

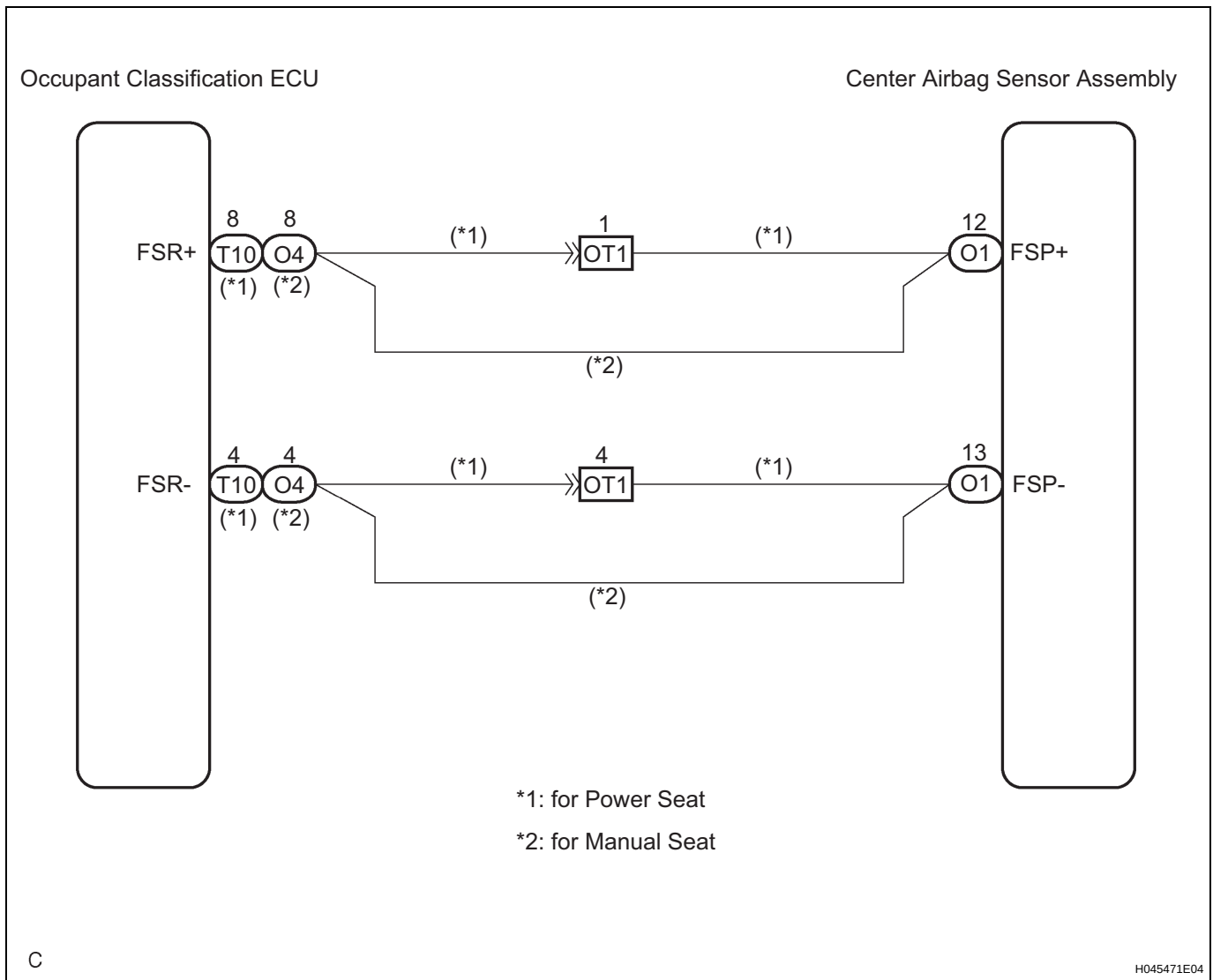
DTC**B1650/32****Occupant Classification System Malfunction****DESCRIPTION**

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

If the center airbag sensor assembly receives signals from the occupant classification ECU, it determines whether the front passenger airbag assembly, the front seat side airbag assembly RH and front seat outer belt assembly should be operated.

