

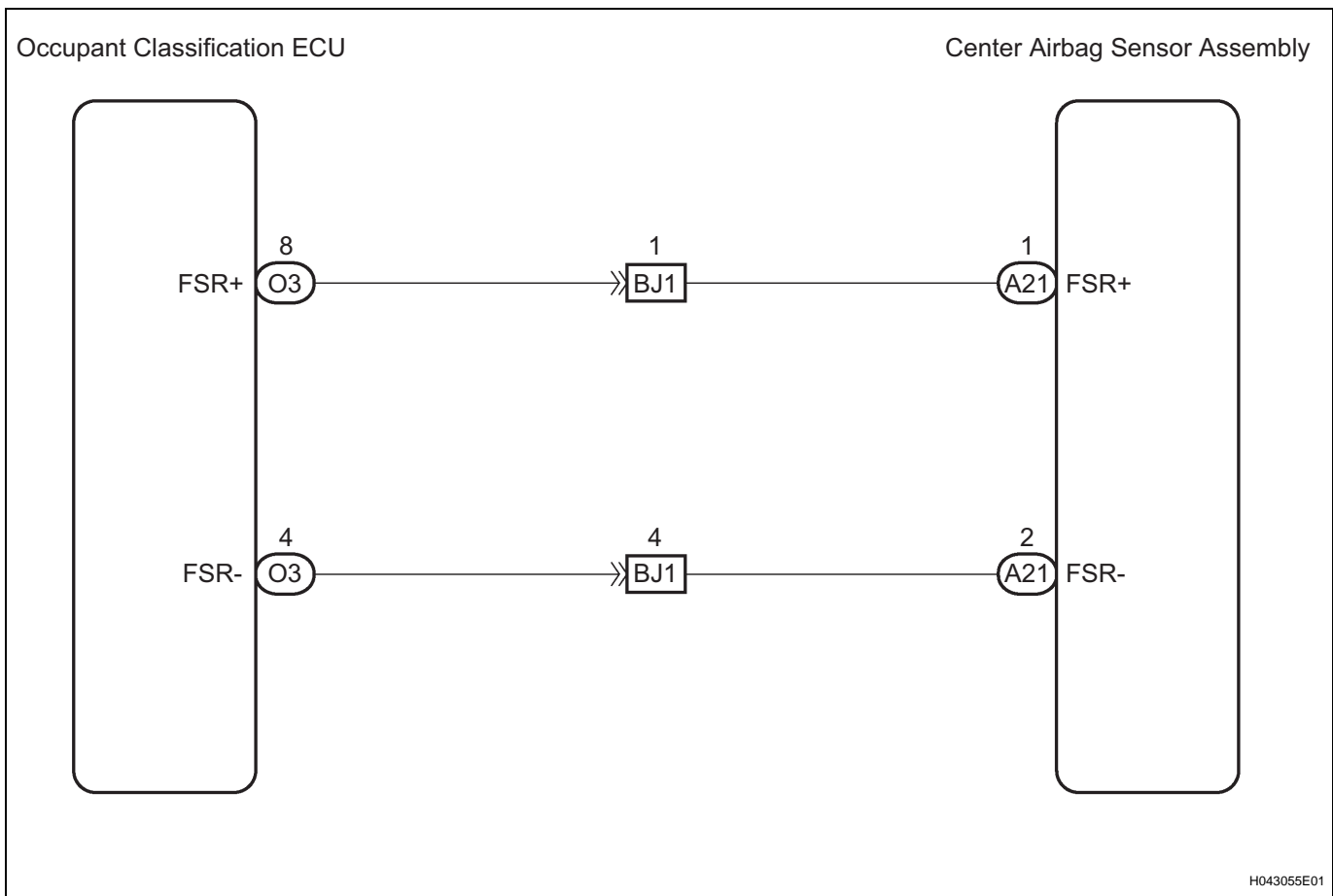
**DTC****B1150/23****Occupant Classification System Malfunction****DESCRIPTION**

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

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

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

DTC No.	DTC Detecting Condition	Trouble Area
B1150/23	<ul style="list-style-type: none"> <li>The center airbag sensor assembly receives a line short signal, open signal, short to ground signal or B+ short signal in the occupant classification system circuit for 2 seconds.</li> <li>Occupant classification ECU malfunction</li> <li>Center airbag sensor assembly malfunction</li> </ul>	<ul style="list-style-type: none"> <li>Occupant classification ECU</li> <li>Center airbag sensor assembly</li> <li>Floor wire</li> <li>Front seat wire RH</li> </ul>

**WIRING DIAGRAM****1****CHECK DTC (OCCUPANT CLASSIFICATION ECU)**

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

- (b) Using the intelligent tester, check the DTCs of the occupant classification ECU (See page RS-25).

