seat outer belt RH side) is not damaged.
**OK:**
**The lock button is not disengaged, or the claw of the lock is not deformed or damaged.**

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

OK

## 3 CHECK NO. 2 FLOOR WIRE (SHORT)




(a) Disconnect the connectors from the center airbag sensor.
(b) Disconnect the connector from the front seat outer belt RH (pretensioner squib (front passenger side)).
(c) Release the activation prevention mechanism built into connector "B" (see page RS-11).
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

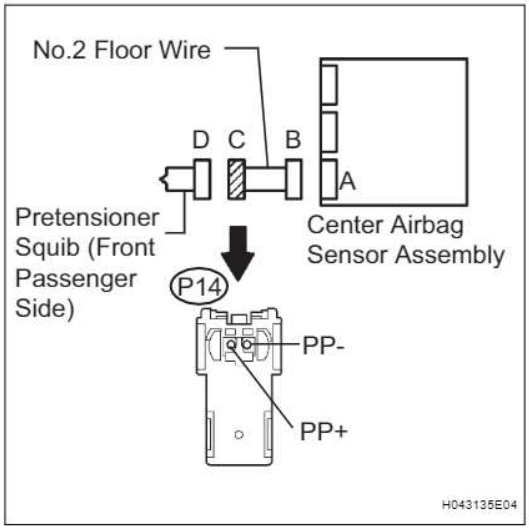
| Tester Connection | Specified Condition |
|---|---|
| P14-1 (PP+) - P14-2 (PP-) | 1 MΩ or higher |

OK → Go to step 10

NG

REPAIR OR REPLACE NO. 2 FLOOR WIRE

## 4 CHECK NO. 2 FLOOR WIRE (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) Disconnect the connectors from the center airbag sensor.
(d) Disconnect the connector from the front seat outer belt RH (pretensioner squib (front passenger side)).
(e) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| P14-1 (PP+) - P14-2 (PP-) | Below 1 Ω |

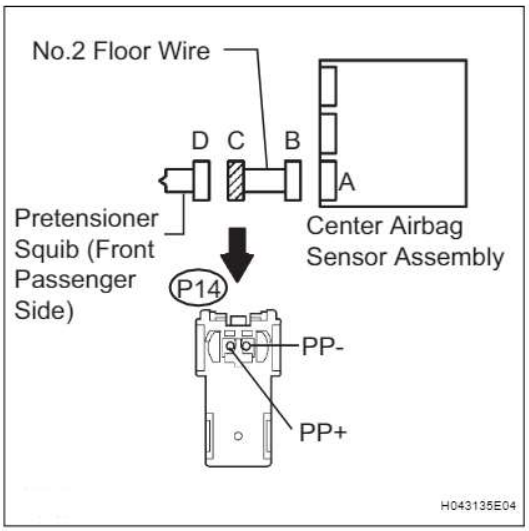
OK → Go to step 11

NG

REPAIR OR REPLACE NO. 2 FLOOR WIRE

RS

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




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

**Standard resistance**

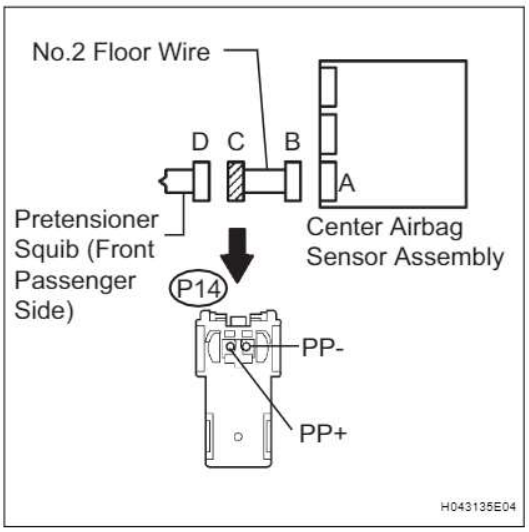
| Tester Connection | Specified Condition |
|---|---|
| P14-1 (PP+) - Body ground | 1 MΩ or higher |
| P14-2 (PP-) - Body ground | 1 MΩ or higher |

OK → Go to step 11

NG

REPAIR OR REPLACE NO. 2 FLOOR WIRE

## 6 CHECK NO. 2 FLOOR WIRE (TO B+)




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

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| P14-1 (PP+) - Body ground | Below 1 V |
| P14-2 (PP-) - Body ground | Below 1 V |

(h) Before proceeding to the next step, perform the following procedures.
(1) Turn the ignition switch to the LOCK position.
(2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

OK → Go to step 11

NG

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

RS

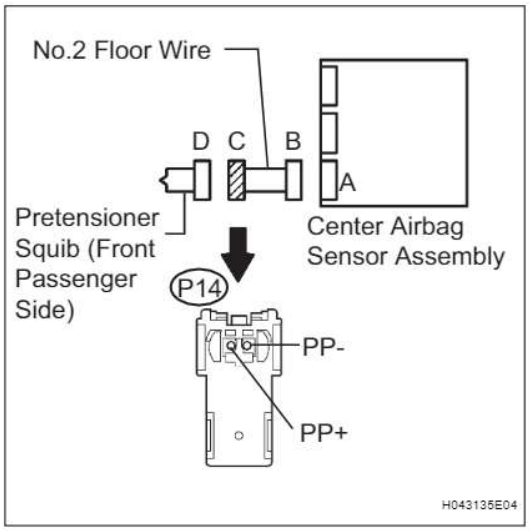
| 7 | CHECK CONNECTOR |
|---|---|

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the No. 2 floor wire connector (on the front seat outer belt RH side) is not damaged.
**OK:**
**The lock button is not disengaged, or the claw of the lock is not deformed or damaged.**

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

OK

| 8 | CHECK NO. 2 FLOOR WIRE (PRETENSIONER SQUIB (FRONT PASSENGER SIDE) CIRCUIT) |
|---|---|




(a) Disconnect the connectors from the center airbag sensor.
(b) Disconnect the connector from the front seat outer belt RH (pretensioner squib (front passenger side)).
(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) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| P14-1 (PP+) - Body ground | Below 1 V |
| P14-2 (PP-) - Body ground | Below 1 V |

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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| P14-1 (PP+) - P14-2 (PP-) | Below 1 Ω |
| P14-1 (PP+) - Body ground | 1 MΩ or higher |
| P14-2 (PP-) - Body ground | 1 MΩ or higher |

(i) Release the activation prevention mechanism built into connector "B" (see page RS-11).
(j) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

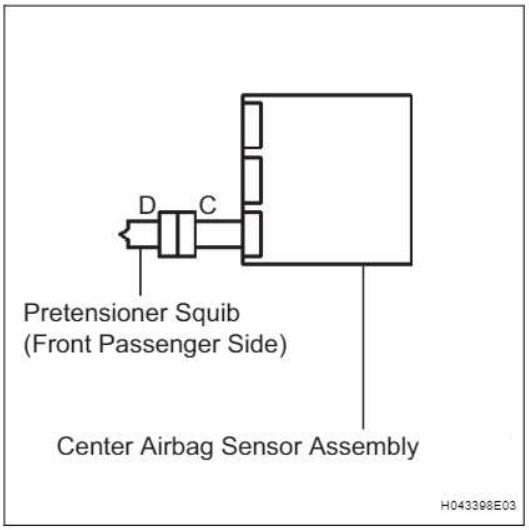
| Tester Connection | Specified Condition |
|---|---|
| P14-1 (PP+) - P14-2 (PP-) | 1 MΩ or higher |

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

RS

OK

| 9 | REPLACE FRONT SEAT OUTER BELT ASSEMBLY RH (PRETENSIONER SQUIB (FRONT PASSENGER SIDE)) |
|---|---|



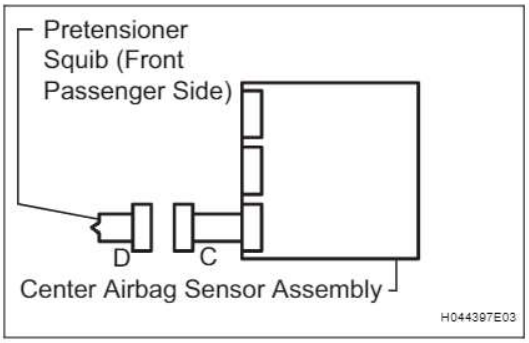

(a) Replace the front seat outer belt RH and connect the connector.
HINT:
Perform the inspection using parts from a normal vehicle if possible.
(b) Connect the connectors to the center airbag sensor.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page RS-18).
(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 for DTCs (see page RS-18).
**OK:**
**DTC 74 is not output.**
HINT:
Codes other than code 74 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

**END**

| 10 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Restore the released activation prevention mechanism of connector "B" to the original condition.
(b) Connect the connectors to the center airbag sensor.
(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-18).
(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.

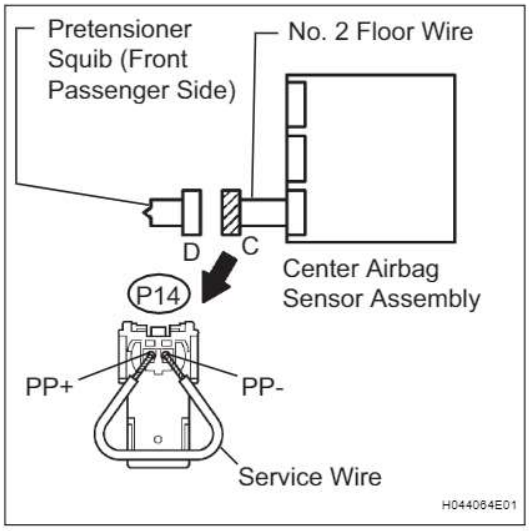
(h) Check for DTCs (see page RS-18).
**OK:**
**DTC B1905 is not output.**
HINT:
Codes other than code B1905 may be output at this time, but they are not related to this check.

| OK | Go to step 12 |
|---|---|

NG

**REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

## 11 CHECK CENTER AIRBAG SENSOR ASSEMBLY




(a) Connect the connectors to the center airbag sensor.
(b) Using a service wire, connect P14-1 (PP+) and P14-2 (PP-) of connector "C".
**NOTICE:**
- **Twist the end of the service wire in order to insert it into the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

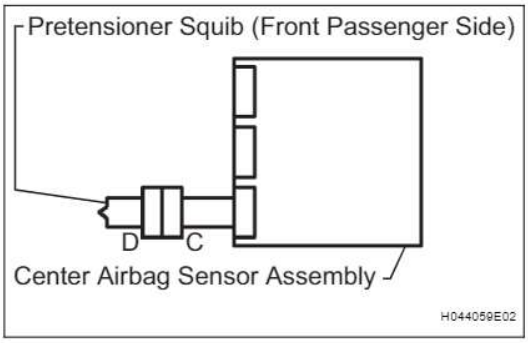
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page RS-18).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(h) Check for DTCs (see page RS-18).
**OK:**
**DTC B1906, B1907 or B1908 is not output.**
HINT:
Codes other than code B1906, B1907 or B1908 may be output at this time, but they are not related to this check.
(i) Before proceeding to the next step, perform the following procedures.
(1) Disconnect the service wire from connector "C".

| NG | REPLACE CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|

OK

| 12 | CHECK FRONT SEAT OUTER BELT ASSEMBLY RH (PRETENSIONER SQUIB (FRONT PASSENGER SIDE)) |
|---|---|

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) Connect the connector to the front seat outer belt 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, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (see page RS-18).
(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 for DTCs (see page RS-18).

**OK:**

**DTC B1905, B1906, B1907 or B1908 is not output.**

HINT:

Codes other than code B1905, B1906, B1907 or B1908 may be output at this time, but they are not related to this check.

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

OK

**PERFORM SYMPTOM SIMULATION**

# Source Voltage Drop

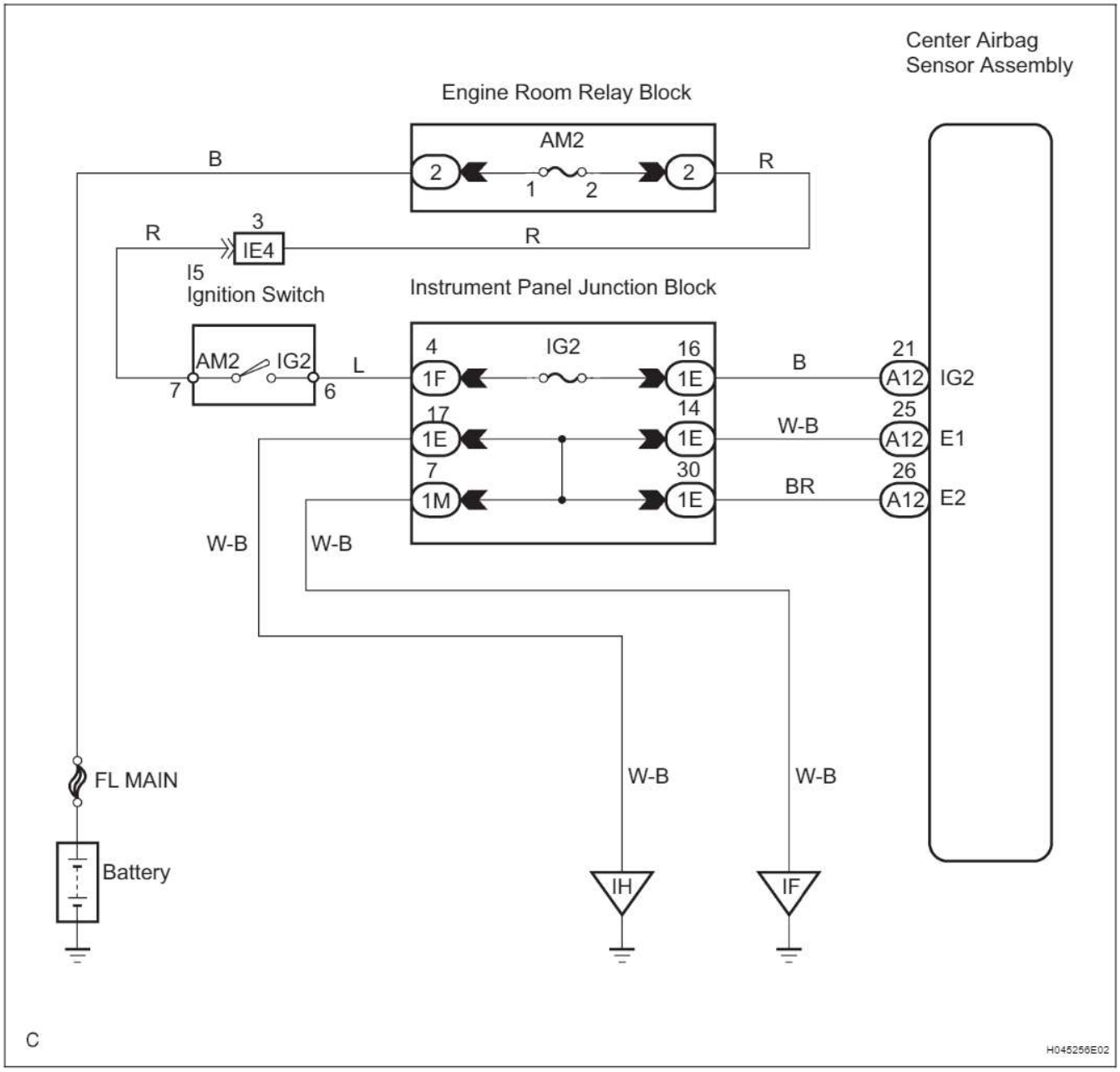
## DESCRIPTION

The SRS is equipped with a voltage-increase circuit (DC-DC converter) in the center airbag sensor. When the source voltage drops, the voltage-increase circuit (DC-DC converter) functions to increase the voltage of the SRS to normal voltage.

A malfunction in this circuit is displayed differently from other codes. The source voltage drop is indicated when the SRS warning light comes on without showing any DTCs.

A malfunction in this circuit is not recorded in the center airbag sensor. The SRS warning light automatically goes off when the source voltage returns to normal.

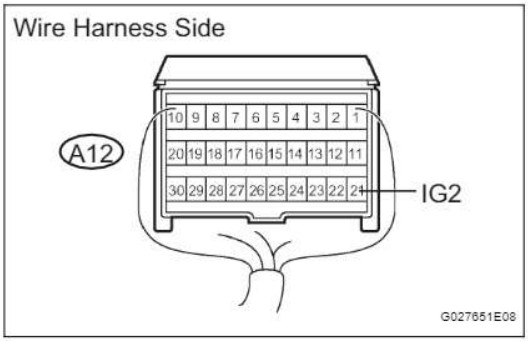
## WIRING DIAGRAM



RS

## INSPECTION PROCEDURE

### 1 CHECK WIRE HARNESS (POWER SOURCE)




(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.

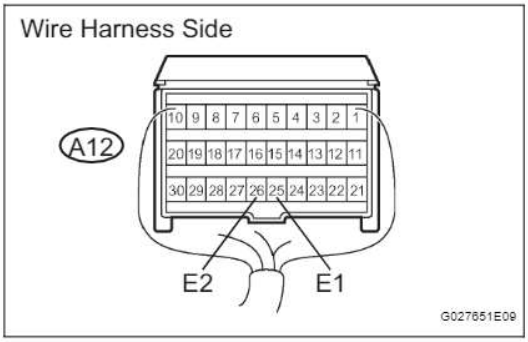
**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| A12-21 (IG2) - Body ground | 10 to 14 V |

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR (BATTERY - CENTER AIRBAG SENSOR ASSEMBLY)**

OK

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




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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A12-25 (E1) - Body ground | Below 1 Ω |
| A12-26 (E2) - Body ground | Below 1 Ω |

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR (CENTER AIRBAG SENSOR ASSEMBLY - BODY GROUND)**

OK

### 3 CHECK SRS WARNING LIGHT

(a) Connect the A12 connector to the center airbag sensor.
(b) Connect the A12 connector to the horn button.
(c) Connect the A12 connector to the front passenger airbag.
(d) Connect the A12 connector to the No. 1 instrument panel airbag lower.
(e) w/ Side and curtain shield airbag:
Connect the connector to the front seat airbag LH.
(f) w/ Side and curtain shield airbag:
Connect the connector to the front seat airbag RH.
(g) w/ Side and curtain shield airbag:
Connect the connector to the curtain shield airbag LH.

(h) w/ Side and curtain shield airbag:
Connect the connector to the curtain shield airbag RH.
(i) Connect the connector to the front seat outer belt LH.
(j) Connect the connector to the front seat outer belt RH.
(k) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(l) Turn the ignition switch to the ON position, and wait for at least 6 seconds.
(m) Operate all components of the electrical system (defogger, wiper, headlight, heater blower, etc.) and check the SRS warning light operation.
**OK:**
**The SRS warning light does not come on.**

RS

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

**END**

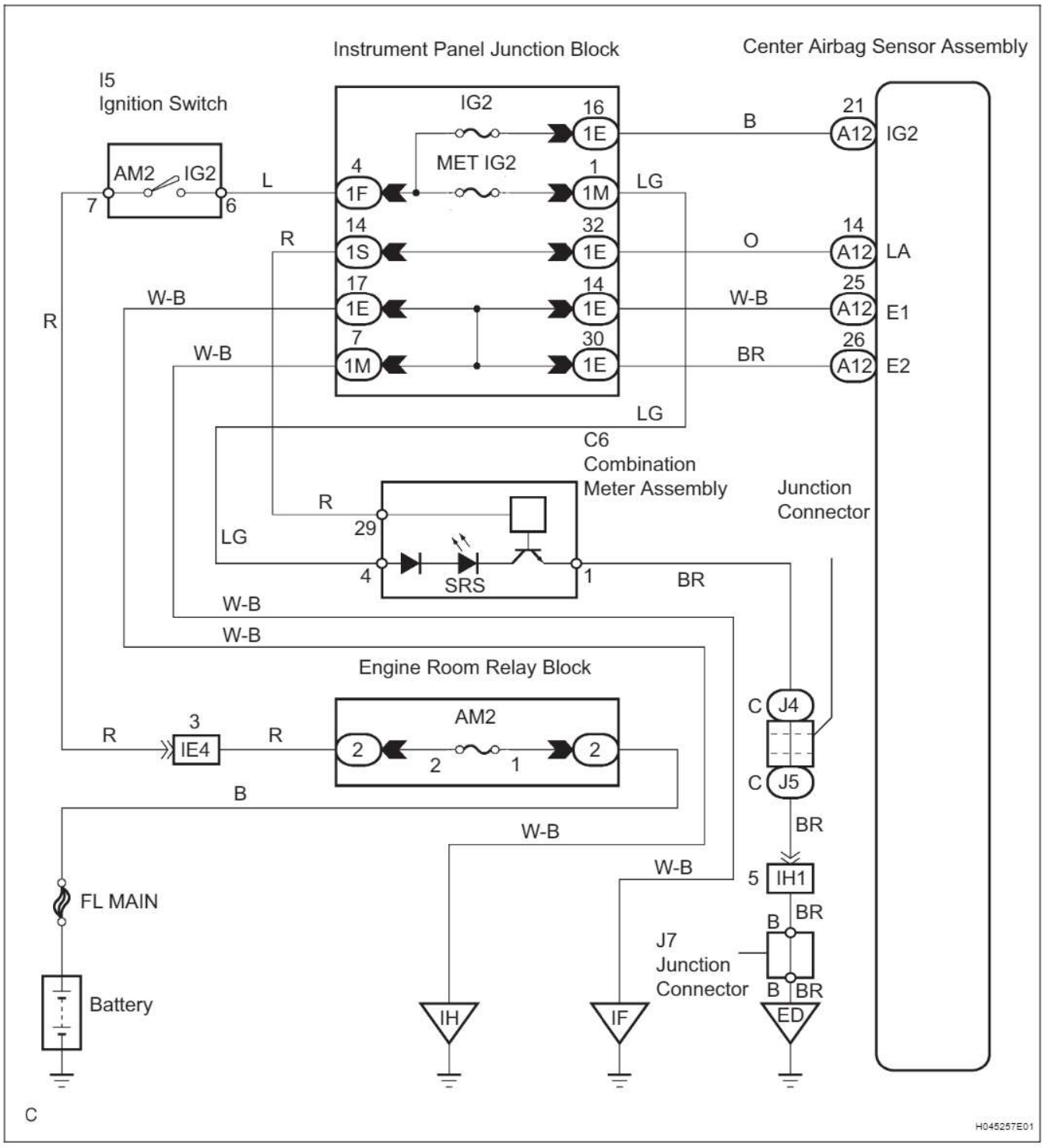
# SRS Warning Light Remains ON

## DESCRIPTION



The SRS warning light is located on the combination meter.
When the SRS is normal, the SRS warning light comes on for approximately 6 seconds after the ignition switch is turned from the LOCK position to the ON position, and then goes off automatically.
If there is a malfunction in the SRS, the SRS warning light comes on to inform the driver of a problem.
When terminals TC and CG of the DLC3 are connected, the DTCs are displayed by blinking the SRS warning light.

## WIRING DIAGRAM




## INSPECTION PROCEDURE

**CAUTION:**

**Be sure to perform the following procedures before troubleshooting to avoid unexpected airbag deployment.**

1. Turn the ignition switch to the LOCK position.
2. Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
3. Disconnect the connectors from the center airbag sensor.
4. Disconnect the connectors from the horn button.

5. Disconnect the connectors from the front passenger airbag.
6. Disconnect the connector from the No. 1 instrument panel airbag lower.
7. w/ Side and curtain shield airbag:
   Disconnect the connector from the front seat airbag LH.
8. w/ Side and curtain shield airbag:
   Disconnect the connector from the front seat airbag RH.
9. w/ Side and curtain shield airbag:
   Disconnect the connector from the curtain shield airbag LH.
10. w/ Side and curtain shield airbag:
    Disconnect the connector from the curtain shield airbag RH.
11. Disconnect the connector from the front seat outer belt LH.
12. Disconnect the connector from the front seat outer belt RH.



| 1 | CHECK CONNECTION OF CONNECTORS |
|---|---|

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

NG → **CONNECT CONNECTORS**

OK ↓

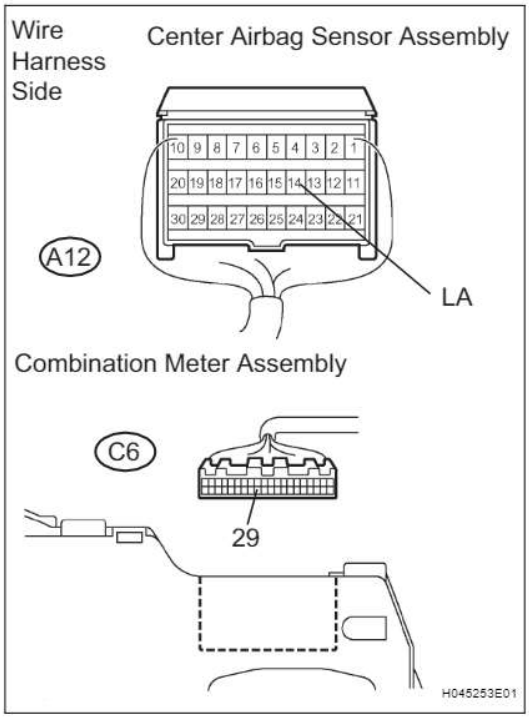
| 2 | CHECK FOR DTC |
|---|---|

(a) Connect the negative (-) terminal cable to the battery, and wait for at least 90 seconds.
(b) Check for DTCs (see page RS-18).
**OK:**
**Normal system code is output.**

NG → **REPAIR CIRCUIT INDICATED BY OUTPUT DTC**

OK ↓

| 3 | CHECK WIRE HARNESS (CENTER AIRBAG SENSOR ASSEMBLY - COMBINATION METER ASSEMBLY) |
|---|---|




(a) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(b) Disconnect connector from the combination meter.
(c) Disconnect the A12 connector from the center airbag sensor.
(d) Measure the resistance according to the value(s) in the table below.

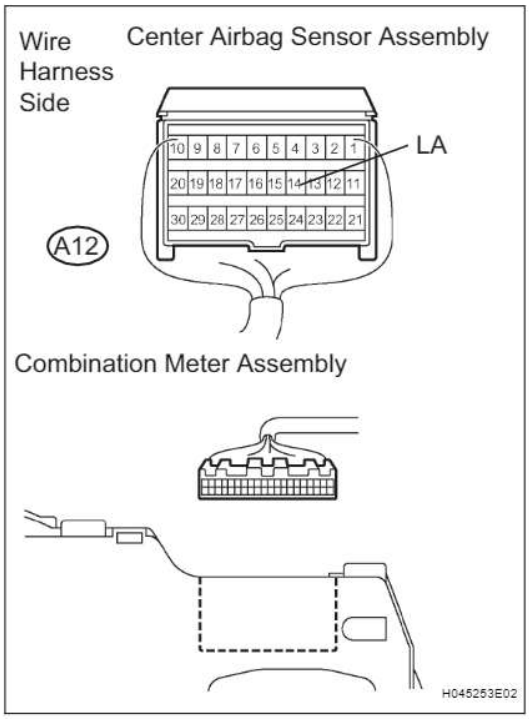
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A12-14 (LA) - C6-29 | Below 1 Ω |
| A12-14 (LA) - Body ground | 1 MΩ or higher |

NG → **REPAIR OR REPLACE WIRE HARNESS (CENTER AIRBAG SENSOR ASSEMBLY - COMBINATION METER ASSEMBLY)**

OK

| 4 | CHECK WIRE HARNESS (CENTER AIRBAG SENSOR ASSEMBLY - COMBINATION METER 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.
(c) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

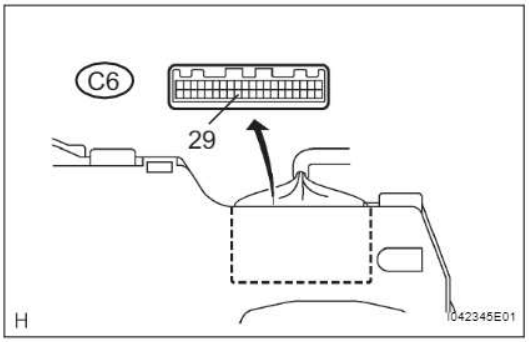
| Tester Connection | Specified Condition |
|---|---|
| A12-14 (LA) - Body ground | Below 1 V |

NG → **REPAIR OR REPLACE WIRE HARNESS (CENTER AIRBAG SENSOR ASSEMBLY - COMBINATION METER ASSEMBLY)**

OK

| 5 | CHECK COMBINATION METER ASSEMBLY |
|---|---|

RS




(a) Turn the ignition switch to the LOCK position.
(b) Connect the C6 connector to the combination meter.
(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) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| C6-29 - Body ground | 7 to 14 V |

NG → REPLACE COMBINATION METER ASSEMBLY

OK

| 6 | CHECK SRS WARNING LIGHT |
|---|---|

(a) Turn the ignition switch to the LOCK position, and wait for at least 60 seconds.
(b) Turn the ignition switch to the ON position.
(c) Check the SRS warning light.

**Result**

| Result | Proceed to |
|---|---|
| Comes on simultaneously with ignition switch on | A |
| Comes on 10 sec. after ignition switch on | B |

A → REPLACE COMBINATION METER ASSEMBLY

B

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

# SRS Warning Light does not Come ON

## DESCRIPTION

The SRS warning light is located on the combination meter.
When the SRS is normal, the SRS warning light comes on for approximately 6 seconds after the ignition switch is turned from the LOCK position to the ON position, and then goes off automatically.
If there is a malfunction in the SRS, the SRS warning light comes on to inform the driver of a problem.
When terminals TC and CG of the DLC3 are connected, the DTC is displayed by blinking the SRS warning light.



## WIRING DIAGRAM

Refer to SRS Warning Light Remains ON (see page RS-235).

## INSPECTION PROCEDURE

**CAUTION:**
**Be sure to perform the following procedures before troubleshooting to avoid unexpected airbag deployment.**

1. Turn the ignition switch to the LOCK position.
2. Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
3. Disconnect the connectors from the center airbag senor.
4. Disconnect the connectors from the horn button.
5. Disconnect the connectors from the front passenger airbag.
6. Disconnect the connector from the No. 1 instrument panel airbag lower.
7. w/ Side and curtain shield airbag:
   Disconnect the connector from the front seat airbag LH.
8. w/ Side and curtain shield airbag:
   Disconnect the connector from the front seat airbag RH.
9. w/ Side and curtain shield airbag:
   Disconnect the connector from the curtain shield airbag LH.
10. w/ Side and curtain shield airbag:
    Disconnect the connector from the curtain shield airbag RH.
11. Disconnect the connector from the front seat outer belt LH.
12. Disconnect the connector from the front seat outer belt RH.

| 1 | CHECK COMBINATION METER 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 10 seconds.
(c) Check the SRS warning light.

**Result**

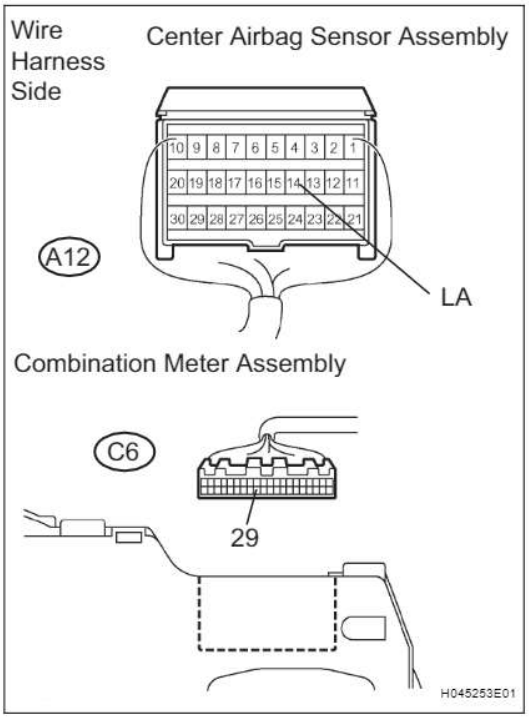
| Result | Proceed to |
|---|---|
| Does not come on | A |
| Comes on | B |

A → **REPLACE COMBINATION METER ASSEMBLY**

B

RS

| 2 | CHECK WIRE HARNESS (CENTER AIRBAG SENSOR ASSEMBLY - COMBINATION METER) |
|---|---|




(a) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(b) Disconnect the center airbag sensor connector.
(c) Disconnect the combination meter connector.
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A12-14 (LA) - C6-29 | Below 1 Ω |
| A12-14 (LA) - Body ground | 1 MΩ or higher |

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

OK →

**REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

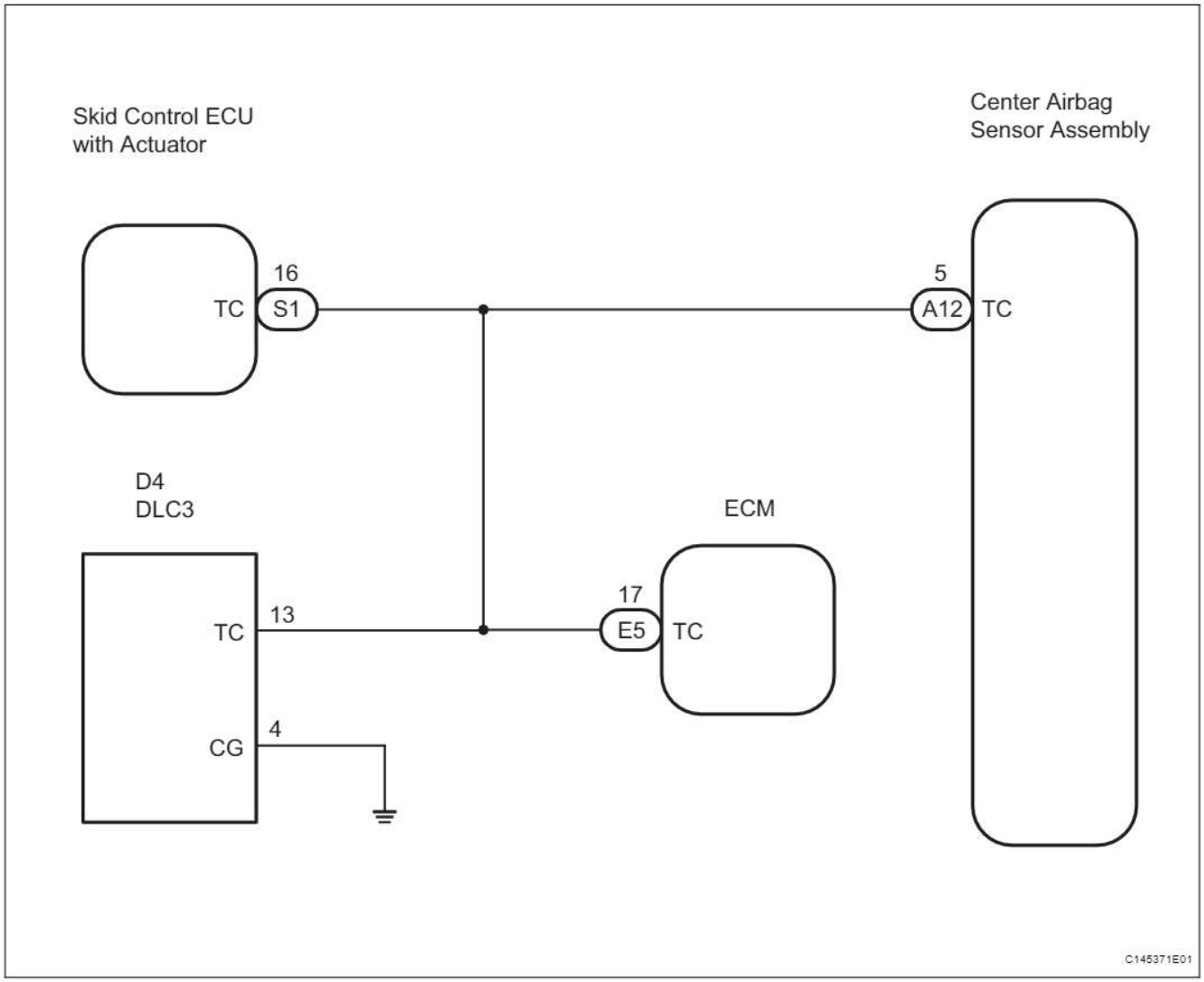
# TC and CG Terminal Circuit

## DESCRIPTION

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

RS

## WIRING DIAGRAM




HINT:
When each warning light keeps blinking, a ground short in the wiring of terminal TC of the DLC3 or an internal ground short in each ECU is suspected.

## INSPECTION PROCEDURE

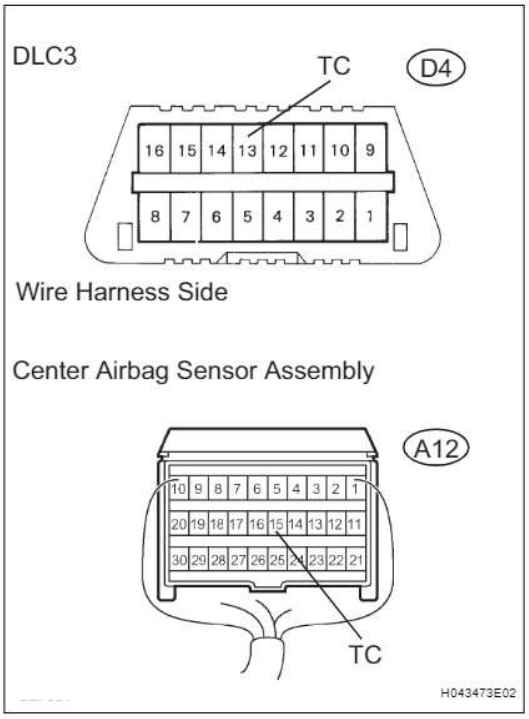
**CAUTION:**
**Be sure to perform the following procedures before troubleshooting to avoid unexpected airbag deployment.**

1. Turn the ignition switch to the LOCK position.
2. Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
3. Disconnect the connectors from the center airbag sensor.
4. Disconnect the connectors from the horn button.
5. Disconnect the connectors from the front passenger airbag.

6. Disconnect the connector from the No. 1 instrument panel airbag lower.
7. w/ Side and curtain shield airbag:
   Disconnect the connector from the front seat airbag LH.
8. w/ Side and curtain shield airbag:
   Disconnect the connector from the front seat airbag RH.
9. w/ Side and curtain shield airbag:
   Disconnect the connector from the curtain shield airbag LH.
10. w/ Side and curtain shield airbag:
    Disconnect the connector from the curtain shield airbag RH.
11. Disconnect the connector from the front seat outer belt LH.
12. Disconnect the connector from the front seat outer belt RH.

RS

| 1 | CHECK WIRE HARNESS (TC OF DLC3 - TC OF CENTER AIRBAG SENSOR ASSEMBLY) |
|---|---|



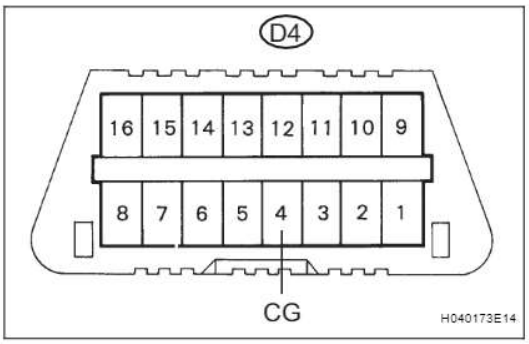

(a) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| D4-13 (TC)- A12-15 (TC) | Below 1 Ω |

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR (TC OF DLC3 - TC OF CENTER AIRBAG SENSOR ASSEMBLY)**

OK

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



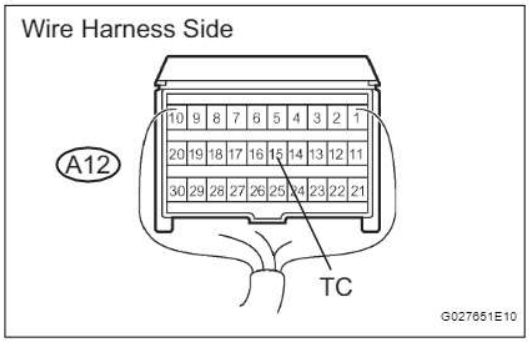

(a) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| D4-4 (CG) - Body ground | Below 1 Ω |

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR (CG OF DLC3 - BODY GROUND)**

OK

| 3 | CHECK WIRE HARNESS (TC OF CENTER AIRBAG SENSOR ASSEMBLY - BODY GROUND) |
|---|---|




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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A12-15 (TC)- Body ground | 1 MΩ or higher |

NG → REPAIR OR REPLACE HARNESS AND CONNECTOR OR REPLACE EACH ECU

OK

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

# OCCUPANT CLASSIFICATION SYSTEM

## PRECAUTION

RS

**NOTICE:**
**When disconnecting the negative (-) battery cable, initialize the following systems after the cable is reconnected:**

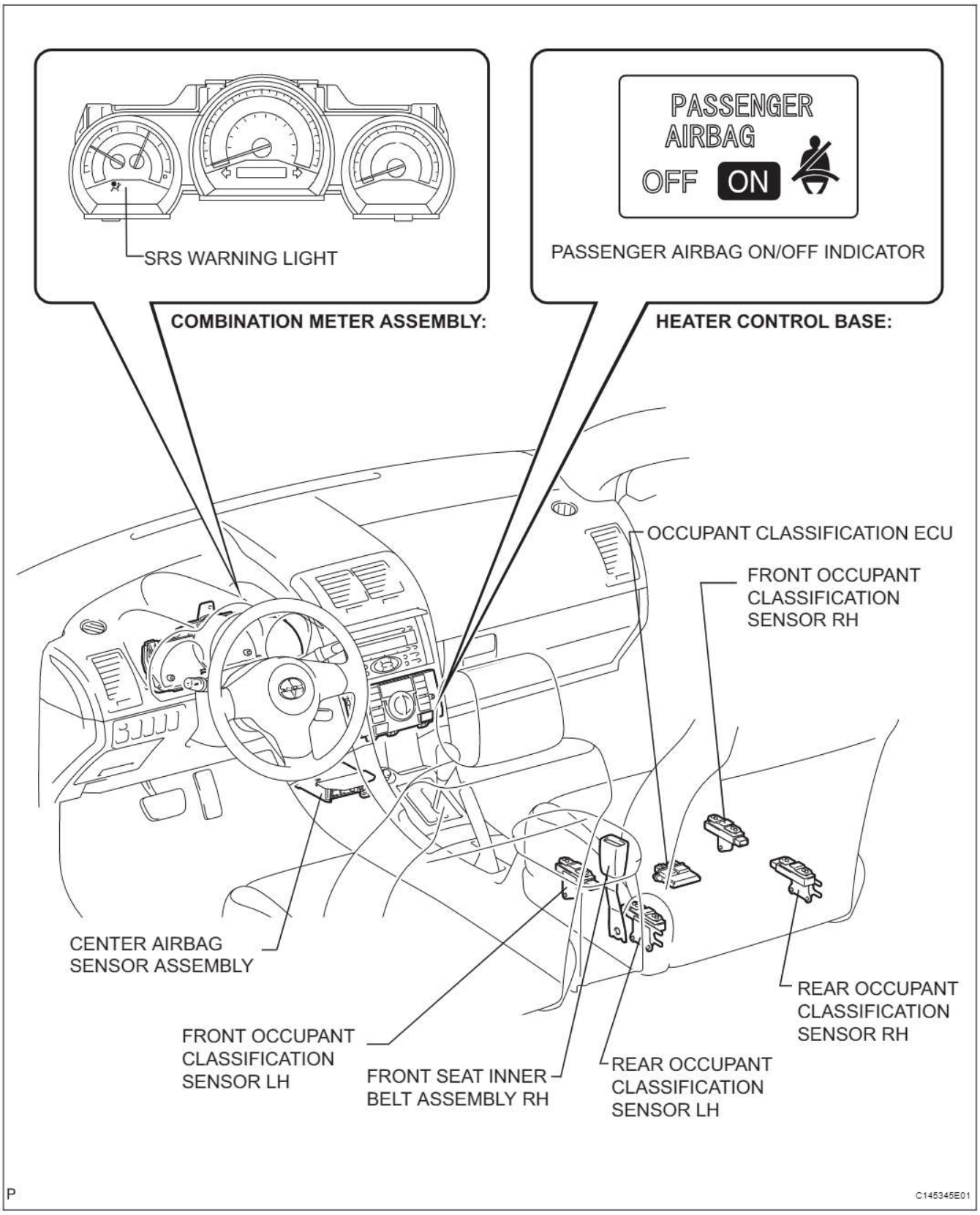
| System Name | See procedure |
|---|---|
| Power Window Control System (w/ Jam Protection Function) | IN-23 |
| Sliding Roof System | |

### 1. INSPECTION PROCEDURE FOR VEHICLE INVOLVED IN ACCIDENT

(a) Perform 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.