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

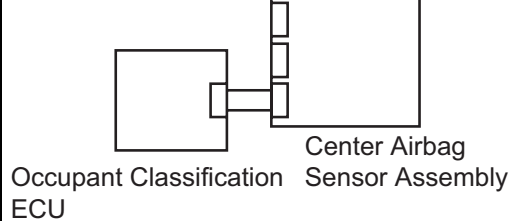
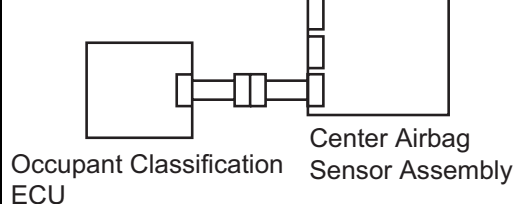
DTC No.	DTC Detecting Condition	Trouble Area
B1650/32	- Occupant classification system malfunction - The center airbag sensor assembly receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the occupant classification system circuit for 2 seconds. - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Occupant classification system - Front seat wire RH (for Power Seat) - Center airbag sensor assembly

WIRING DIAGRAM

INSPECTION PROCEDURE

1 CHECK DTC (OCCUPANT CLASSIFICATION ECU)

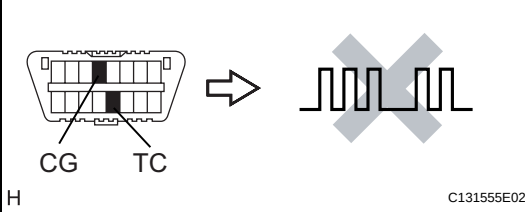
- (a) Turn the power switch on (IG), and wait for at least 10 seconds.
- (b) Using the intelligent tester, check the DTCs of the occupant classification ECU (See page RS-248).

OK:**DTC is not output.****NG****GO TO OCCUPANT CLASSIFICATION SYSTEM (See page RS-250)****OK****2 CHECK DTC (CENTER AIRBAG SENSOR ASSEMBLY)****for Manual Seat:****for Power Seat:**

- (a) Turn the power switch on (IG), and wait for at least 60 seconds.
- (b) Clear the DTCs stored in the memory (See page RS-41).
- (c) Turn the power switch off.
- (d) Turn the power switch on (IG), and wait for at least 60 seconds.
- (e) Check the DTCs (See page RS-41).

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 (See page RS-33)****DLC3****DTC 32****NG****3 CHECK CONNECTION OF CONNECTORS**

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

- (c) Check that the connectors are properly connected to the center airbag sensor assembly and the occupant classification ECU.

OK:

The connectors are properly connected.

NG

CONNECT CONNECTORS PROPERLY

OK

4

CHECK CONNECTORS

- (a) Disconnect the connectors from the center airbag sensor assembly and the occupant classification ECU.
- (b) Check that the connectors (on the center airbag sensor assembly side and occupant classification ECU side) are not damaged.

OK:

The connectors are not deformed or damaged.

NG

REPAIR OR REPLACE WIRE HARNESS

OK

5

CHECK VEHICLE TYPE

- (a) Check the front passenger side seat type.