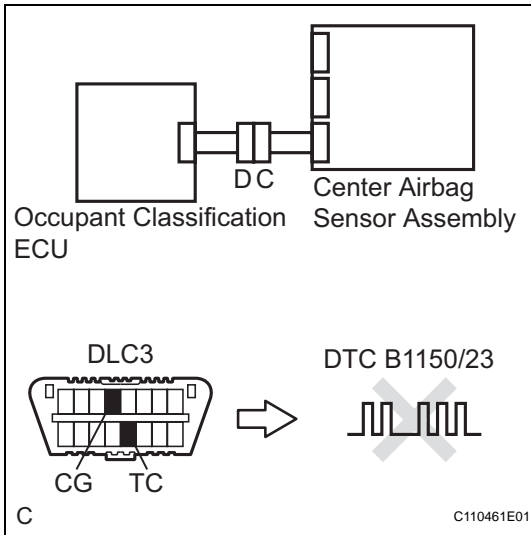
**OK:**

**DTC is not output.**

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

**OK**

**2 CHECK DTC (CENTER AIRBAG SENSOR ASSEMBLY)**



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

**OK:**

**DTC B1150/23 is not output.**

**HINT:**

Codes other than code B1150/23 may be output at this time, but they are not related to this check.

**NG** → **Go to step 3**

**OK**

**USE SIMULATION METHOD TO CHECK**

**3 CHECK CONNECTION OF CONNECTORS**

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

**OK:**

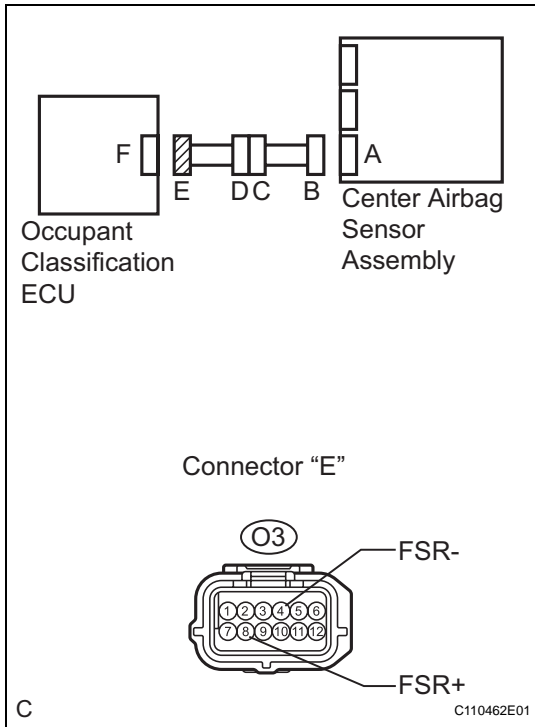
**The connectors are connected.**

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

**OK**

**RS**

**4 CHECK OCCUPANT CLASSIFICATION ECU CIRCUIT (SHORT TO GROUND)**



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

**Resistance**

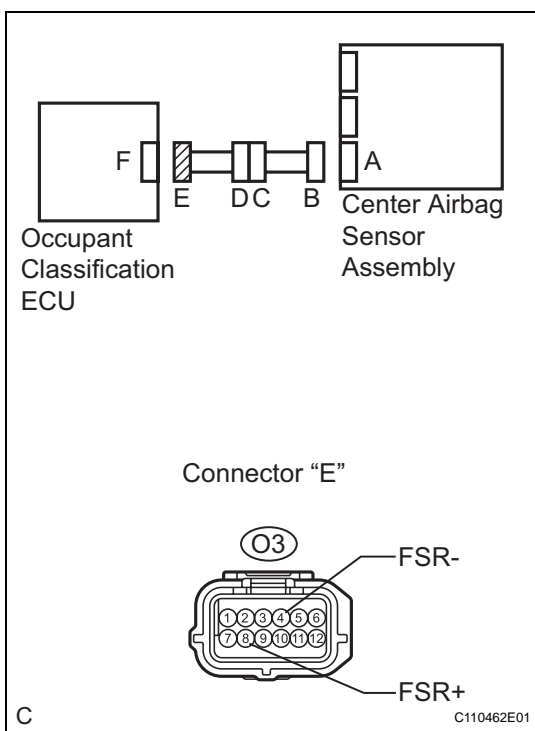
Tester connection	Condition	Specified condition
O3-8 (FSR+) - Body ground	Always	1 MΩ or Higher
O3-4 (FSR-) - Body ground	Always	1 MΩ or Higher