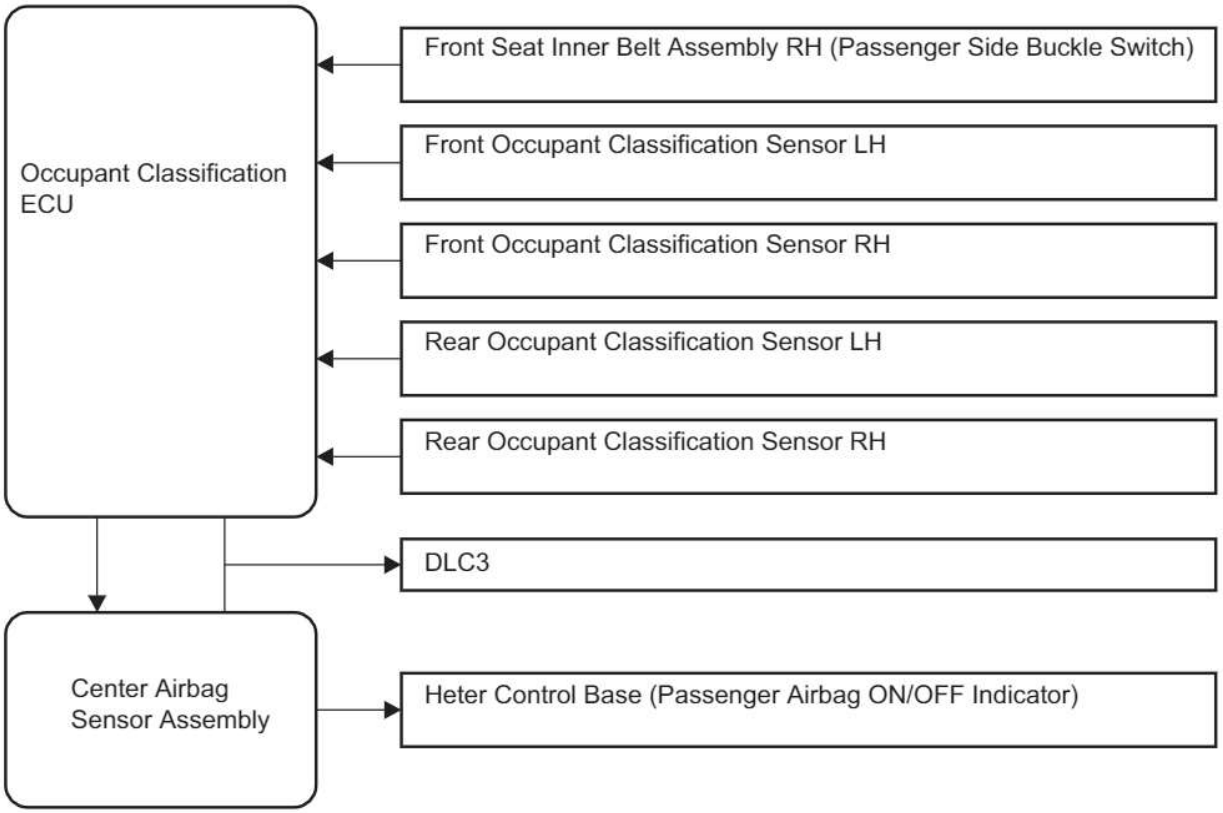
**NOTICE:**
**When an accident vehicle is brought into the workshop for repair, check the flatness of the body side that is equipped with the passenger seat. If the flatness is not within +- 3.0 mm (0.118 in.), adjust it to the specified range.**

# PARTS LOCATION



RS

# SYSTEM DIAGRAM



# SYSTEM DESCRIPTION

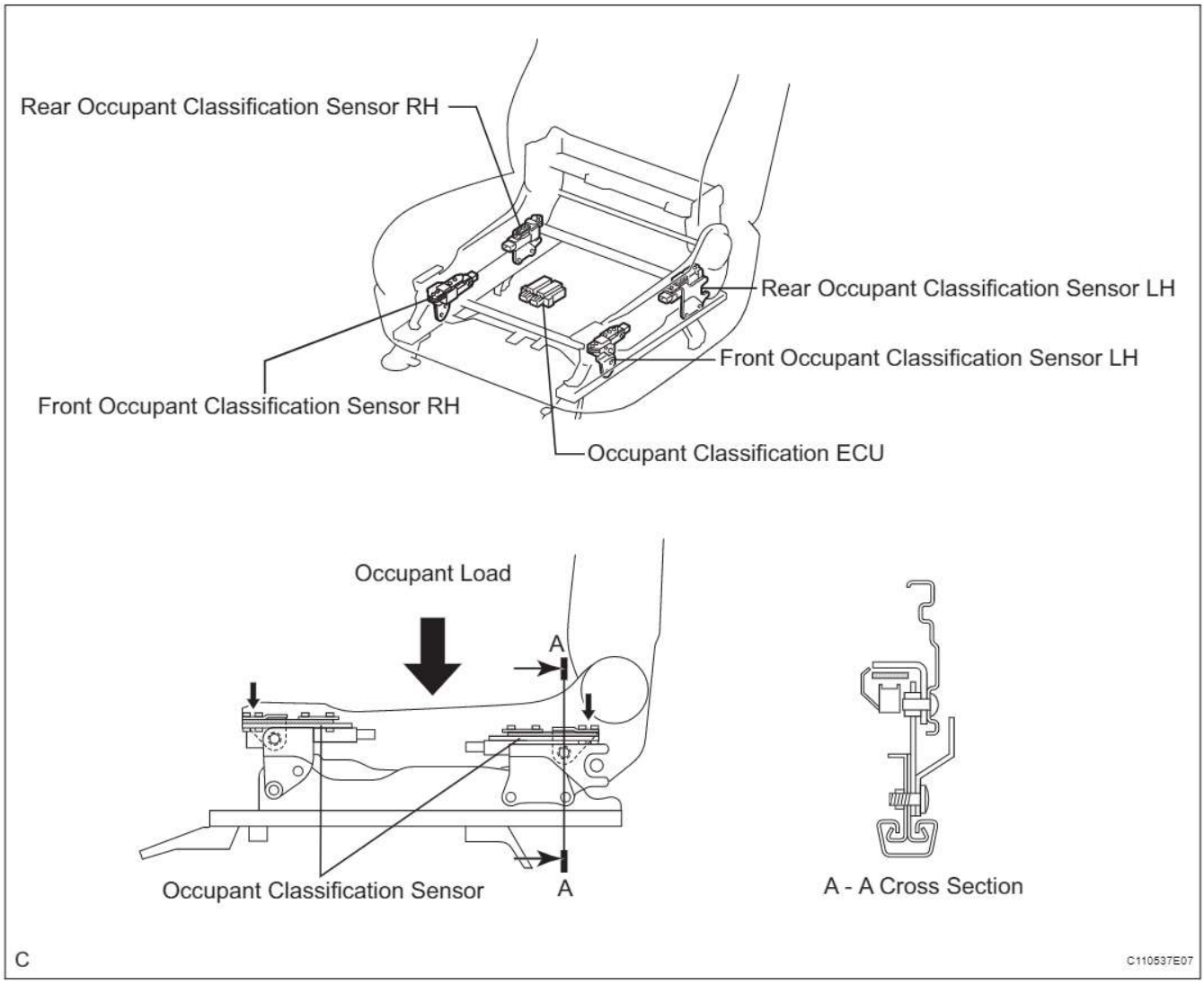
## 1. DESCRIPTION OF OCCUPANT CLASSIFICATION SYSTEM

(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 as a child if it detects a weight of less than 36 kg (79.37 lb), and disables the front passenger airbag and front passenger side - side airbag.

(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 front passenger side - side airbag.

(b) OCCUPANT CLASSIFICATION SENSOR






(1) The occupant classification sensors are installed on the 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 heater control base. This indicator informs the driver whether the occupant classification ECU puts the front passenger airbag and front passenger side - side airbag 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 come 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

(a) Confirm problem symptoms (See page IN-26).

NEXT

**3** PASSENGER AIRBAG ON/OFF INDICATOR CHECK

NEXT

**4** CHECK DTCs (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 DTCs.

NEXT

RS

| 9 | CHECK DTCs (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 operates 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

# INITIALIZATION

## 1. ZERO POINT CALIBRATION

**NOTICE:**

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

HINT:

Perform 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 a workshop for repair due to an accident or a collision.

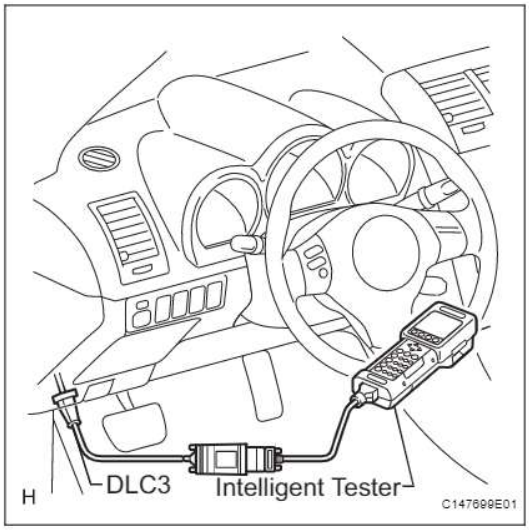
(a) Zero point calibration and sensitivity check procedures.

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.

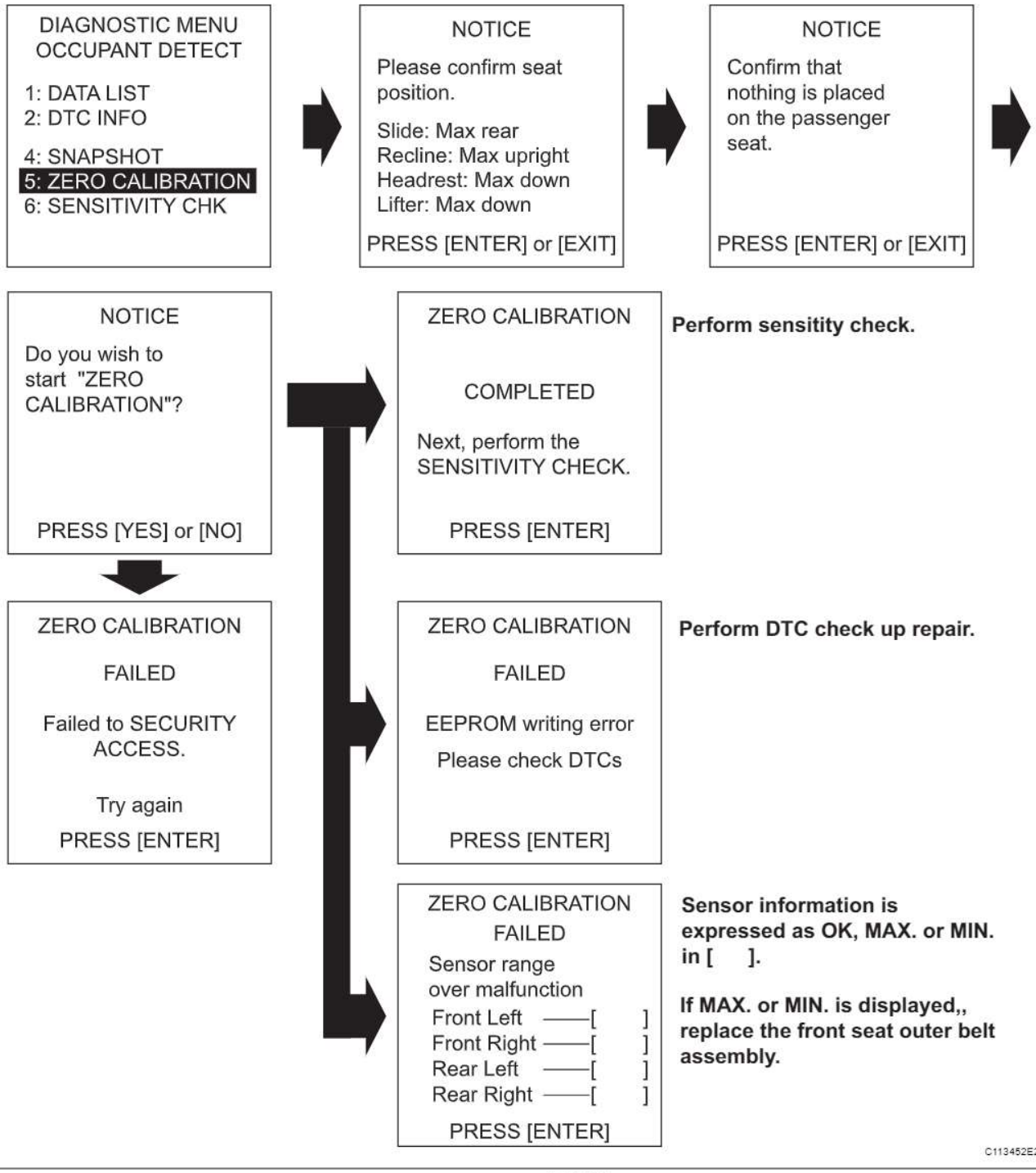
(3) Turn the ignition switch to the ON position.

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

**ZERO POINT CALIBRATION PROCEDURE**

"1: DIAGNOSIS" - "1: OBD/MOBD" - "MODEL YEAR" - "MODEL SELECTION" - "9: OCCUPANT DETECT"

Refer to the following screen flow.




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

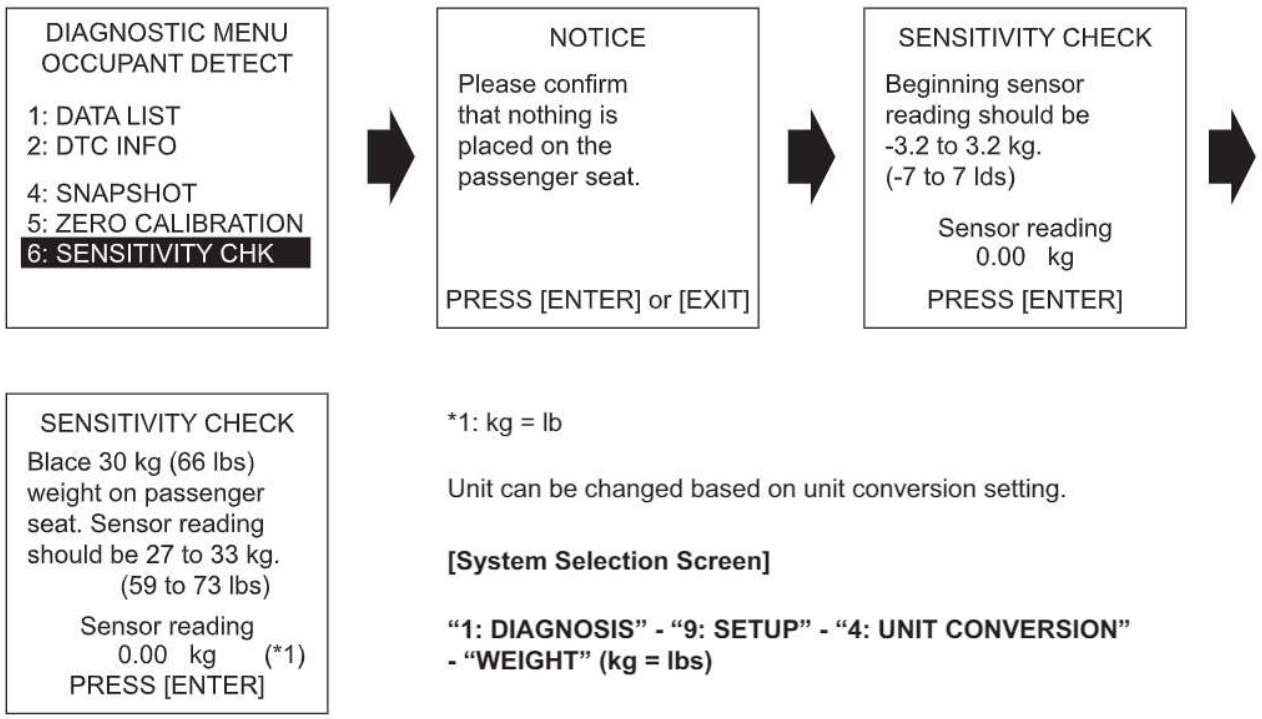
**OK:**
**"COMPLETE" is displayed.**

(5) Perform 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.



**SENSITIVITY CHECK PROCEDURE**

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




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

- When performing 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 without deforming 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.

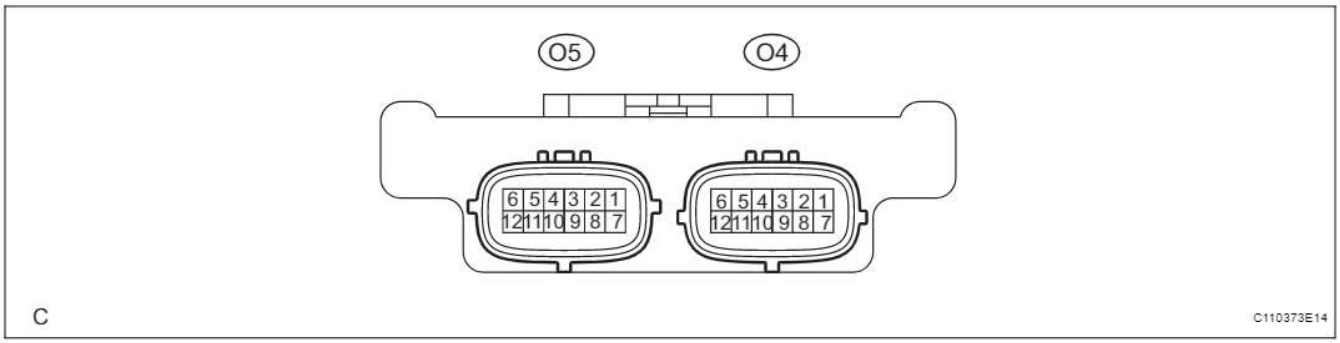
## OCCUPANT CLASSIFICATION SYSTEM:

| Symptom | Suspected Area | See page |
|---|---|---|
| The front passenger seat condition differs from the indication of the passenger airbag ON/OFF indicator (DTC is not output). | Trouble in Passenger Airbag ON/OFF Indicator | RS-336 |

RS

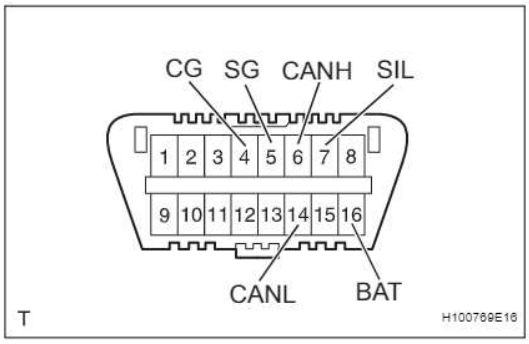
# TERMINALS OF ECU

## 1. OCCUPANT CLASSIFICATION ECU




| Symbols (Terminal No.) | Wiring Color | Terminal Description | Condition | Specification |
|---|---|---|---|---|
| +B (O4-1) - GND (O4-3) | G - W-B | Power source (ECU-B Fuse) | Always | 10 to 14 V |
| DIA (O4-2) - GND (O4-3) | W - W-B | Diagnosis (DLC3) | IG switch ON | Pulse generation |
| GND (O4-3) - Body ground | W-B - Body ground | Ground | Always | Below 1 Ω |
| FSR- (O4-4) - GND (O4-3) | R - W-B | Center airbag sensor assembly communication line (-) | Always | Below 1 Ω |
| BGND (O4-5) - GND (O4-3) | GR - W-B | Passenger side buckle switch ground line | Always | Below 1 Ω |
| IG (O4-7) - GND (O4-3) | LG - W-B | Power source (IG2 Fuse) | IG switch ON | 10 to 14 V |
| FSR+ (O4-8) - FSR- (O4-4) | L - B | Center airbag sensor assembly communication line | IG switch ON | Pulse generation |
| BSW (O4-9) - BGND (O4-5) | B - GR | Passenger side buckle switch line | Buckle switch ON<br>Buckle switch OFF | Pulse generation |
| SGD1 (O5-1) - GND (O4-3) | G - W-B | Occupant classification sensor front LH ground line | Always | Below 1 Ω |
| SGD2 (O5-2) - GND (O4-3) | O - W-B | Occupant classification sensor front RH ground line | Always | Below 1 Ω |
| SGD3 (O5-3) - GND (O4-3) | W - W-B | Occupant classification sensor rear LH ground line | Always | Below 1 Ω |
| SGD4 (O5-4) - GND (O4-3) | BR - W-B | Occupant classification sensor rear RH ground line | Always | Below 1 Ω |
| SVC3 (O5-5) - SGD3 (O5-3) | 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 (O5-6) - SGD4 (O5-4) | 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 (O5-7) - SGD1 (O5-1) | 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 (O5-8) - SGD2 (O5-2) | 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 |

| Symbols (Terminal No.) | Wiring Color | Terminal Description | Condition | Specification |
|---|---|---|---|---|
| SIG3 (O5-9) - SGD3 (O5-3) | 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 (O5-10) - SGD4 (O5-4) | 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 (O5-11) - SGD1 (O5-1) | 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 (O5-12) - SGD2 (O5-2) | 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 |

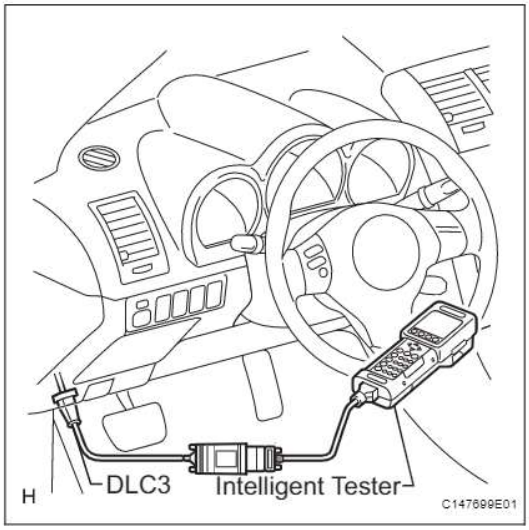



# DIAGNOSIS SYSTEM

**1. CHECK DLC3**

(a) The ECM uses ISO 15765-4 for communication. The terminal arrangement of the DLC3 complies with SAE J1962 and matches the ISO 15765-4 format.

| Symbols (Terminal No.) | Terminal Description | Condition | Pulse 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 | 10 to 14 V |



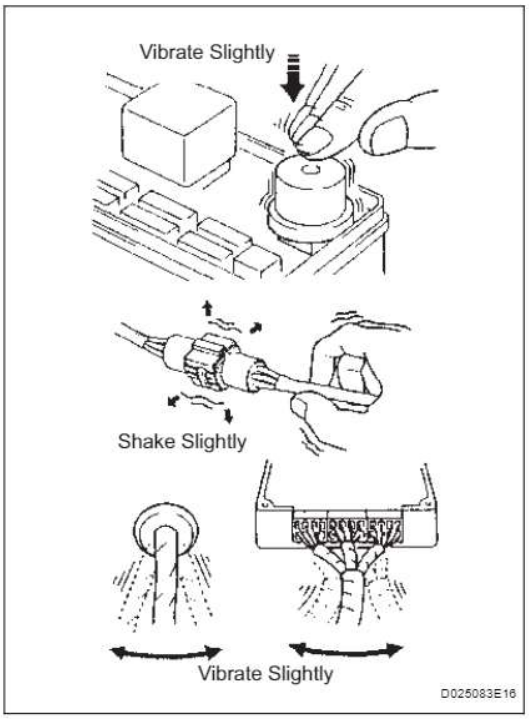

If the result is not as specified, the DLC3 may have a malfunction. Repair or replace the harness and connector.

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 tester side.

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

RS




**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 troubleshooting 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 B1794:

Turn the ignition switch from the LOCK to the ON position, hold it for 10 seconds, and back to off again 50 times in a row.

HINT:

DTC B1794 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.

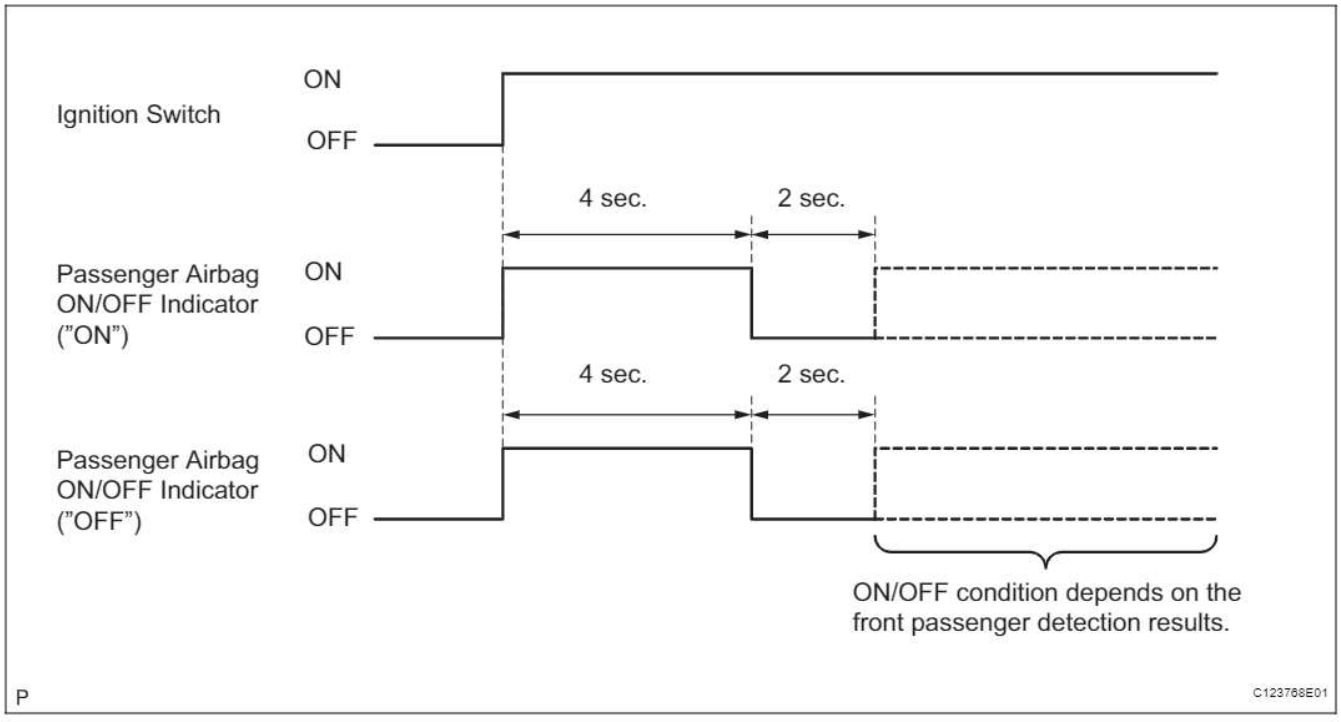
(2) The passenger airbag ON/OFF indicator ("ON" and "OFF") comes on for approximately 4 seconds, then goes off for approximately 2 seconds.

(3) Approximately 6 seconds after the ignition switch is turned to the ON position, the passenger airbag ON/OFF indicator will show ON or OFF depending on the conditions listed below.

| Condition | Passenger airbag ON/OFF indicator | | SRS Warning light |
|---|---|---|---|
| | ON Indicator | OFF Indicator | |
| Vacant | OFF | OFF | OFF |
| Adult is seated. | ON | OFF | OFF |
| Child is seated. | OFF | ON | OFF |
| Child restraint system is set. | OFF | ON | OFF |
| Front passenger occupant classification system failure | OFF | ON | 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 occupant classification system has trouble, both the SRS warning light and the passenger airbag ON/OFF indicator ("OFF") come on. In this case, check for DTCs in "AIRBAG SYSTEM" first.






**4. CHECK PASSENGER AIRBAG ON/OFF INDICATOR**

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

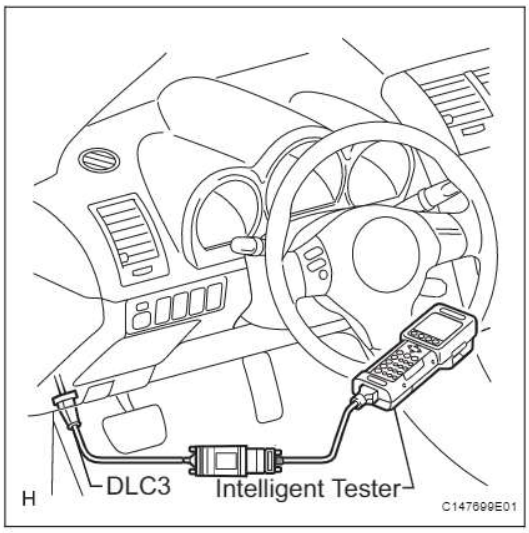
(b) Check that the passenger airbag ON/OFF indicator ("ON" and "OFF") comes on for approximately 4 seconds, then goes off for approximately 2 seconds.
HINT:
Refer to the table in the previous step regarding the passenger airbag ON/OFF indicator when the ignition switch is turned to the ON position and approximately 6 seconds pass.

# DTC CHECK / CLEAR

**1. DTC CHECK**

HINT:

- When DTC B1650/32 is detected as a result of troubleshooting for AIRBAG SYSTEM, perform troubleshooting for OCCUPANT CLASSIFICATION SYSTEM.
- Use the intelligent tester to read and clear DTCs, otherwise the DTCs cannot be read and cleared.




(a) Check for 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.

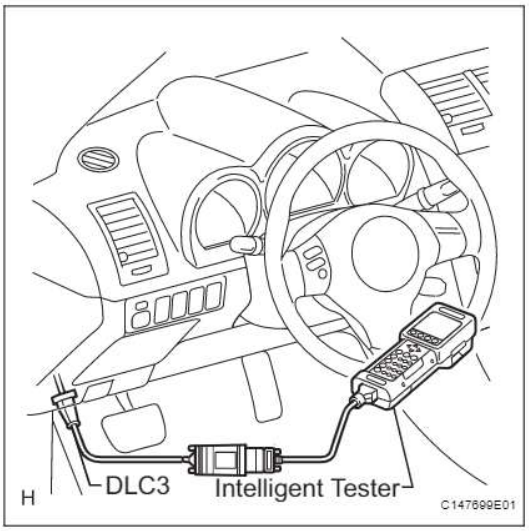
HINT:

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

RS

# DATA LIST / ACTIVE TEST

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

| Tester Display | Measurement Item/Range | Normal Condition | Diagnostic Note |
|---|---|---|---|
| IG SW | Ignition switch condition/<br>ON: Ignition switch ON<br>OFF: Ignition switch OFF | ON/OFF | - |
| PASSENGER CLASS | Passenger classification/<br>AM50: Adult (more than 54 kg (119.05 lb)) is seated<br>AF05: Adult (36 to 54 kg (79.37 to 119.05 lb)) is seated<br>CHILD: Child (less than 36 kg (79.37 lb)) is seated<br>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) of weight is applied<br>OFF: Vacant | AM50/AF05/CHILD/CRS/OFF | - |
| SENS RANGE INF | Sensor range information/<br>OK: The value of a sensor is within the range<br>NG: The value of a sensor is over the range | OK | - |
| FL SENS RANGE | Front left sensor range information/<br>OK: Sensor range is -17 to 27 kg (-37.48 to 59.52 lb)<br>Min.: Less than -17 kg (-37.48 lb)<br>Max.: More than 27 kg (59.52 lb) | OK | - |
| FR SENS RANGE | Front right sensor range information/<br>OK: Sensor range is -17 to 27 kg (-37.48 to 59.52 lb)<br>Min.: Less than -17 kg (-37.48 lb)<br>Max.: More than 27 kg (59.52 lb) | OK | - |

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

# DIAGNOSTIC TROUBLE CODE CHART

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

## OCCUPANT CLASSIFICATION SYSTEM:

RS

| DTC Code | Detection Item | Trouble Area | Passenger airbag ON/ OFF Indicator (OFF Indicator) | See page |
|---|---|---|---|---|
| B1771 | Passenger Side Buckle Switch Circuit Malfunction | 1. Front seat inner belt assembly RH (Passenger side buckle switch)<br>2. Occupant classification ECU<br>3. Front seat wire RH | ON | RS-262 |
| B1780 | Front Occupant Classification Sensor LH Circuit Malfunction | 1. Front seat assembly RH (Front occupant classification sensor LH)<br>2. Occupant classification ECU<br>3. Front seat wire RH | ON | RS-269 |
| B1781 | Front Occupant Classification Sensor RH Circuit Malfunction | 1. Front seat assembly RH (Front occupant classification sensor RH)<br>2. Occupant classification ECU<br>3. Front seat wire RH | ON | RS-276 |
| B1782 | Rear Occupant Classification Sensor LH Circuit Malfunction | 1. Front seat assembly RH (Rear occupant classification sensor LH)<br>2. Occupant classification ECU<br>3. Front seat wire RH | ON | RS-283 |
| B1783 | Rear Occupant Classification Sensor RH Circuit Malfunction | 1. Front seat assembly RH (Rear occupant classification sensor RH)<br>2. Occupant classification ECU<br>3. Front seat wire RH | ON | RS-290 |
| B1785 | Front Occupant Classification Sensor LH Collision Detection | 1. Front seat assembly RH (Front occupant classification sensor LH)<br>2. Occupant classification ECU | ON | RS-297 |
| B1786 | Front Occupant Classification Sensor RH Collision Detection | 1. Front seat assembly RH (Front occupant classification sensor RH)<br>2. Occupant classification ECU | ON | RS-301 |
| B1787 | Rear Occupant Classification Sensor LH Collision Detection | 1. Front seat assembly RH (Rear occupant classification sensor LH)<br>2. Occupant classification ECU | ON | RS-305 |
| B1788 | Rear Occupant Classification Sensor RH Collision Detection | 1. Front seat assembly RH (Rear occupant classification sensor RH)<br>2. Occupant classification ECU | ON | RS-309 |
| B1790 | Center Airbag Sensor Assembly Communication Circuit Malfunction | 1. Occupant classification ECU<br>2. Center airbag sensor assembly<br>3. Floor wire No. 2 | ON | RS-313 |
| B1793 | Occupant Classification Sensor Power Supply Circuit Malfunction | 1. Front seat assembly RH (Occupant classification sensors)<br>2. Occupant classification ECU<br>3. Front seat wire RH | ON | RS-320 |
| B1794 | Open in Occupant Classification ECU Battery Positive Line | 1. Battery<br>2. ECU-B Fuse<br>3. Floor wire No. 2<br>4. Occupant classification ECU | ON | RS-327 |
| B1795 | Occupant Classification ECU Malfunction | 1. Battery<br>2. ECU-B Fuse<br>3. Floor wire No. 2<br>4. Front seat inner belt assembly RH (Passenger side buckle switch)<br>5. Occupant classification ECU | ON | RS-331 |
| B1796 | Sleep Operation Failure of Occupant Classification ECU | Occupant classification ECU | ON | RS-334 |

| DTC | B1771 | Passenger Side Buckle Switch Circuit Malfunction |
|---|---|---|

## DESCRIPTION

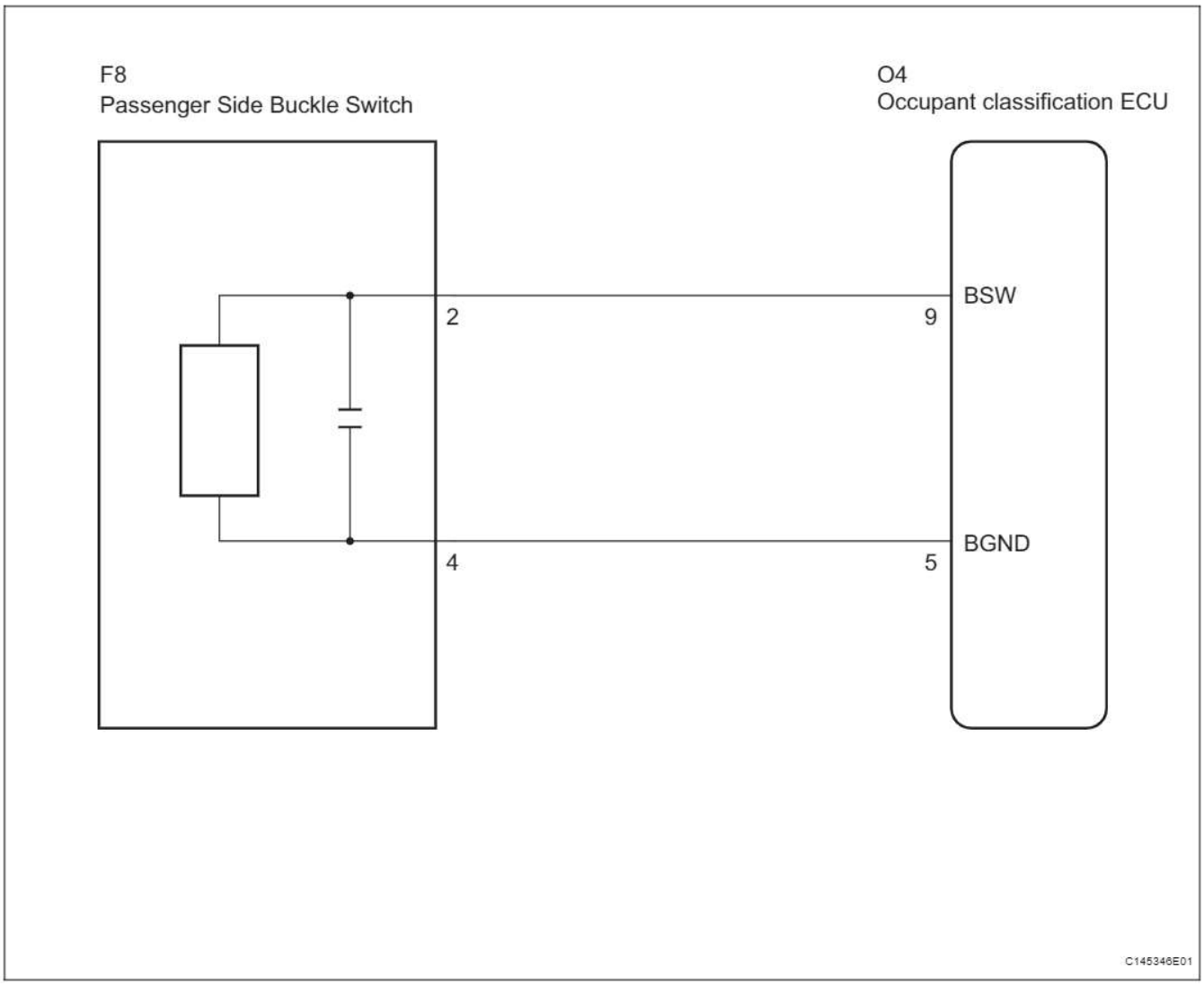
The passenger side buckle switch circuit consists of the occupant classification ECU and the front seat inner belt assembly RH.
DTC B1771 is recorded when a malfunction is detected in the passenger side buckle switch circuit.
Troubleshoot DTC B1771 first when DTCs B1771 and B1795 are output simultaneously.



| 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.<br>• Passenger side buckle switch malfunction<br>• Occupant classification ECU malfunction | • Front seat inner belt assembly RH<br>• Occupant classification ECU<br>• Front seat wire RH |

HINT:
When DTC B1650/32 is detected as a result of troubleshooting for "AIRBAG SYSTEM", check the DTCs stored in the occupant classification ECU. When DTC B1771 is output, perform troubleshooting for the DTC.

## WIRING DIAGRAM




## INSPECTION PROCEDURE

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 the memory (See page RS-257).
HINT:
First clear the 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-257).

**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.

NG → **Go to step 2**

RS

OK

**USE SIMULATION METHOD TO CHECK**

## 2 CHECK CONNECTION OF CONNECTORS

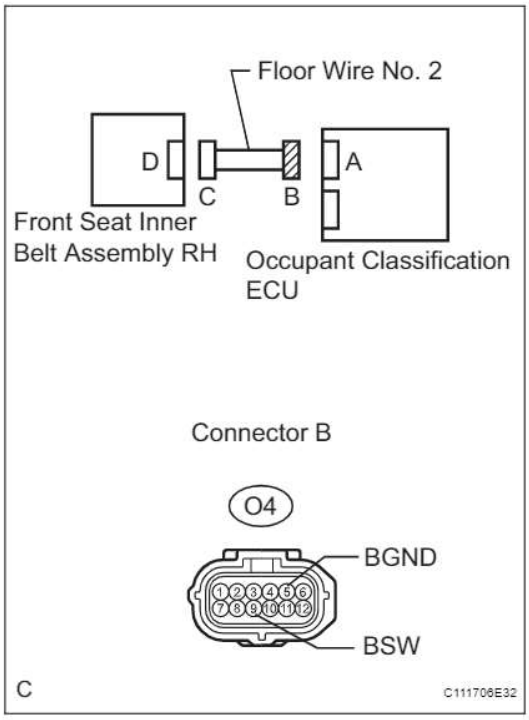
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery.
(c) Check that the connectors are properly connected to the occupant classification ECU and the front seat inner belt assembly RH.

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

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

OK

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




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

**Standard voltage**

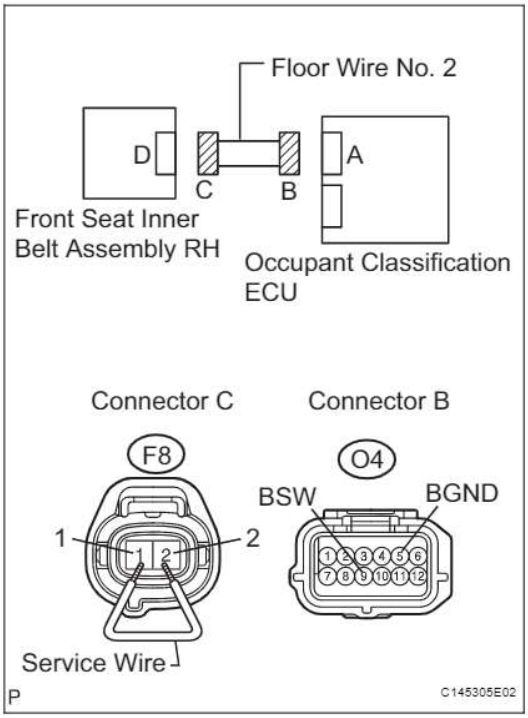
| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O4-9 (BSW) - Body ground | Ignition switch ON | Below 1 V |
| O4-5 (BGND) - Body ground | Ignition switch ON | Below 1 V |

NG → **REPLACE FLOOR WIRE NO. 2**

OK

## 4 CHECK FLOOR WIRE NO. 2 (OPEN)

RS



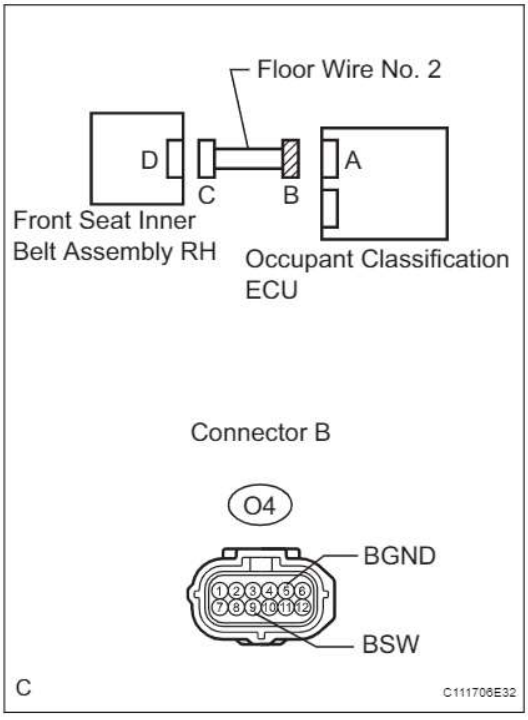

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery.
(c) Using a service wire, connect terminals 2 and 1 of connector C.
**NOTICE:**
**Do not forcibly insert a service wire into the terminals of the connector when connecting.**
(d) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O4-9 (BSW) - O4-5 (BGND) | Always | Below 1 Ω |

NG → REPLACE FLOOR WIRE NO. 2

OK

## 5 CHECK FLOOR WIRE NO. 2 (SHORT)



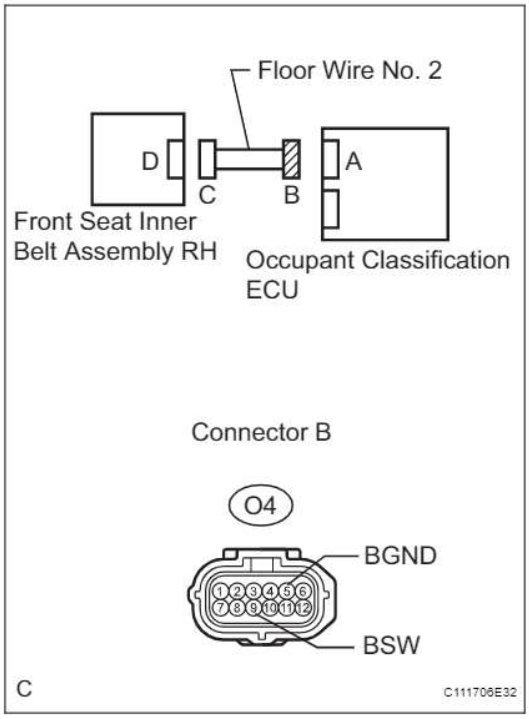

(a) Disconnect the service wire from connector C.
(b) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O4-9 (BSW) - O4-5 (BGND) | Always | 1 MΩ or higher |

NG → REPLACE FLOOR WIRE NO. 2

OK

| 6 | CHECK FLOOR WIRE NO. 2 (SHORT TO GROUND) |
|---|---|




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

**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O4-9 (BSW) - Body ground | Always | 1 MΩ or higher |
| O4-5 (BGND) - Body ground | Always | 1 MΩ or higher |

NG → REPLACE FLOOR WIRE NO. 2

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 the memory (See page RS-257).
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-257).
**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.