Result

Result	Proceed to
for Manual seat	A
for Power seat	B

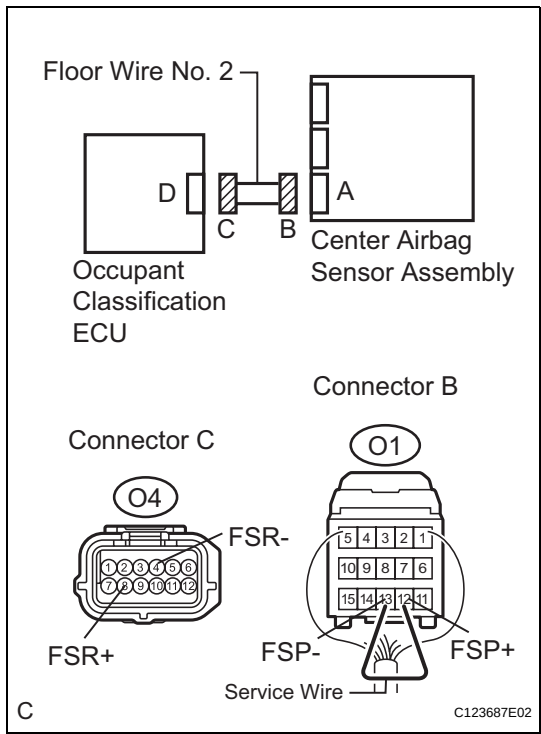
B

Go to step 10

A

6

CHECK FLOOR WIRE NO. 2 (OPEN)



- (a) Using a service wire, connect terminals 12 (FSP+) and 13 (FSP-) of connector B.

NOTICE:
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.

Standard resistance

Terminal Connection	Condition	Specified Condition
O4-8 (FSR+) - O4-4 (FSR-)	Always	Below 1 Ω

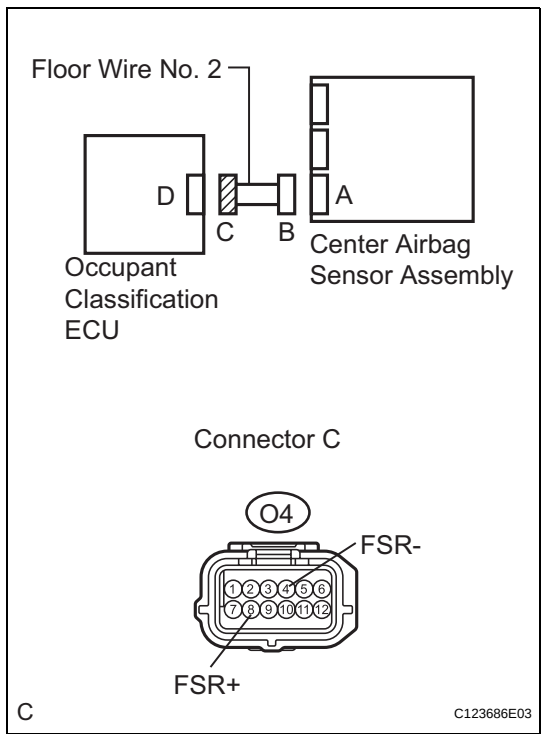
NG

REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

7

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

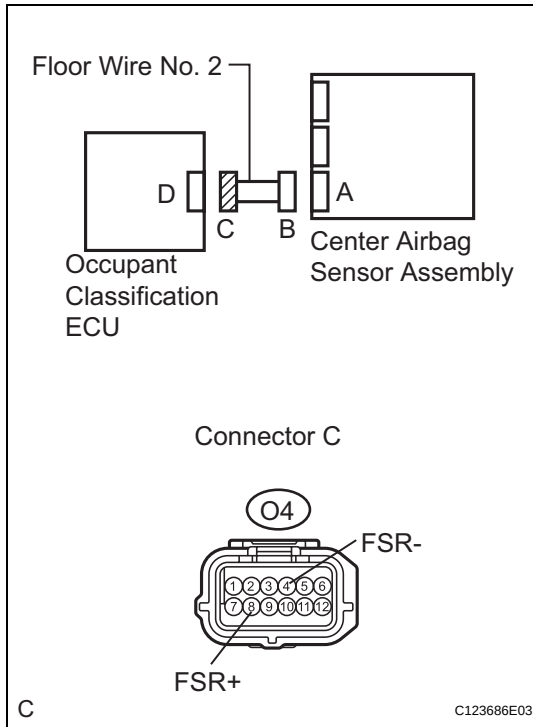
Terminal Connection	Condition	Specified Condition
O4-8 (FSR+) - O4-4 (FSR-)	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FLOOR WIRE NO. 2