**NG**

**Go to step 8**

**OK**

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



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

**Voltage**

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

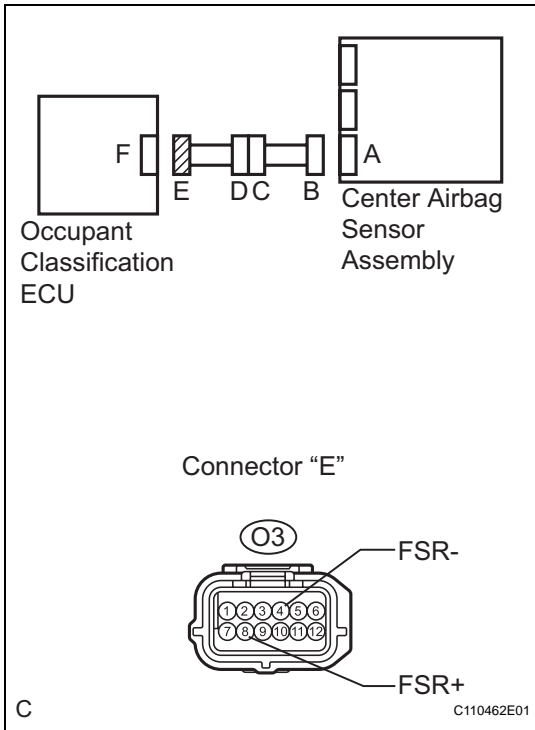
**NG**

**Go to step 9**

**OK**

**RS**

**6 CHECK OCCUPANT CLASSIFICATION ECU CIRCUIT (SHORT)**



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

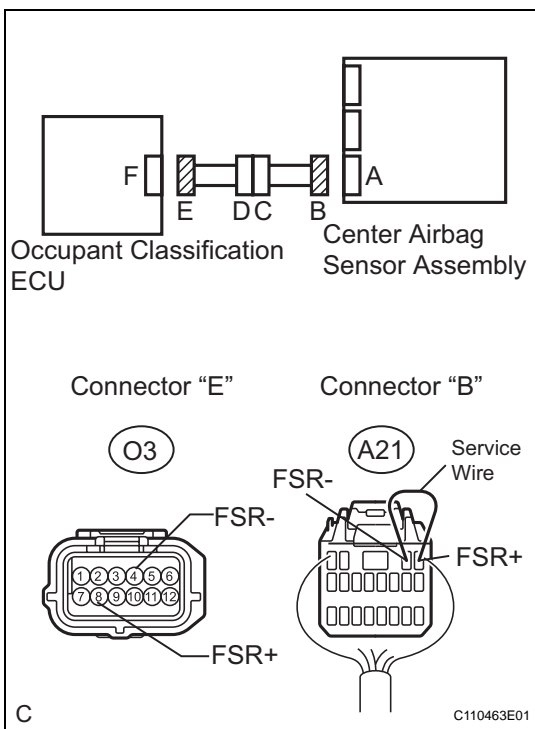
**Resistance**

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

**NG** Go to step 10

**OK**

**7 CHECK OCCUPANT CLASSIFICATION ECU CIRCUIT (OPEN)**



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

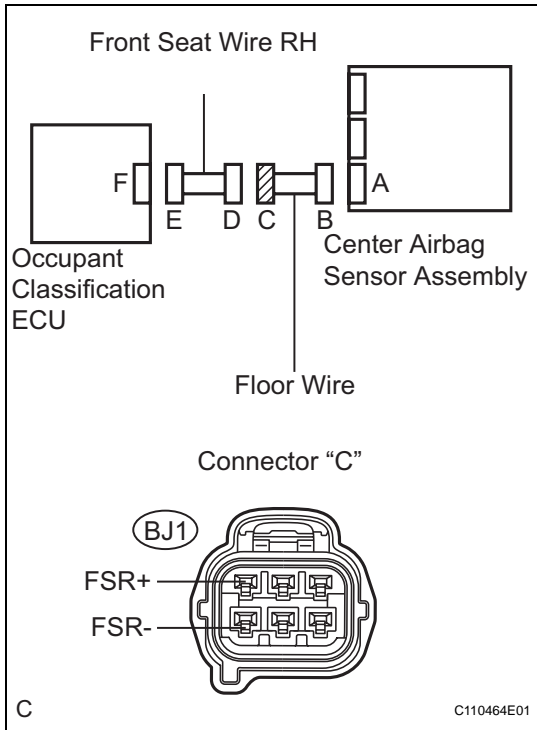
**Resistance**

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

**NG** Go to step 11

**OK**

**8 CHECK FLOOR WIRE (SHORT TO GROUND)**



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

**Resistance**

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

**NG**

**REPAIR OR REPLACE FLOOR WIRE**

**OK**

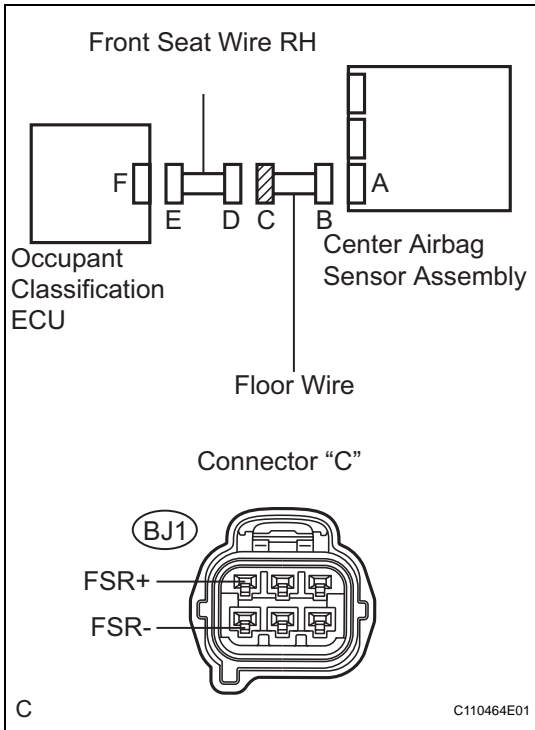