NG → Go to step 8

OK

USE SIMULATION METHOD TO CHECK

RS

| 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-5).
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 the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → **Go to step 9**

OK

END

| 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-407).

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-250).
**OK:**
**"COMPLETED" is displayed.**

NEXT



| 11 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

NEXT

END

| DTC | B1780 | Front Occupant Classification Sensor LH Circuit Malfunction |
|---|---|---|

## DESCRIPTION

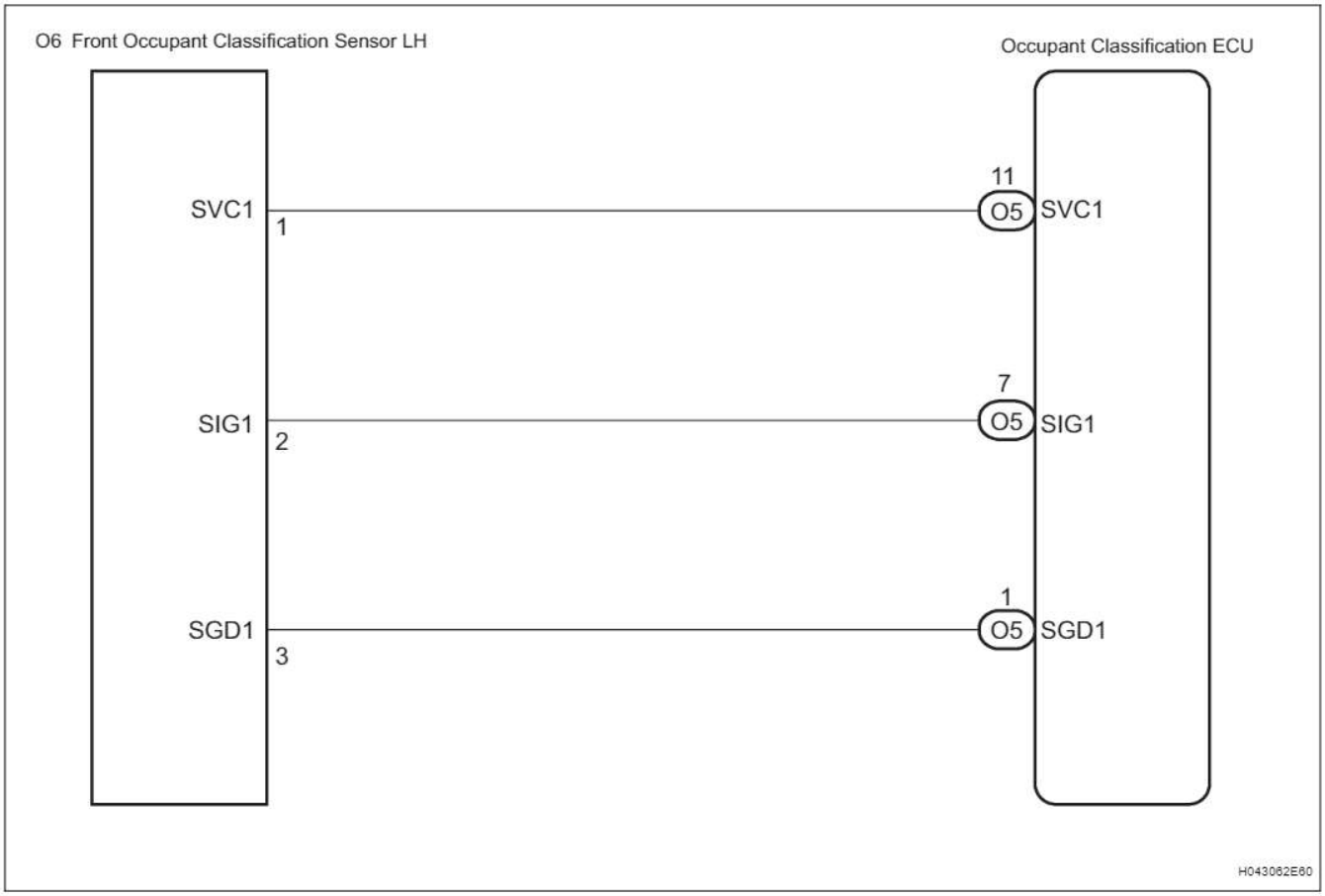
RS

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.<br>• Front occupant classification sensor LH malfunction<br>• Occupant classification ECU malfunction | • Front seat assembly RH (Front occupant classification sensor LH)<br>• Occupant classification ECU<br>• Front seat wire RH |

HINT:
When DTC B1650/32 is detected as a result of troubleshooting for "AIRBAG SYSTEM", check the DTCs stored in the occupant classification ECU. When DTC B1780 is output, perform troubleshooting for the DTC.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

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 the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → **Go to step 2**

OK ↓

**USE SIMULATION METHOD TO CHECK**

**2 CHECK CONNECTION OF CONNECTORS**

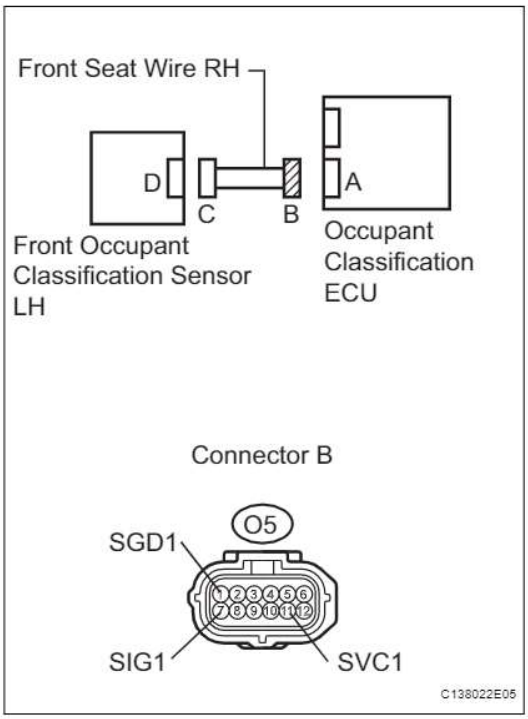
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery.
(c) Check that the connectors are properly connected to the occupant classification ECU and the front occupant classification sensor LH.
**OK:**
**The connectors are properly connected.**

NG → **CONNECT CONNECTOR PROPERLY, THEN GO TO STEP 1**

OK ↓

RS

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




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

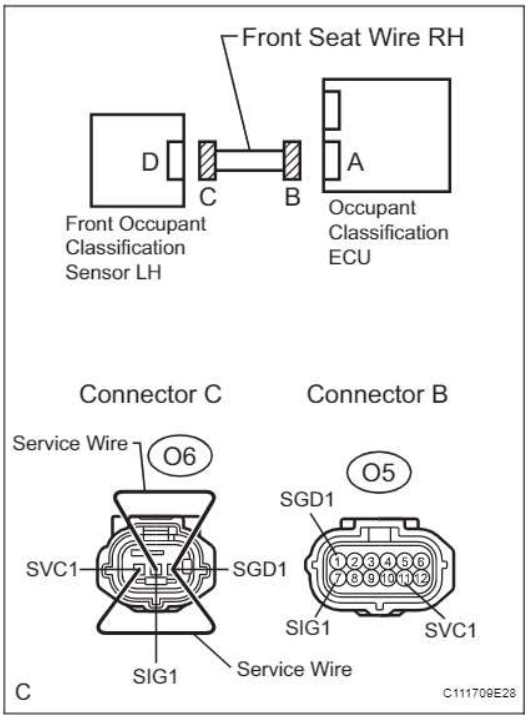
**Standard voltage**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-1 (SGD1) - Body ground | Ignition switch ON | Below 1 V |
| O5-7 (SIG1) - Body ground | Ignition switch ON | Below 1 V |
| O5-11 (SVC1) - Body ground | Ignition switch ON | Below 1 V |

NG → REPLACE FRONT SEAT WIRE RH

OK

## 4 CHECK FRONT SEAT WIRE RH (OPEN)




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

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

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

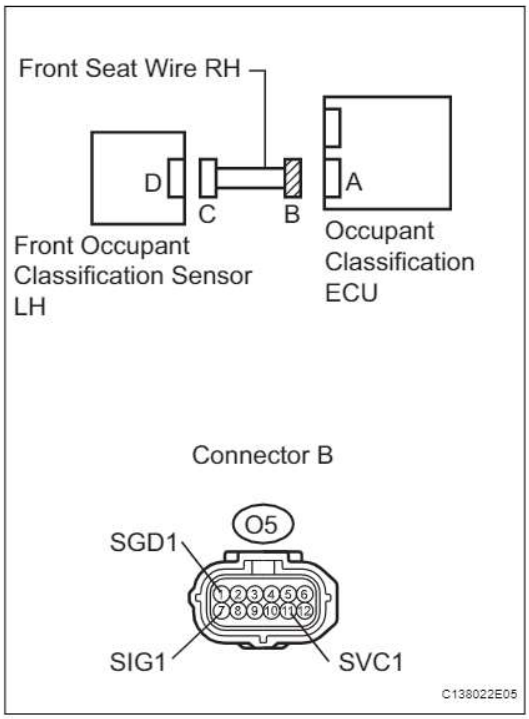
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-7 (SIG1) - O5-1 (SGD1) | Always | Below 1 Ω |
| O5-11 (SVC1) - O5-1 (SGD1) | Always | Below 1 Ω |

NG → 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.

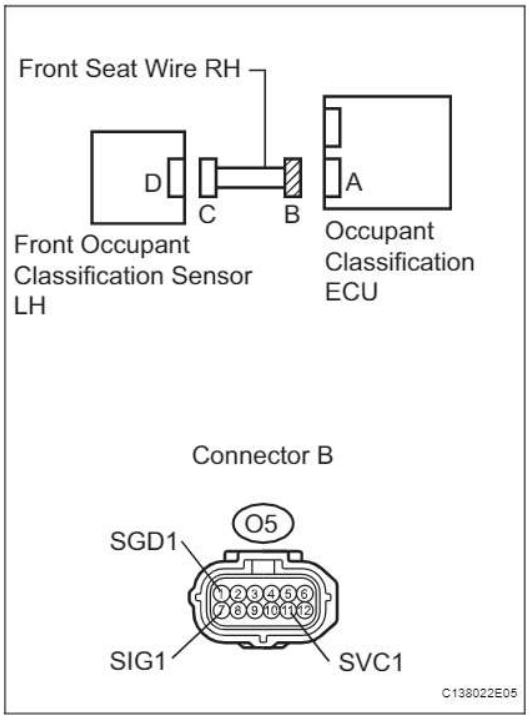
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-7 (SIG1) - O5-1 (SGD1) | Always | 1 MΩ or higher |
| O5-11 (SVC1) - O5-1 (SGD1) | Always | 1 MΩ or higher |
| O5-7 (SIG1) - O5-11 (SVC1) | Always | 1 MΩ or higher |

NG → 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.

**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-1 (SGD1) - Body ground | Always | 1 MΩ or higher |
| O5-7 (SIG1) - Body ground | Always | 1 MΩ or higher |
| O5-11 (SVC1) - Body ground | Always | 1 MΩ or higher |

NG → REPLACE FRONT SEAT WIRE RH

OK

RS

| 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 the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → **Go to step 8**

OK

**USE SIMULATION METHOD TO CHECK**

| 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-407).
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-250).
**OK:**
**"COMPLETED" is displayed.**

NG → **Go to step 12**

OK

| 10 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**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 the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → **Go to step 12**

OK

END

| 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-5).

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-250).
**OK:**
**"COMPLETED" is displayed.**

NEXT

RS

| 14 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

NEXT

END

| DTC | B1781 | Front Occupant Classification Sensor RH Circuit Malfunction |
|---|---|---|

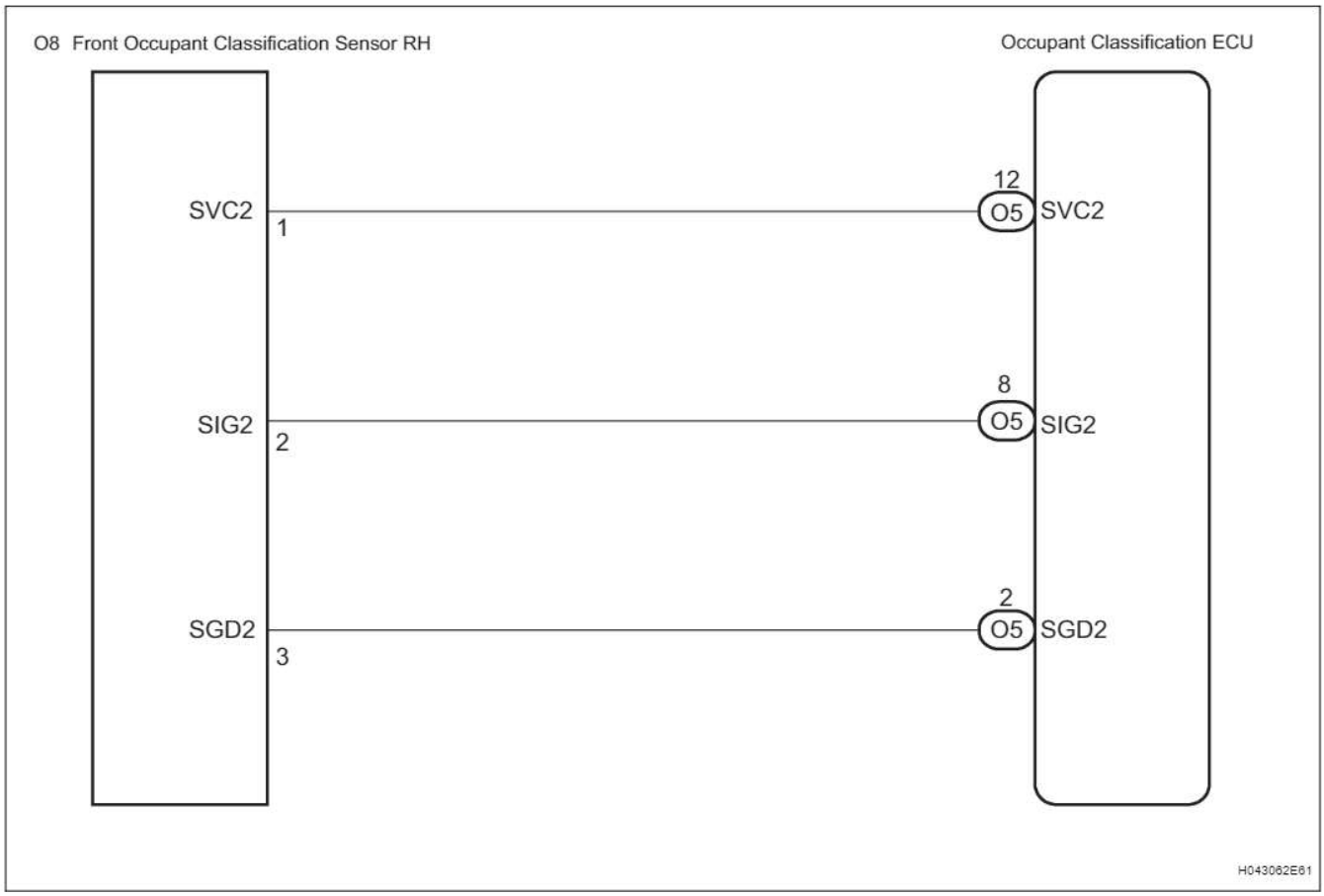
## DESCRIPTION

The front occupant classification sensor RH circuit consists of the occupant classification ECU and the front occupant classification sensor RH.
DTC B1781 is recorded when a malfunction is detected in the front occupant classification sensor RH circuit.

| DTC No. | DTC 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.<br>• Front occupant classification sensor RH malfunction<br>• Occupant classification ECU malfunction | • Front seat assembly RH (Front occupant classification sensor RH)<br>• Occupant classification ECU<br>• Front seat wire RH |

HINT:
When DTC B1650/32 is detected as a result of troubleshooting for "AIRBAG SYSTEM", check the DTCs stored in the occupant classification ECU. When DTC B1781 is output, perform troubleshooting for the DTC.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

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.

RS

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

(a) Turn the ignition switch to the ON position.
(b) Clear the DTCs stored in the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → **Go to step 2**

OK ↓

**USE SIMULATION METHOD TO CHECK**

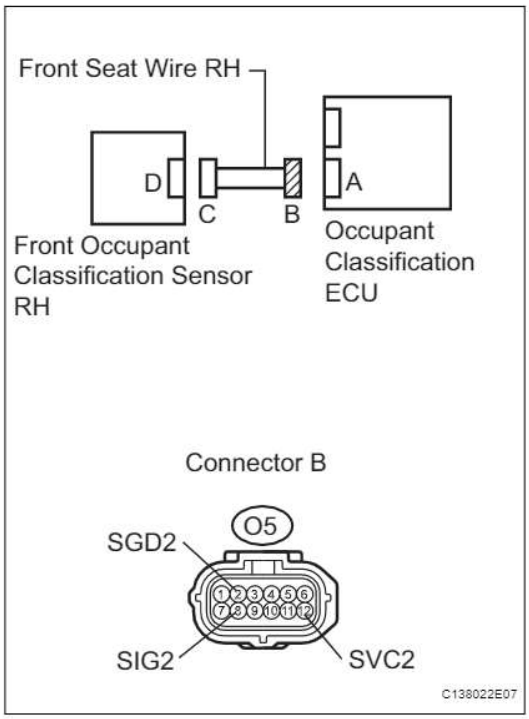
| 2 | CHECK CONNECTION OF CONNECTORS |
|---|---|

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

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

OK ↓

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




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

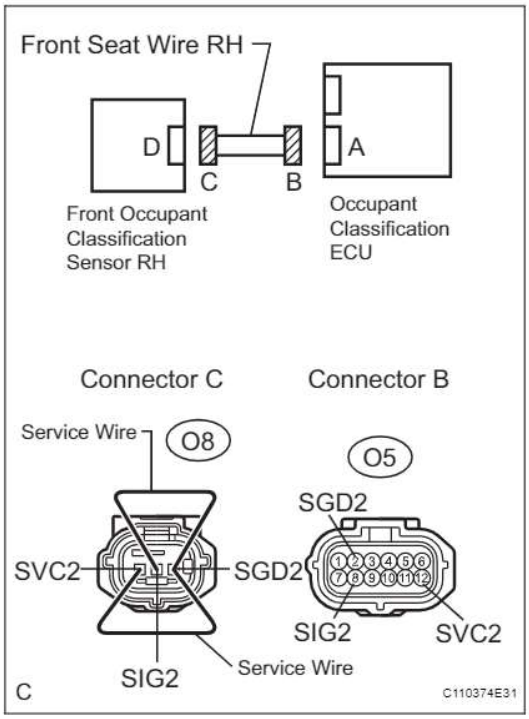
**Standard voltage**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-2 (SGD2) - Body ground | Ignition switch ON | Below 1 V |
| O5-8 (SIG2) - Body ground | Ignition switch ON | Below 1 V |
| O5-12 (SVC2) - Body ground | Ignition switch ON | Below 1 V |

NG → REPLACE FRONT SEAT WIRE RH

OK

## 4 CHECK FRONT SEAT WIRE RH (OPEN)




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

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

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

**Standard resistance**

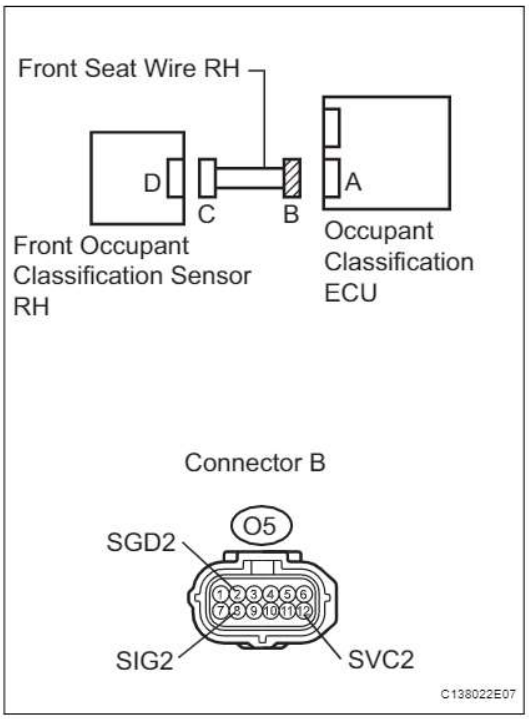
| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-8 (SIG2) - O5-2 (SGD2) | Always | Below 1 Ω |
| O5-12 (SVC2) - O5-2 (SGD2) | Always | Below 1 Ω |

NG → REPLACE FRONT SEAT WIRE RH

OK

RS

## 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.

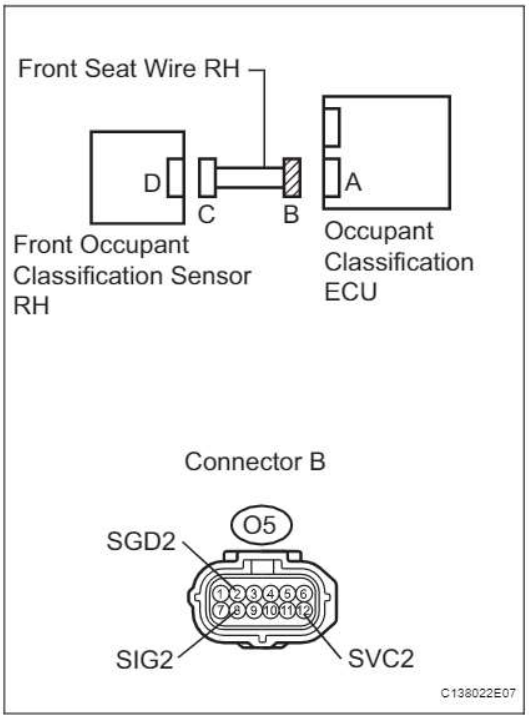
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-8 (SIG2) - O5-2 (SGD2) | Always | 1 MΩ or higher |
| O5-12 (SVC2) - O5-2 (SGD2) | Always | 1 MΩ or higher |
| O5-8 (SIG2) - O5-12 (SVC2) | Always | 1 MΩ or higher |

NG → 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.

**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-2 (SGD2) - Body ground | Always | 1 MΩ or higher |
| O5-8 (SIG2) - Body ground | Always | 1 MΩ or higher |
| O5-12 (SVC2) - Body ground | Always | 1 MΩ or higher |

NG → 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 the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

| NG | Go to step 8 |
|---|---|

OK

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

| 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-407).
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-250).
**OK:**
**"COMPLETED" is displayed.**

| NG | Go to step 12 |
|---|---|

OK

| 10 | PERFORM SENSITIVITY CHECK |
|---|---|

RS

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**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 the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → **Go to step 12**

OK

END

| 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-5).

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-250).
**OK:**
**"COMPLETED" is displayed.**

NEXT



| 14 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

NEXT

END

| DTC | B1782 | Rear Occupant Classification Sensor LH Circuit Malfunction |
|---|---|---|

## DESCRIPTION

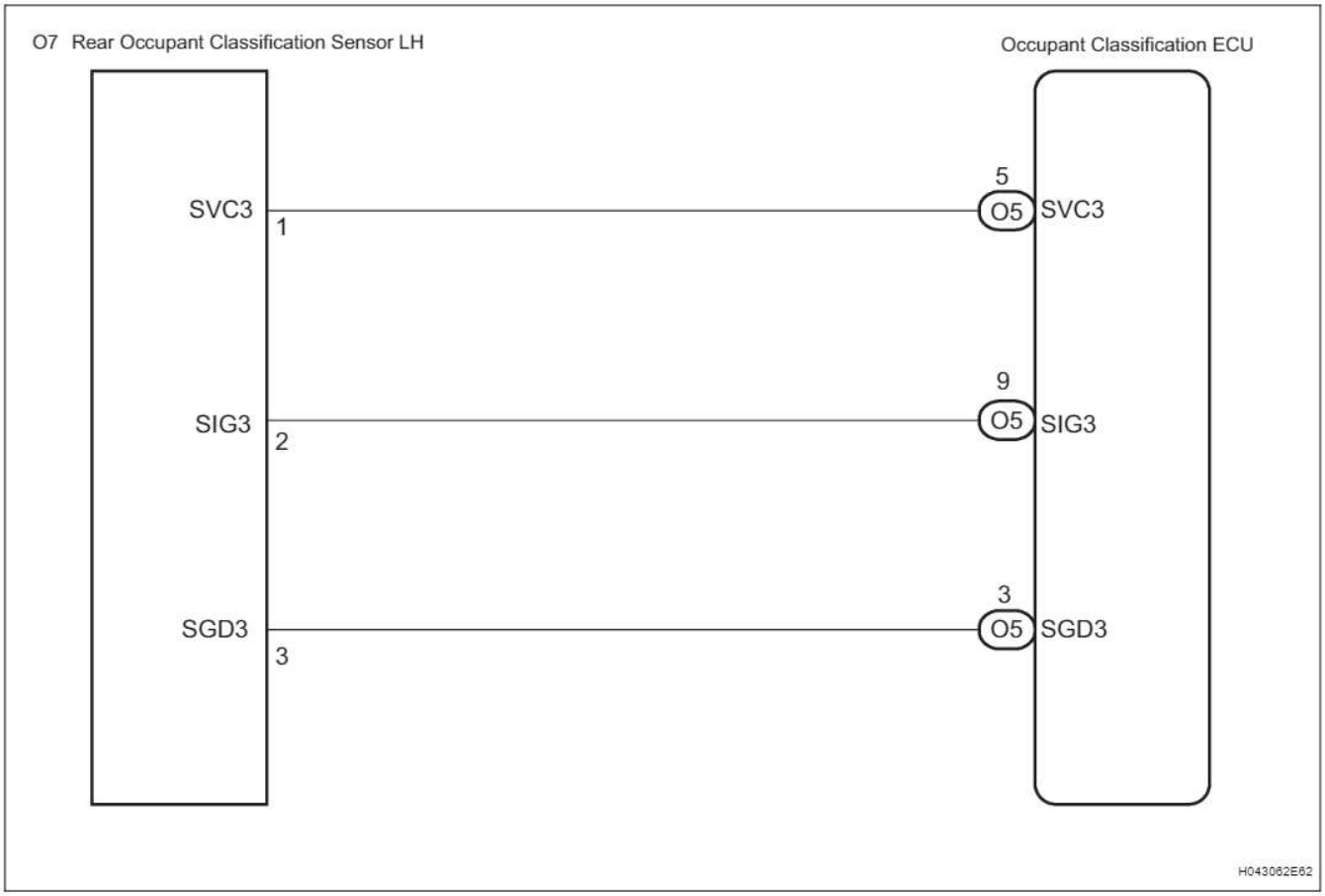
RS

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.<br>• Rear occupant classification sensor LH malfunction<br>• Occupant classification ECU malfunction | • Front seat assembly RH (Rear occupant classification sensor LH)<br>• Occupant classification ECU<br>• Front seat wire RH |

HINT:
When DTC B1650/32 is detected as a result of troubleshooting for "AIRBAG SYSTEM", check the DTCs stored in the occupant classification ECU. When DTC B1782 is output, perform troubleshooting for the DTC.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

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 the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → **Go to step 2**

OK ↓

**USE SIMULATION METHOD TO CHECK**

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

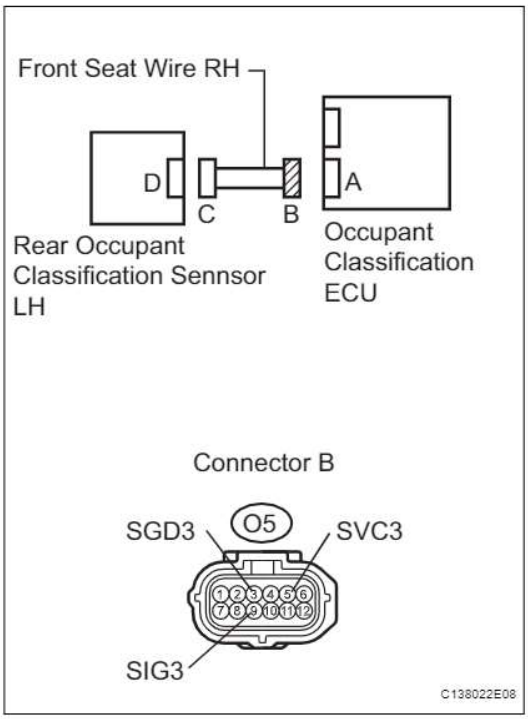
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery.
(c) Check that the connectors are properly connected to the occupant classification ECU and the rear occupant classification sensor LH.
**OK:**
**The connectors are properly connected.**

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

OK ↓

RS

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




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

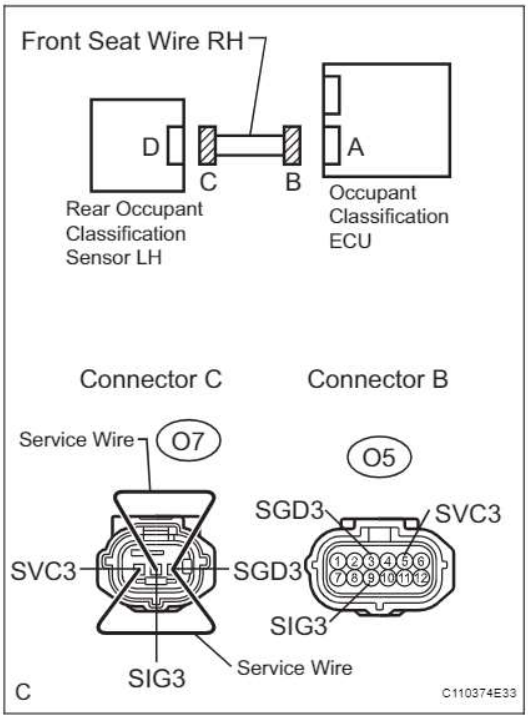
**Standard voltage**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-3 (SGD3) - Body ground | Ignition switch ON | Below 1 V |
| O5-5 (SVC3) - Body ground | Ignition switch ON | Below 1 V |
| O5-9 (SIG3) - Body ground | Ignition switch ON | Below 1 V |

NG → REPLACE FRONT SEAT WIRE RH

OK

## 4 CHECK FRONT SEAT WIRE RH (OPEN)




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

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

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

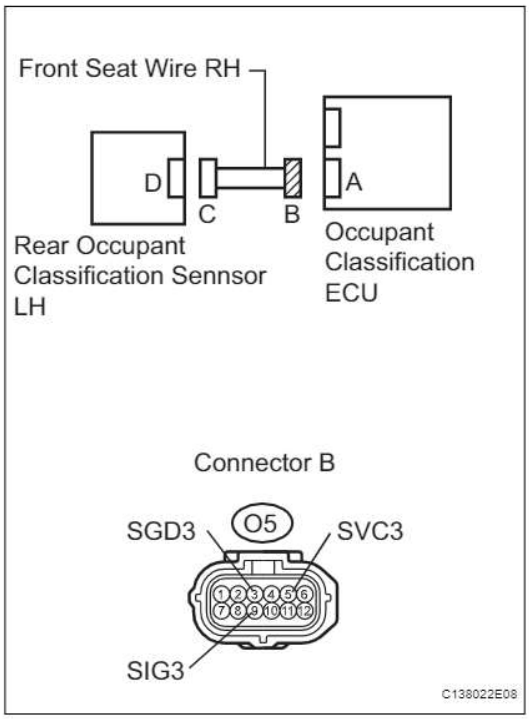
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-5 (SVC3) - O5-3 (SGD3) | Always | Below 1 Ω |
| O5-9 (SIG3) - O5-3 (SGD3) | Always | Below 1 Ω |

NG → 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.

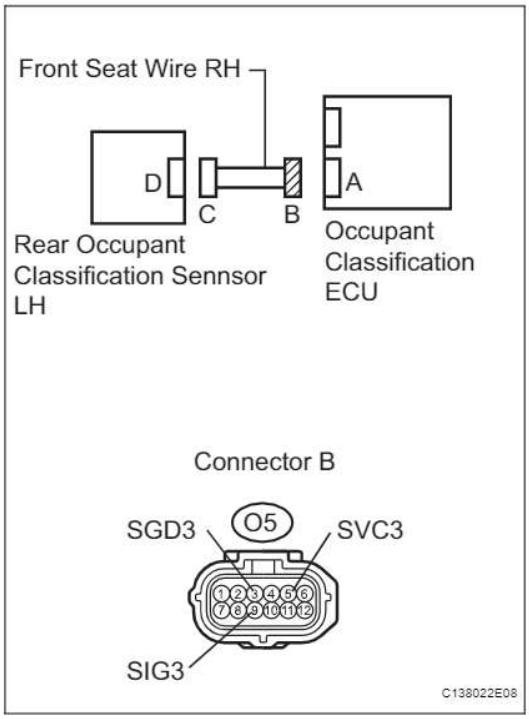
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-5 (SVC3) - O5-3 (SGD3) | Always | 1 MΩ or higher |
| O5-9 (SIG3) - O5-3 (SGD3) | Always | 1 MΩ or higher |
| O5-5 (SVC3) - O5-9 (SIG3) | Always | 1 MΩ or higher |

NG → 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.

**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-3 (SGD3) - Body ground | Always | 1 MΩ or higher |
| O5-5 (SVC3) - Body ground | Always | 1 MΩ or higher |
| O5-9 (SIG3) - Body ground | Always | 1 MΩ or higher |

NG → REPLACE FRONT SEAT WIRE RH

OK

RS

| 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 the memory (See page RS-257).
HINT:
First clear the 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-257).
**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 | Go to step 8 |
|---|---|

OK

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

| 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-407).
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-250).
**OK:**
**"COMPLETED" is displayed.**

| NG | Go to step 12 |
|---|---|

OK

| 10 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**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 the memory (See page RS-257).
HINT:
First clearthe 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-257).
**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.

NG → **Go to step 12**

OK

END

| 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-5).

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-250).
**OK:**
**"COMPLETED" is displayed.**

NEXT

RS

| 14 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

NEXT

END

| DTC | B1783 | Rear Occupant Classification Sensor RH Circuit Malfunction |
|---|---|---|

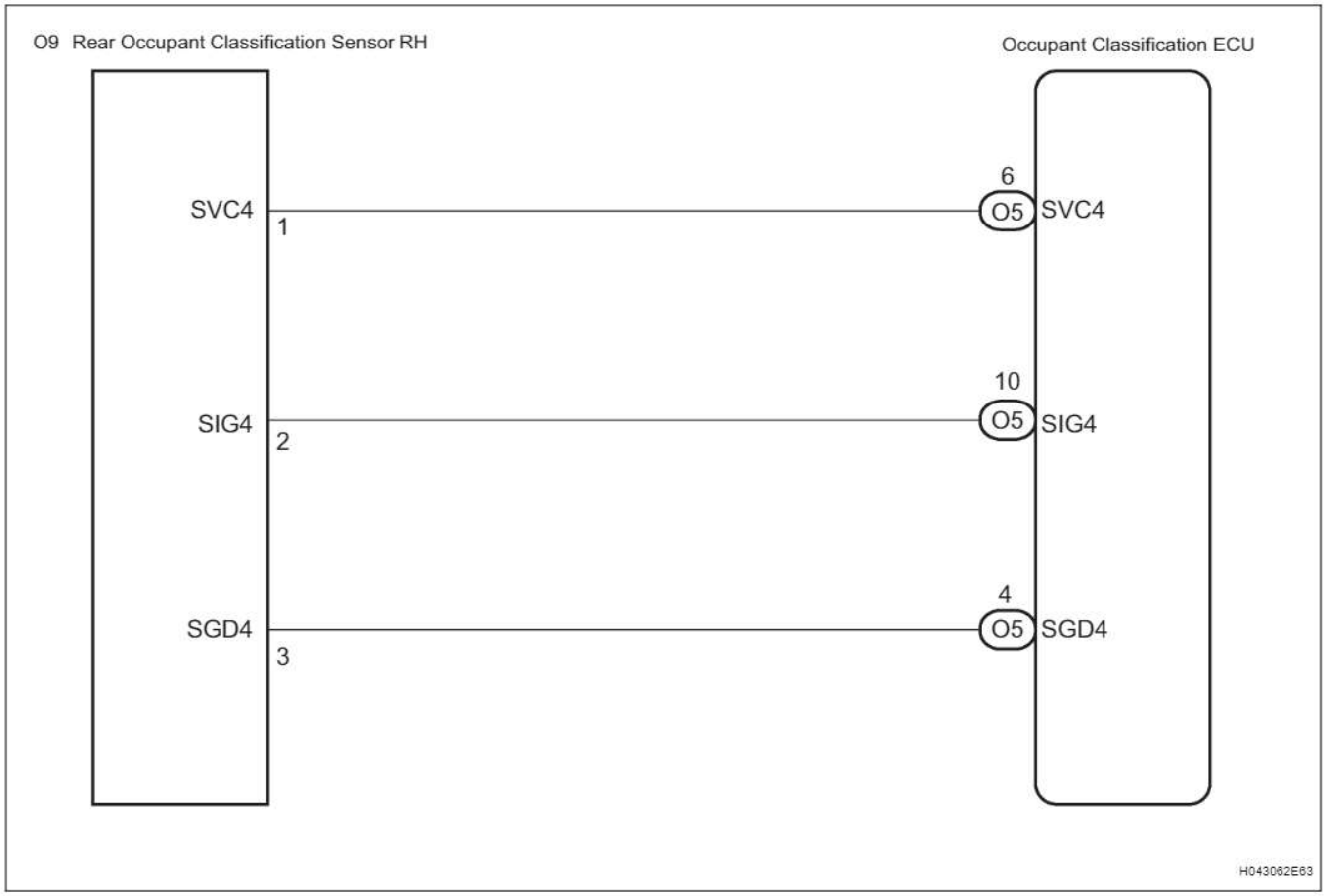
## DESCRIPTION

The rear occupant classification sensor RH circuit consists of the occupant classification ECU and the rear occupant classification sensor RH.
DTC B1783 is recorded when a malfunction is detected in the rear occupant classification sensor RH circuit.

| DTC No. | DTC 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.<br>• Rear occupant classification sensor RH malfunction<br>• Occupant classification ECU malfunction | • Front seat assembly RH (Rear occupant classification sensor RH)<br>• Occupant classification ECU<br>• Front seat wire RH |

HINT:
When DTC B1650/32 is detected as a result of troubleshooting for "AIRBAG SYSTEM", check the DTCs stored in the occupant classification ECU. When DTC B1783 is output, perform troubleshooting for the DTC.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

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.

RS

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

(a) Turn the ignition switch to the ON position.
(b) Clear the DTCs stored in the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → **Go to step 2**

OK ↓

**USE SIMULATION METHOD TO CHECK**

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

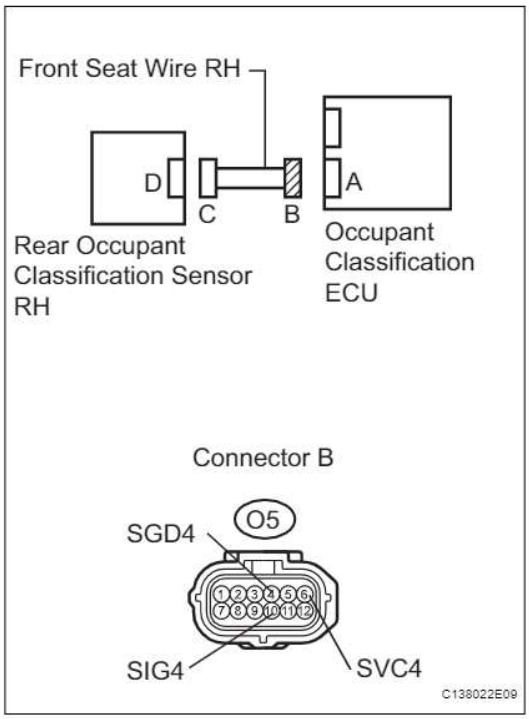
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery.
(c) Check that the connectors are properly connected to the occupant classification ECU and the rear occupant classification sensor RH.
**OK:**
**The connectors are properly connected.**

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

OK ↓

RS

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




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

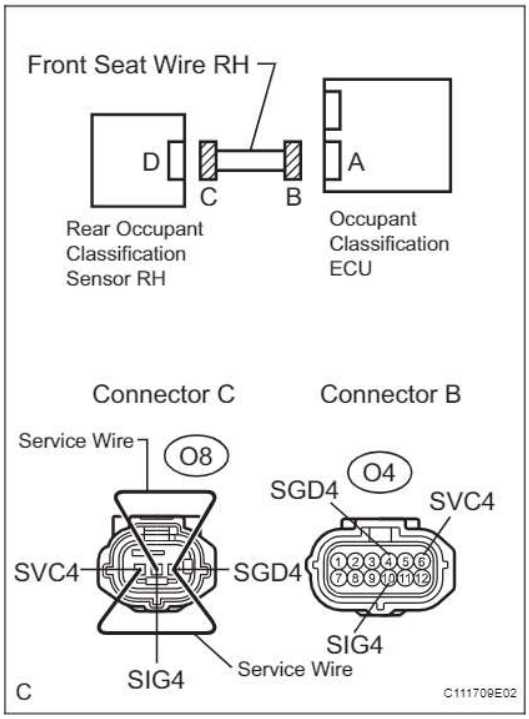
**Standard voltage**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-4 (SGD4) - Body ground | Ignition switch ON | Below 1 V |
| O5-6 (SVC4) - Body ground | Ignition switch ON | Below 1 V |
| O5-10 (SIG4) - Body ground | Ignition switch ON | Below 1 V |

NG → **REPLACE FRONT SEAT WIRE RH**

OK

## 4 CHECK FRONT SEAT WIRE RH (OPEN)




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

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

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

**Standard resistance**

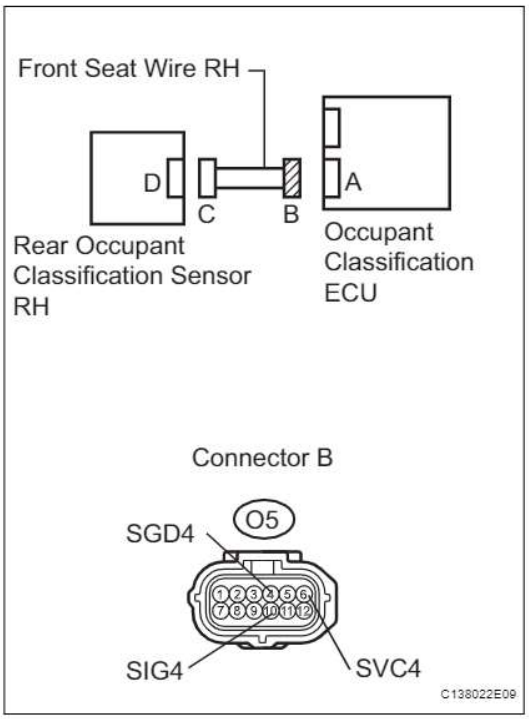
| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-6 (SVC4) - O5-4 (SGD4) | Always | Below 1 Ω |
| O5-10 (SIG4) - O5-4 (SGD4) | Always | Below 1 Ω |

NG → **REPLACE FRONT SEAT WIRE RH**

OK

RS

## 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.

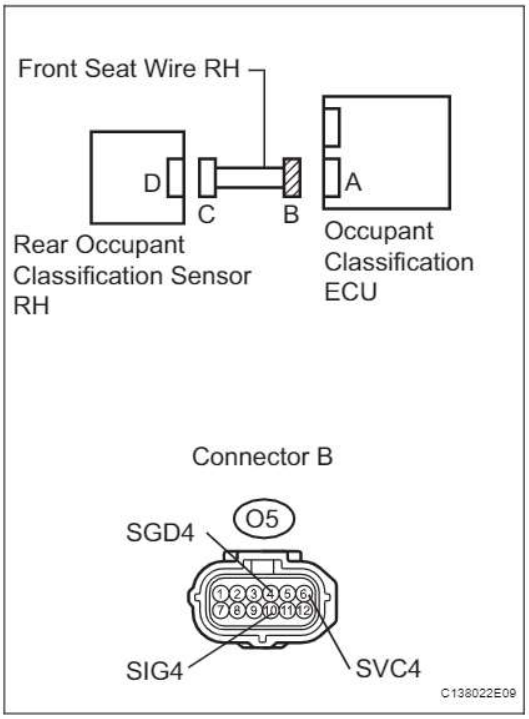
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-6 (SVC4) - O5-4 (SGD4) | Always | 1 MΩ or higher |
| O5-10 (SIG4) - O5-4 (SGD4) | Always | 1 MΩ or higher |
| O5-6 (SVC4) - O5-10 (SIG4) | Always | 1 MΩ or higher |

NG → 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.