RS

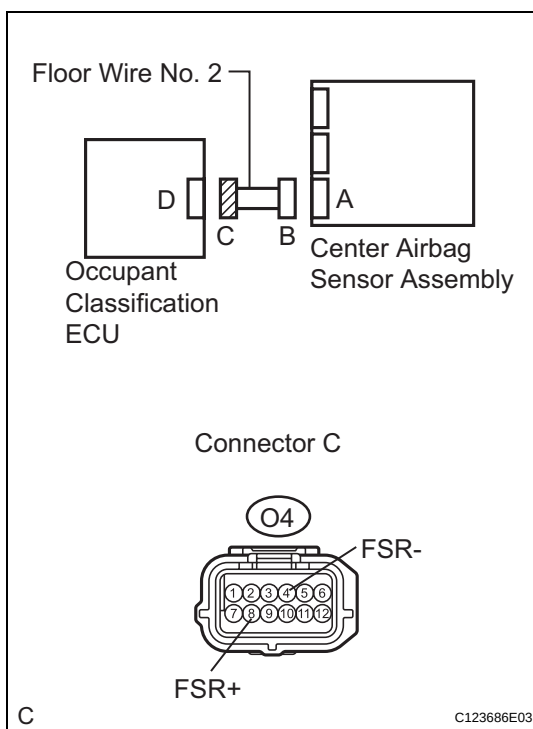
OK

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

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

Standard voltage

Tester Connection	Condition	Specified Condition
O4-8 (FSR+) - Body ground	Power switch ON	Below 1 V
O4-4 (FSR-) - Body ground	Power switch ON	Below 1 V

NG**REPAIR OR REPLACE FLOOR WIRE NO. 2****OK****9 CHECK FLOOR WIRE NO. 2 (SHORT TO GROUND)**

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

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

HINT:

After replacing the center airbag sensor assembly, check for DTCs of the center airbag sensor assembly. If the DTC B1650/32 is detected, replace the occupant classification ECU (See page [RS-445](#)) and perform "zero point calibration" and "sensitivity check" of the occupant classification system (See page [RS-239](#)).

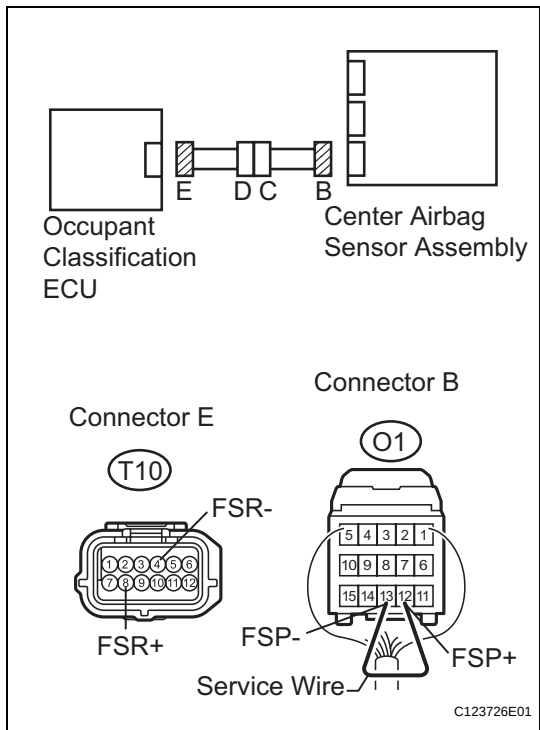
NG**REPAIR OR REPLACE FLOOR WIRE NO. 2**

OK

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-423](#))

10

CHECK OCCUPANT CLASSIFICATION SYSTEM CIRCUIT (OPEN)