**REPAIR OR REPLACE FRONT SEAT WIRE RH**

**RS**

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**9 CHECK FLOOR WIRE (SHORT TO B+)**



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

**Voltage**

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

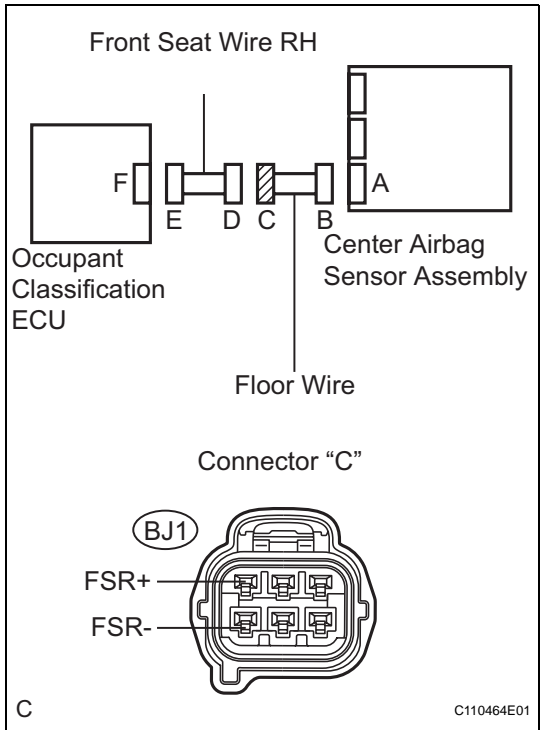
**NG** REPAIR OR REPLACE FLOOR WIRE

**OK**

**REPAIR OR REPLACE FRONT SEAT WIRE RH**

**RS**

**10 CHECK FLOOR WIRE (SHORT)**



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

**Resistance**

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

**RS**

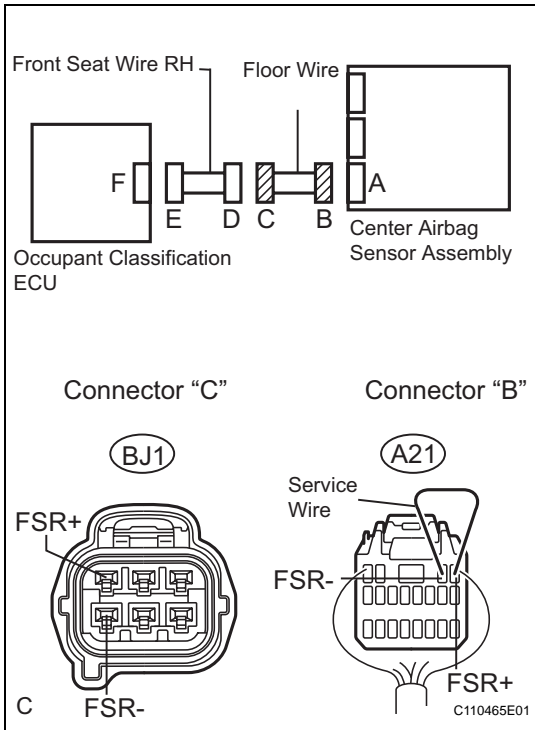
**NG**

**REPAIR OR REPLACE FLOOR WIRE**

**OK**

**REPAIR OR REPLACE FRONT SEAT WIRE RH**

**11 CHECK FLOOR WIRE (OPEN)**



- (a) Disconnect the floor wire connector from the front seat wire RH.  
HINT:  
The service wire has already been inserted into connector "B".
- (b) Measure the resistance according to the value(s) in the table below.

**Resistance**

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

**RS**

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

**OK**

**REPAIR OR REPLACE FRONT SEAT WIRE RH**