**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-4 (SGD4) - Body ground | Always | 1 MΩ or higher |
| O5-6 (SVC4) - Body ground | Always | 1 MΩ or higher |
| O5-10 (SIG4) - Body ground | Always | 1 MΩ or higher |

NG → 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 the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

| NG | Go to step 8 |
|---|---|

OK

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

| 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-407).
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-250).
**OK:**
**"COMPLETED" is displayed.**

| NG | Go to step 12 |
|---|---|

OK

| 10 | PERFORM SENSITIVITY CHECK |
|---|---|

RS

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**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 the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → **Go to step 12**

OK

END

| 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-5).

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-250).
**OK:**
**"COMPLETED" is displayed.**

NEXT



| 14 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

NEXT

END

| DTC | B1785 | Front Occupant Classification Sensor LH Collision Detection |
|---|---|---|

## DESCRIPTION

RS

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 adjuster frame 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".

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

HINT:
When DTC B1650/32 is detected as a result of troubleshooting for "AIRBAG SYSTEM", check the DTCs stored in the occupant classification ECU. When DTC B1785 is output, perform troubleshooting for the DTC.

## WIRING DIAGRAM

See page RS-269.

## INSPECTION PROCEDURE

**1 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-250).
**OK:**
**"COMPLETED" is displayed.**

**NG** → **Go to step 4**

**OK**

**2 PERFORM SENSITIVITY CHECK**

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

**NG** → **Go to step 4**

**OK**

| 3 | CHECK DTC |
|---|---|

(a) Turn the ignition switch to the ON position.
(b) Clear the DTCs stored in the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → **Go to step 4**

OK ↓

**END**

| 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-5 ).
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-250).
**OK:**
**"COMPLETED" is displayed.**

NG → **Go to step 8**

OK ↓

| 6 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**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 the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → **Go to step 8**

OK

**END**

| 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-407).

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-250).

**OK:**
**"COMPLETED" is displayed.**

NEXT

| 10 | PERFORM SENSITIVITY CHECK |
|---|---|

RS

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

NEXT

END

| DTC | B1786 | Front Occupant Classification Sensor RH Collision Detection |
|---|---|---|

## DESCRIPTION

RS

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 adjuster frame 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<br>• Occupant classification ECU malfunction<br>• Front occupant classification sensor RH sensed large load | • Occupant classification ECU<br>• Front seat assembly RH (Front occupant classification sensor RH) |

HINT:
When DTC B1650/32 is detected as a result of troubleshooting for "AIRBAG SYSTEM", check the DTCs stored in the occupant classification ECU. When DTC B1786 is output, perform troubleshooting for the DTC.

## WIRING DIAGRAM

See page RS-276.

## INSPECTION PROCEDURE

**1 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-250).
**OK:**
**"COMPLETED" is displayed.**

**NG** → **Go to step 4**

**OK**

**2 PERFORM SENSITIVITY CHECK**

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

**NG** → **Go to step 4**

**OK**

| 3 | CHECK DTC |
|---|---|

(a) Turn the ignition switch to the ON position.
(b) Clear the DTCs stored in the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → **Go to step 4**

OK ↓

**END**

| 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-5).
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-250).
**OK:**
**"COMPLETED" is displayed.**

NG → **Go to step 8**

OK ↓

| 6 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**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 the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → **Go to step 8**

OK

**END**

| 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-407).

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-250).

**OK:**
**"COMPLETED" is displayed.**

NEXT

| 10 | PERFORM SENSITIVITY CHECK |
|---|---|

RS

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

NEXT

END

| DTC | B1787 | Rear Occupant Classification Sensor LH Collision Detection |
|---|---|---|

## DESCRIPTION

RS

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 adjuster frame 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".

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

HINT:
When DTC B1650/32 is detected as a result of troubleshooting for "AIRBAG SYSTEM", check the DTCs stored in the occupant classification ECU. When DTC B1787 is output, perform troubleshooting for the DTC.

## WIRING DIAGRAM

See page RS-283.

## INSPECTION PROCEDURE

**1 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-250).
**OK:**
**"COMPLETED" is displayed.**

**NG** → **Go to step 4**

**OK**

**2 PERFORM SENSITIVITY CHECK**

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

**NG** → **Go to step 4**

**OK**

| 3 | CHECK DTC |
|---|---|

(a) Turn the ignition switch to the ON position.
(b) Clear the DTCs stored in the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → **Go to step 4**

OK ↓

END

| 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-5).
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-250).
**OK:**
**"COMPLETED" is displayed.**

NG → **Go to step 8**

OK ↓

RS

| 6 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**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 the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → **Go to step 8**

OK

**END**

| 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-407).

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-250).

**OK:**
**"COMPLETED" is displayed.**

NEXT

| 10 | PERFORM SENSITIVITY CHECK |
|---|---|

RS

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

NEXT

END

| DTC | B1788 | Rear Occupant Classification Sensor RH Collision Detection |
|---|---|---|

## DESCRIPTION

RS

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 adjuster frame 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<br>• Occupant classification ECU malfunction<br>• Rear occupant classification sensor RH sensed large load | • Occupant classification ECU<br>• Front seat assembly RH (Rear occupant classification sensor RH) |

HINT:
When DTC B1650/32 is detected as a result of troubleshooting for "AIRBAG SYSTEM", check the DTCs stored in the occupant classification ECU. When DTC B1788 is output, perform troubleshooting for the DTC.

## WIRING DIAGRAM

See page RS-290.

## INSPECTION PROCEDURE

| 1 | 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-250).
**OK:**
**"COMPLETED" is displayed.**

NG → **Go to step 4**

OK

| 2 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

NG → **Go to step 4**

OK

| 3 | CHECK DTC |
|---|---|

(a) Turn the ignition switch to the ON position.
(b) Clear the DTCs stored in the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → **Go to step 4**

OK ↓

**END**

| 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-5).
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-250).
**OK:**
**"COMPLETED" is displayed.**

NG → **Go to step 8**

OK ↓

| 6 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**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 the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → **Go to step 8**

OK

**END**

| 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-407).

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-250).

**OK:**
**"COMPLETED" is displayed.**

NEXT

| 10 | PERFORM SENSITIVITY CHECK |
|---|---|

RS

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

NEXT

END

| DTC | B1790 | Center Airbag Sensor Assembly Communication Circuit Malfunction |
|---|---|---|

## DESCRIPTION

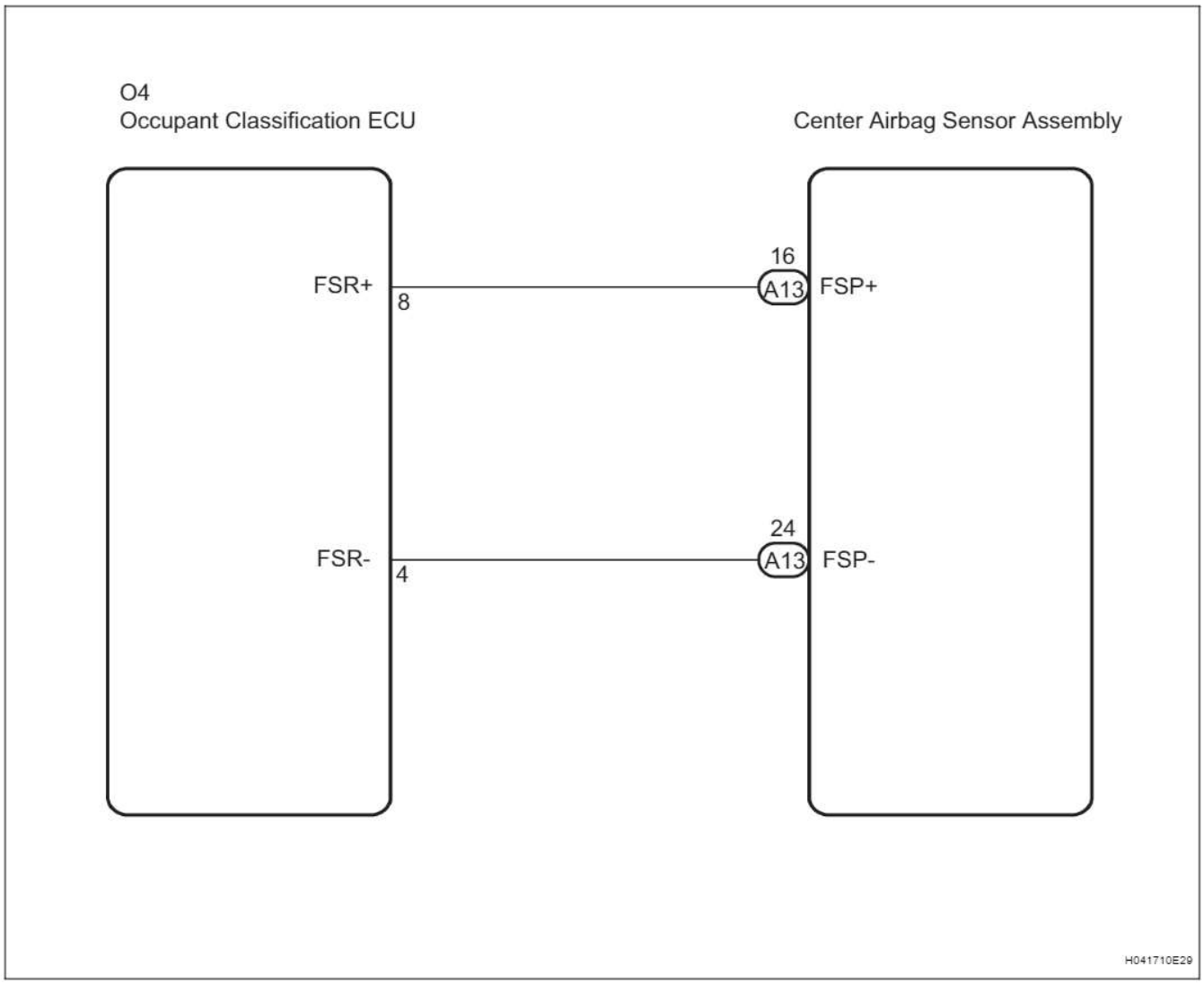
RS

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.<br>• Center airbag sensor assembly malfunction<br>• Occupant classification ECU malfunction | • Occupant classification ECU<br>• Center airbag sensor assembly<br>• Floor wire No. 2 |

HINT:
When DTC B1650/32 is detected as a result of troubleshooting for the AIRBAG SYSTEM, check the DTCs stored in the occupant classification ECU. When DTC B1790 is output, perform troubleshooting for the DTC.

## WIRING DIAGRAM




## INSPECTION PROCEDURE

HINT:

- If troubleshooting (wire harness inspection) is difficult to perform, remove the front passenger seat installation bolts to see the under surface of 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-257).
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-257).

**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.

RS

NG → **Go to step 2**

OK →

**USE SIMULATION METHOD TO CHECK**

## 2 CHECK CONNECTION OF CONNECTORS

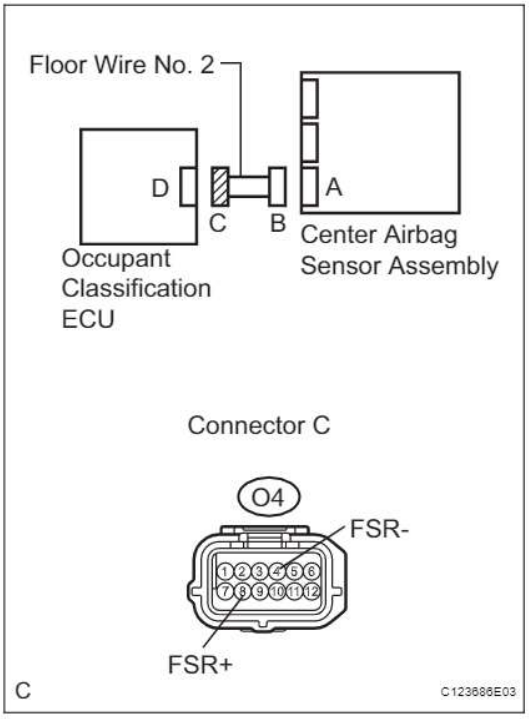
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery.
(c) Check that the connectors are properly connected to the occupant classification ECU and the center airbag sensor assembly.

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

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

OK →

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




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

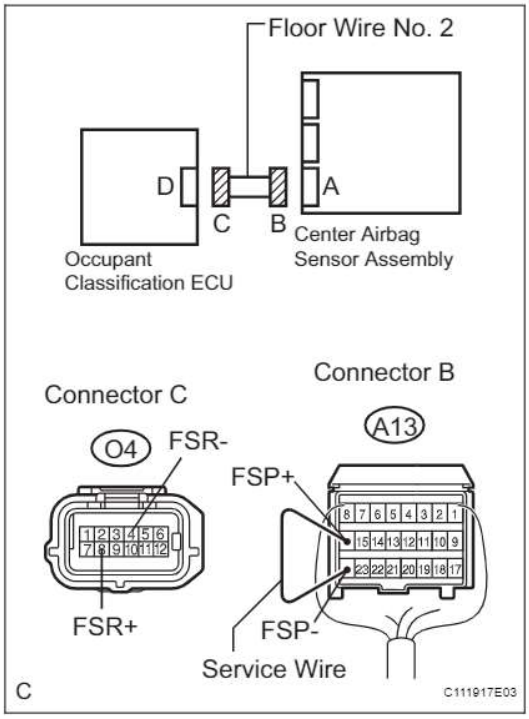
**Standard voltage**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O4-8 (FSR+) - Body ground | Ignition switch ON | Below 1 V |
| O4-4 (FSR-) - Body ground | Ignition switch ON | Below 1 V |

NG → **REPLACE FLOOR WIRE NO. 2**

OK

## 4 CHECK FLOOR WIRE NO. 2 (OPEN)



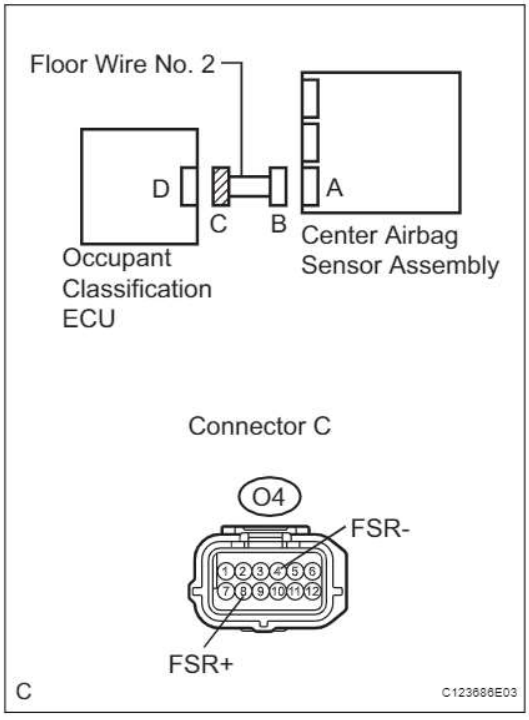

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Using a service wire, connect terminals 16 (FSP+) and 24 (FSP-) of connector C.
**NOTICE:**
**Do not forcibly insert a service wire into the terminals of the connector when connecting.**
(d) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O4-8 (FSR+) - O4-4 (FSR-) | Always | Below 1 Ω |

NG → REPLACE FLOOR WIRE NO. 2

OK

## 5 CHECK FLOOR WIRE NO. 2 (SHORT)




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

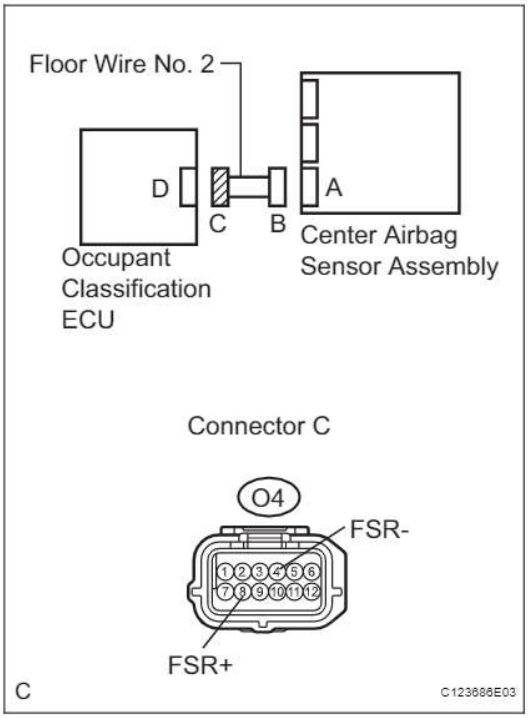
| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O4-8 (FSR+) - O4-4 (FSR-) | Always | 1 MΩ or higher |

NG → REPLACE FLOOR WIRE NO. 2

OK

| 6 | CHECK FLOOR WIRE NO. 2 (SHORT TO GROUND) |
|---|---|

RS




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

**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O4-8 (FSR+) - Body ground | Always | 1 MΩ or higher |
| O4-4 (FSR-) - Body ground | Always | 1 MΩ or higher |

NG → REPLACE FLOOR WIRE NO. 2

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-257).
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-257).
**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 → Go to step 8

OK

USE SIMULATION METHOD TO CHECK

| 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-407).
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-250).
**OK:**
**"COMPLETED" is displayed.**

NEXT

| 10 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard value:**
**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-257).
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-257).
**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

RS

| DTC | B1793 | Occupant Classification Sensor Power Supply Circuit Malfunction |
|---|---|---|

## DESCRIPTION

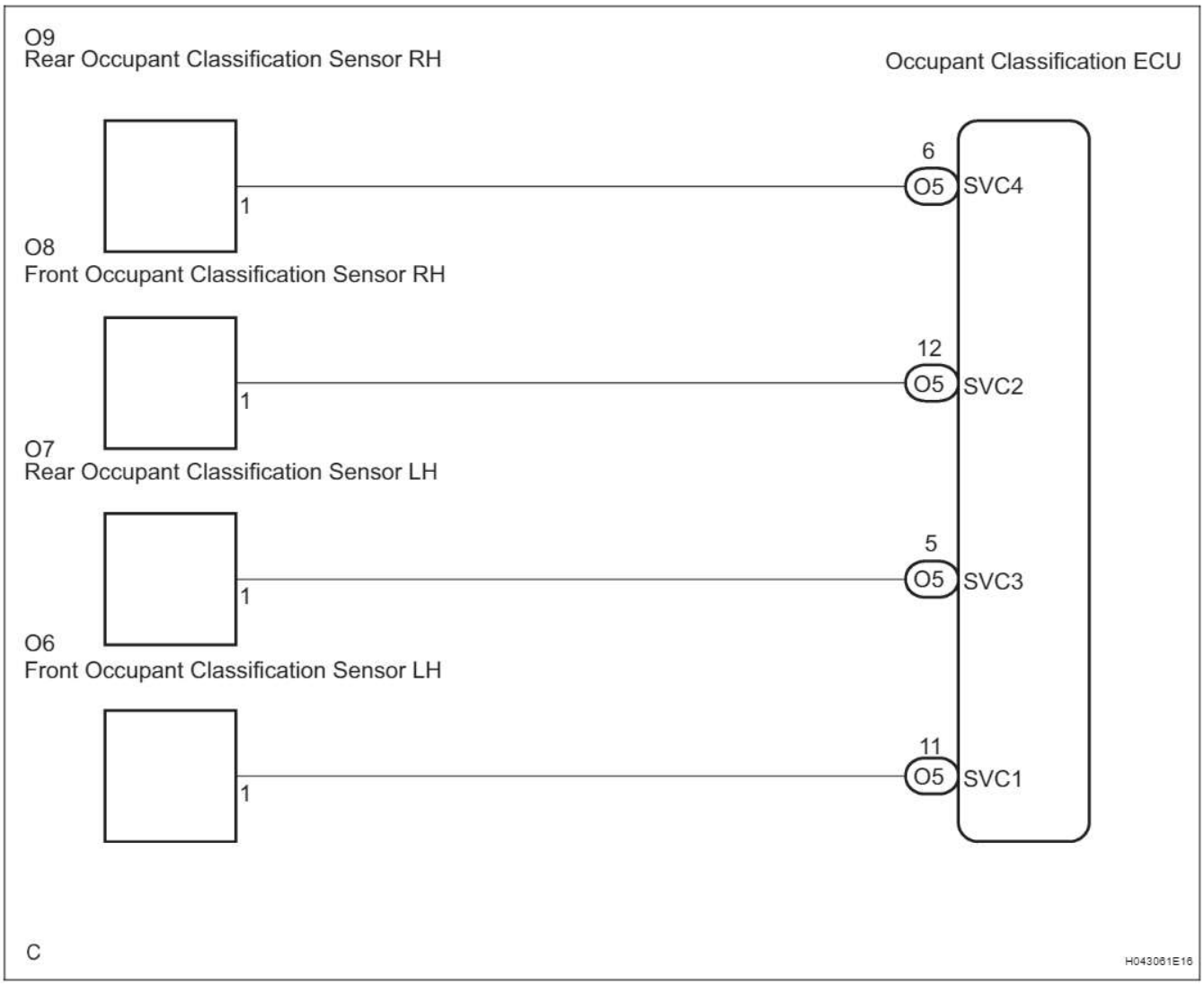
The occupant classification sensor power supply circuit consists of the occupant classification ECU and the occupant classification sensors.
DTC B1793 is recorded when a malfunction is detected in the occupant classification sensor power supply circuit.



| 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.<br>• Occupant classification ECU malfunction | • Front seat assembly RH (Occupant classification sensors)<br>• Occupant classification ECU<br>• Front seat wire RH |

HINT:
When DTC B1650/23 is detected as a result of troubleshooting for "AIRBAG SYSTEM", check the DTCs stored in the occupant classification ECU. When DTC B1793 is output, perform troubleshooting for the DTC.

## WIRING DIAGRAM




## INSPECTION PROCEDURE

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 the memory (See page RS-257).
HINT:
First clear the 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-257).

**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.

NG → **Go to step 2**

RS

OK →

**USE SIMULATION METHOD TO CHECK**

**2 CHECK CONNECTION OF CONNECTORS**

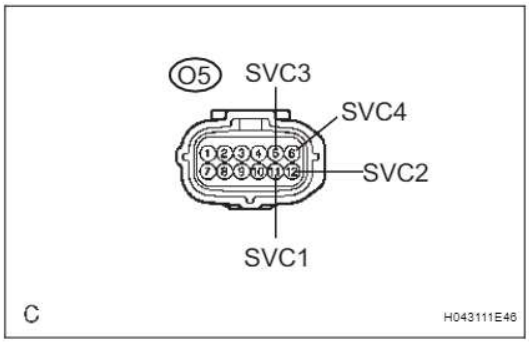
(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the occupant classification ECU and the occupant classification sensors.

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

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

OK →

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




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

**Standard voltage**

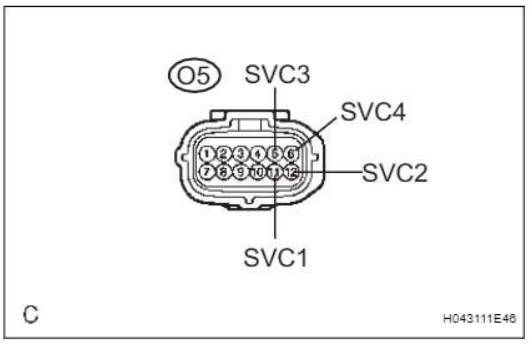
| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-5 (SVC3) - Body ground | Ignition switch ON | Below 1 V |
| O5-6 (SVC4) - Body ground | Ignition switch ON | Below 1 V |
| O5-11 (SVC1) - Body ground | Ignition switch ON | Below 1 V |
| O5-12 (SVC2) - Body ground | Ignition switch ON | Below 1 V |

NG → **REPLACE FRONT SEAT WIRE RH**

OK →

RS

## 4 CHECK FRONT SEAT WIRE RH (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.

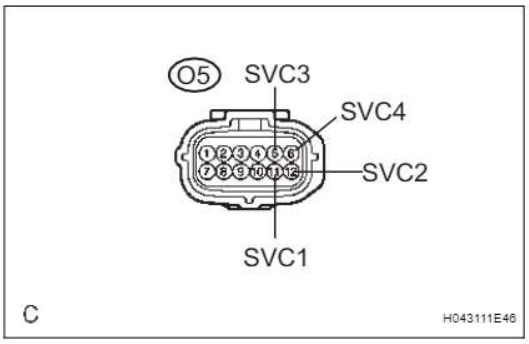
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-5 (SVC3) - Body ground | Always | 1 MΩ or higher |
| O5-6 (SVC4) - Body ground | Always | 1 MΩ or higher |
| O5-11 (SVC1) - Body ground | Always | 1 MΩ or higher |
| O5-12 (SVC2) - Body ground | Always | 1 MΩ or higher |

NG → 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.

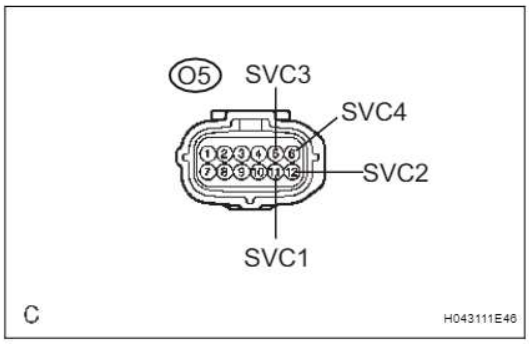
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-5 (SVC3) - O7-1 (SVC3) | Always | Below 1 Ω |
| O5-6 (SVC4) - O9-1 (SVC4) | Always | Below 1 Ω |
| O5-11 (SVC1) - O6-1 (SVC1) | Always | Below 1 Ω |
| O5-12 (SVC2) - O8-1 (SVC2) | Always | Below 1 Ω |

NG → 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.

**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O5-5 (SVC3) - O5-6 (SVC4) | Always | 1 MΩ or higher |
| O5-6 (SVC4) - O5-11 (SVC1) | Always | 1 MΩ or higher |
| O5-11 (SVC1) - O5-12 (SVC2) | Always | 1 MΩ or higher |
| O5-12 (SVC2) - O5-5 (SVC3) | Always | 1 MΩ or higher |
| O5-12 (SVC2) - O5-6 (SVC4) | Always | 1 MΩ or higher |
| O5-11 (SVC1) - O5-5 (SVC3) | Always | 1 MΩ or higher |

NG → REPLACE FRONT SEAT WIRE RH

OK

| 7 | 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.
(d) Clear the DTCs stored in the memory (See page RS-257).
HINT:
First clear the 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-257).
**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.

NG → Go to step 8

OK

USE SIMULATION METHOD TO CHECK

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-407).
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-250).
**OK:**
**"COMPLETED" is displayed.**

NG → **Go to step 12**

OK

| 10 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**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 the memory (See page RS-257).
HINT:
First clear the 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-257).
**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 | Go to step 12 |
|---|---|

OK

RS

END

| 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-5).

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-250).
**OK:**
**"COMPLETED" is displayed.**

NEXT

| 14 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

NEXT

END

| DTC | B1794 | Open in Occupant Classification ECU Battery Positive Line |
|---|---|---|

## DESCRIPTION

RS

This circuit consists of the occupant classification ECU and the power source circuit (battery, fuse, wire harness).

DTC B1794 is recorded when a malfunction is detected in the occupant classification ECU or the power source circuit.

HINT:

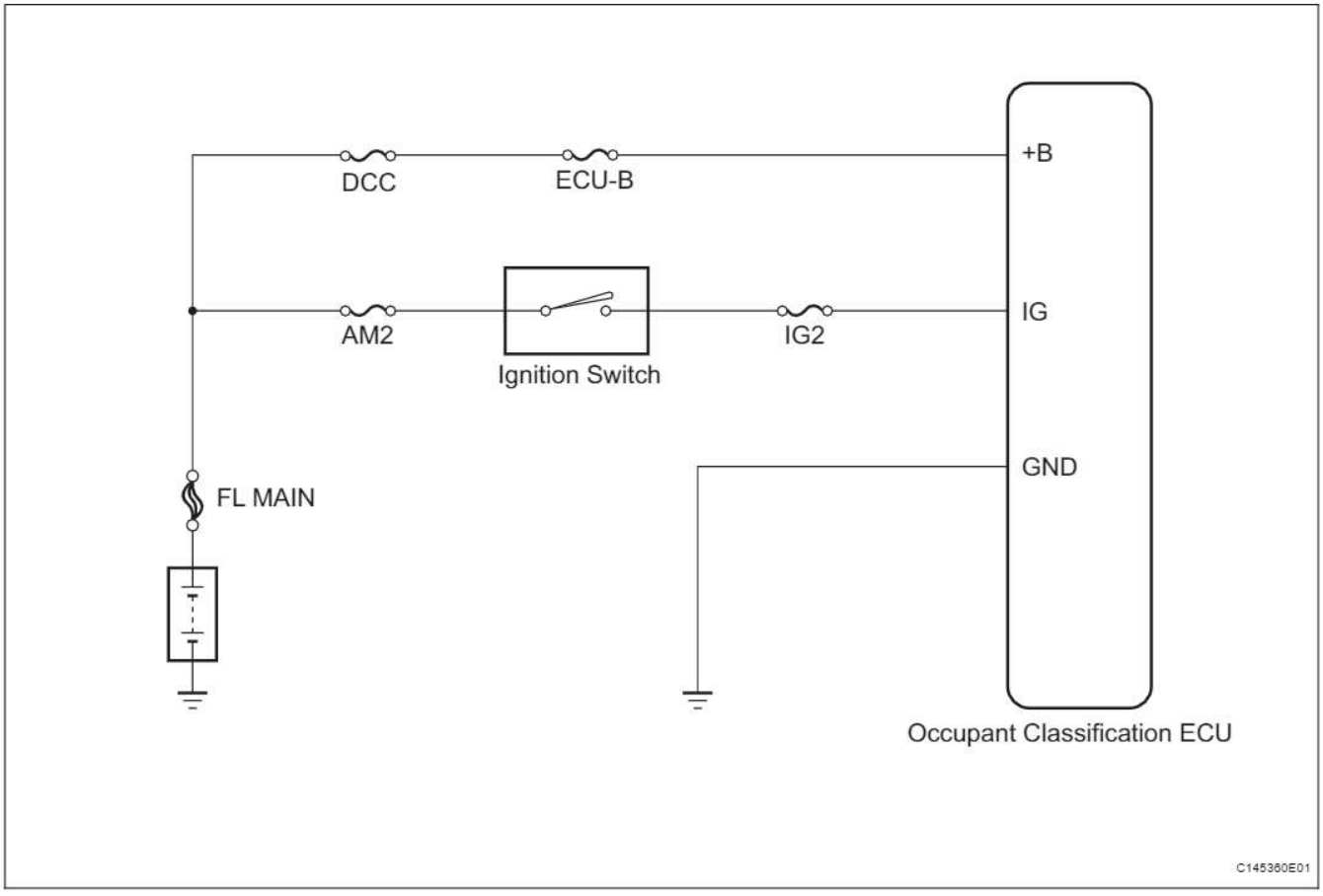
When DTC B1794 is output after switching the ignition switch LOCK-ON-LOCK 50 times in a row when a malfunction occurs in the power circuit for the occupant classification system, the DTC is output again when a malfunction is detected even once after being cleared, unless the normal system code is input.

| DTC No. | DTC Detecting Condition | Trouble Area |
|---|---|---|
| B1794 | • The ignition switch is turned from LOCK to ON, hold for 10 seconds or more, and back to LOCK again 50 times in a row when a malfunction occurs in the power circuit for the occupant classification system.<br>• Occupant classification ECU malfunction | • Battery<br>• ECU-B Fuse<br>• Floor wire No. 2<br>• Occupant classification ECU |

HINT:

When DTC B1650/32 is detected as a result of troubleshooting for the AIRBAG SYSTEM, check the DTCs stored in the occupant classification ECU. When DTC B1794 is output, perform troubleshooting for the DTC.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK BATTERY |
|---|---|

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

NG → **REPLACE BATTERY**

OK

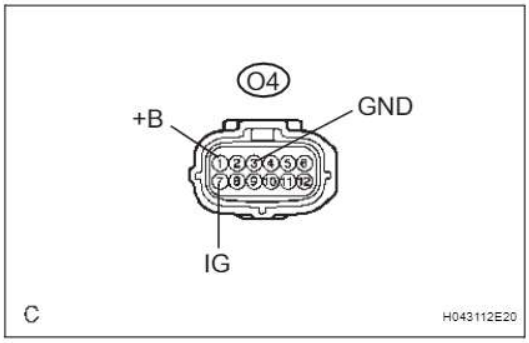
| 2 | CHECK FUSE |
|---|---|

(a) Check the ECU-B fuse.
**Standard resistance:**
**Below 1 Ω**

NG → **REPLACE FUSE**

OK

| 3 | CHECK HARNESS AND CONNECTOR (OCCUPANT CLASSIFICATION ECU - BATTERY) |
|---|---|




(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 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.
**Standard voltage**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O4-1 (+B) - Body ground | Ignition switch ON | 10 to 14 V |
| O4-7 (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.
**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O4-3 (GND) - Body ground | Always | Below 1 Ω |

NG → **REPLACE HARNESS OR CONNECTOR**

OK

| 4 | CHECK DTC |
|---|---|

(a) Turn the ignition switch to the ON position.
(b) Clear the DTCs stored in memory (See page RS-257).
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, and wait for at least 10 seconds.
(e) Using the intelligent tester, check the DTCs of the occupant classification ECU (See page RS-257).
**OK:**
**DTC B1794 is not output.**
HINT:
Codes other than code B1794 may be output at this time, but they are not related to this check.

NG → **Go to step 5**

OK ↓

**USE SIMULATION METHOD TO CHECK**

| 5 | REPLACE OCCUPANT CLASSIFICATION ECU |
|---|---|

(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 occupant classification ECU (See page RS-407).

NEXT ↓

| 6 | 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-250).
**OK:**
**"COMPLETED" is displayed.**

NEXT ↓

| 7 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).

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

NEXT

END

| DTC | B1795 | Occupant Classification ECU Malfunction |
|---|---|---|

## DESCRIPTION

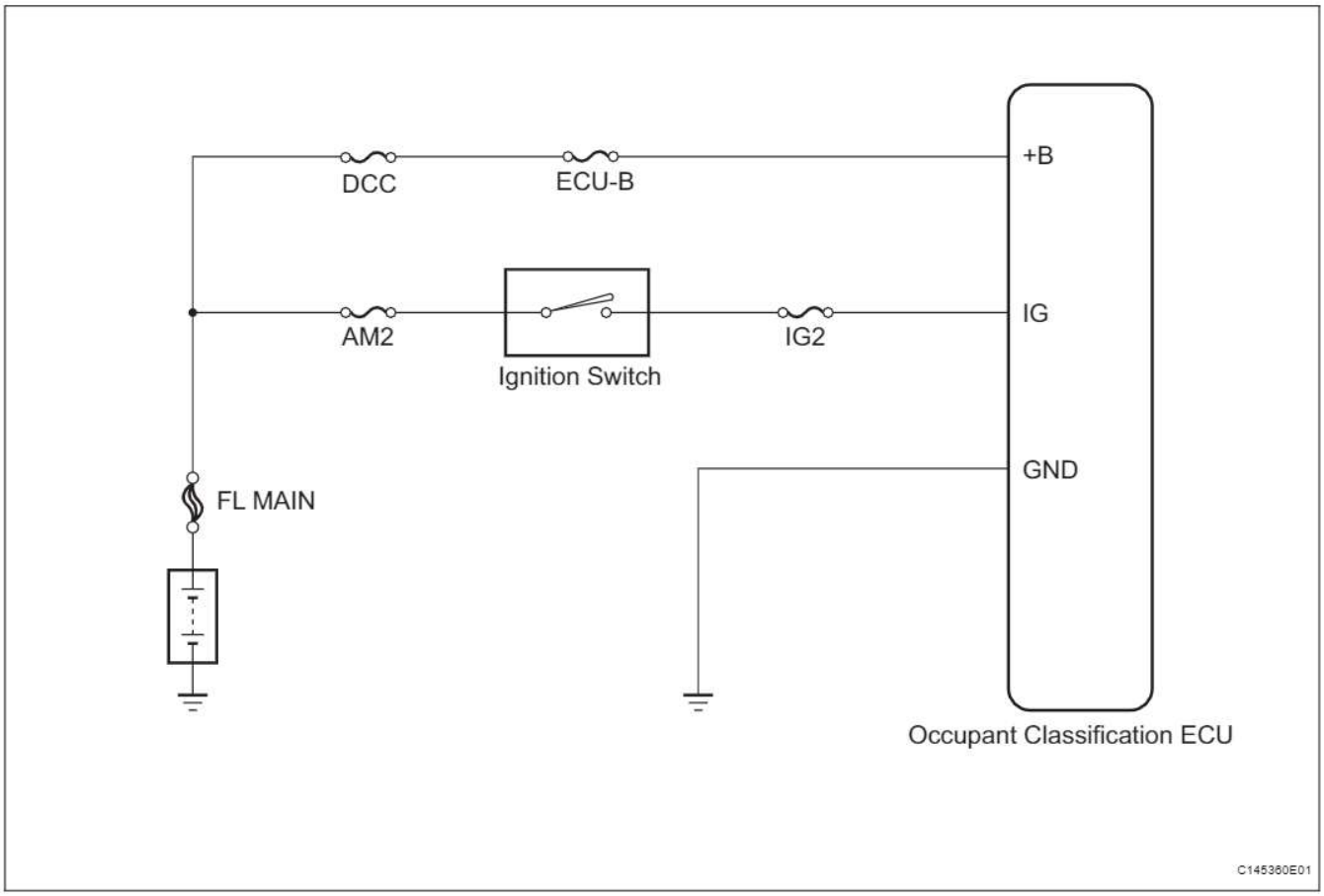
DTC B1795 is recorded when a malfunction is detected in the occupant classification ECU.
Troubleshoot DTC B1771 first when the DTCs B1771 and B1795 are output simultaneously.

RS

| 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).<br>• Occupant classification ECU circuit malfunction<br>• The occupant classification ECU receives a short circuit to ground signal in the passenger side buckle switch circuit for 2 seconds.<br>• Occupant classification ECU malfunction | • Battery<br>• ECU-B Fuse<br>• Floor wire No. 2<br>• Front seat inner belt assembly RH (Passenger side buckle switch)<br>• Occupant classification ECU |

HINT:
When DTC B1650/32 is detected as a result of troubleshooting for "AIRBAG SYSTEM", check the DTCs stored in the occupant classification ECU. When DTC B1795 is output, perform troubleshooting for the DTC.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

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

(a) Turn the ignition switch to the ON position, and wait for at least 10 seconds.
(b) Check for DTCs (See page RS-257).
**Result:**
**A:**
**DTCs B1771 and B1795 are output.**
**B:**
**DTC B1795 is output.**
HINT:
Codes other than DTCs B1771 and B1795 may be output at this time, but they are not related to this check.

| A | GO TO DTC B1771 |
|---|---|

B

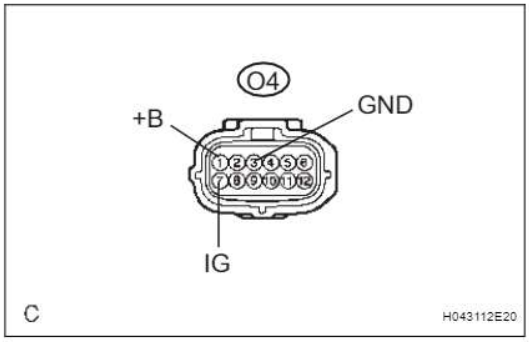
| 2 | CHECK FUSE |
|---|---|

(a) Measure the resistance of the ECU-B fuse.
**Standard resistance:**
**Below 1 Ω**

| NG | REPLACE FUSE |
|---|---|

OK

| 3 | CHECK HARNESS AND CONNECTOR (OCCUPANT CLASSIFICATION ECU - BATTERY) |
|---|---|




(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.
**Standard voltage**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O4-1 (+B) - Body ground | Always | 10 to 14 V |
| O4-7 (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.

**Standard resistance**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| O4-3 (GND) - Body ground | Always | Below 1 Ω |

NG → REPLACE HARNESS OR CONNECTOR

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-407).

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-250).
**OK:**
**"COMPLETED" is displayed.**

NEXT

**6 PERFORM SENSITIVITY CHECK**

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

NEXT

**END**

| DTC | B1796 | Sleep Operation Failure of Occupant Classification ECU |
|---|---|---|

## DESCRIPTION

During sleep mode, the occupant classification ECU reads the condition of each sensor while the ignition switch is off.
In this mode, if the occupant classification ECU detects an internal malfunction, DTC B1796 is output.

RS

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

HINT:
When DTC B1650/32 is detected as a result of troubleshooting for "AIRBAG SYSTEM", check the DTCs stored in the occupant classification ECU. When DTC B1796 is output, perform troubleshooting for the DTC.

## INSPECTION PROCEDURE

**1 CHECK DTC**

(a) Turn the ignition switch to the ON position.
(b) Clear the DTCs stored in the memory (See page RS-257).
HINT:
First clear for 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-257).
**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.

NG → **Go to step 2**

OK

**USE SIMULATION METHOD TO CHECK**

**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-407).

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.
(d) Using the intelligent tester, perform "zero point calibration" (See page RS-250).
**OK:**
**"COMPLETED" is displayed.**

NEXT

| 4 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

NEXT

END

# Trouble in Passenger Airbag ON / OFF Indicator

## DESCRIPTION

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

HINT:

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.

| Front Passenger Seat Condition | Passenger Airbag ON/OFF Indicator | | SRS Warning Light |
|---|---|---|---|
| | ON Indicator | OFF Indicator | |
| Adult is seated. | ON | OFF | OFF |
| Child is seated. | OFF | ON | OFF |
| Vacant | OFF | OFF | OFF |
| Occupant classification system failure | OFF | ON | ON |

## INSPECTION PROCEDURE

**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 the light is on, a DTC is output. Troubleshoot for the output DTC.

**OK:**

**After the primary check period, SRS warning light goes off.**

HINT:

The primary check period is approximately 6 seconds after the ignition switch is turned ON.

**NG** → **GO TO DTC CHART**

**OK**

**2 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-250).

**OK:**

**"COMPLETE" is displayed.**

**NG** → **Go to step 4**

**OK**

| 3 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

NG → **Go to step 4**

OK

**END**

| 4 | 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: 42 N*m (430 kgf*cm, 31 ft.*lbf)**

NEXT

| 5 | 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-250).
**OK:**
**"COMPLETE" is displayed.**

NG → **Go to step 7**

OK

| 6 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

NG → **Go to step 7**

OK

**END**

| 7 | READ VALUE OF DATA LIST |
|---|---|

(a) Turn the ignition switch to the ON position.
(b) Using the intelligent tester, read the DATA LIST (See page SB-5).
(c) Read the the display when the passenger side buckle switch is operated.

| Tester Display | Measurement Item/Range | Normal Condition | Diagnostic Note |
|---|---|---|---|
| P BUCKLE SW | Passenger Buckle SW/<br>UNSET: The seat belt is not fastened<br>SET: The seat belt is fastened<br>NG: Data is not determined | UNSET/SET | - |

**OK:**
**The tester display changes correctly in accordance with the operation of the buckle switch.**

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

OK

| 8 | CHECK 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 4 occupant classification sensors.
**OK:**
**The connectors are properly connected.**
HINT:
If the connectors are not connected securely, reconnect the connectors and proceed to the next inspection.
(d) Disconnect the connectors from the occupant classification ECU and the 4 occupant classification sensors.
(e) Check that the connectors are not damaged or deformed.
**OK:**
**The connectors are normal.**

NG → **REPAIR OR REPLACE CONNECTORS, 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 the memory (See page RS-257).
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-257).
**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.
(c) Replace the occupant classification ECU (See page RS-407).
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-250).
**OK:**
**"COMPLETE" is displayed.**

NEXT

| 12 | PERFORM SENSITIVITY CHECK |
|---|---|

(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

NG → **Go to step 13**

OK

END

| 13 | 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-5).