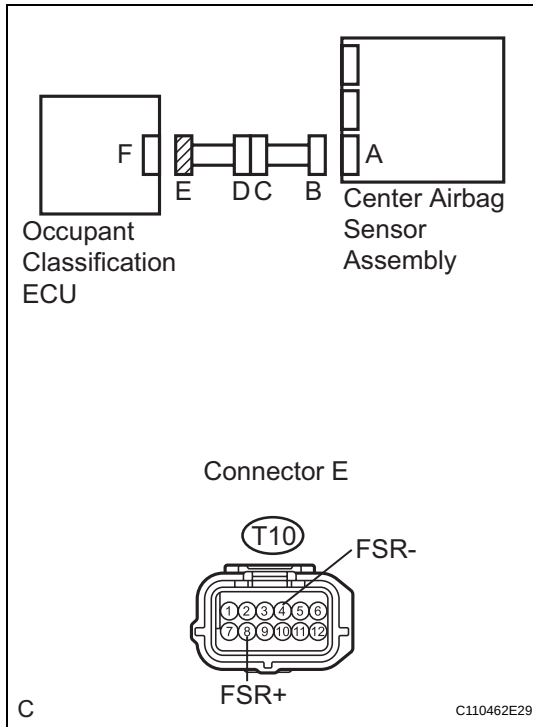
- (a) Using a service wire, connect terminals 12 (FSP+) and 13 (FSP-) of connector B.
- NOTICE:**
Do not forcibly insert a service wire into the terminal of the connector when connecting.
- (b) Measure the resistance according to the value(s) in the table below.
- Standard resistance**

Tester Connection	Condition	Specified Condition
T10-8 (FSR+) - T10-4 (FSR-)	Always	Below 1 Ω

NG

Go to step 14

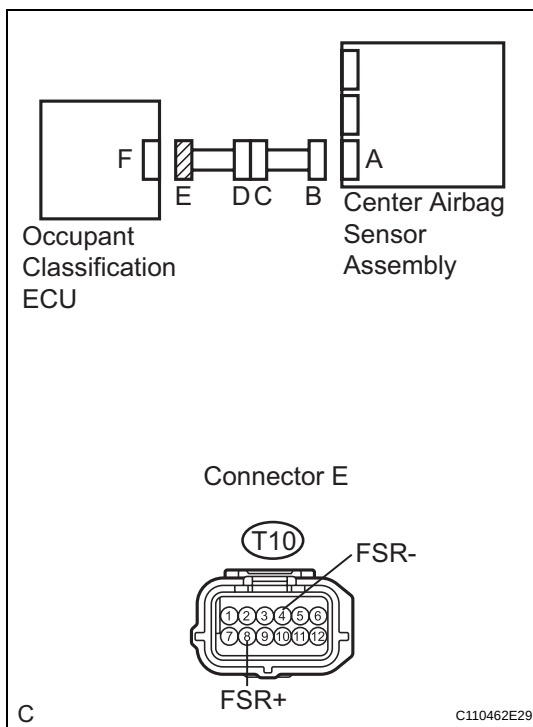
OK

11 CHECK OCCUPANT CLASSIFICATION SYSTEM CIRCUIT (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
T10-8 (FSR+) - T10-4 (FSR-)	Always	1 MΩ or higher

NG**Go to step 15****OK****12 CHECK OCCUPANT CLASSIFICATION SYSTEM CIRCUIT (SHORT TO B+)**

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

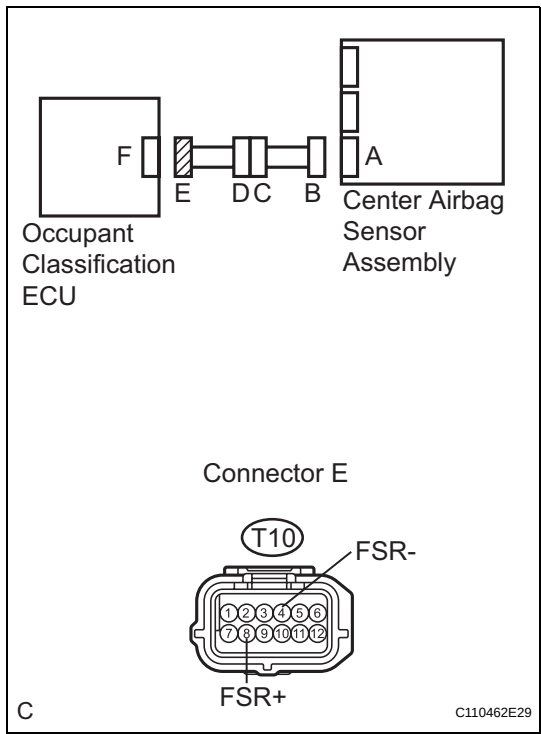
Standard voltage

Tester Connection	Condition	Specified Condition
T10-8 (FSR+) - Body ground	Power switch on (IG)	Below 1 V
T10-4 (FSR-) - Body ground	Power switch on (IG)	Below 1 V