NEXT

| 14 | 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-250).
**OK:**
**"COMPLETE" is displayed.**

NEXT

| 15 | SENSITIVITY CHECK |
|---|---|

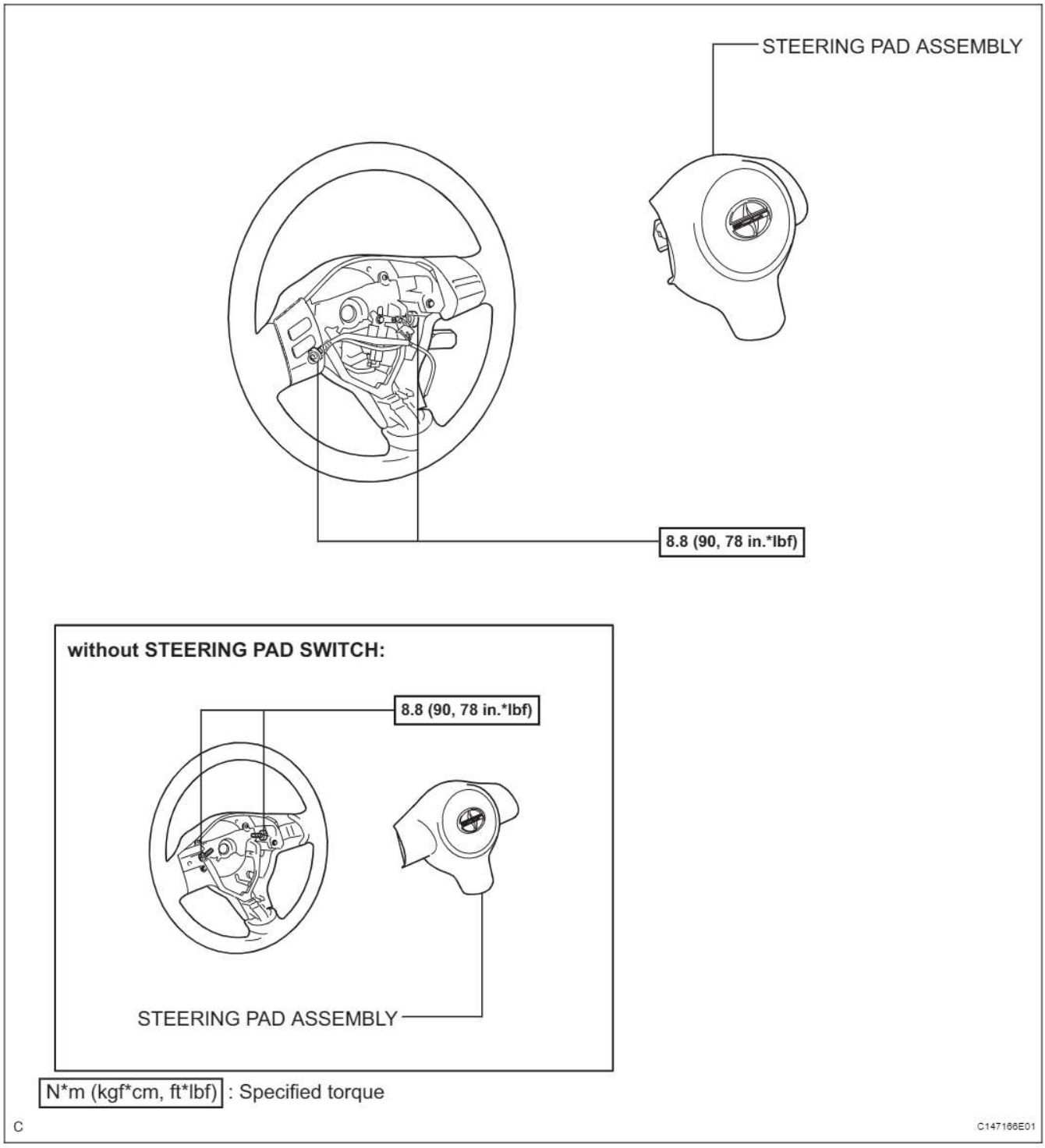
(a) Using the intelligent tester, perform "sensitivity check" (See page RS-250).
**Standard values:**
**27 to 33 kg (59.52 to 72.75 lb)**

NEXT

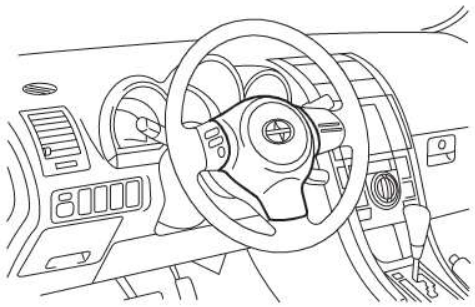
END

# STEERING PAD

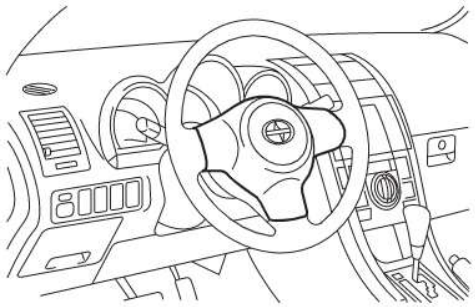
## COMPONENTS



with STEERING PAD SWITCH:



without STEERING PAD SWITCH:

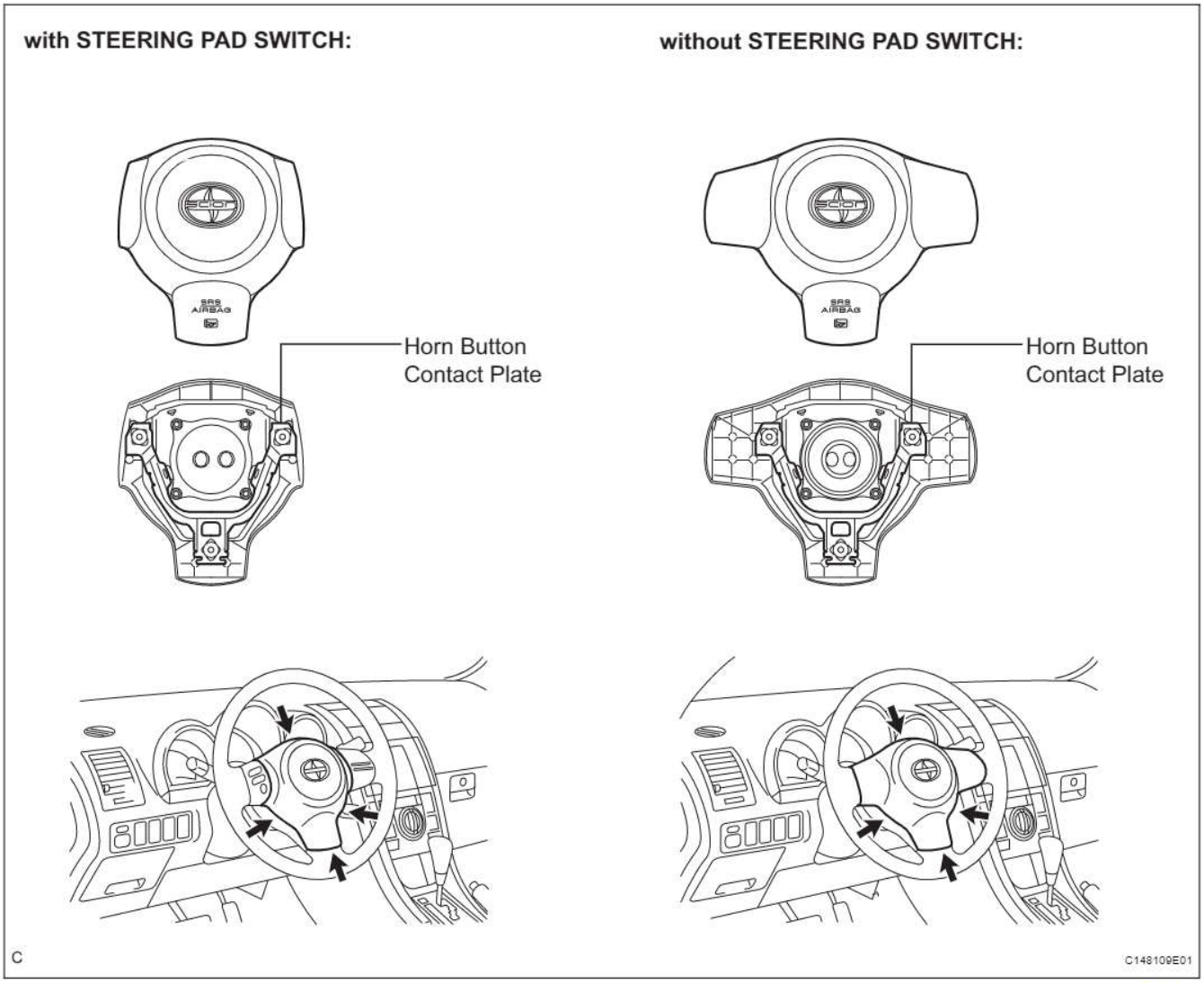


C C147167E01

# ON-VEHICLE INSPECTION

1. **CHECK STEERING PAD ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-18).
   (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. CHECK STEERING PAD ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**




(a) Perform a diagnostic system check (see page RS-18).

(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. Horn Button Contact Plate

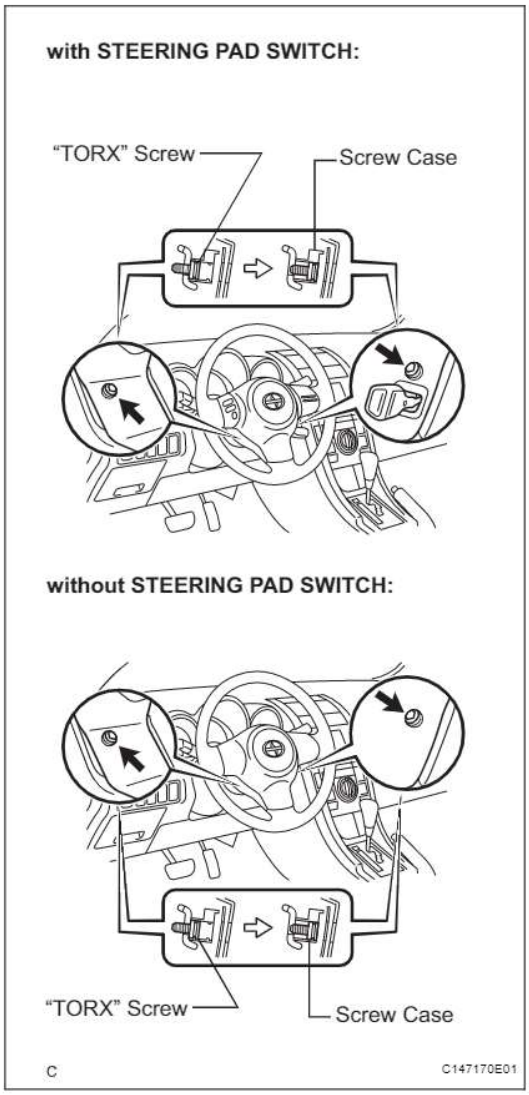
**CAUTION:**
**Be sure to follow the correct removal and installation procedures.**

# REMOVAL

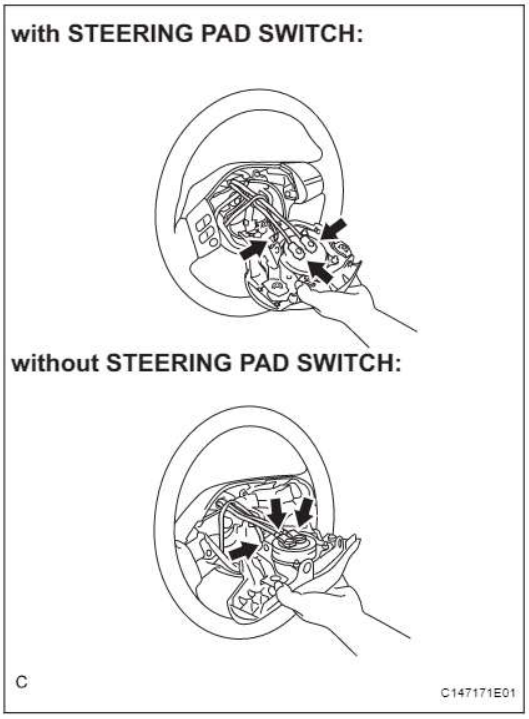
1. **PRECAUTION**
   **CAUTION:**
   **Be sure to read "PRECAUTION" thoroughly before servicing (See page RS-1).**

2. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **CAUTION:**
   **Work must be started at least 90 seconds after the ignition switch is turned off and after the cable is disconnected from the negative (-) battery terminal.**

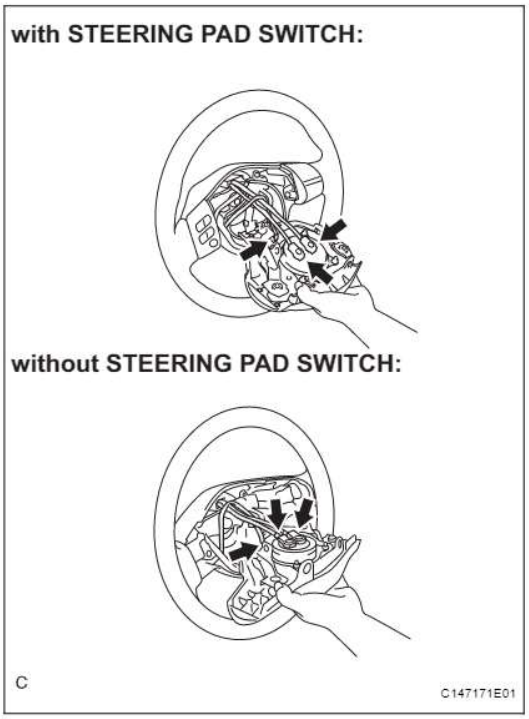
3. **REMOVE STEERING PAD ASSEMBLY**
   (a) Using a "TORX" socket (T30), loosen the 2 "TORX" screws until the groove along the screw circumference catches on the screw case.



RS




(b) Pull out the steering pad from the steering wheel assembly and support the steering pad with one hand.
**NOTICE:**
**When removing the steering pad, do not pull the airbag wire harness.**
(c) Disconnect the horn connector from the steering pad.
(d) Disconnect the 2 airbag connectors and remove the steering pad.
**CAUTION:**
**When handling the airbag connector, take care not to damage the airbag wire harness.**
(e) Remove the steering pad.




# INSTALLATION

## 1. INSTALL STEERING PAD ASSEMBLY

(a) Check that the ignition switch is in the OFF position.
(b) Check that the battery negative (-) cable is disconnected.
**CAUTION:**
**Work must be started at least 90 seconds after the engine switch is turned off and after the cable is disconnected from the negative (-) battery terminal.**
(c) Support the steering pad with one hand.
(d) Connect the 2 airbag connectors to the steering pad.
**NOTICE:**
**When handling the airbag connector, take care not to damage the airbag wire harness.**
(e) Connect the horn connector to the steering pad.
(f) Confirm that the circumference groove of the "TORX" screw fits in the screw case, and place the steering pad onto the steering wheel assembly.
(g) Using a "TORX" socket (T30), tighten the 2 "TORX" screws.
**Torque: 8.8 N*m (90 kgf*cm, 78 in.*lbf)**

## 2. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

## 3. PERFORM INITIALIZATION

(a) Perform initialization (see page IN-23).
HINT:
Some systems need initialization after reconnecting the cable to the negative battery terminal.

**4. INSPECT STEERING PAD ASSEMBLY**

(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).

**5. INSPECT SRS WARNING LIGHT**

(a) Inspect the SRS warning light (see page RS-11).

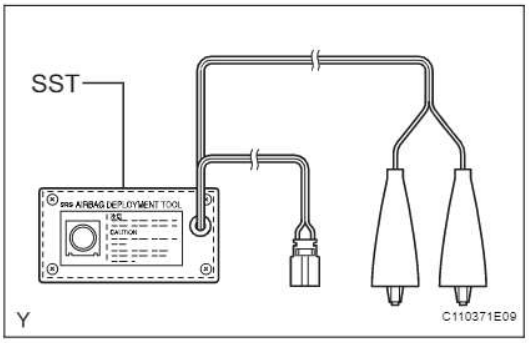
RS

# DISPOSAL

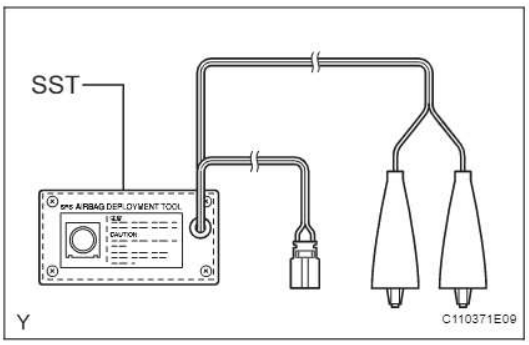
HINT:
When scrapping a vehicle equipped with an SRS or disposing of the steering pad, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

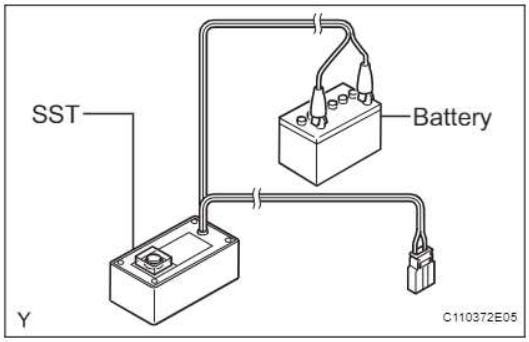
**CAUTION:**

- **Never dispose of a steering pad with an unactivated airbag.**
- **The airbag produces a loud, exploding sound when it activates. Perform the operation where it will not be a nuisance to people nearby.**
- **When activating the airbag, always use the specified SST (SRS airbag deployment tool).**
- **Perform procedures in a place away from electrical interference.**
- **When activating the airbag, stand at least 10 m (33 ft.) away from the steering pad.**
- **The steering pad becomes very hot when the airbag is deployed. Do not touch it for at least 30 minutes after activation.**
- **Use gloves and safety glasses when handling a steering pad with a deployed airbag.**
- **Do not apply water to a steering pad with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**
- **An airbag or pretensioner may be activated by static electricity.**
  **To prevent this, be sure to touch a metal surface with bare hands to discharge static electricity before performing this procedure.**

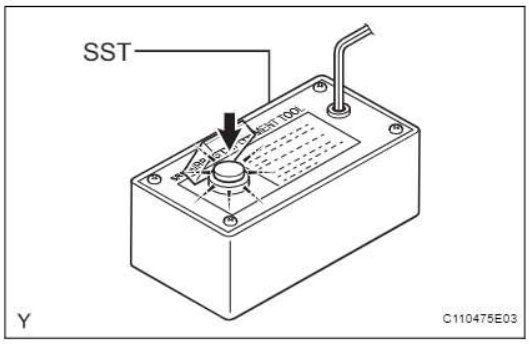



1. **DISPOSE OF STEERING PAD ASSEMBLY TOGETHER WITH VEHICLE**
   HINT:
   Prepare a battery as the power source to deploy the airbag.
   (a) Check if SST is functioning properly.
   **SST 09082-00700**





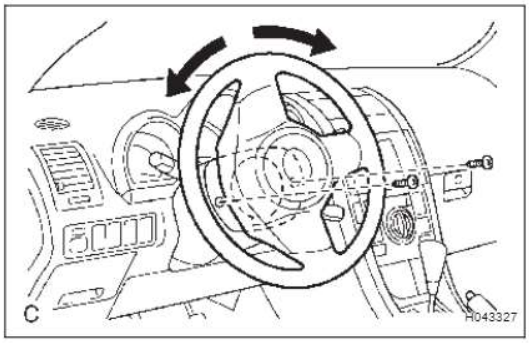

(1) Connect the SST's red clip to the positive (+) battery terminal and the black clip to the negative (-) battery terminal.
HINT:
The yellow connector will be used to connect to another SST in a later step.



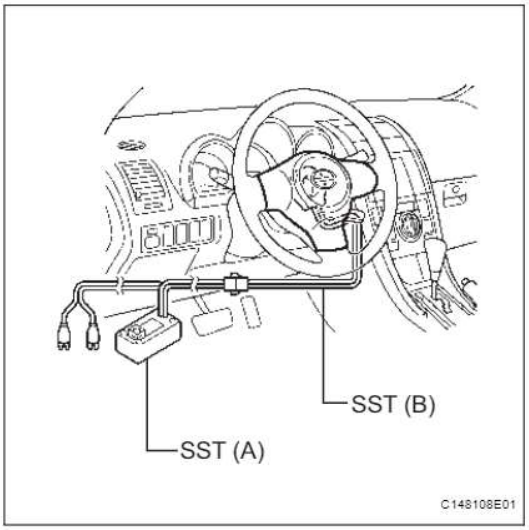

(2) Press the SST activation switch, and check that the LED of the SST activation switch illuminates.
**CAUTION:**
**If the LED illuminates when the activation switch is not pressed, SST may have a malfunction, in which case that SST should not be used.**
(3) Disconnect SST from the battery.

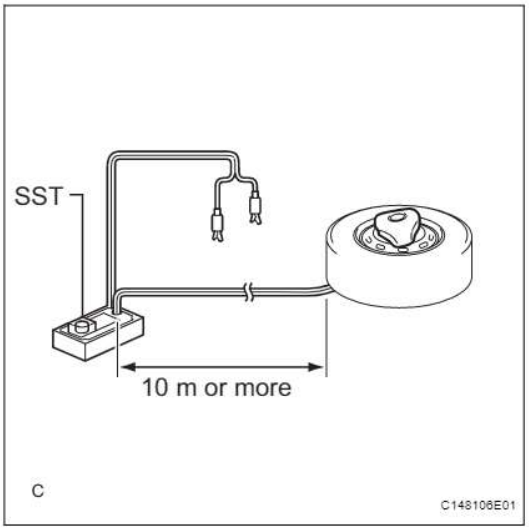
(b) Follow the "Precaution" (see page RS-1).

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




(d) Remove the steering column cover lower.
(1) Turn the steering wheel to the right and left as necessary to remove the 2 screws.
(2) Remove the screw and cover lower.




(e) Install SST.

**CAUTION:**

**Check that there is no free play in the steering wheel and steering pad.**

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

**NOTICE:**

**When handling the airbag connector, do not damage the airbag wire harness.**

(2) Connect SST (A) to SST (B). Then connect SST (B)'s connector to the spiral cable.

**SST 09082-00700, 09082-00780**

**NOTICE:**

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

(3) Move SST at least 10 m (33 ft.) away from the front side window.

(4) Maintain a small opening in the front side window for the SST wire harness. Close the remaining windows of the vehicle. Close all doors.

**NOTICE:**

**Take care not do damage the SST wire harness.**

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

(f) Deploy the airbag.

(1) Check that no one is inside the vehicle or within a 10 m (33 ft.) radius of the vehicle.

(2) Press the SST activation switch and deploy the airbag.

**CAUTION:**

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

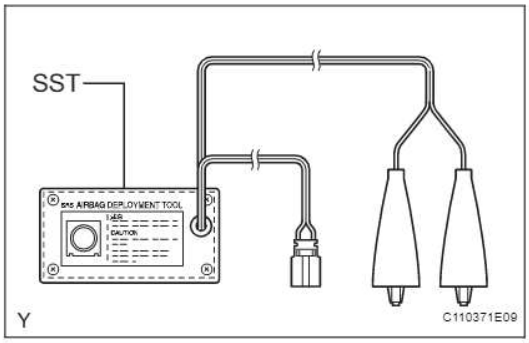
HINT:

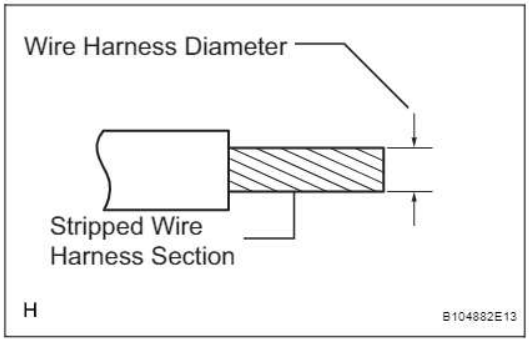
The airbag is deployed as the SST activation switch LED illuminates.

**2. DISPOSE OF ONLY STEERING PAD ASSEMBLY**

**NOTICE:**

- **When disposing of the steering pad, never use the customer's vehicle to deploy the airbag.**



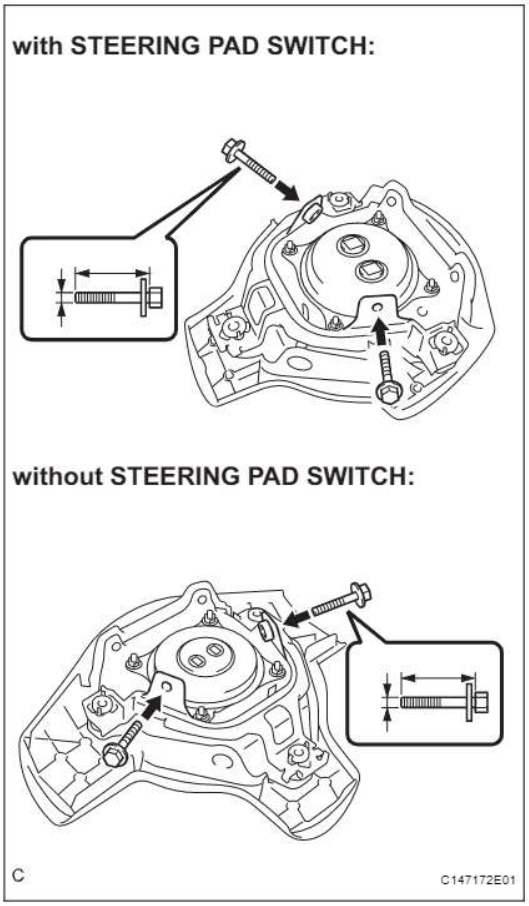

- **Be sure to follow the procedure detailed below when deploying the airbag.**

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

(a) Check if SST is functioning properly (see previous step).

(b) Remove the steering pad (see page RS-344).
**CAUTION:**
- **When removing the steering pad, work must be started 90 seconds after the ignition switch is turned OFF and after the cable is disconnected from the negative (-) battery terminal.**
- **When storing the steering pad, keep the airbag deployment side facing upward.**

(c) Using service wire harnesses for the vehicle, tie down the steering pad to a disc wheel (with tire).
**Wire harness:**
**Stripped wire harness section**
**1.25 $mm^2$ or more (0.0019 $in.^2$ or more)**
**NOTICE:**
**Use a disc wheel (with tire) that you are planning to throw away, as the airbag deployment will damage the disc wheel.**
**CAUTION:**
**Do not use wire harnesses that are too thin or any other substitute items to tie down the steering pad. They may snap when the airbag deploys. Always use vehicle wire harnesses that have an area of at least 1.25 $mm^2$ or more (0.0019 $in.^2$).**
HINT:
To calculate the area of the stripped wire harness section:
Area = 3.14 x $Diameter^2/4$




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

**Bolt:**

**L:**

**35.0 mm (1.378 in.)**

**M:**

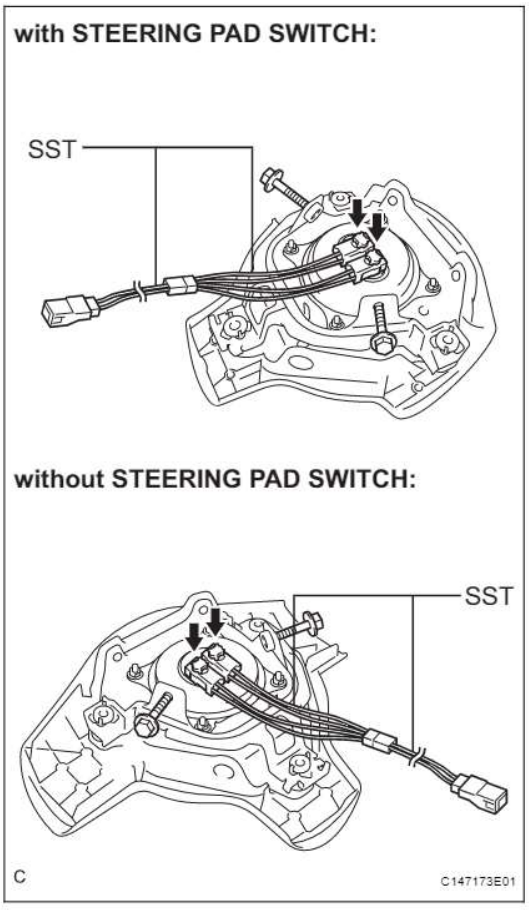
**6.0 mm (0.236 in.)**

**Pitch:**

**1.0 mm (0.039 in.)**

**NOTICE:**

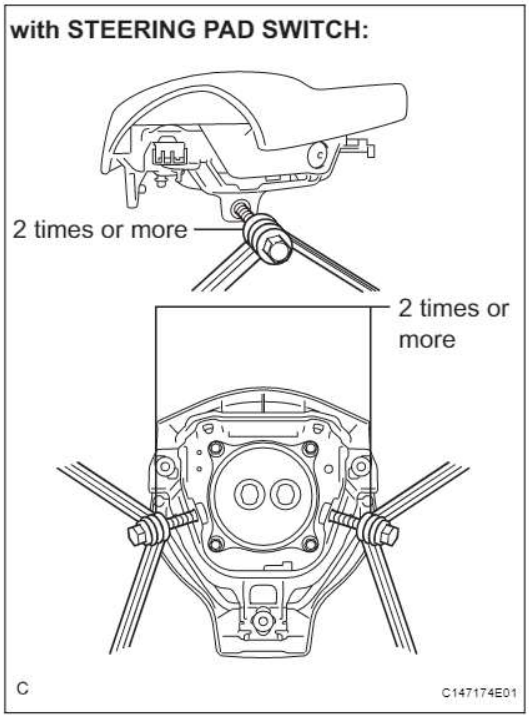
- **Tighten the bolts by hand until they become difficult to turn.**
- **Do not tighten the bolts excessively.**




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

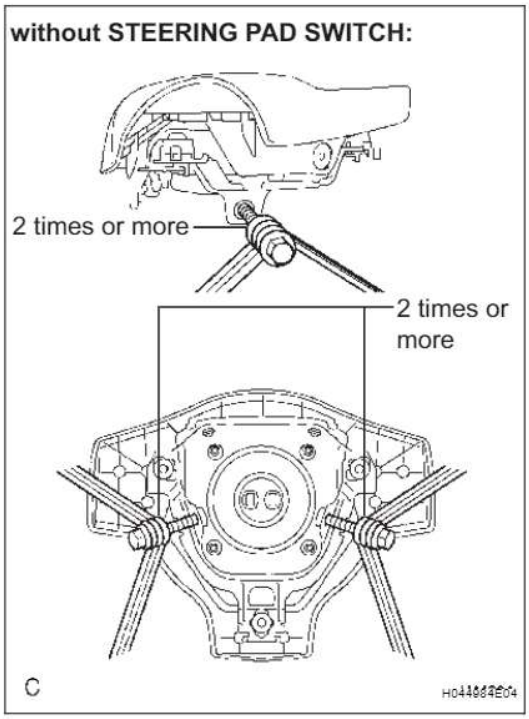
**SST 09082-00802 (09082-10801, 09082-30801)**

**with STEERING PAD SWITCH:**



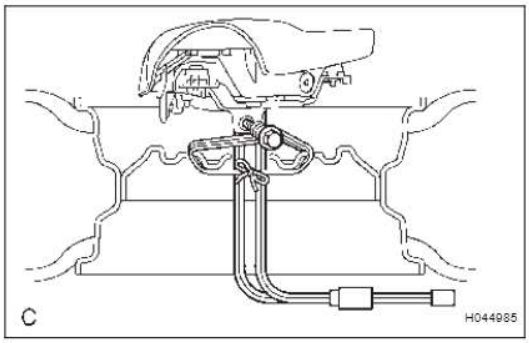

(3) Wind 3 wire harnesses at least twice around the bolts installed on the left and right sides of the steering pad.

**without STEERING PAD SWITCH:**




**CAUTION:**

- **Tightly wind the wire harnesses around the bolts so that there is no slack.**
- **Make sure that the wire harnesses are tight. If there is slack in a wire harness, the steering pad may come loose when the airbag is deployed.**

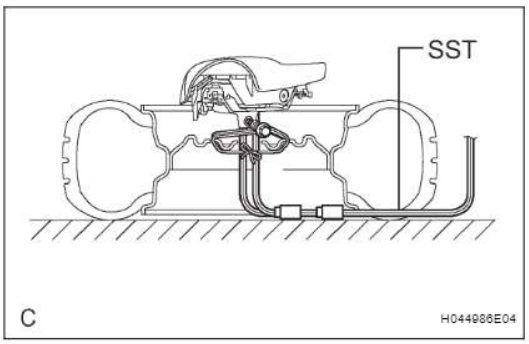



(4) Face the airbag deployment side of the steering pad upward. Separately tie the left and right sides of the steering pad to a disc wheel through the hub nut holes. Position the SST connector so that it hangs downward through the hub hole in the disc wheel.

**CAUTION:**

- **Make sure that the wire harnesses are tight. If there is slack in a wire harness, the steering pad may come loose when the airbag is deployed.**

- **Always tie down the steering pad with the airbag deployment side facing upward.**

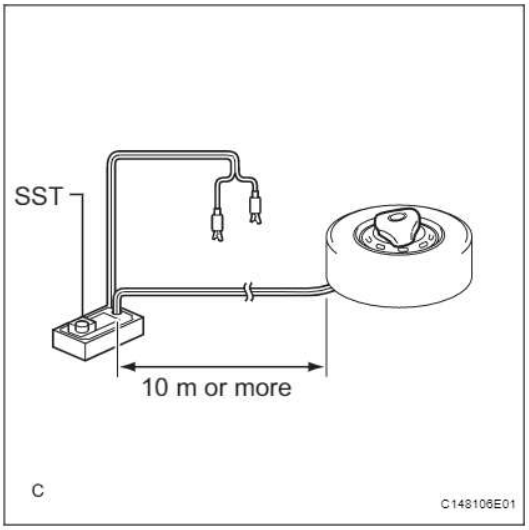



(d) Install SST.

**CAUTION:**
**Place the tire with disc wheel and steering pad on a level surface.**

(1) Connect the connector of SST.
**SST 09082-00700**
**NOTICE:**
**To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the disc wheel.**

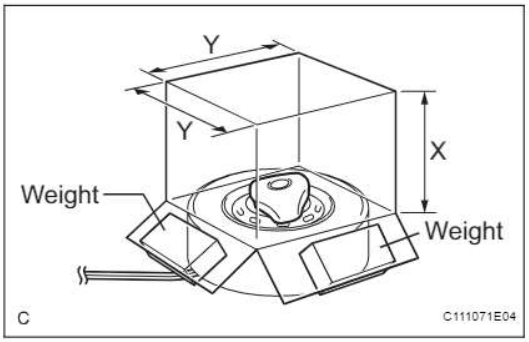
(2) Move SST at least 10 m (33 ft.) away from the steering pad.

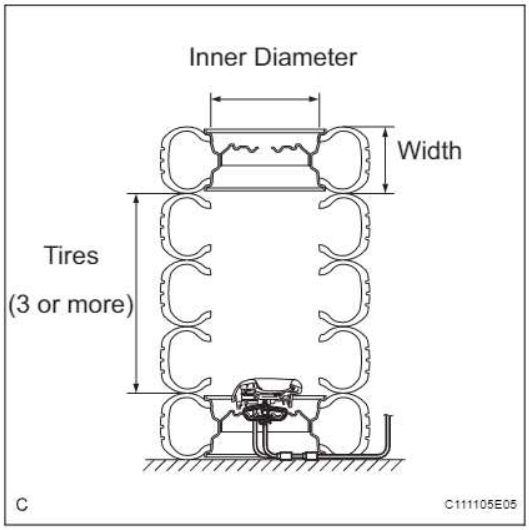



(e) Cover the steering pad with a cardboard box or tires.

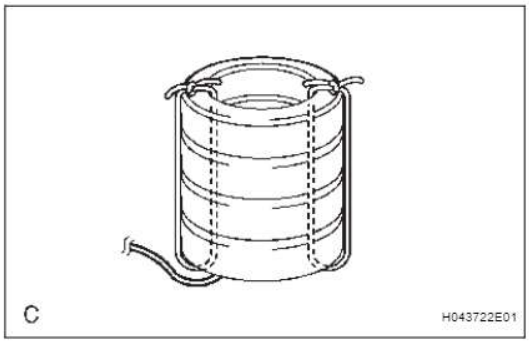
(1) Covering method using a cardboard box:
Cover the steering pad with the cardboard box and place weights of at least 19 kg (43 lb) on the cardboard box in 4 places.
**Cardboard box size:**
**X minimum = 460 mm (18.11 in.)**
**Y minimum = 650 mm (25.59 in.)**
**NOTICE:**

- **When dimension Y of the cardboard box exceeds the tire dimension, X should be the following size.**
  **X minimum = 460 mm (18.11 in.) + width of tire**
- **If using a cardboard box which is smaller than the specified size, the cardboard box will break during airbag deployment.**

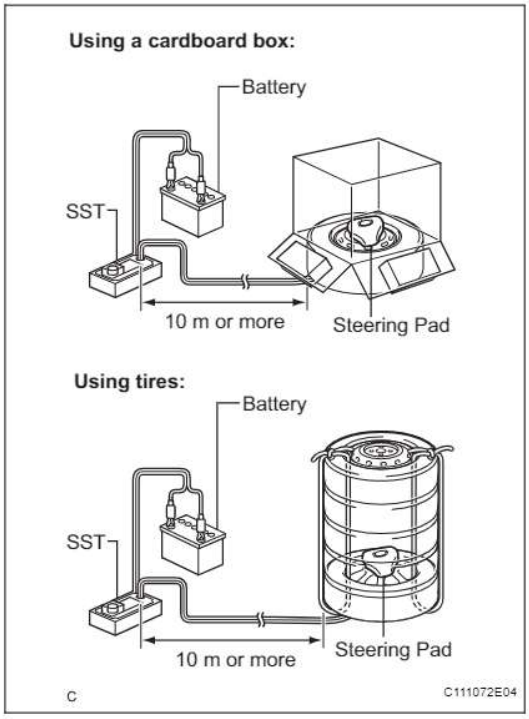





(2) Covering method using tires:
Place at least 3 tires (without disc wheels) on top of the tire (with disc wheel and steering pad).
**Tire size:**
**Width minimum:**
**185 mm (7.28 in.)**
**Inner diameter minimum:**
**360 mm (14.17 in.)**
**CAUTION:**
**Do not use tires with disc wheels to cover the tire (with disc wheel and steering pad).**
**NOTICE:**
- **Use tires that you are planning to throw away, as the airbag deployment may damage the tires.**
- **Do not place the SST connector under the tire as the connector may be damaged.**




(3) Tie the tires together with 2 wire harnesses.
**CAUTION:**
**Make sure that the wire harnesses are tight. If there is slack in a wire harness, the tires may come loose when the airbag is deployed.**




(f) Deploy the airbag.
(1) Connect the SST red clip to the positive (+) battery terminal and the black clip to the negative (-) battery terminal.
(2) Check that no one is within a 10 m (33 ft.) radius of the steering pad.
(3) Press the SST activation switch and deploy the airbag.
**CAUTION:**
**When deploying the airbag, make sure that no one is near the tires.**
HINT:
The airbag is deployed as the SST activation switch LED illuminates.




(g) Dispose of the steering pad.

**CAUTION:**

- **The steering pad becomes extremely hot when the airbag is deployed. Do not touch it for at least 30 minutes after deployment.**
- **Do not apply water to a steering pad with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

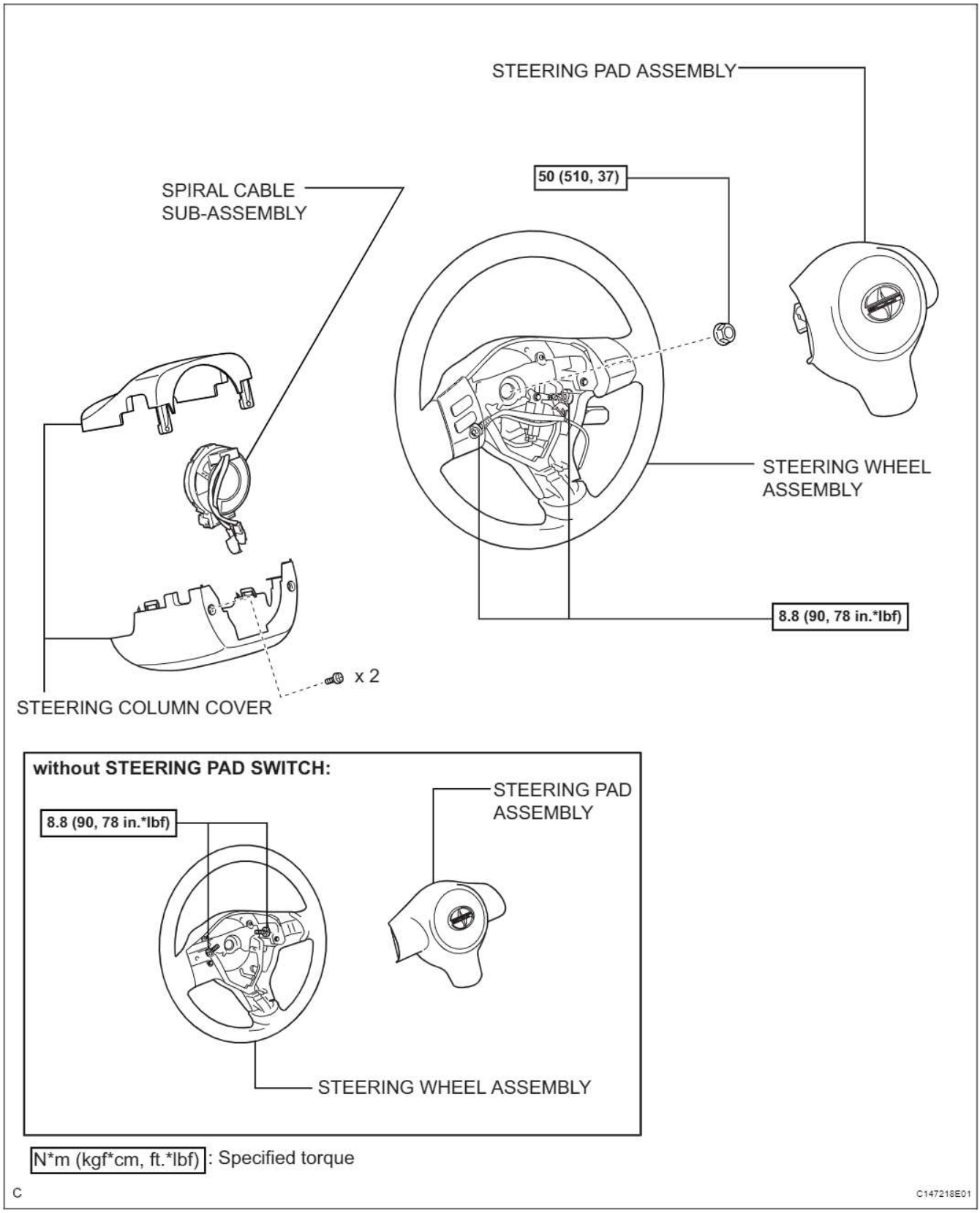
(1) Remove the steering pad from the disc wheel.

(2) Place the steering pad in a plastic bag, tie it tightly and dispose of it in the same way as other general parts.

# SPIRAL CABLE

## COMPONENTS



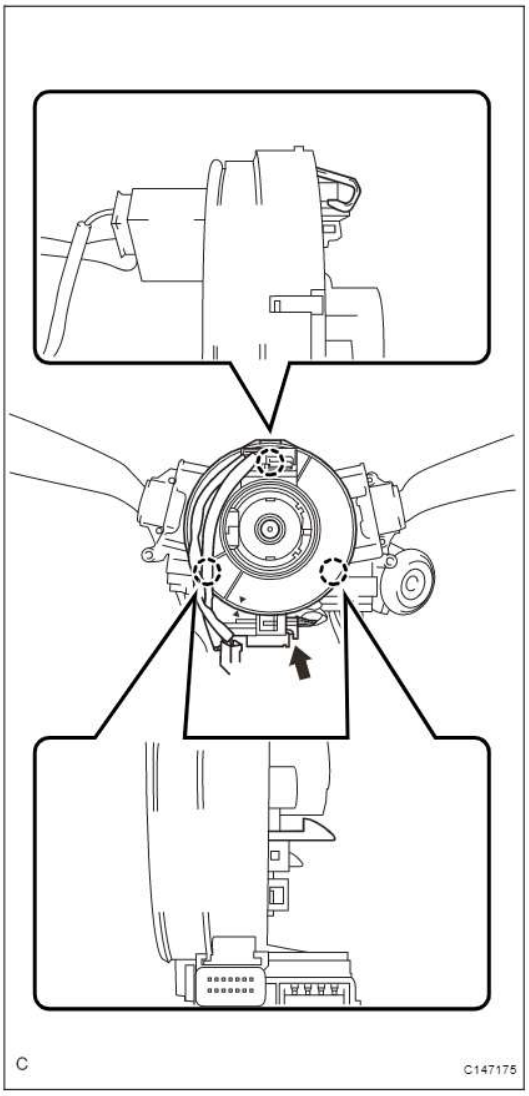


RS

# REMOVAL

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

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **CAUTION:**
   **Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**
2. **REMOVE STEERING PAD ASSEMBLY (See page RS-345)**
3. **PLACE FRONT WHEELS FACING STRAIGHT AHEAD**
4. **REMOVE STEERING WHEEL ASSEMBLY (See page SR-8)**
5. **REMOVE STEERING COLUMN COVER (See page SR-8)**
6. **REMOVE SPIRAL CABLE SUB-ASSEMBLY**
   (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.



# INSPECTION

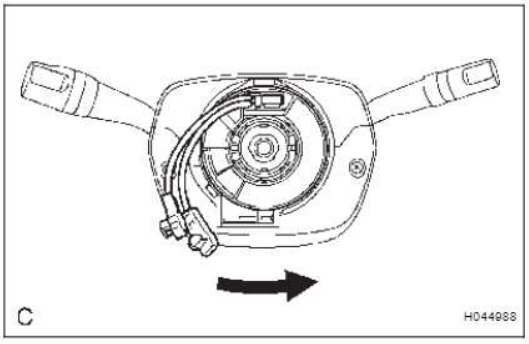
1. **INSPECT SPIRAL CABLE SUB-ASSEMBLY**
   (a) Check that there are no scratches or cracks on its connector, and/or that the cable does not have cracks, dents or chipping.

RS

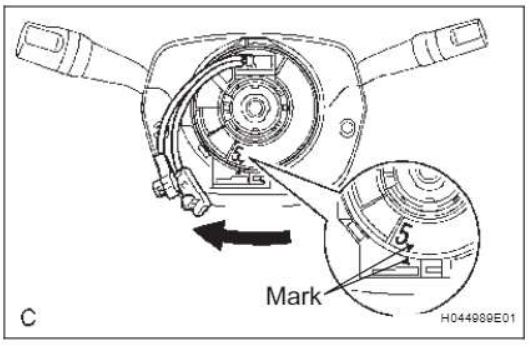
# INSTALLATION

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

1. **INSTALL SPIRAL CABLE SUB-ASSEMBLY**
   (a) Check that the front wheels are facing straight ahead.
   (b) Set the turn signal switch to the neutral position.
   **NOTICE:**
   **Make sure that the turn signal switch is in the neutral position, as the pin of the turn signal switch may be snapped.**
   (c) Install the spiral cable.
   **NOTICE:**
   **When replacing the spiral cable with a new one, remove the lock pin before installing the steering wheel.**
   (d) Connect the connectors to the spiral cable.
   **NOTICE:**
   **When handling the airbag connector, do not damage the airbag wire harness.**
2. **INSTALL STEERING COLUMN COVER**
3. **POSITION SPIRAL CABLE**
   (a) Slowly rotate the spiral cable counterclockwise by hand until it feels firm.
   **NOTICE:**
   **Do not use the airbag wire harness to turn the spiral cable.**




   (b) Rotate the spiral cable clockwise approximately 2.5 turns to align the marks.
   **NOTICE:**
   **Do not use the airbag wire harness to turn the spiral cable.**
   HINT:
   The spiral cable will rotate approximately 2.5 turns to the left and right from the center.




4. **INSTALL STEERING WHEEL ASSEMBLY (See page SR-15)**
5. **INSTALL STEERING PAD ASSEMBLY (See page RS-346)**
6. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
7. **INSPECT STEERING PAD ASSEMBLY (See page RS-346)**

8. **PERFORM INITIALIZATION**
   (a) Perform initialization (see page IN-23).
   **NOTICE:**
   **Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.**

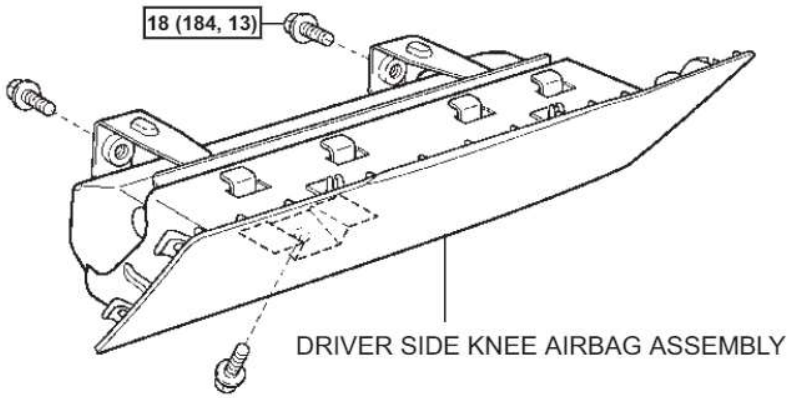
9. **CHECK SRS WARNING LIGHT**
   (a) Check the SRS warning light (see page RS-11).

10. **INSPECT STEERING WHEEL POSITION**

# DRIVER SIDE KNEE AIRBAG ASSEMBLY

## COMPONENTS

RS




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

C

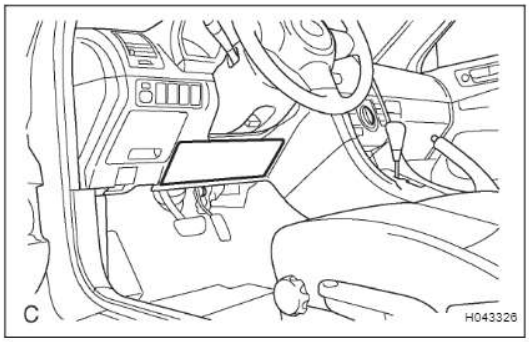
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# ON-VEHICLE INSPECTION

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

(a) Perform a diagnostic system check (see page RS-18).

(b) With the driver side knee airbag assembly installed on the vehicle, perform a visual check for the following:
Cuts, minute cracks or marked discoloration on the driver side knee airbag assembly.

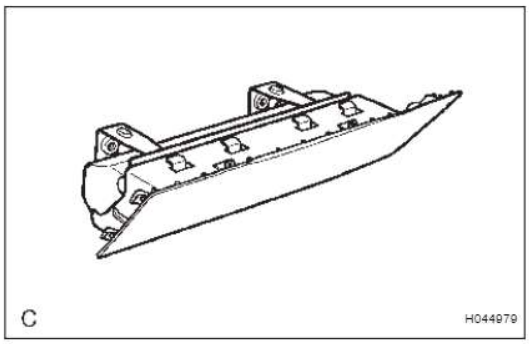



**2. INSPECT DRIVER SIDE KNEE AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)**

(a) Perform a diagnostic system check (see page RS-18).

(b) With the driver side knee airbag asseembly 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.



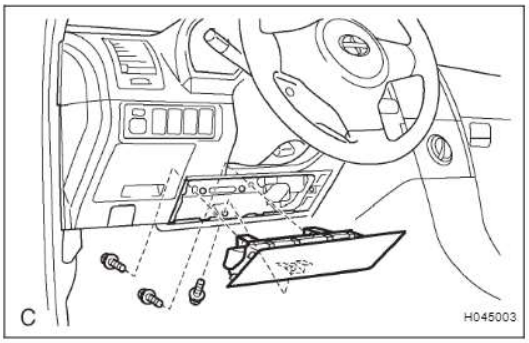

**CAUTION:**
**For removal and installation procedures of the driver side knee airbag assembly, be sure to follow the correct procedure.**

# REMOVAL

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

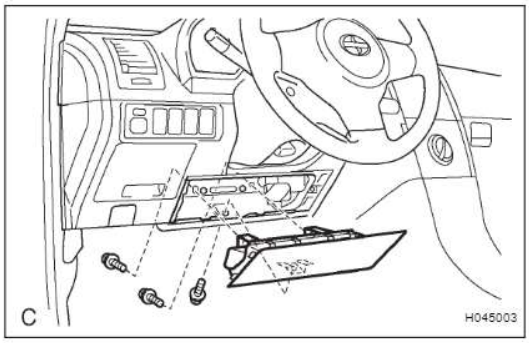
1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**

2. **REMOVE DRIVER SIDE KNEE AIRBAG ASSEMBLY**
   (a) Remove the 4 bolts and driver side knee airbag.
   (b) Disconnect the connector.
   **NOTICE:**
   **When handling the airbag connector, take care not to damage the airbag wire harness.**



# INSTALLATION

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




1. **INSTALL DRIVER SIDE KNEE AIRBAG ASSEMBLY**
   (a) Connect the connector.
   **NOTICE:**
   **When handling the airbag connector, take care not to damage the airbag wire harness.**
   (b) Install the front passenger side knee airbag with the 3 bolts.
   **Torque: 18 N*m (184 kgf*cm, 13 ft.*lbf)**
2. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
3. **PERFORM INITIALIZATION**
   (a) Perform initialization (see page IN-23).
   **NOTICE:**
   **Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.**
4. **CHECK SRS WARNING LIGHT**
   (a) Check the SRS warning light (see page RS-11).

RS

RS

# DISPOSAL

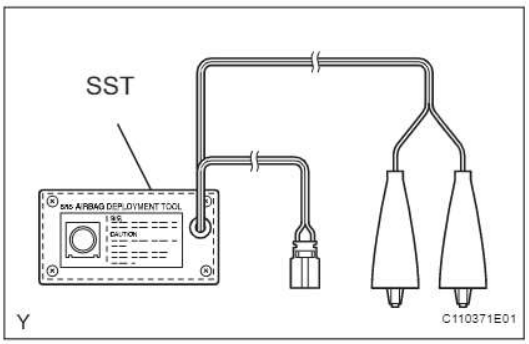
HINT:
When scrapping a vehicle equipped with an SRS or disposing of driver side knee airbag assembly, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

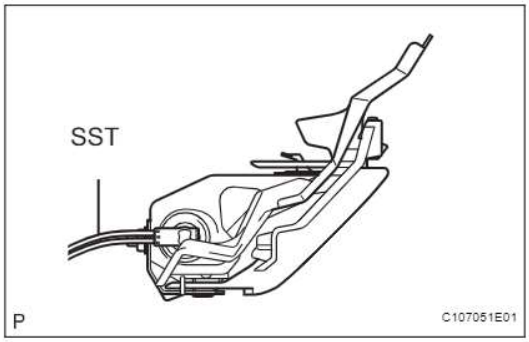
**CAUTION:**

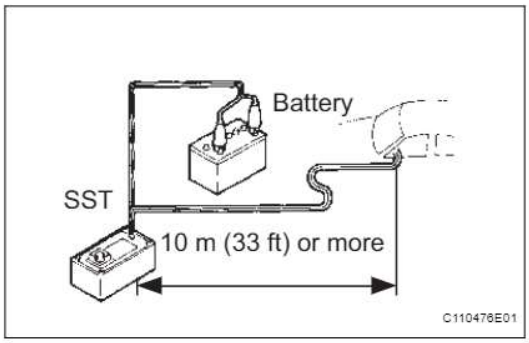
- **Never dispose of a driver side knee airbag assembly that has an undeployed airbag.**
- **The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.**
- **When deploying the airbag, always use the specified 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.**
- **An airbag or pretensioner may be activated by static electricity.**
  **To prevent this, be sure to touch a metal surface with bare hands to discharge static electricity performing this procedure.**

1. **DISPOSE OF DRIVER SIDE KNEE 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-347).
   (b) Precaution (see page RS-1).
   (c) Disconnect the cable from the negative (-) battery terminal.
   Wait for 90 seconds after disconnecting the cable to prevent the airbag from deploying.
   (d) Remove the driver side knee airbag assembly (see page RS-359).






(e) Install the SST.

(1) 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.**

(2) Install the driver side knee airbag assembly (see page RS-359).

**NOTICE:**

**Take care not to damage the SST wire harness.**

(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 battery negative (-) terminal.

(f) Deploy the airbag.

(1) Check that no one is inside the vehicle or within a 10 m (33 ft) radius of the vehicle.

(2) Press the SST activation switch and deploy the airbag.

**CAUTION:**

- **When deploying the airbag, make sure that no one is near the vehicle.**
- **The 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:

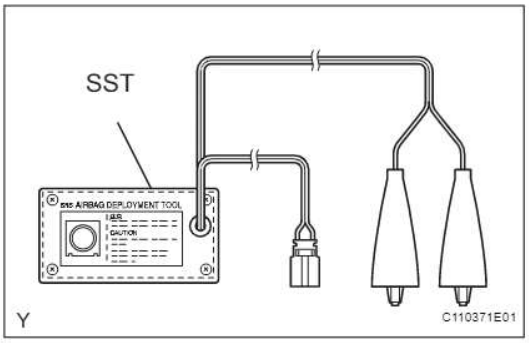
The airbag is deployed as the LED of the SST activation switch comes on.

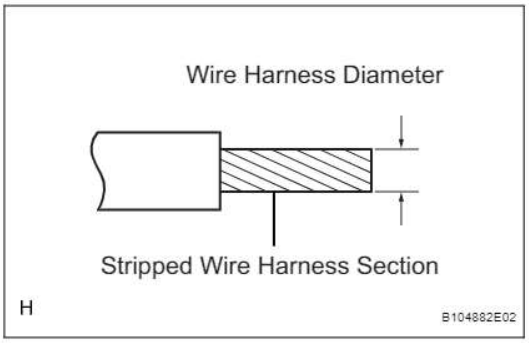
**2. DISPOSE OF DRIVER SIDE KNEE AIRBAG ASSEMBLY (WHEN NOT INSTALLED IN VEHICLE)**

**NOTICE:**

- **When disposing of the driver side knee airbag assembly, never use the customer's vehicle to deploy the airbag.**

RS




- **Be sure to follow the procedure detailed below when deploying the airbag.**

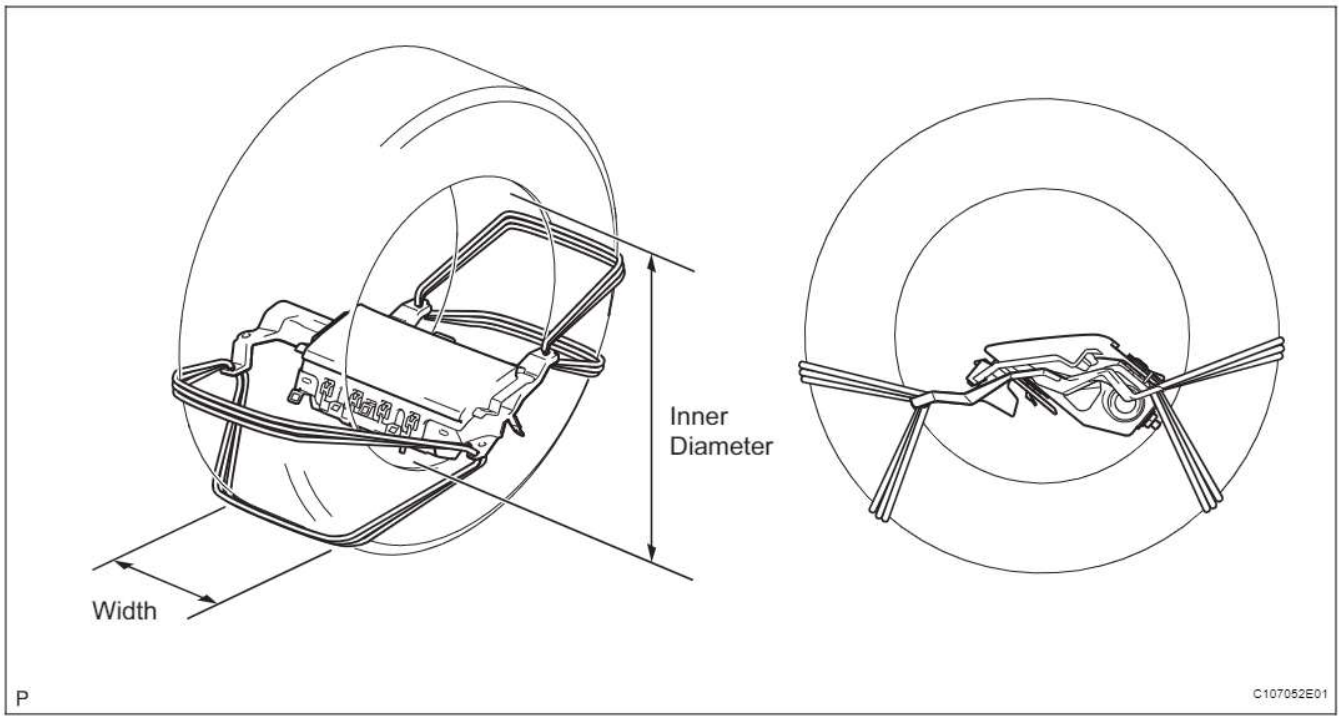
HINT:
Prepare a battery as the power source to deploy the airbag.

(a) Check the function of the SST (see page RS-349).

(b) Remove the driver side knee airbag assembly (see page RS-359).
**CAUTION:**
- **When removing the driver side knee airbag assembly, work must be started 90 seconds after the ignition switch is turned off and the negative (-) terminal cable is disconnected from the battery.**
- **When storing the 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 $mm^2$ or more (0.0019 $in.^2$ or more)**
**CAUTION:**
**If the wire harness is too thin or an alternative object is used to tie down the 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 $mm^2$ (0.0019 $in.^2$).**
HINT:
To calculate the area of the stripped wire harness section:
Area = 3.14 x $(Diameter)^2$ divided/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.)**

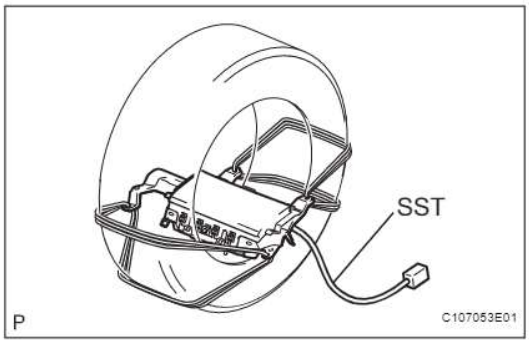



**CAUTION:**

- **Make sure that the wire harness is tight. If there is slack in a 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:**

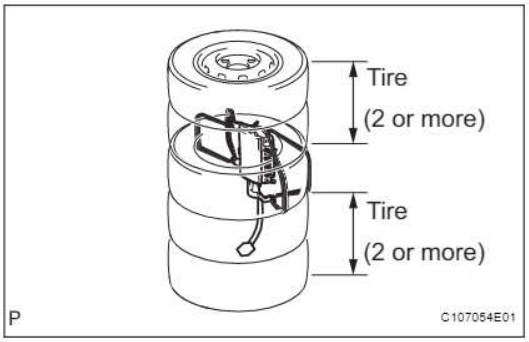
**Use a disc wheel (with tire) that you are planning to throw away, as the airbag deployment will damage the disc wheel.**



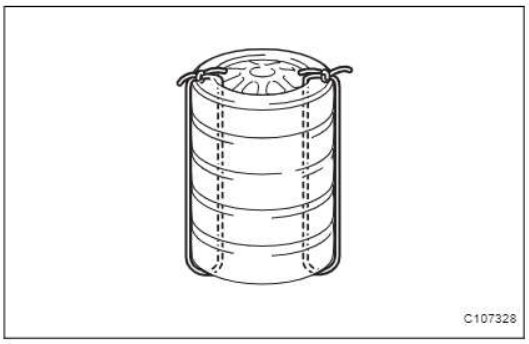

(d) Install the SST.

(1) Connect the SST connector to the driver side knee airbag assembly.

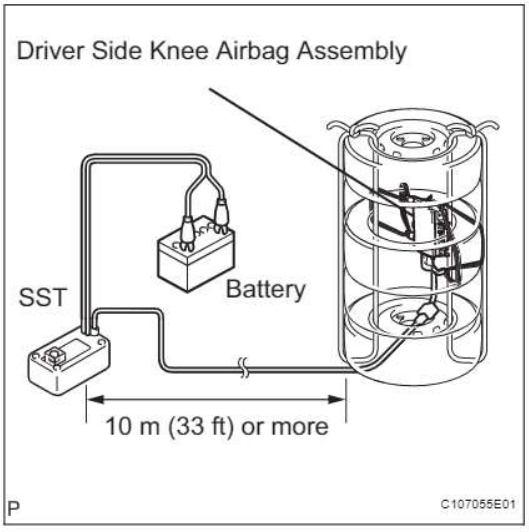
**SST 09082-00770**




(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 the disc wheel installed.
**NOTICE:**
**Do not place the SST connector under the tire because it could be damaged.**

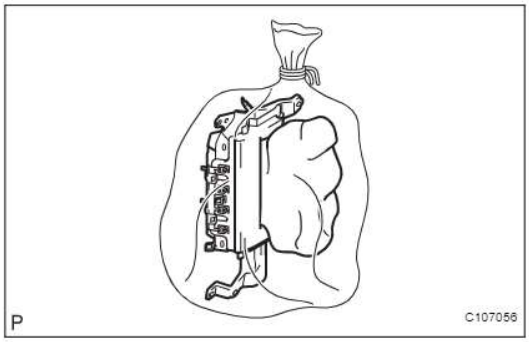



(3) Tie the tires together with 2 wire harnesses.
**CAUTION:**
**Make sure that the wire harness is tight. Looseness in the wire harness results in the tires coming free due to the shock when the airbag is deployed.**




(f) Install the SST.
(1) Connect the SST connector.
**SST 09082-00700**
**NOTICE:**
**To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tire.**

(g) Deploy the airbag.
(1) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the battery negative (-) terminal.
(2) Check that no one is within a 10 m (33 ft) radius of the 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.**

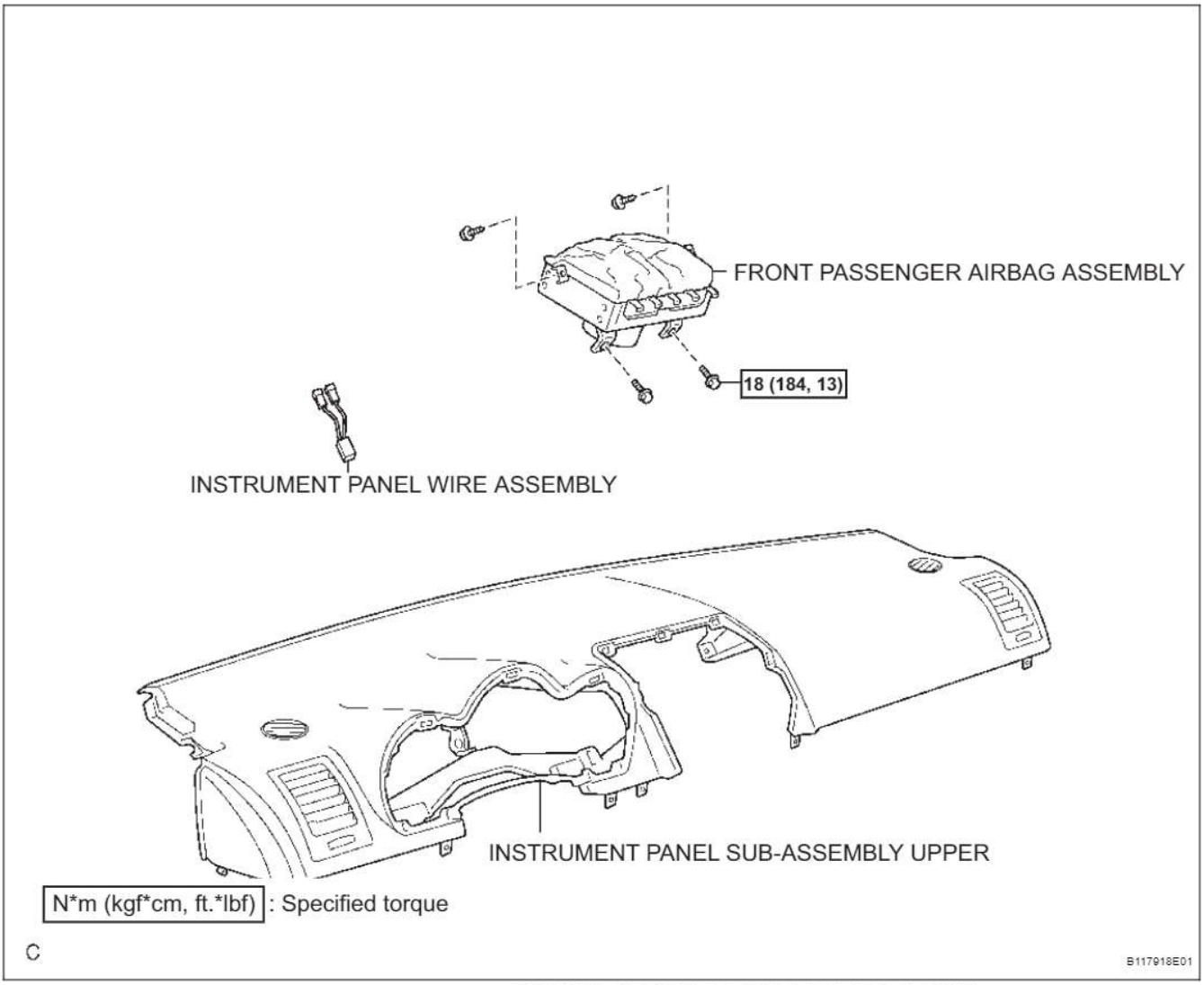
(1) Remove the driver side knee airbag assembly from the tire.
(2) Place the driver side knee airbag assembly in a plastic bag, tie it tightly and dispose of it in the same way as other general parts.

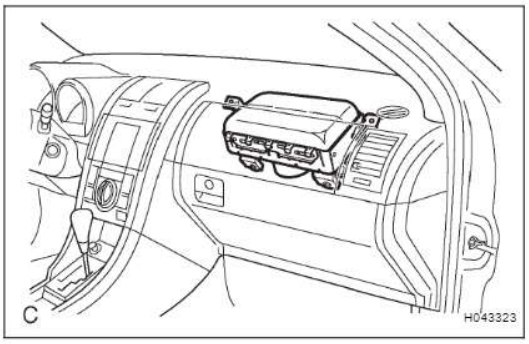
RS

# FRONT PASSENGER AIRBAG ASSEMBLY

## COMPONENTS

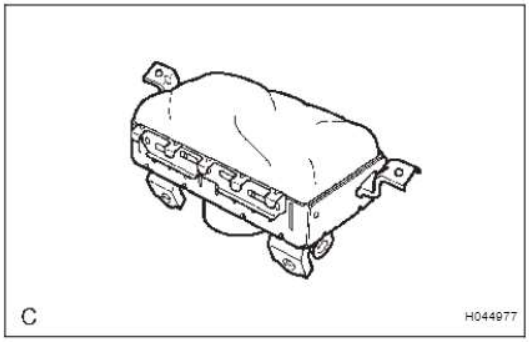
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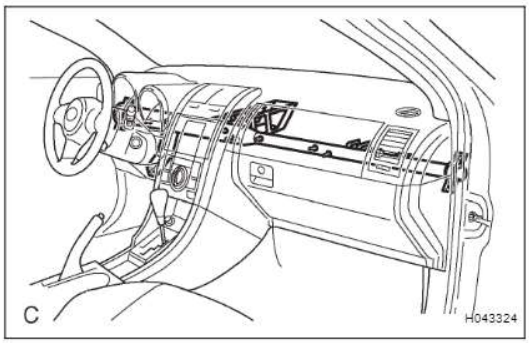



## ON-VEHICLE INSPECTION

1. **CHECK FRONT PASSENGER AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-18).
   (b) With the front passenger airbag installed on the vehicle, perform a visual check:
   Check for cuts, cracks or discoloration on the front passenger airbag surface and in the grooved portion.
   If any of the defects mentioned above are present, replace the front passenger airbag assembly with a new one.




**CAUTION:**
**For removal and installation of the front passenger airbag assembly, be sure to follow the correct procedures.**

**2. CHECK FRONT PASSENGER AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**

(a) Perform a diagnostic system check (see page RS-18).

(b) With the front passenger airbag removed from the vehicle, perform a visual check:

- Check for cuts, cracks or discoloration on the front passenger airbag.
- Check for cracks or other damage on the connectors.
- Check for deformation or cracks on the instrument panel and instrument panel reinforcement.

If any of the defects mentioned above are present, replace the front passenger airbag assembly with a new one.

**CAUTION:**
**For removal and installation of the front passenger airbag assembly, be sure to follow the correct procedures.**

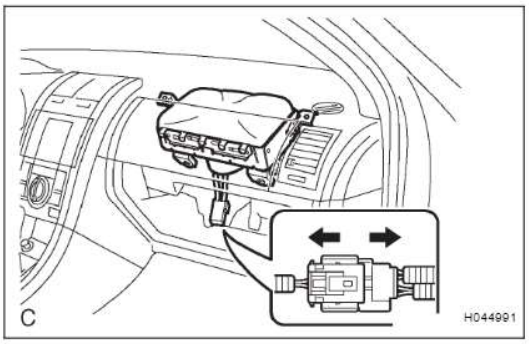
RS

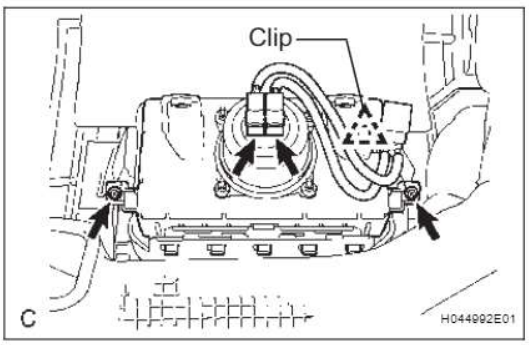
RS

# REMOVAL

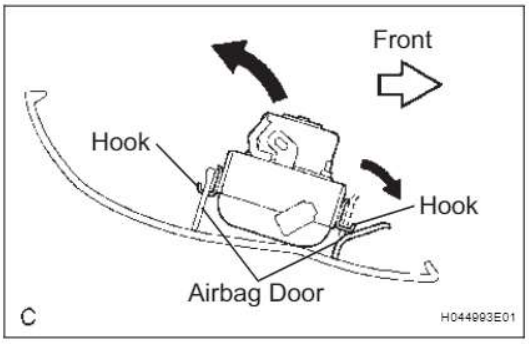
**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **CAUTION:**
   **Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**
2. **REMOVE GLOVE COMPARTMENT DOOR ASSEMBLY**
3. **REMOVE FRONT PASSENGER AIRBAG ASSEMBLY**
   (a) Disconnect the connector from the airbag.
   **NOTICE:**
   **When handling the airbag connector, do not damage the airbag wire harness.**
   (b) Remove the instrument panel sub-assembly upper (see page IP-4).
   (c) Remove the clip.



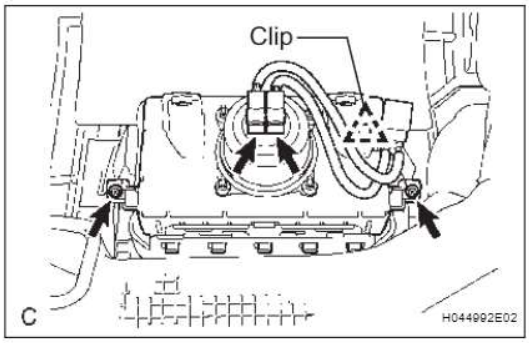

   (d) Disconnect the connectors and remove the instrument panel wire assembly.
   (e) Remove the 2 screws.



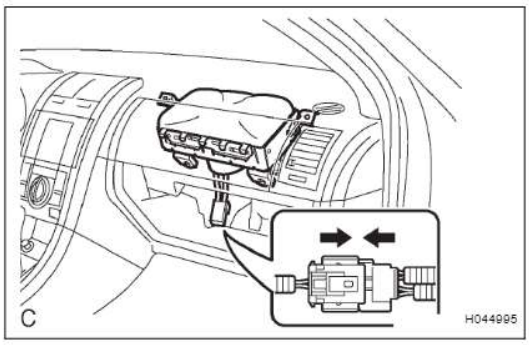

   (f) Release the front side airbag door from the hook by slightly deflecting it and roll the front passenger airbag assembly rearward.
   (g) Release the rear side airbag door from the other hook and remove the front passenger airbag assembly.

# INSTALLATION

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




1. **INSTALL FRONT PASSENGER AIRBAG ASSEMBLY**
   (a) Install the front passenger airbag assembly with the 2 screws.
   (b) Connect the connectors to the airbag.
   (c) Install the clip.
   (d) Install the instrument panel sub-assembly upper (see page IP-9).




   (e) Connect the connector to the airbag.
   **NOTICE:**
   **When handling the airbag connector, do not damage the airbag wire harness.**

2. **INSTALL GLOVE COMPARTMENT DOOR ASSEMBLY (See page IP-11)**

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

4. **PERFORM INITIALIZATION**
   (a) Perform initialization (see page IN-23).
   **NOTICE:**
   **Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.**

5. **CHECK SRS WARNING LIGHT**
   (a) Check the SRS warning light (see page RS-11).

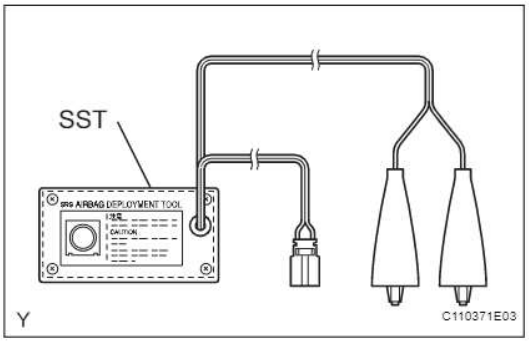
RS

# DISPOSAL

HINT:
When scrapping a vehicle equipped with an SRS or disposing of the front passenger 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 front passenger airbag with an unactivated airbag.**
- **The airbag produces a loud, exploding sound when it activates. Perform the operation where it will not be a nuisance to people nearby.**
- **When activating the airbag, always use the specified SST (SRS airbag deployment tool).**
- **Perform procedures in a place away from electrical interference.**
- **When activating the airbag, stand at least 10 m (33 ft.) away from the airbag.**
- **The airbag becomes very hot when it is deployed. Do not touch it for at least 30 minutes after activation.**
- **Use gloves and safety glasses when handling a deployed airbag.**
- **Do not apply water to a deployed airbag.**
- **Always wash your hands with water after completing the operation.**
- **An airbag or pretensioner may be activated by static electricity.**
  **To prevent this, be sure to touch a metal surface with bare hands to discharge static electricity performing this procedure.**

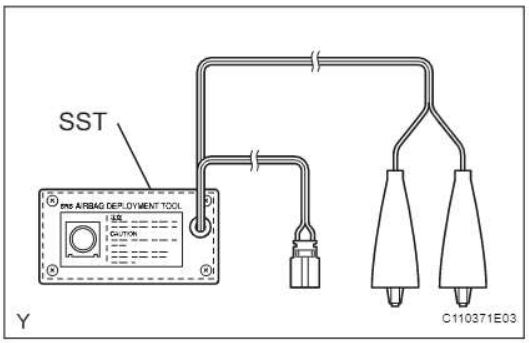


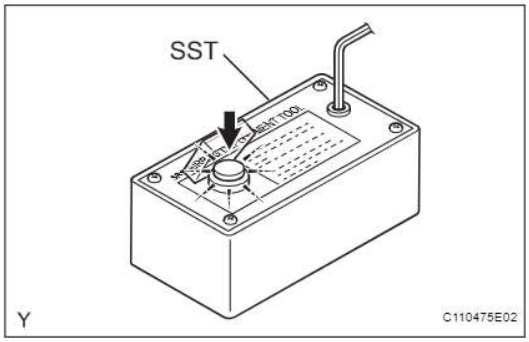

**1. DISPOSE OF FRONT PASSENGER AIRBAG ASSEMBLY TOGETHER WITH VEHICLE**

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

(a) Check if SST is functioning properly.
**SST 09082-00700**

(1) Connect the SST's red clip to the positive (+) battery terminal and the black clip to the negative (-) battery terminal.
HINT:
The yellow connector will be used to connect to another SST in a later step.



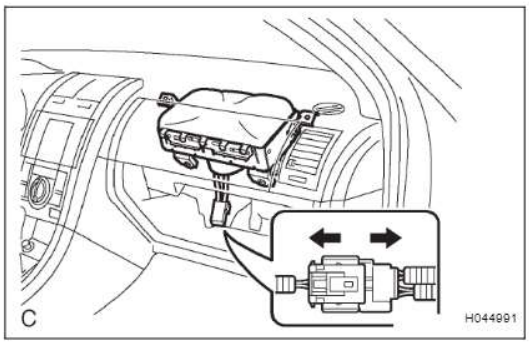



(2) Press the SST activation switch, and check that the LED of the SST activation switch illuminates.
**CAUTION:**
**If the LED illuminates when the activation switch is not pressed, SST may have a malfunction, in which case that SST should not be used.**
(3) Disconnect SST from the battery.

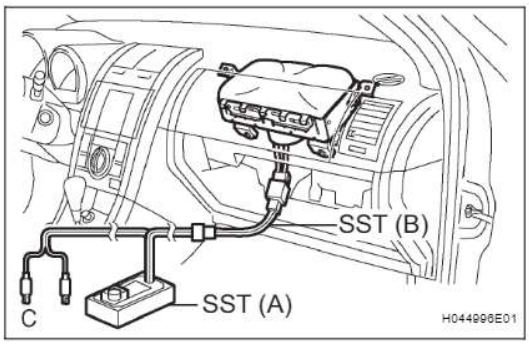
(b) Follow the "Precaution" (see page RS-1).

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

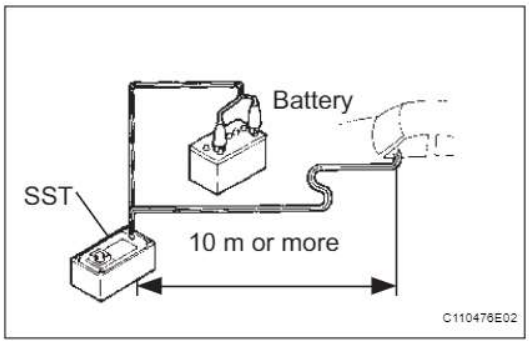
(d) Remove the glove compartment door (see page IP-6).




(e) Install SST.
(1) Disconnect the front passenger airbag connector.
**NOTICE:**
**When handling the airbag connector, do not damage the airbag wire harness.**




(2) Connect SST (A) to SST (B). Then connect SST (B)'s connector to the cable.
**SST 09082-00700, 09082-00780**
**NOTICE:**
**To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.**




(3) Move SST at least 10 m (33 ft.) away from the front side window.
(4) Maintain a small opening in the front side window for the SST wire harness. Close the remaining windows of the vehicle. Close all doors.
**NOTICE:**
**Take care not to damage the SST wire harness.**
(5) Connect the SST red clip to the positive (+) battery terminal and the black clip to the negative (-) battery terminal.

RS

(f) Deploy the airbag.

(1) Check that no one is inside the vehicle or within a 10 m (33 ft.) radius of the vehicle.

(2) Press the SST activation switch and deploy the airbag.

**CAUTION:**

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

HINT:

The airbag is deployed as the SST activation switch LED illuminates.

**2. DISPOSE OF ONLY FRONT PASSENGER AIRBAG ASSEMBLY**

**NOTICE:**

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

HINT:

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

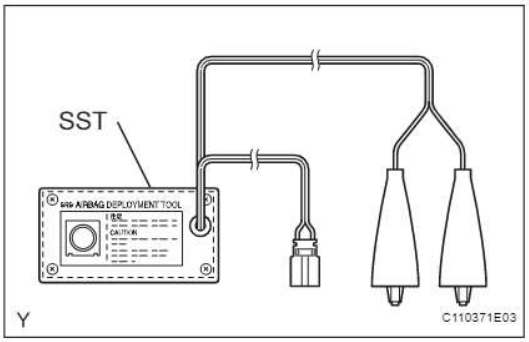
(a) Check if SST is functioning properly.

**SST 09082-00700**

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

HINT:

The yellow connector will be used to connect to another SST in a later step.

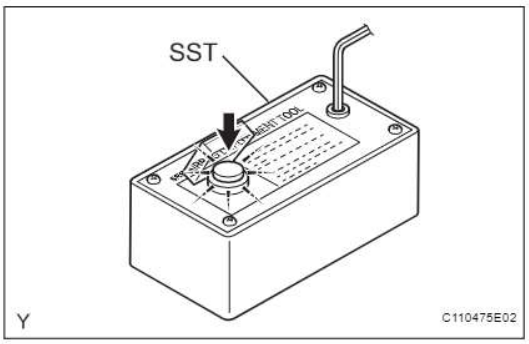



(2) Press the SST activation switch, and check that the LED of the SST activation switch illuminates.

**CAUTION:**

**If the LED illuminates when the activation switch is not pressed, SST may have a malfunction, in which case that SST should not be used.**

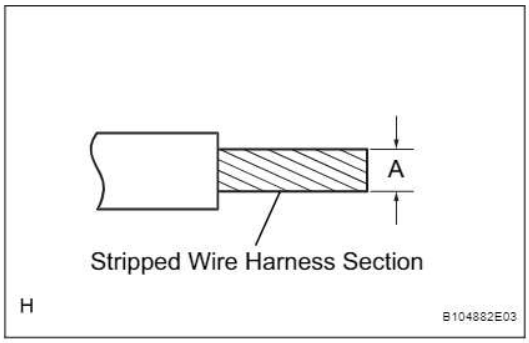
(3) Disconnect SST from the battery.



(b) Remove the front passenger airbag (see page RS-367).

**CAUTION:**

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




(c) Using service wire harnesses for the vehicle, tie down the airbag to a tire.

**Wire harness:**

**Stripped wire harness section**

**1.25 $mm^2$ or more (0.0019 $in.^2$ or more)**

**NOTICE:**

**Use a tire that you are planning to throw away, as the airbag deployment may damage the tire.**

**CAUTION:**

**Do not use wire harnesses that are too thin or any other substitute items to tie down the front passenger airbag assembly. They may snap when the airbag deploys. Always use vehicle wire harnesses that have an area of at least 1.25 $mm^2$ (0.0019 $in.^2$).**

HINT:

To calculate the area of the stripped wire harness section:

Area = 3.14 x $Diameter^2$ /4

(1) Position the airbag inside the tire so that the brackets contact the tire.

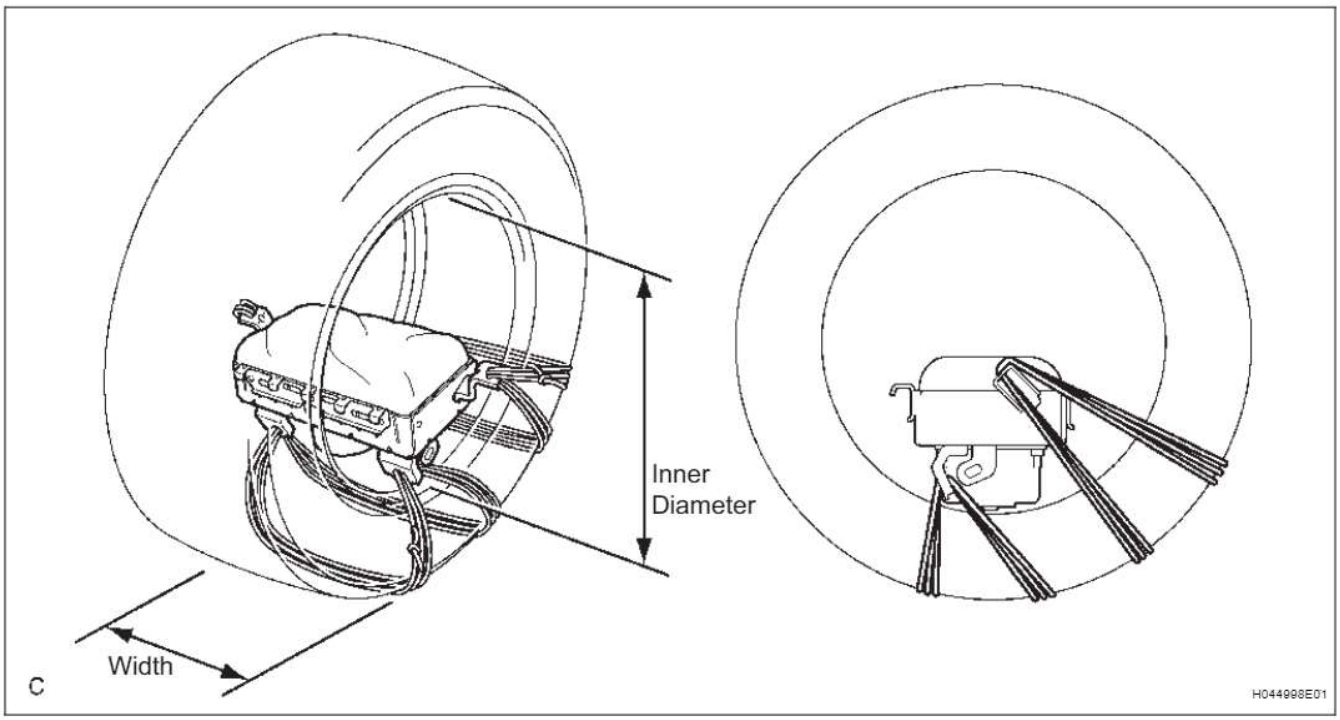
**Tire size minimum:**

**Width minimum: 185 mm (7.28 in.)**

**Inner diameter minimum: 360 mm (14.17 in.)**

RS

(2) Wind 3 wire harnesses at least twice around the airbag brackets and tire.