NG**Go to step 16****OK**

13

CHECK OCCUPANT CLASSIFICATION SYSTEM CIRCUIT (SHORT TO GROUND)



- (a) Turn the power switch off.
- (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
T10-8 (FSR+) - Body ground	Always	1 MΩ or higher
T10-4 (FSR-) - Body ground	Always	1 MΩ or higher

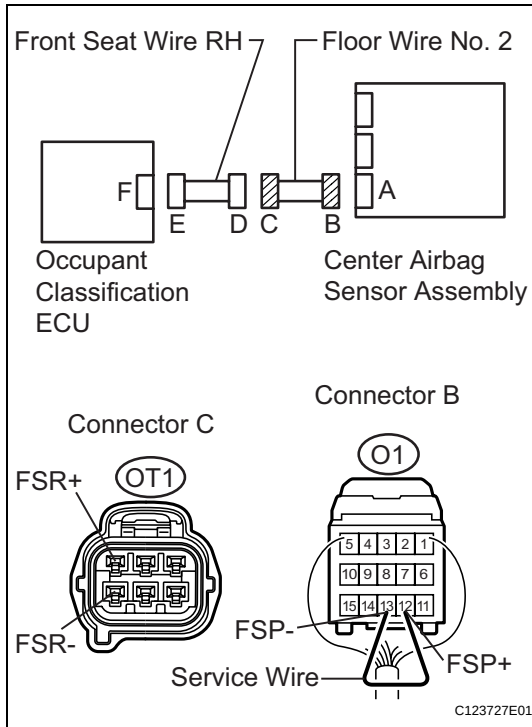
HINT:
After replacing the center airbag sensor assembly, check for DTCs of the center airbag sensor assembly. If the DTC B1650/32 is detected, replace the occupant classification ECU (See page RS-445) and perform "zero point calibration" and "sensitivity check" of the occupant classification system (See page RS-239).

NG

Go to step 17

OK

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page RS-423)

14 CHECK FLOOR WIRE NO. 2 (OPEN)

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

HINT:

The service wire has already been inserted into connector B.

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

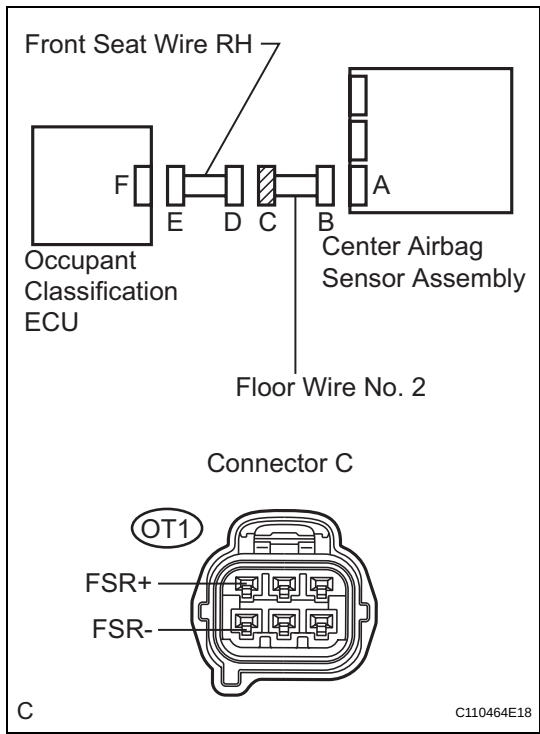
Standard resistance

Tester Connection	Condition	Specified Condition
OT1-1 (FSR+) - OT1-4 (FSR-)	Always	Below 1 Ω