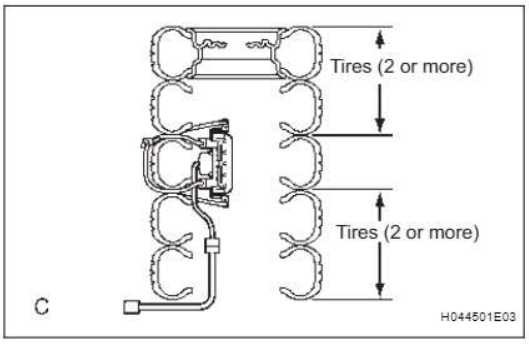



**CAUTION:**

- **Tightly wind the wire harnesses around the brackets so that there is no slack.**
- **Make sure that the wire harnesses are tight. If there is slack in a wire harness, the airbag may come loose when it is deployed.**
- **Always tie down the airbag with the airbag deployment side facing inside the tire.**

(d) Install SST.

(1) Connect the SST connector to the airbag.
**SST 09082-00780**



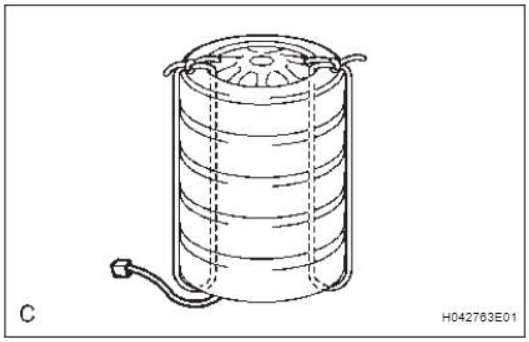

(e) Place the tires.

(1) Place at least 2 tires under the tire to which the airbag is tied.

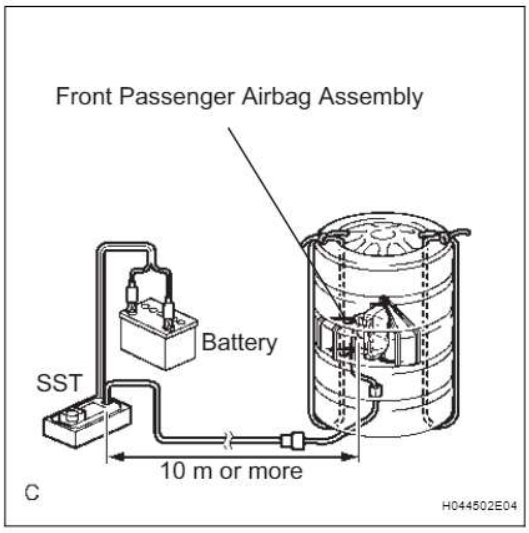
(2) Place at least 2 tires on top of the tire to which the airbag is tied. The top tire should have a disc wheel installed.

**NOTICE:**

- **Do not place the SST connector under the tire as the connector may be damaged.**
- **Use a disc wheel that you are planning to throw away, as the airbag deployment will damage the disc wheel.**
- **Use tires that you are planning to throw away, as the airbag deployment may damage the tires.**

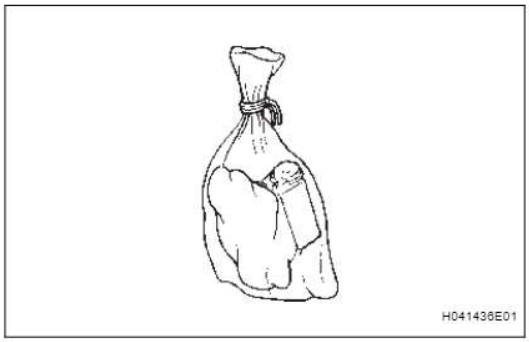



(3) Tie the tires together with 2 wire harnesses.
**CAUTION:**
**Make sure that the wire harnesses are tight. If there is slack in a wire harness, the tires may come loose when the airbag is deployed.**




(f) Install SST.
(1) Connect the SST connector.
**SST 09082-00700**
**NOTICE:**
**To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tire.**

(g) Deploy the airbag.
(1) Connect the SST red clip to the positive (+) battery terminal and the black clip to the negative (-) battery terminal.
(2) Check that no one is within a 10 m (33 ft.) radius of the airbag.
(3) Press the SST activation switch and deploy the airbag.
**CAUTION:**
**When deploying the airbag, make sure that no one is near the tires.**
HINT:
The airbag is deployed as the SST activation switch LED illuminates.



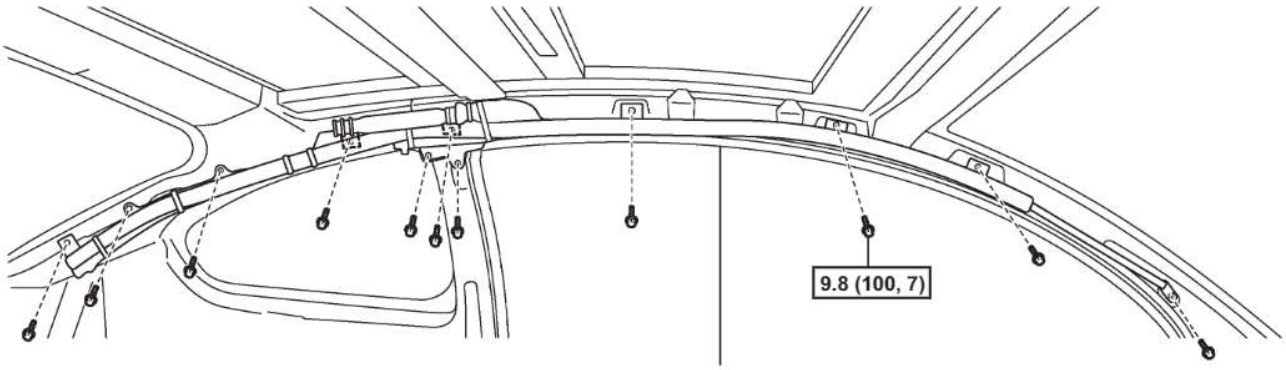

(h) Dispose of the airbag.
**CAUTION:**
- **The airbag becomes extremely hot when it is deployed. Do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a deployed airbag.**
- **Do not apply water to a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

(1) Remove the airbag from the tire.
(2) Place the airbag in a plastic bag, tie it tightly and dispose of it in the same way as other general parts.

# CURTAIN SHIELD AIRBAG ASSEMBLY

## COMPONENTS





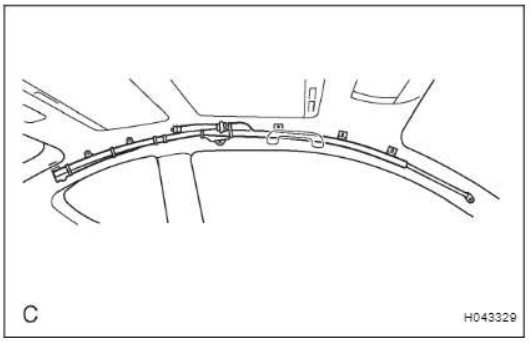

CURTAIN SHIELD AIRBAG ASSEMBLY LH

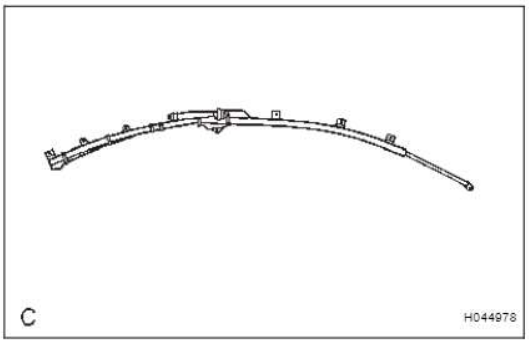
N*m (kgf*cm, ft.*lbf) : Specified torque

C

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RS




# ON-VEHICLE INSPECTION

**1. INSPECT CURTAIN SHIELD AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION)**

(a) Perform a diagnostic system check (see page RS-18).

(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-18).

(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:

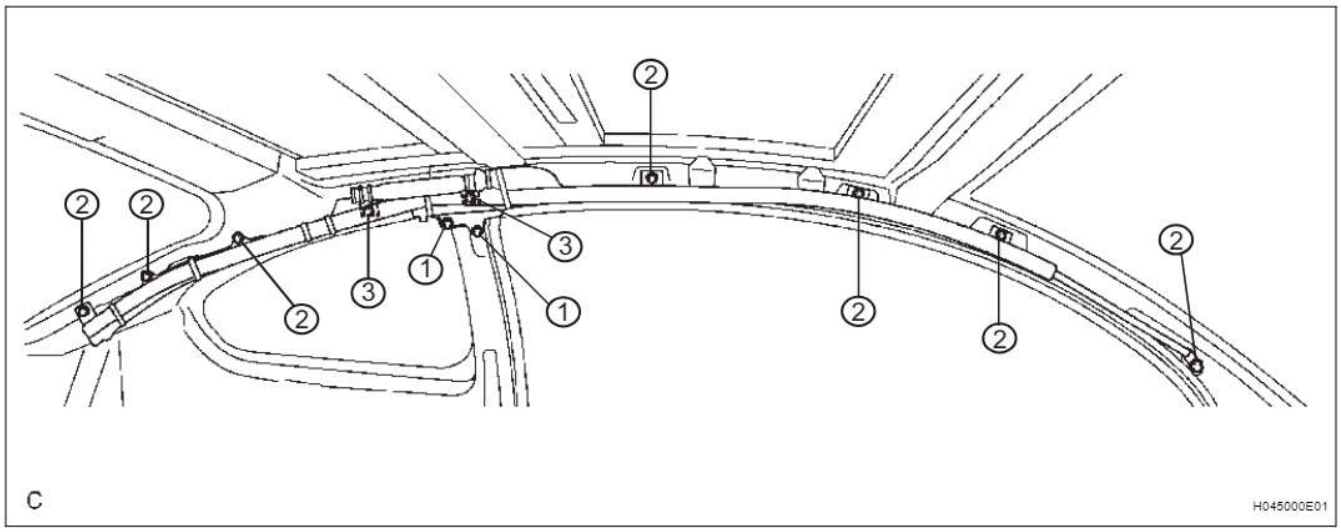
- Cuts, minute cracks or marked discoloration on the curtain shield airbag assembly.
- Cracks or other damage to the connectors.

**CAUTION:**
**For removal and installation procedures of the curtain shield airbag assembly, be sure to follow the correct procedure.**

# REMOVAL

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

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **CAUTION:**
   **Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**
2. **REMOVE ROOF HEADLINING ASSEMBLY**
   (a) Remove the roof headlining (see page IR-8).
3. **REMOVE CURTAIN SHIELD AIRBAG ASSEMBLY LH**



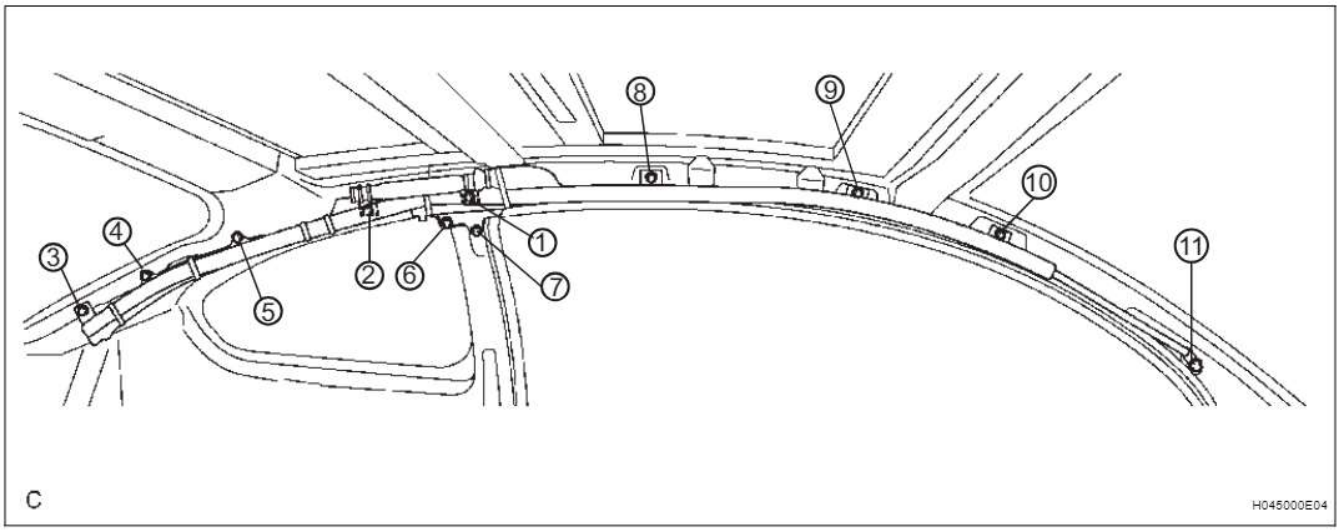

(a) Disconnect the connector.
**NOTICE:**
**When handling the airbag connector, take care not to damage the airbag wire harness.**
(b) Remove the 11 bolts and the curtain shield airbag assembly.

RS

# INSTALLATION

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

**1. INSTALL CURTAIN SHIELD AIRBAG ASSEMBLY LH**




(a) Install the curtain shield airbag assembly with the 11 bolts.
**Torque: 9.8 N*m (100 kgf*cm, 7 ft.*lbf)**
**NOTICE:**
**Do not twist the curtain shield airbag assembly when installing it.**

(b) Connect the connector.
**NOTICE:**
**When handling the airbag connector, take care not to damage the airbag wire harness.**

**2. INSTALL ROOF HEADLINING ASSEMBLY**

(a) Install the roof headlining assembly (see page IR-14).

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

**4. PERFORM INITIALIZATION**

(a) Perform initialization (see page IN-23).
**CAUTION:**
**Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.**

**5. CHECK SRS WARNING LIGHT**

(a) Check the SRS warning light (see page RS-11).

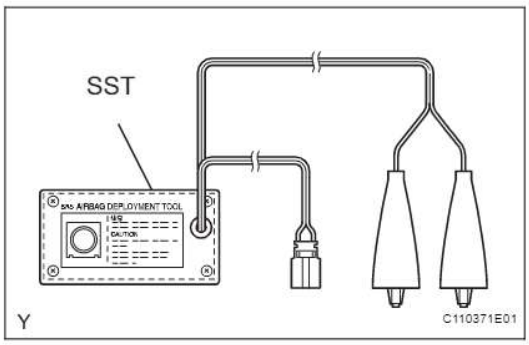
# DISPOSAL

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

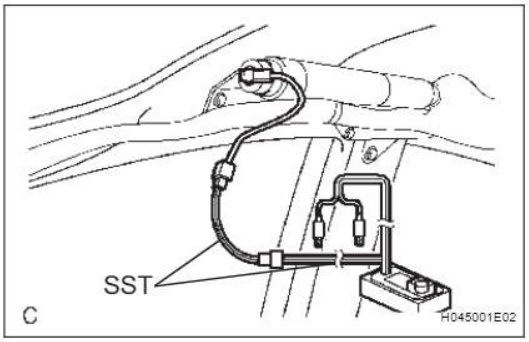
**CAUTION:**

- **Never dispose of a curtain shield airbag assembly that has an undeployed airbag.**
- **The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.**
- **When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.**
- **When deploying the airbag, perform the operation at least 10 m (33 ft) away from the curtain shield airbag assembly.**
- **The curtain shield airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a curtain shield airbag assembly with a deployed airbag.**
- **Do not apply water, etc. to a curtain shield airbag assembly with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**
- **An airbag or pretensioner may be activated by static electricity.**
  **To prevent this, be sure to touch a metal surface with bare hands to discharge static electricity performing this procedure.**

1. **DISPOSE OF CURTAIN SHIELD AIRBAG ASSEMBLY (WHEN INSTALLED IN VEHICLE)**
   HINT:
   Prepare a battery as the power source to deploy the airbag.




   (a) Check the function of the SST (see page RS-347).
   (b) Precaution (see page RS-1).
   (c) Disconnect the cable from the negative battery terminal. Wait for 90 seconds after disconnecting the cable to prevent the airbag from deploying.
   (d) Remove the roof headlining assembly (see page IR-8).
   (e) Install the SST.
      (1) Disconnect the connector from the curtain shield airbag assembly.
      **NOTICE:**
      **When handling the airbag connector, take care not to damage the airbag wire harness.**

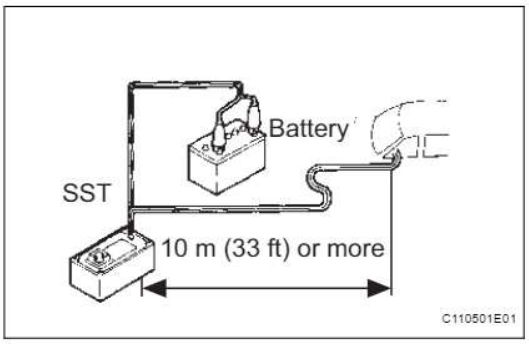



(2) After connecting the SST below to each other, connect them to the curtain shield airbag assembly.

**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 battery negative (-) terminal.

(f) Deploy the airbag.

(1) Check that no one is inside the vehicle or within a 10 m (33 ft) radius of the vehicle.

(2) Press the SST activation switch and deploy the airbag.

**CAUTION:**

- **When deploying the airbag, make sure that no one is near the vehicle.**
- **The curtain shield airbag 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:

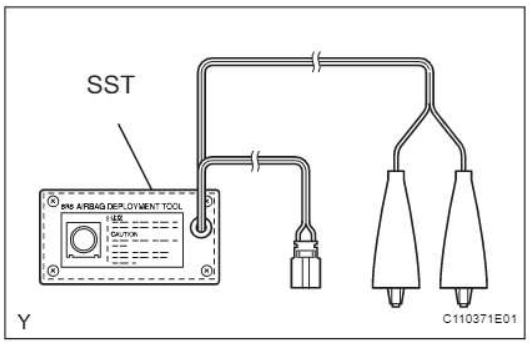
The airbag is deployed as the LED of the SST activation switch comes on.

**2. DISPOSE OF CURTAIN SHIELD AIRBAG ASSEMBLY (WHEN NOT INSTALLED IN VEHICLE)**

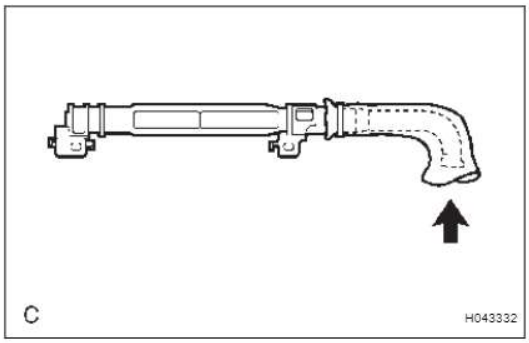
**NOTICE:**

- **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.**

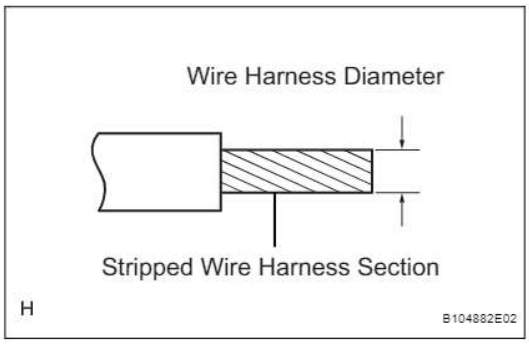
HINT:
Prepare a battery as the power source to deploy the airbag.



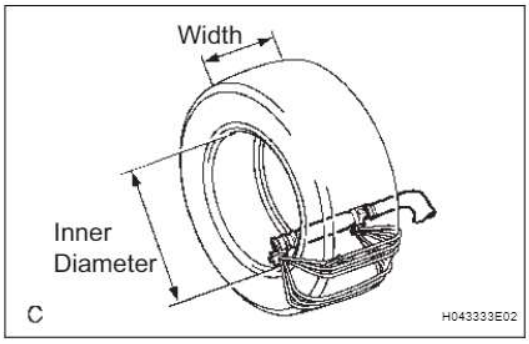

(a) Check the function of the SST (see page RS-349).
(b) Remove the curtain shield airbag assembly (see page RS-376).
**CAUTION:**
**When removing the curtain shield airbag assembly, work must be started 90 seconds after the ignition switch is turned off and the negative (-) terminal cable is disconnected from the battery.**




(c) Cut off the deployment section of the curtain shield airbag assembly.



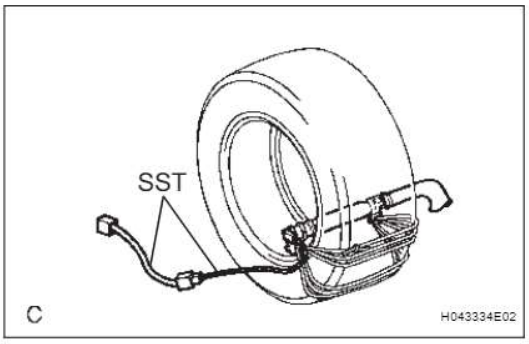

(d) Using a service-purpose wire harness for the vehicle, tie down the curtain shield airbag assembly to the tire.
**Wire harness:**
**Stripped wire harness section**
**1.25 $mm^2$ or more (0.0019 $in.^2$ or more)**
**CAUTION:**
**If the wire harness is too thin or an alternative object is used to tie down the curtain shield airbag assembly, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with an area of at least 1.25 $mm^2$ (0.0019 $in.^2$).**
HINT:
To calculate the area of the stripped wire harness section:
Area = 3.14 x $(Diameter)^2$ divided/4



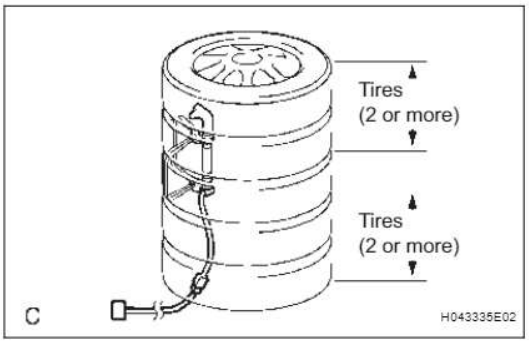

(1) Position the curtain shield airbag assembly inside the tire as shown in the illustration.
**Tire size:**
**Must exceed the following dimensions**
**Width:**
**185 mm (7.28 in.)**
**Inner diameter:**
**360 mm (14.17 in.)**

RS

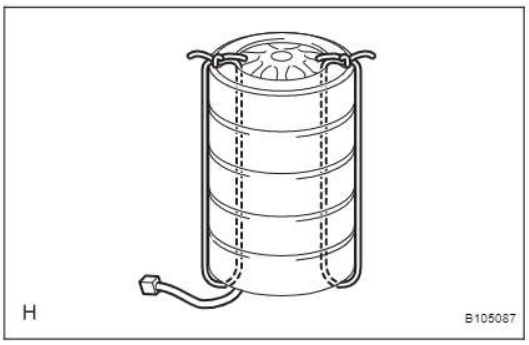
**CAUTION:**
**Make sure that the wire harness is tight. If there is slack in the wire harness, the curtain shield airbag assembly may become loose due to the shock when the airbag is deployed.**
**NOTICE:**
**Use a disc wheel (with tire) that you are planning to throw away, as the airbag deployment will damage the disc wheel.**



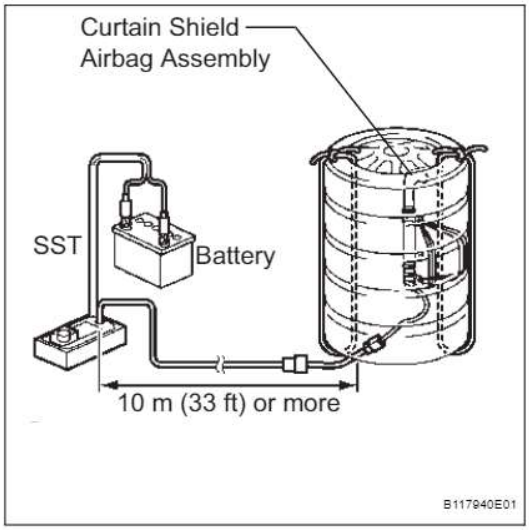

(e) Install the SST.
(1) After connecting the SST below to each other, connect them to the curtain shield airbag assembly.
**SST 09082-00802 (09082-10801, 09082-20801)**




(f) Place the tires.
**CAUTION:**
**Do not place the deployment direction of the curtain shield airbag assembly facing toward the ground.**
(1) Place at least 2 tires under the tire 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 the disc wheel installed.
**NOTICE:**
**Do not place the SST connector under the tire because it could be damaged.**




(3) Tie the tires together with 2 wire harnesses.
**CAUTION:**
**Make sure that the wire harness is tight. Looseness in the wire harness results in the tires coming free due to the shock when the airbag is deployed.**




(g) Install the SST.
(1) Connect the SST connector.
**SST 09082-00700**
**NOTICE:**
**To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tire.**

(h) Deploy the airbag.
(1) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the battery negative (-) terminal.
(2) Check that no one is within a 10 m (33 ft) radius of the 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.




(i) 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 in the same way as other general parts.

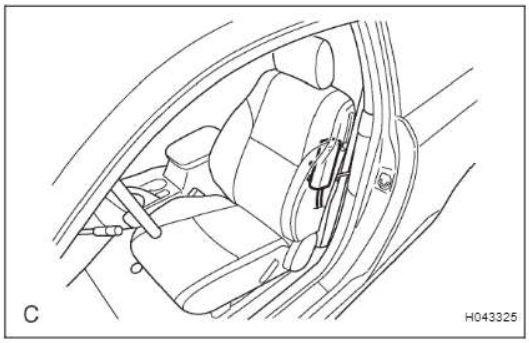
# FRONT SEAT SIDE AIRBAG ASSEMBLY

## ON-VEHICLE INSPECTION



1. **FRONT SEAT SIDE AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION)**
   (a) Perform a diagnostic system check (see page RS-18).

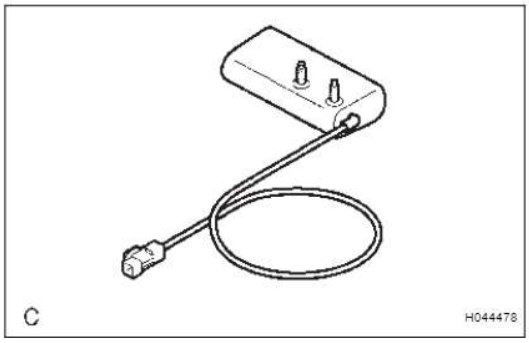
   (b) With the front seat airbag assembly installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the front seat assembly with a new one:
   Cuts, minute cracks or marked discoloration on the front seat back assembly or around the front seat airbag assembly.




2. **FRONT SEAT SIDE AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-18).

   (b) With the front seat airbag assembly removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the front seat airbag assembly with a new one:
   - Cuts, minute cracks or marked discoloration on the front seat airbag assembly.
   - Cracks or other damage to the wire harness or connector.

   **CAUTION:**
   **For removal and installation procedures of the front seat airbag assembly. Be sure to follow the correct procedure.**



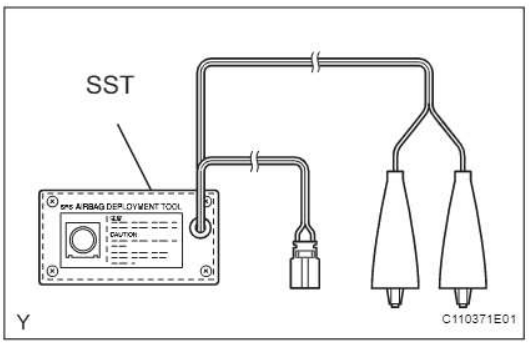
# DISPOSAL

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

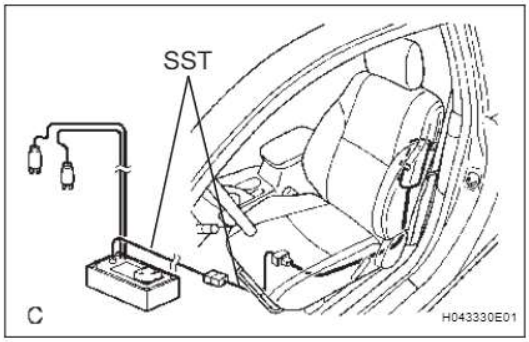
**CAUTION:**

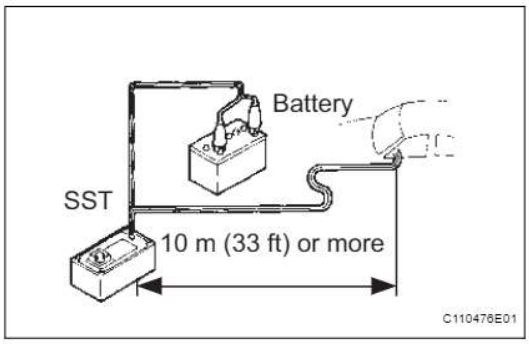
- **Never dispose of a front seat airbag assembly that has an undeployed airbag.**
- **The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.**
- **When deploying the airbag, always use the specified SST (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 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 airbag assembly with a deployed airbag.**
- **Do not apply water, etc. to a front seat airbag assembly with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**
- **An airbag or pretensioner may be activated by static electricity.**
  **To prevent this, be sure to touch a metal surface with bare hands to discharge static electricity performing this procedure.**

1. **DISPOSE OF FRONT SEAT SIDE AIRBAG ASSEMBLY (WHEN INSTALLED IN VEHICLE)**
   HINT:
   Prepare a battery as the power source to deploy the airbag.




   (a) Check the function of the SST (see page RS-347).
   (b) Precaution (see page RS-1).
   (c) Disconnect the cable from the negative battery terminal. Wait for 90 seconds after disconnecting the cable to prevent the airbag from deploying.
   (d) Remove the front seat assembly (see page SE-5).
   HINT:
   Keep the front seat assembly in the cabin.
   (e) Install the SST.
   (1) Disconnect the connector (yellow colored one) from the front seat 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 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 front seat assembly (see page SE-11).

(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 battery negative (-) terminal.

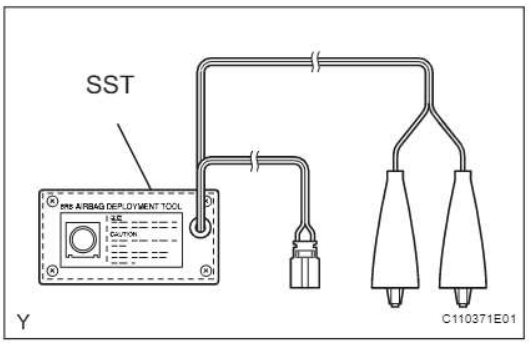
(f) Deploy the airbag.

(1) Check that no one is inside the vehicle or within a 10 m (33 ft) radius of the vehicle.

(2) Press the SST activation switch and deploy the airbag.
**CAUTION:**
- **When deploying the airbag, make sure that no one is near the vehicle.**
- **The front seat 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 airbag assembly with a deployed airbag.**
- **Do not apply water, etc. to a front seat airbag assembly with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

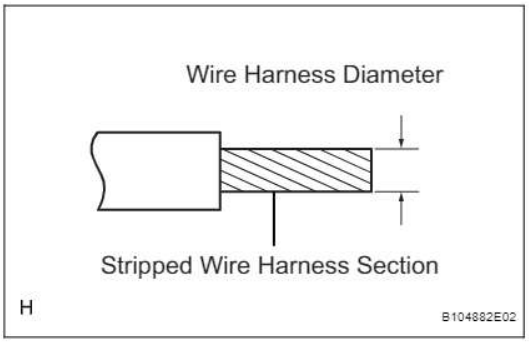
HINT:
The airbag is deployed as the LED of the SST activation switch comes on.

**2. DISPOSE OF FRONT SEAT SIDE AIRBAG ASSEMBLY (WHEN NOT INSTALLED IN VEHICLE)**
**NOTICE:**
- **When disposing of the front seat airbag assembly, never use the customer's vehicle to deploy the airbag.**
- **Be sure to follow the procedure detailed below when deploying the airbag.**

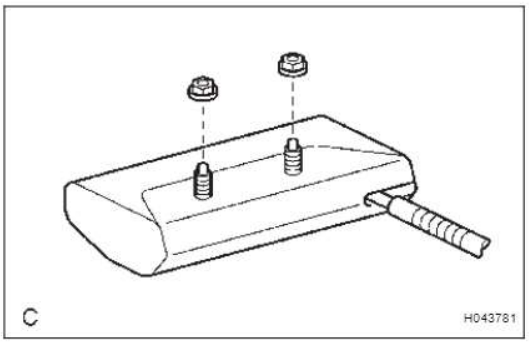



HINT:
Prepare a battery as the power source to deploy the airbag.

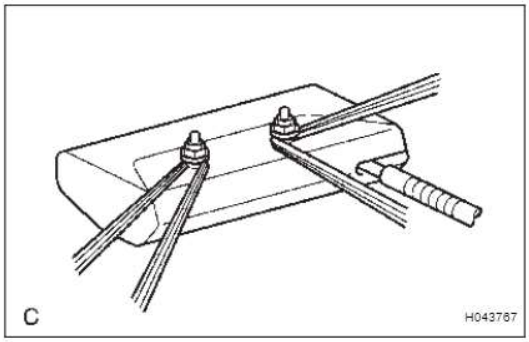
(a) Check the function of the SST (see page RS-349).
(b) Remove the front seat airbag assembly.
  (1) Remove the front seat assembly (see page SE-5).
  (2) Remove the 2 nuts and the front seat airbag assembly from the seatback assembly.
  **CAUTION:**
  - **When removing the front seat airbag assembly, work must be started 90 seconds after the ignition switch is turned off and the negative (-) terminal cable is disconnected from the battery.**
  - **When storing the front seat airbag assembly, keep the airbag deployment side facing upward.**



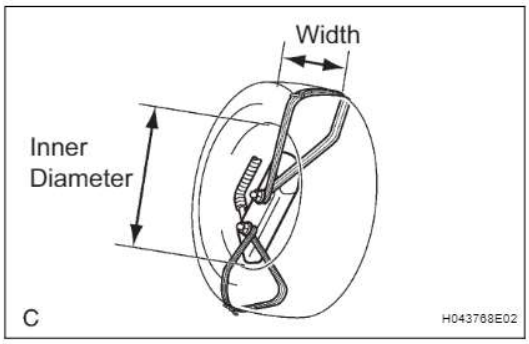

(c) Using a service-purpose wire harness for the vehicle, tie down the front seat airbag assembly to the tire.
**Wire harness:**
**Stripped wire harness section**
**1.25 $mm^2$ or more (0.0019 $in.^2$ or more)**
HINT:
To calculate the area of the stripped wire harness section:
Area = 3.14 x $(Diameter)^2$ divided/4
**CAUTION:**
**If the wire harness is too thin or an alternative object is used to tie down the front seat airbag assembly, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with an area of at least 1.25 $mm^2$ (0.0019 $in.^2$).**




  (1) Install the 2 nuts to the front seat airbag assembly.




(2) Wind the wire harness around the stud bolts of the front seat airbag assembly as shown in the illustration.




(3) Position the front seat airbag assembly inside the tire.

**Tire size:**

**Must exceed the following dimensions**

**Width:**

**185 mm (7.28 in.)**

**Inner diameter:**

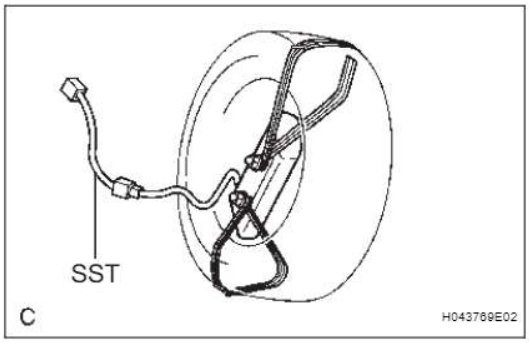
**360 mm (14.17 in.)**

**CAUTION:**

- **Make sure that the wire harness is tight. If there is slack in a wire harness, the front seat airbag assembly may become loose due to the shock when the airbag is deployed.**
- **Always tie down the front seat airbag assembly with the airbag deployment direction facing inside the tire.**

**NOTICE:**

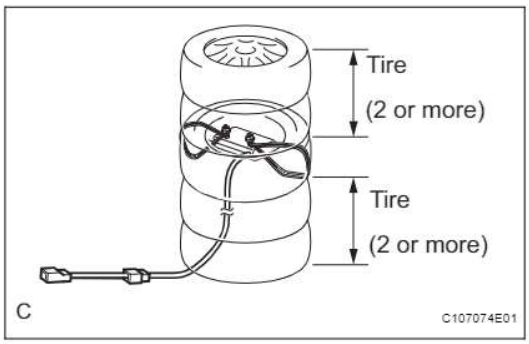
**Use a disc wheel (with tire) that you are planning to throw away, as the airbag deployment will damage the disc wheel.**




(d) Install the SST.

(1) Connect the SST connector to the front seat airbag assembly connector.

**SST 09082-00750**



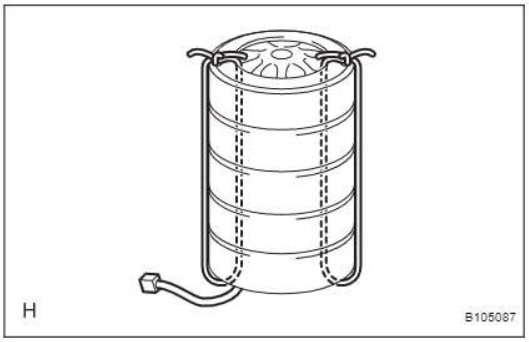

(e) Place the tires.

(1) Place at least 2 tires under the tire which the front seat airbag assembly is tied to.

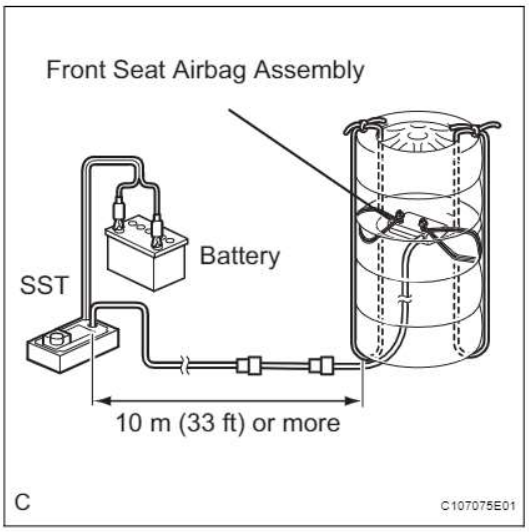
(2) Place at least 2 tires over the tire which the front seat airbag assembly is tied to. The top tire should have the disc wheel installed.

**NOTICE:**

**Do not place the SST connector under the tire because it could be damaged.**

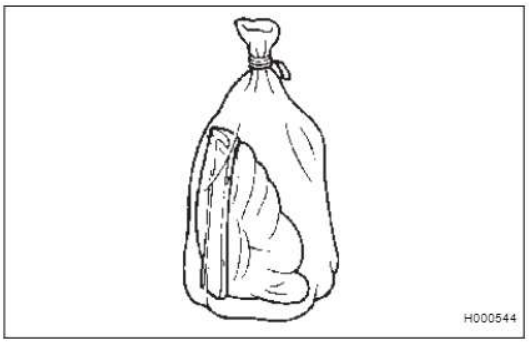



(3) Tie the tires together with 2 wire harnesses.
**CAUTION:**
**Make sure that the wire harness is tight. Looseness in the wire harness results in the tires coming free due to the shock when the airbag is deployed.**




(f) Install the SST.
(1) Connect the SST connector.
**SST 09082-00700**
**NOTICE:**
**To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tire.**

(g) Deploy the airbag.
(1) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the battery negative (-) terminal.
(2) Check that no one is within a 10 m (33 ft) radius of the tire which the front seat 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.



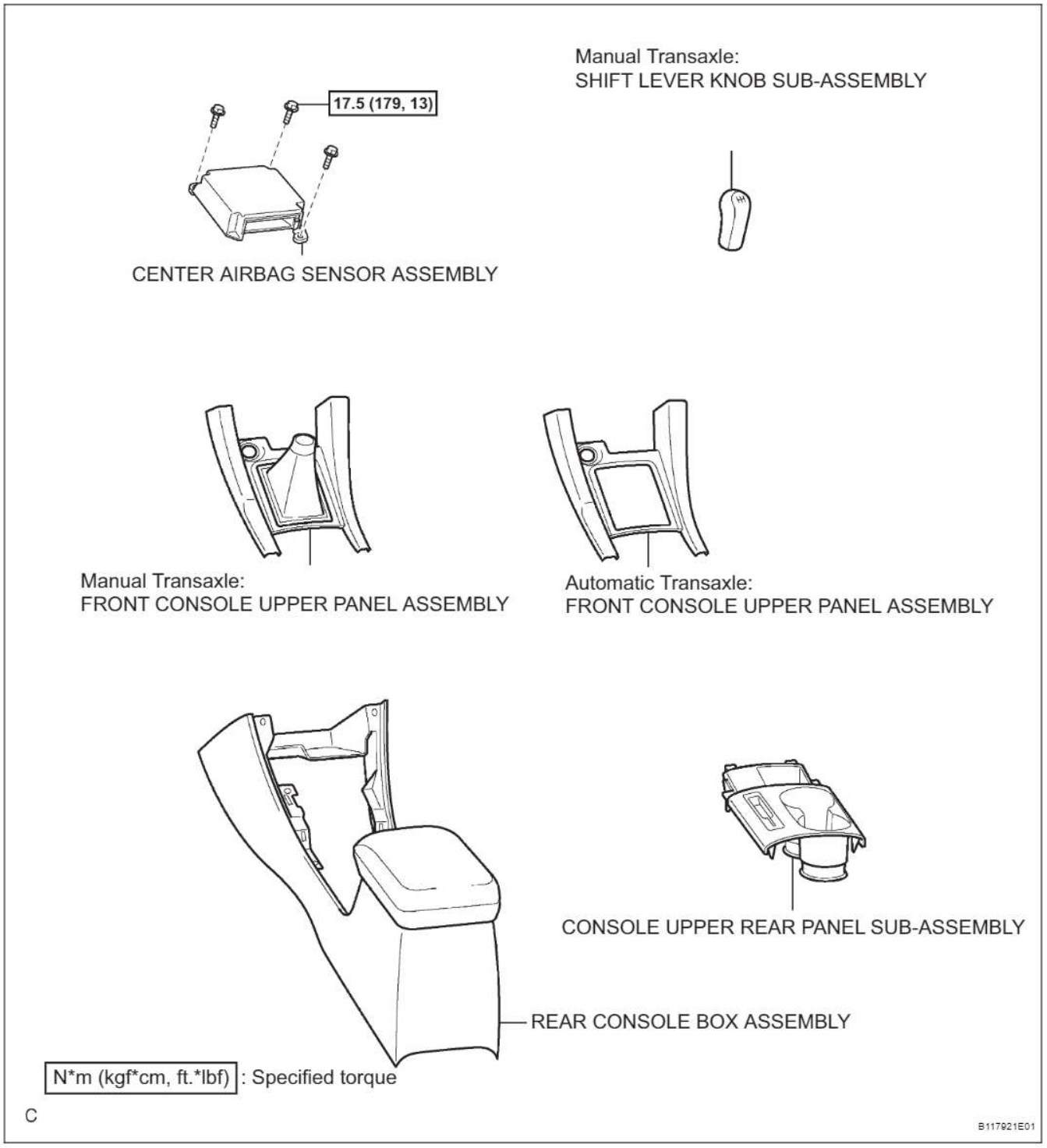

(h) Dispose of the front seat airbag assembly.
**CAUTION:**
- **The front seat airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a front seat airbag assembly with a deployed airbag.**
- **Do not apply water, etc. to a front seat airbag assembly with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

(1) Remove the front seat airbag assembly from the tire.
(2) Place the front seat airbag assembly in a plastic bag, tie it tightly and dispose of it in the same way as other general parts.