NG**REPAIR OR REPLACE FLOOR WIRE NO. 2****OK****REPAIR OR REPLACE FRONT SEAT WIRE RH**

15

CHECK FLOOR WIRE NO. 2 (SHORT)



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

Standard resistance

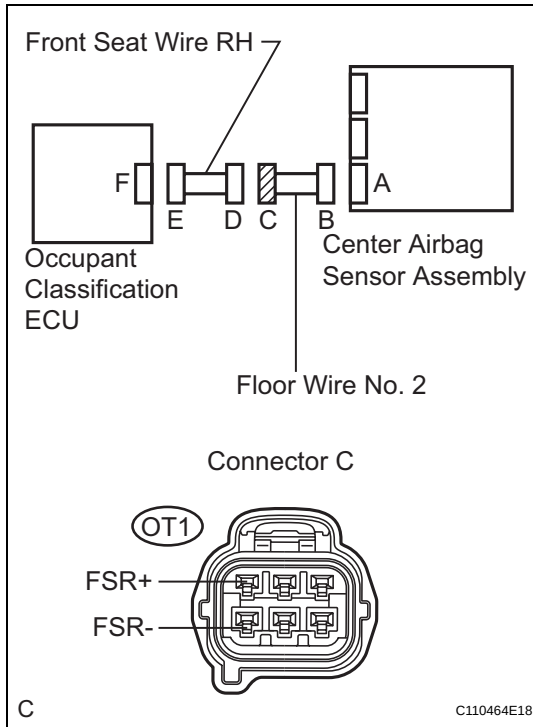
Tester Connection	Condition	Specified Condition
OT1-1 (FSR+) - OT1-4 (FSR-)	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

REPAIR OR REPLACE FRONT SEAT WIRE RH

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

- Turn the power switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the front seat wire RH connector from the floor wire No. 2.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG).
- Measure the voltage according to the value(s) in the table below.

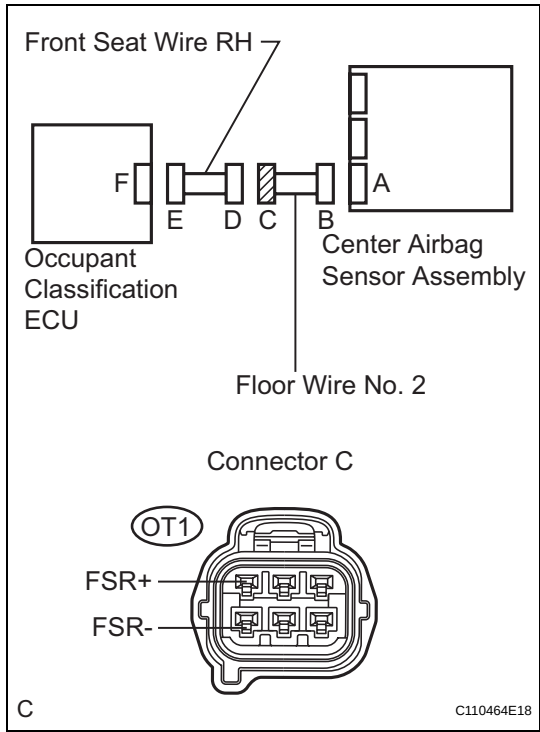
Standard voltage

Tester Connection	Condition	Specified Condition
OT1-1 (FSR+) - Body ground	Power switch on (IG)	Below 1 V
OT1-4 (FSR-) - Body ground	Power switch on (IG)	Below 1 V

NG**REPAIR OR REPLACE FLOOR WIRE NO. 2****OK****REPAIR OR REPLACE FRONT SEAT WIRE RH**

17

CHECK FLOOR WIRE NO. 2 (SHORT TO GROUND)



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

Standard resistance

Tester Connection	Condition	Specified Condition
OT1-1 (FSR+) - Body ground	Always	1 MΩ or higher
OT1-4 (FSR-) - Body ground	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

REPAIR OR REPLACE FRONT SEAT WIRE RH