# CENTER AIRBAG SENSOR ASSEMBLY

## COMPONENTS





RS

## ON-VEHICLE INSPECTION

1. **CHECK CENTER AIRBAG SENSOR ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-18).

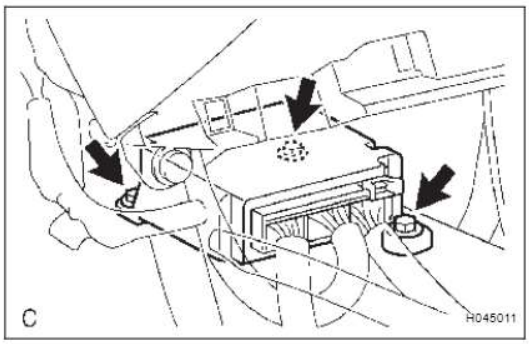
2. **CHECK CENTER AIRBAG SENSOR ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-18).

3. **CHECK CENTER AIRBAG SENSOR ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG DEPLOYED)**
   (a) Replace the center airbag sensor.
   **CAUTION:**
   **For removal and installation of the center airbag sensor assembly, be sure to follow the correct procedures.**

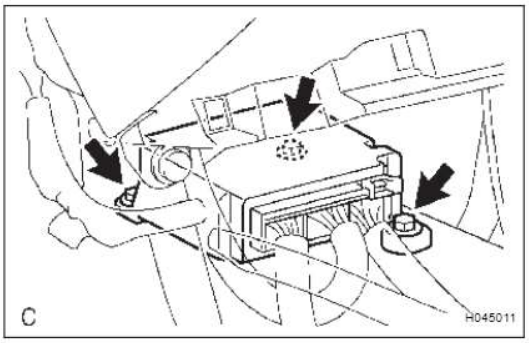
# REMOVAL

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

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **CAUTION:**
   **Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**
2. **REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (Manual Transaxle) (See page IP-5)**
3. **REMOVE FRONT CONSOLE UPPER PANEL ASSEMBLY (See page IP-5)**
4. **REMOVE CONSOLE UPPER REAR PANEL SUB-ASSEMBLY (See page IP-18)**
5. **REMOVE REAR CONSOLE BOX ASSEMBLY (See page IP-18)**
6. **REMOVE CENTER AIRBAG SENSOR ASSEMBLY**
   (a) Disconnect the airbag sensor connectors.
   (b) Remove the 3 bolts and airbag sensor.



RS




# INSTALLATION

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

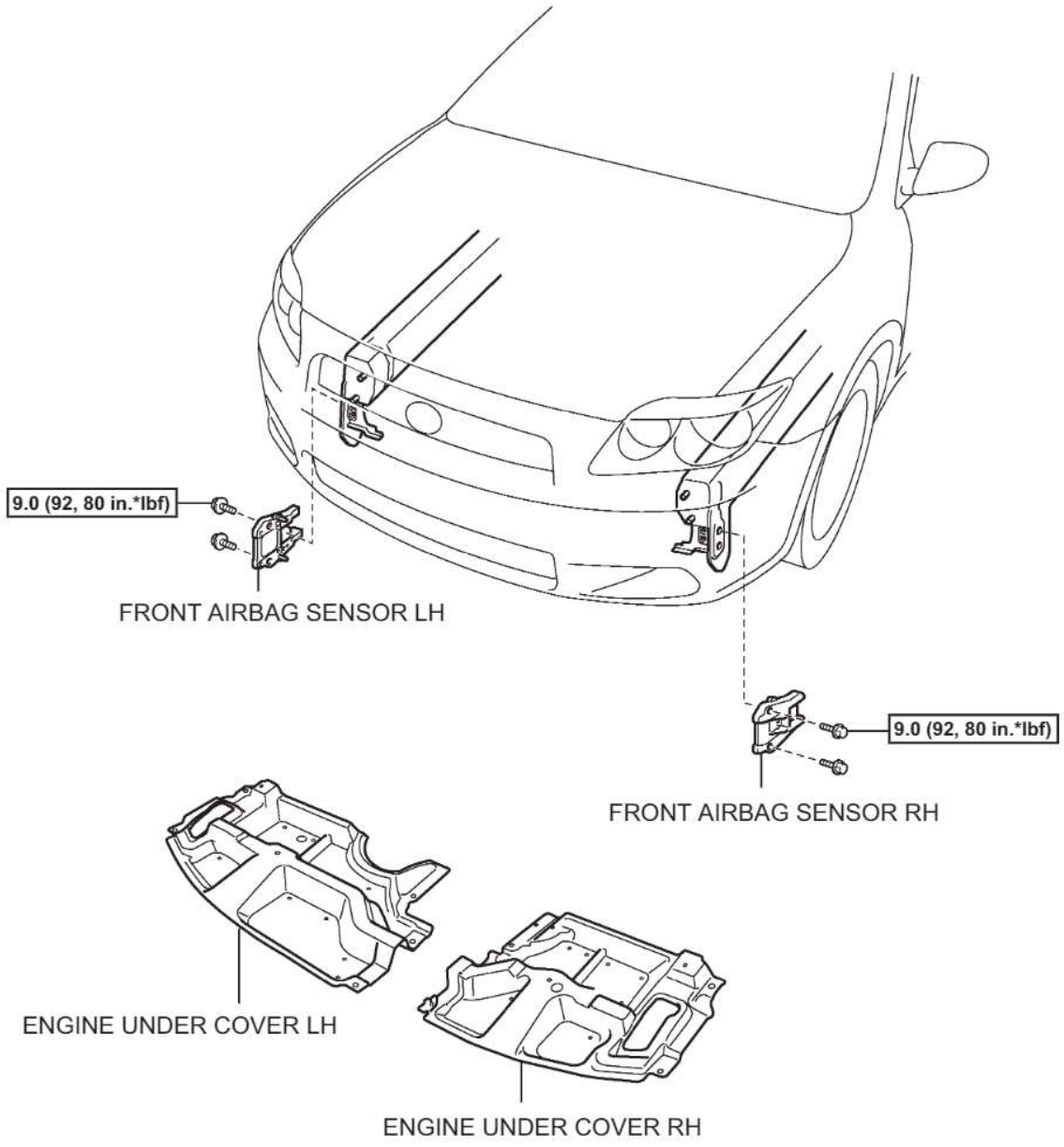
1. **INSTALL CENTER AIRBAG SENSOR ASSEMBLY**
   (a) Install the airbag sensor with the 3 bolts.
   **Torque: 17.5 N*m (179 kgf*cm, 13 ft.*lbf)**
   **NOTICE:**
   - **If the airbag sensor has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace it with a new one.**
   - **When installing the airbag sensor, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.**

   (b) Connect the airbag sensor connectors.
2. **INSTALL REAR CONSOLE BOX ASSEMBLY (See page IP-22)**
3. **INSTALL CONSOLE UPPER REAR PANEL SUB-ASSEMBLY (See page IP-23)**
4. **REMOVE FRONT CONSOLE UPPER PANEL ASSEMBLY (See page IP-11)**
5. **INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (Manual Transaxle) (See page IP-12)**
6. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
7. **PERFORM INITIALIZATION**
   (a) Perform initialization (see page IN-23).
8. **CHECK SRS WARNING LIGHT**
   (a) Check the SRS warning light (see page RS-11).

# FRONT AIRBAG SENSOR

## COMPONENTS

RS




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

C

B117926E01

# ON-VEHICLE INSPECTION

1. **CHECK FRONT AIRBAG SENSOR (VEHICLE NOT INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-18).

2. **CHECK FRONT AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-18).
   (b) If the front fender of the vehicle or its periphery are damaged, perform a visual check:
   - Check for cracks, dents or chips in the case.
   - Check for cracks, dents, chips and scratches in the connector.
   - Check for peeling of the label or damage of the serial number.

   If any of the defects mentioned above are present, replace the front airbag sensor with a new one.

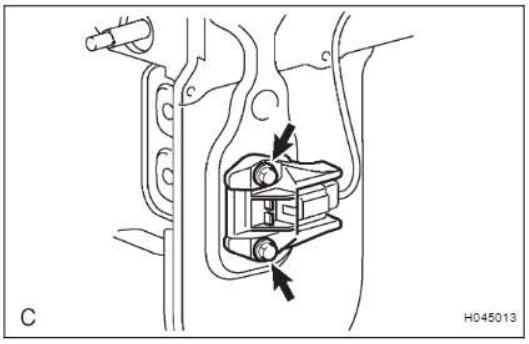
3. **CHECK FRONT AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG DEPLOYED)**
   (a) Replace the front airbag sensor.
   **CAUTION:**
   **For removal and installation of the front airbag sensor, be sure to follow the correct procedures.**
   HINT:
   If the airbags have deployed, replace the front airbag sensor on the side in which the collision occurred. Replace both if necessary.

RS

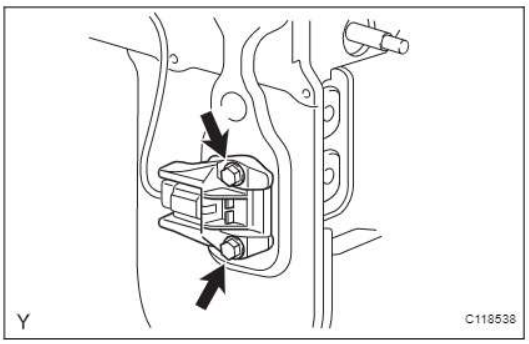
# REMOVAL

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

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **NOTICE:**
   **Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**
2. **REMOVE ENGINE UNDER COVER LH**
3. **REMOVE ENGINE UNDER COVER RH**
4. **REMOVE FRONT AIRBAG SENSOR LH**
   (a) Disconnect the sensor connector.
   (b) Remove the 2 bolts and sensor.

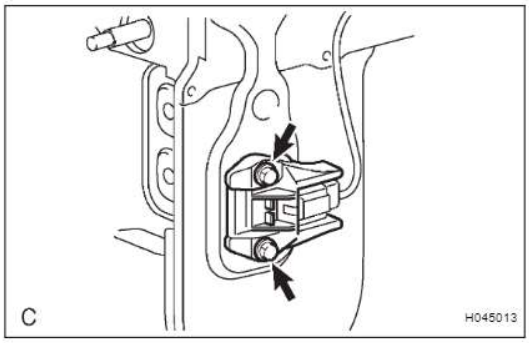



5. **REMOVE FRONT AIRBAG SENSOR RH**
   (a) Disconnect the sensor connector.
   (b) Remove the 2 bolts and sensor.

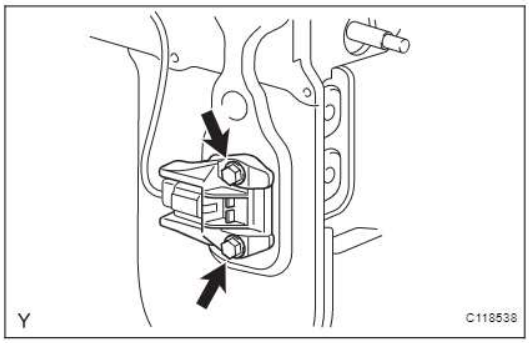


# INSTALLATION

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




1. **INSTALL FRONT AIRBAG SENSOR LH**
   (a) Install the sensor with the 2 bolts.
   **Torque: 9.0 N*m (92 kgf*cm, 80 in.*lbf)**
   **NOTICE:**
   - **If the airbag sensor has been dropped, or there are any cracks, dents or other defects in the case or connector, replace it with a new one.**
   - **When installing the airbag sensor, make sure that the SRS wiring does not interfere with other parts and is not pinched between other parts.**
   (b) Check that there is no free play in the installation parts of the sensor.
   (c) Connect the sensor connector.




2. **INSTALL FRONT AIRBAG SENSOR RH**
   (a) Install the sensor with the 2 bolts.
   **Torque: 9.0 N*m (92 kgf*cm, 80 in.*lbf)**
   **NOTICE:**
   - **If the airbag sensor has been dropped, or there are any cracks, dents or other defects in the case or connector, replace it with a new one.**
   - **When installing the airbag sensor, make sure that the SRS wiring does not interfere with other parts and is not pinched between other parts.**
   (b) Check that there is no free play in the installation parts of the sensor.
   (c) Connect the sensor connector.

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

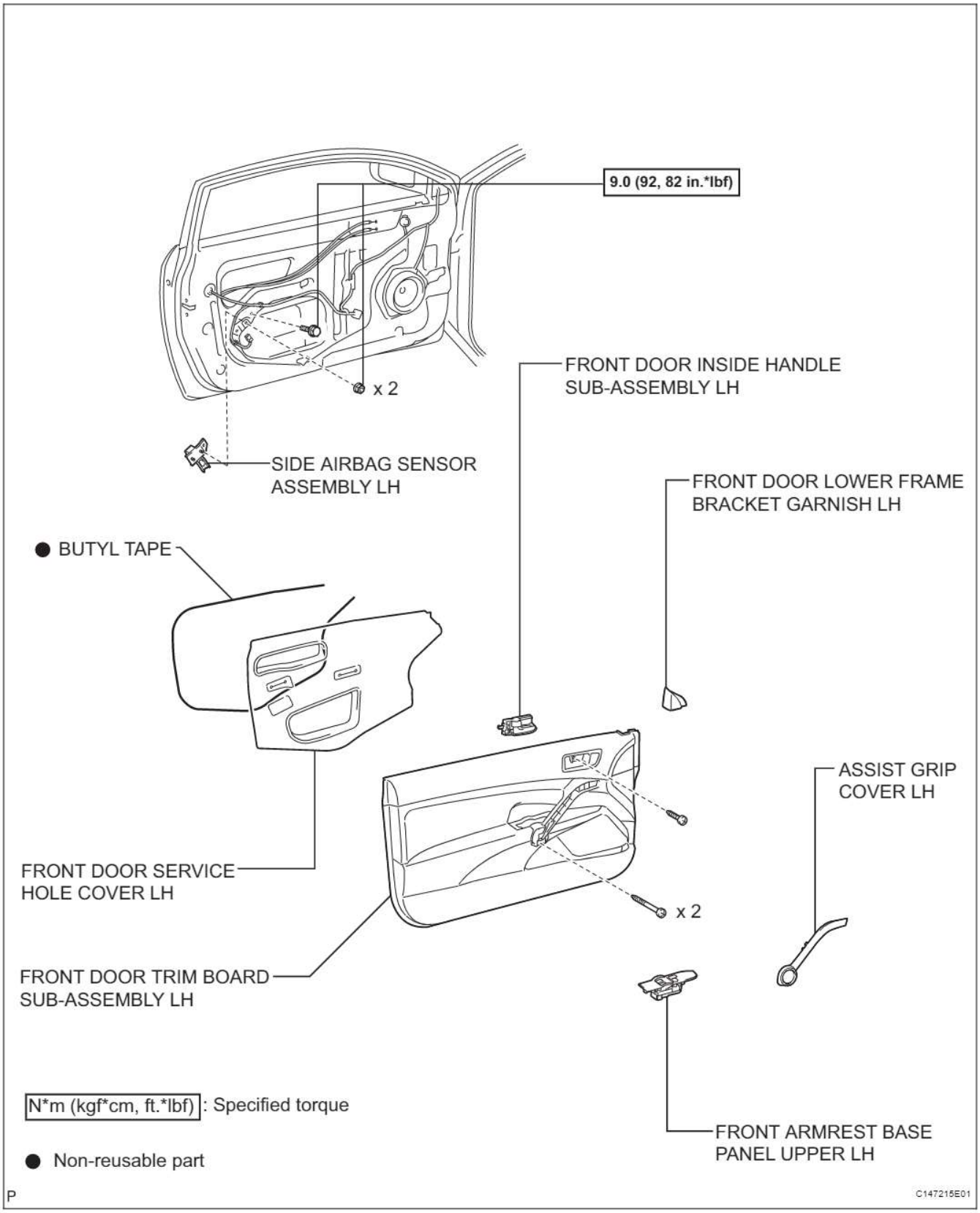
4. **PERFORM INITIALIZATION**
   (a) Perform initialization (see page IN-23).
   **NOTICE:**
   **Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.**

5. **CHECK SRS WARNING LIGHT**
   (a) Check the SRS warning light (see page RS-11).

# SIDE AIRBAG SENSOR

## COMPONENTS

RS



# ON-VEHICLE INSPECTION

1. **CHECK SIDE AIRBAG SENSOR (VEHICLE NOT INVOLVED IN COLLISION)**
   (a) Perform a diagnostic system check (see page RS-18).

2. **CHECK SIDE AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-18).
   (b) When the center pillar of the vehicle or its area is damaged, check if there is any damage to the side airbag sensor. If there are any defects as mentioned below, replace the side airbag sensor with a new one:
   - Cracks, dents or chips on the sensor housing.
   - Cracks or other damage to the connector.
   - Peeling off of the label or damage to the serial number.

   **CAUTION:**
   **For removal and installation procedures of the side airbag sensor, be sure to follow the correct procedure.**

3. **CHECK SIDE AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG IS DEPLOYED)**
   (a) Replace the side airbag sensor.
   **CAUTION:**
   **For removal and installation procedures of the side airbag sensor, be sure to follow the correct procedure.**
   HINT:
   The side airbag sensor on the impacted side should be replaced after the front seat airbag assembly and curtain shield airbag assembly have deployed.

RS

# REMOVAL

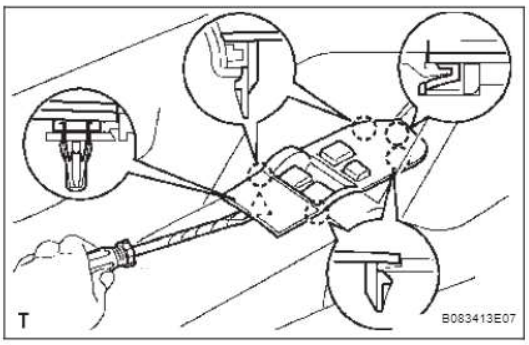
HINT:

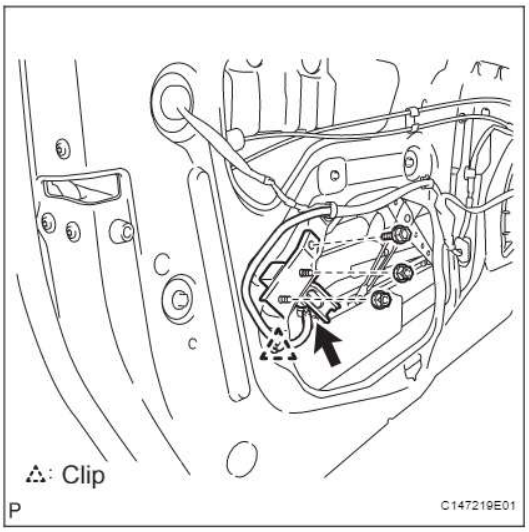
- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.

**CAUTION:**

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

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **CAUTION:**
   **Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**
2. **REMOVE FRONT DOOR LOWER FRAME BRACKET GARNISH LH (See page ED-8)**
3. **REMOVE ASSIST GRIP COVER LH (See page ED-8)**
4. **REMOVE FRONT ARMREST BASE PANEL UPPER LH**
   (a) Using a screwdriver, detach the clip and 5 claws, and remove the front armrest base panel upper LH together with the window regulator master switch.
   HINT:
   Tape the screwdriver tip before use.
   (b) Disconnect the switch connector.
5. **REMOVE FRONT DOOR TRIM BOARD SUB-ASSEMBLY LH (See page ED-9)**
6. **REMOVE FRONT DOOR INSIDE HANDLE SUB-ASSEMBLY LH (See page ED-10)**
7. **REMOVE FRONT DOOR SERVICE HOLE COVER LH (See page ED-10)**
8. **REMOVE SIDE AIRBAG SENSOR ASSEMBLY LH**
   (a) Disconnect the connector.
   (b) Remove the 2 nuts and bolt.
   (c) Remove the side airbag sensor.



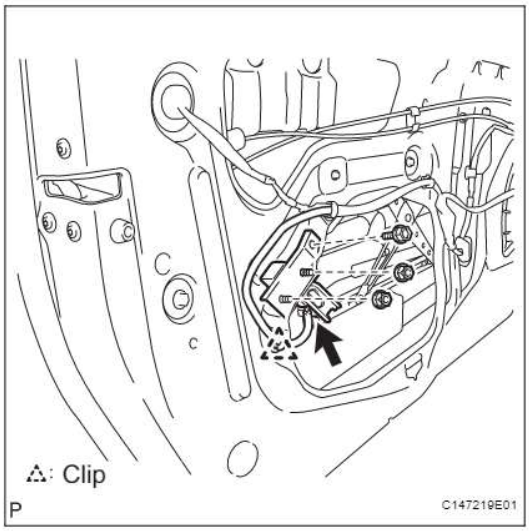
# INSTALLATION

HINT:

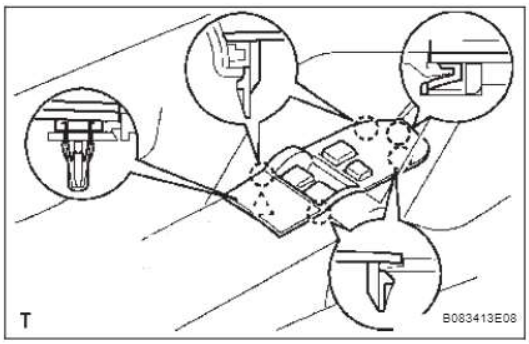
- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.

**CAUTION:**

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




1. **INSTALL SIDE AIRBAG SENSOR ASSEMBLY LH**
   (a) Install the side airbag sensor with the 2 nuts and bolt.
   **Torque: 9.0 N*m (92 kgf*cm, 82 in.*lbf)**
   **NOTICE:**
   - **If the airbag sensor has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace it with a new one.**
   - **When installing the airbag sensor, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.**
   (b) Check that there is no looseness in the installation parts of the sensor.
   (c) Connect the connector.
2. **INSTALL FRONT DOOR SERVICE HOLE COVER LH (See page ED-19)**
3. **INSTALL FRONT DOOR INSIDE HANDLE SUB-ASSEMBLY LH (See page ED-19)**
4. **INSTALL FRONT DOOR TRIM BOARD SUB-ASSEMBLY LH (See page ED-19)**

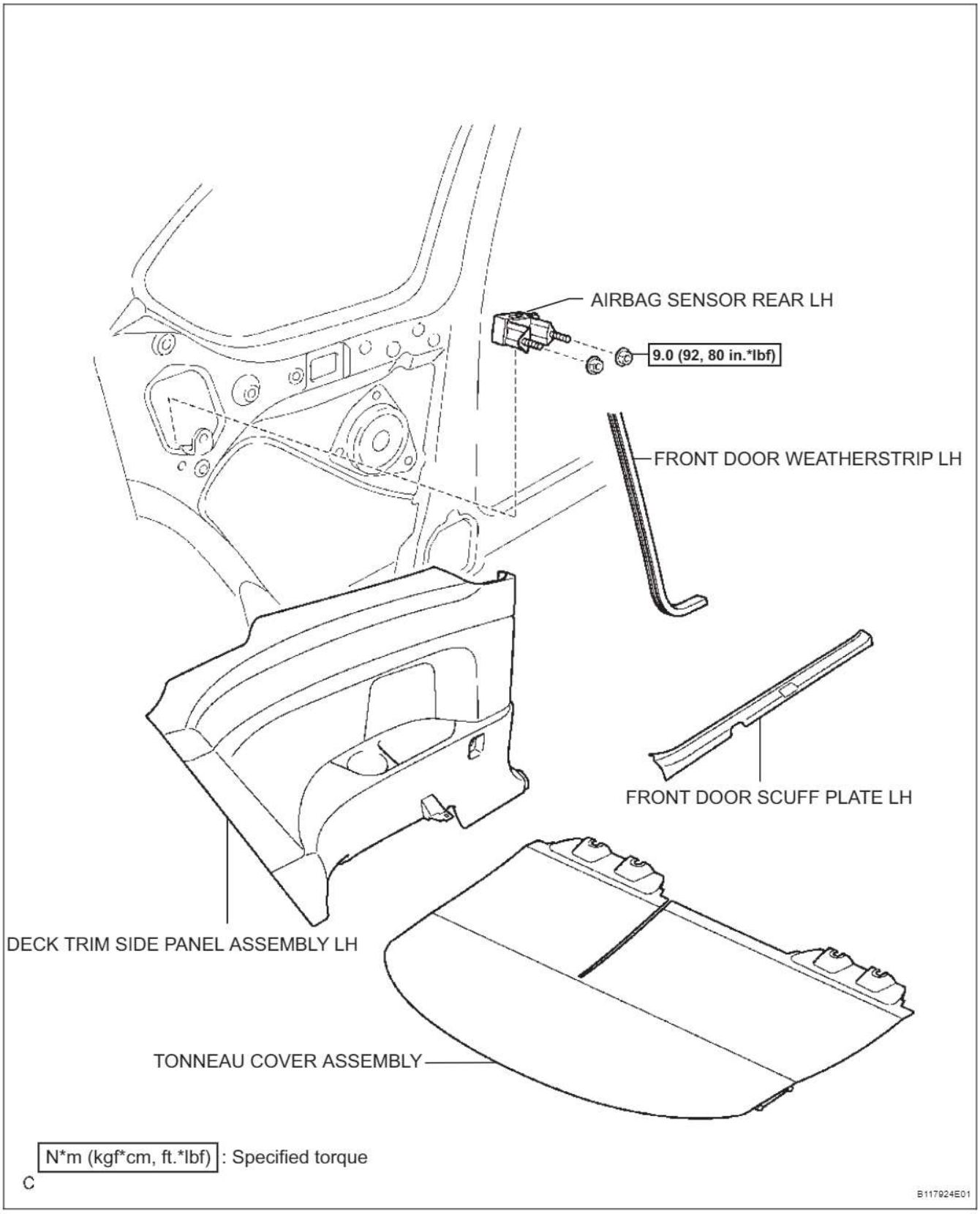



5. **INSTALL FRONT ARMREST BASE PANEL UPPER LH**
   (a) Connect the switch connector.
   (b) Attach the clip and 5 claws to install the front armrest base panel upper LH together with the window regulator master switch.
6. **INSTALL ASSIST GRIP COVER LH (See page ED-21)**
7. **INSTALL FRONT DOOR LOWER FRAME BRACKET GARNISH LH (See page ED-21)**
8. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
9. **PERFORM INITIALIZATION**
   (a) Perform initialization (see page IN-23).
   **NOTICE:**
   **Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.**
10. **CHECK SRS WARNING LIGHT**
    (a) Check the SRS warning light (see page RS-11).

# REAR AIRBAG SENSOR

## COMPONENTS

RS



# ON-VEHICLE INSPECTION

1. **CHECK REAR AIRBAG SENSOR (VEHICLE NOT INVOLVED IN COLLISION)**
   (a) Perform a diagnostic system check (see page RS-18).

2. **CHECK REAR AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-18).
   (b) When the quarter panel of the vehicle or its periphery is damaged, check if there is any damage to the rear airbag sensor. If there are any defects as mentioned below, replace the rear airbag sensor with a new one:
   - Cracks, dents or chips on the sensor housing.
   - Cracks or other damage to the connector.
   - Peeling off of the label or damage to the serial number.

   **CAUTION:**
   **For removal and installation procedures of the rear airbag sensor, be sure to following the correct procedure.**

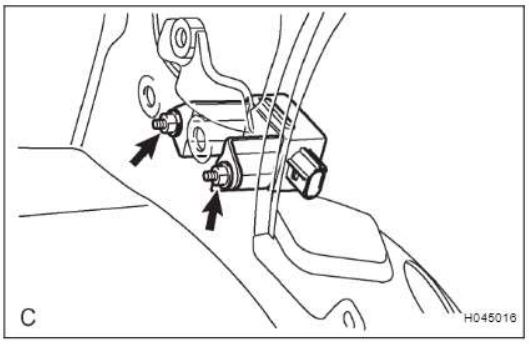
3. **CHECK REAR AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG IS DEPLOYED)**
   (a) Replace the rear airbag sensor.
   **CAUTION:**
   **For removal and installation procedures of the rear airbag sensor, be sure to follow the correct procedure.**
   HINT:
   The rear airbag sensor on the impacted side should be replaced after the curtain shield airbag assembly has deployed.

RS

# REMOVAL

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

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
2. **REMOVE TONNEAU COVER ASSEMBLY**
3. **REMOVE FRONT DOOR SCUFF PLATE LH (See page IR-9)**
4. **REMOVE FRONT DOOR WEATHERSTRIP LH**
5. **REMOVE DECK TRIM SIDE PANEL ASSEMBLY LH (See page IR-11)**
6. **REMOVE AIRBAG SENSOR REAR LH**
   (a) Disconnect the connector.
   (b) Remove the 2 nuts and airbag sensor.



# INSTALLATION

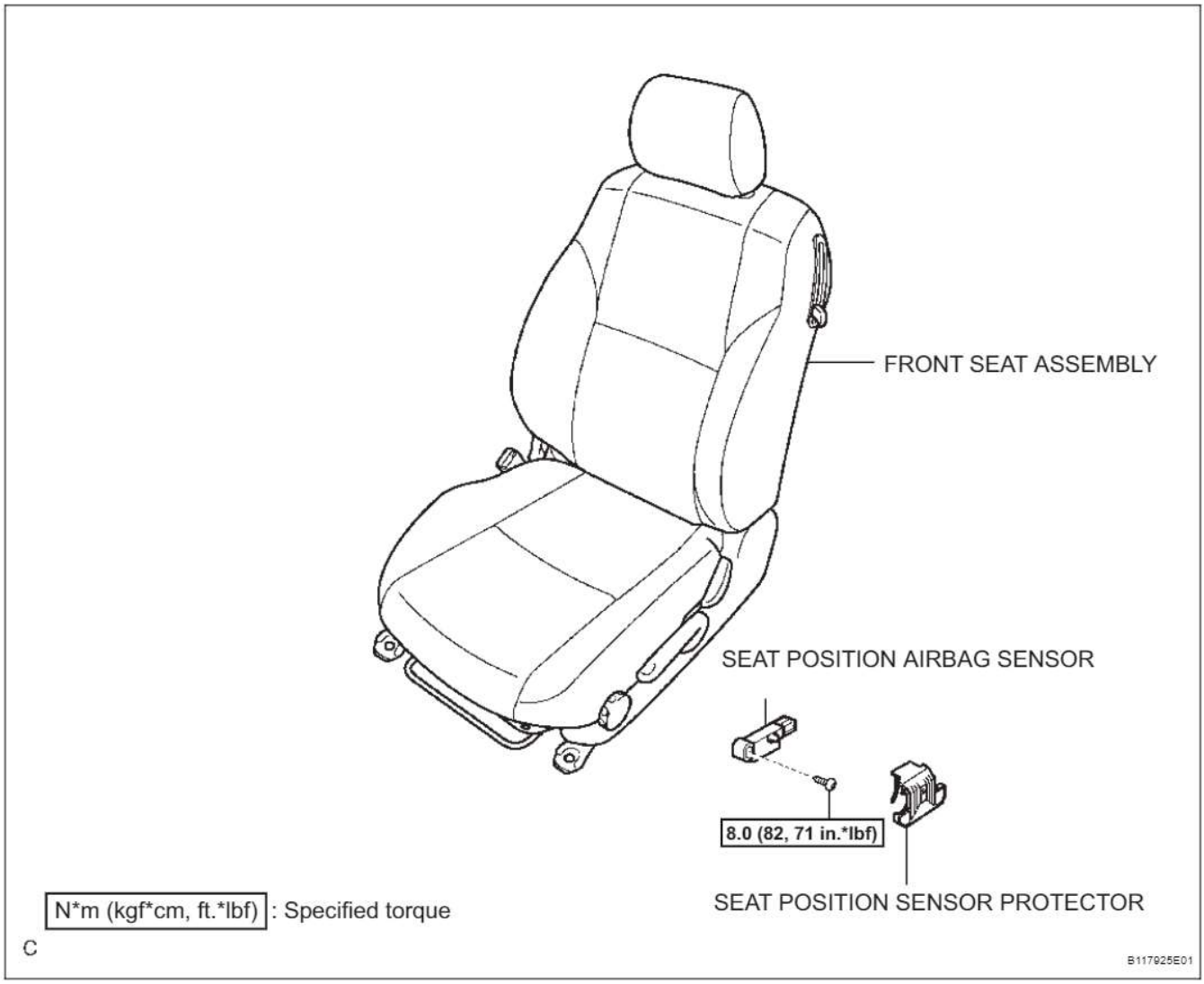
**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**

1. **INSTALL AIRBAG SENSOR REAR LH**
   (a) Install the airbag sensor with the 2 nuts.
   **Torque: 9.0 N*m (92 kgf*cm, 80 in.*lbf)**
   **NOTICE:**
   - **If the airbag sensor has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace it with a new one.**
   - **When installing the airbag sensor, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.**
2. **INSTALL DECK TRIM SIDE PANEL ASSEMBLY LH (See page IR-18)**
3. **INSTALL FRONT DOOR WEATHERSTRIP LH**
4. **INSTALL FRONT DOOR SCUFF PLATE LH (See page IR-20)**
5. **INSTALL TONNEAU COVER ASSEMBLY**
6. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
7. **PERFORM INITIALIZATION**
   (a) Perform initialization (see page IN-23).
   **NOTICE:**
   **Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.**
8. **CHECK SRS WARNING LIGHT**
   (a) Check the SRS warning light (see page RS-11).

# SEAT POSITION SENSOR

## COMPONENTS





RS

# ON-VEHICLE INSPECTION

1. **INSPECT SEAT POSITION SENSOR (VEHICLE NOT INVOLVED IN COLLISION)**
   (a) Perform a diagnostic system check (see page RS-18).

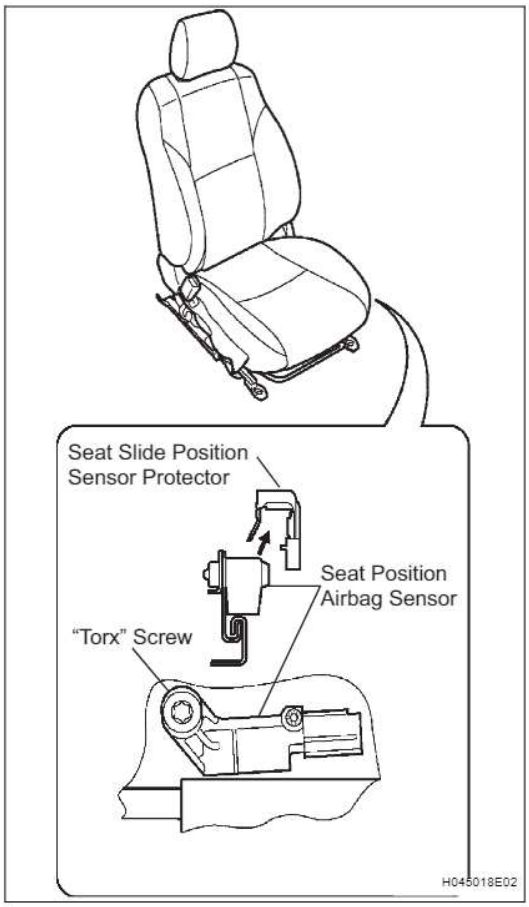
2. **INSPECT SEAT POSITION SENSOR (VEHICLE INVOLVED IN COLLISION)**
   (a) Perform a diagnostic system check (see page RS-18).
   (b) Even if the airbag was not deployed, check if there is any damage to the seat position sensor.
   If there are any defects as mentioned below, replace the seat position sensor with a new one:
   - Cracks, dents or chips on the sensor housing.
   - Cracks or other damage to the connector.

   **CAUTION:**
   **For removal and installation procedures of the seat position sensor, be sure to follow the correct procedure.**

# REMOVAL

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

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **CAUTION:**
   **Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**
2. **REMOVE FRONT SEAT ASSEMBLY**
   (a) Remove the front seat (see page SE-5).
3. **REMOVE SEAT SLIDE POSITION SENSOR PROTECTOR**
4. **REMOVE SEAT POSITION AIRBAG SENSOR**
   (a) Remove the seat slide position sensor protector from the seat position sensor.
   (b) Using a "torx" socket (T30), remove the "torx" screw and seat position sensor with sensor protector.
   (c) Disconnect the connector.



# INSTALLATION

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

1. **INSTALL SEAT POSITION AIR BAG SENSOR**
   (a) 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 the seat position sensor with a new one.**
   - **When installing the seat position sensor, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.**

   HINT:
   Be sure that the clearance between the seat position sensor and the seat rail is within 0.6 mm (0.023 in.) to 1.4 mm (0.055 in.).
   (b) Using a "torx" socket (T30), tighten the "torx" screw to install the seat position sensor.
   **Torque: 8.0 N*m (82 kgf*cm, 71 in.*lbf)**
   (c) Make sure that 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.).
   (d) Connect the connector.
   (e) Install the seat slide position sensor protector to the seat position sensor.

2. **INSTALL FRONT SEAT ASSEMBLY**
   (a) Install the front seat (see page SE-11).

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

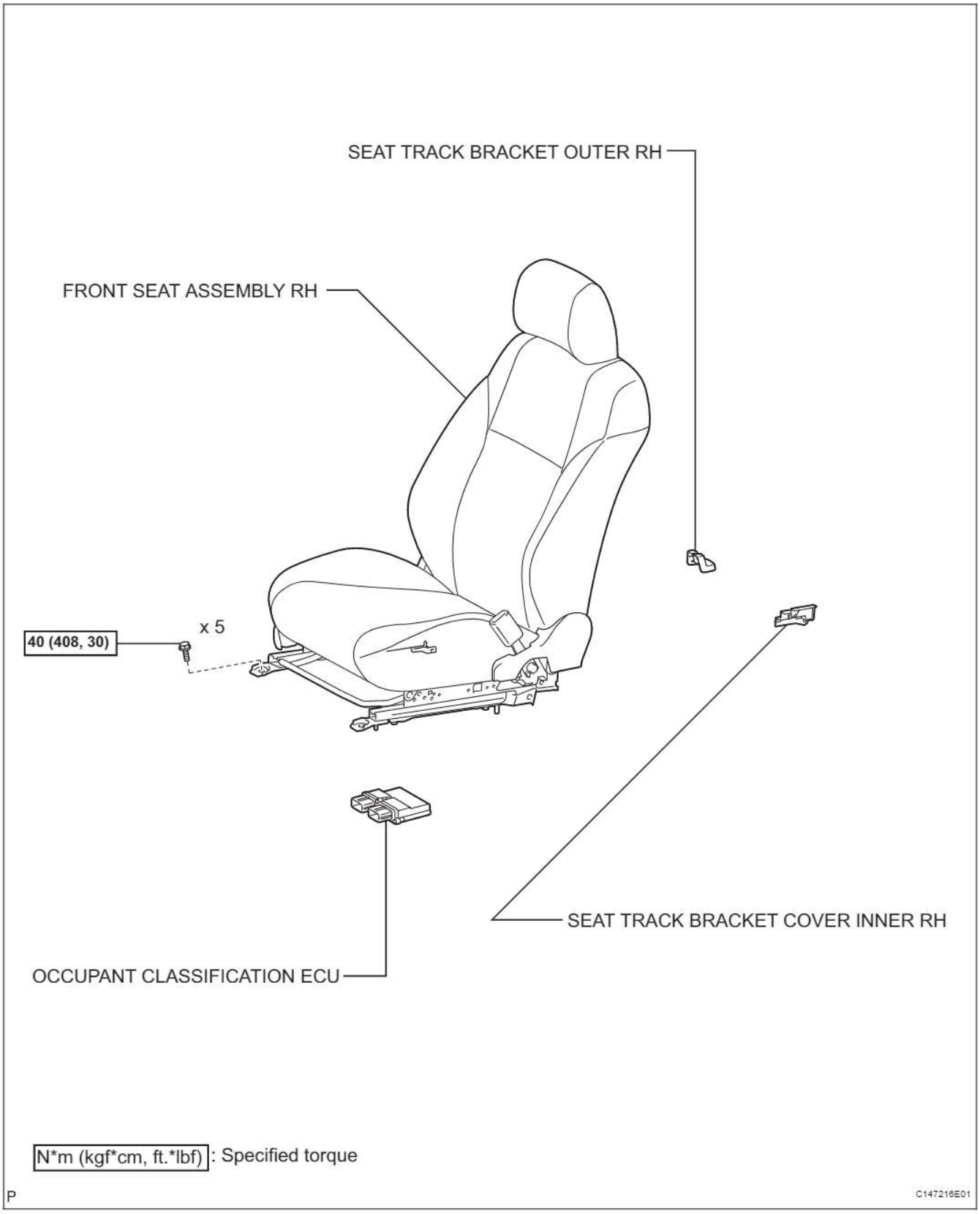
4. **PERFORM INITIALIZATION**
   (a) Perform initialization (see page IN-23).
   **NOTICE:**
   **Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.**

5. **CHECK SRS WARNING LIGHT**
   (a) Check the SRS warning light (see page RS-11).

# OCCUPANT CLASSIFICATION ECU

## COMPONENTS

RS



# ON-VEHICLE INSPECTION

1. **INSPECT OCCUPANT CLASSIFICATION ECU (VEHICLE NOT INVOLVED IN COLLISION)**
   (a) Perform a diagnostic system check (See page RS-18).

2. **INSPECT OCCUPANT CLASSIFICATION ECU (VEHICLE INVOLVED IN COLLISION)**
   (a) Perform a diagnostic system check (See page RS-18).
   (b) Even if the airbag was not deployed, check if there is any damage to the occupant classification ECU. If there are any defects as mentioned below, replace the occupant classification ECU with a new one:
   - Cracks, dents or chips on the case.
   - Cracks or other damage to the connector.

   **CAUTION:**
   **Be sure to follow the correct removal and installation procedures.**

RS

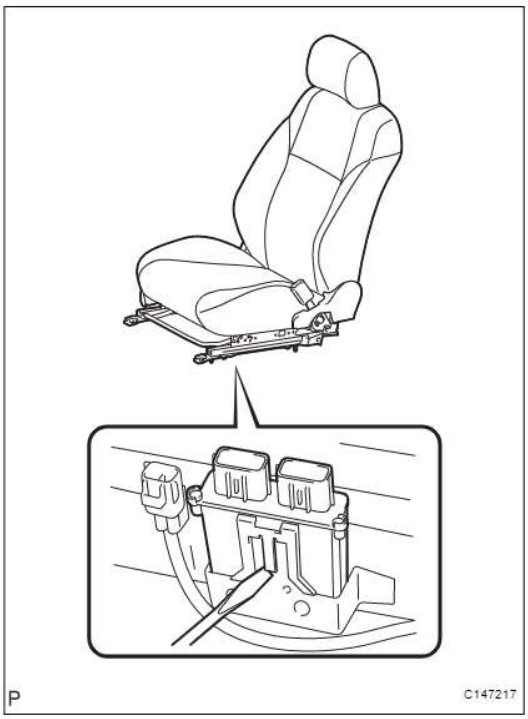
# REMOVAL

1. **PRECAUTION**
   **CAUTION:**
   **Be sure to read "PRECAUTION" thoroughly before servicing (See page RS-1).**

2. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **CAUTION:**
   **Work must be started at least 90 seconds after the ignition switch is turned off and after the cable is disconnected from the negative (-) battery terminal.**

3. **REMOVE FRONT SEAT ASSEMBLY RH**
   HINT:
   Refer to the procedures up to "REMOVE FRONT SEAT ASSEMBLY" (See page SE-5)

4. **REMOVE OCCUPANT CLASSIFICATION ECU**
   (a) Disconnect the connectors from the occupant classification ECU.
   (b) Using a screwdriver, remove the occupant classification ECU.



# INSTALLATION

1. **INSTALL OCCUPANT CLASSIFICATION ECU**
   (a) Check that the ignition switch is in the OFF position.
   (b) Check that the negative battery (-) cable is disconnected.
   **CAUTION:**
   **Work must be started at least 90 seconds after the ignition switch is turned off and after the cable is disconnected from the negative (-) battery terminal.**
   (c) Install the occupant classification ECU.
   (d) Connect the connectors to the occupant classification ECU.
   **NOTICE:**
   - **If the occupant classification ECU has been dropped, or there are any cracks, dents or other defects in the case or connector, replace the occupant classification ECU 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 RH**
   HINT:
   Refer to the procedures up to "INSTALL FRONT SEAT ASSEMBLY" (See page SE-11).
3. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
4. **PERFORM INITIALIZATION**
   (a) Perform initialization (See page IN-23).
   HINT:
   Some systems need initialization after reconnecting the cable to the negative battery terminal.
5. **PERFORM ZERO POINT CALIBRATION AND SENSITIVITY CHECK**
   (a) Perform zero point calibration and sensitivity check (See page RS-250).
6. **INSPECT SRS WARNING LIGHT**
   (a) Inspect the SRS warning light (See page RS-11).