

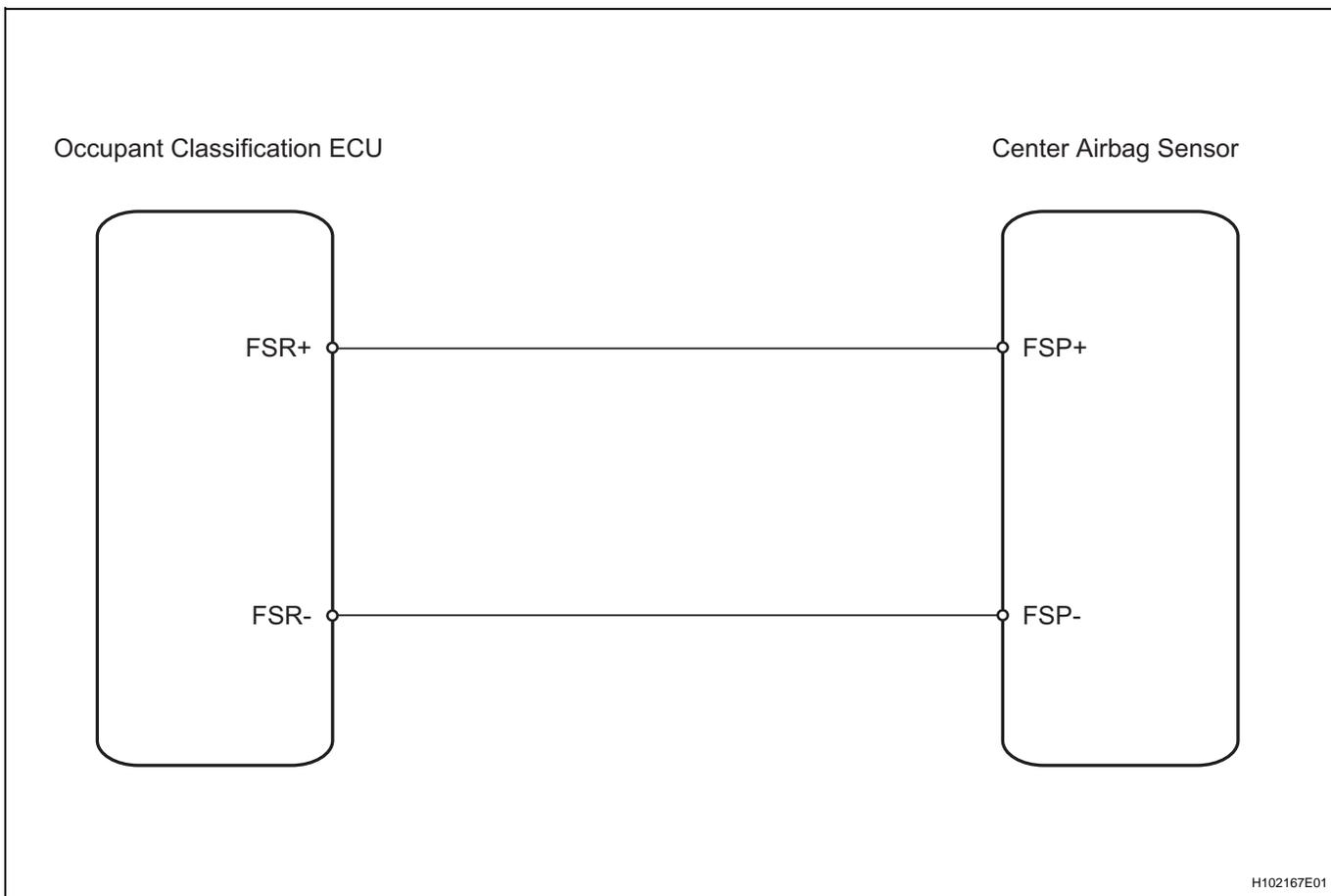
DTC**B1650/32****Occupant Classification System Malfunction****DESCRIPTION**

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

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

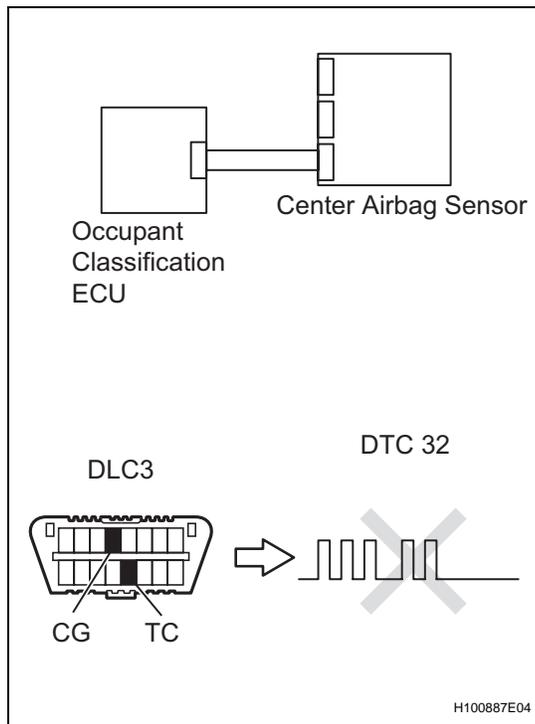
DTC B1650/32 is set when a malfunction is detected in the occupant classification system circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1650/32	When one of following conditions is met: <ul style="list-style-type: none"> • Occupant classification system malfunction • Center airbag sensor detects line short signal, open signal, short to ground signal or short to B+ signal in occupant classification system circuit for 2 seconds • Center airbag sensor malfunction 	<ul style="list-style-type: none"> • Floor wire • Occupant classification system • Center airbag sensor

WIRING DIAGRAM

INSPECTION PROCEDURE

1 CHECK FOR DTC (CENTER AIRBAG SENSOR)



- (a) Turn the ignition switch ON, and wait for at least 60 seconds.
- (b) Clear the DTCs (see page RS-49).
- (c) Turn the ignition switch OFF.
- (d) Turn the ignition switch ON, and wait for at least 60 seconds.
- (e) Check for DTCs (see page RS-49).

OK:

DTC B1650/32 is not output.

HINT:

DTCs other than B1650/32 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

2 CHECK FOR DTC (OCCUPANT CLASSIFICATION ECU)

- (a) Turn the ignition switch ON, and wait for at least 10 seconds.
- (b) Using the intelligent tester (with CAN VIM), check for DTCs of the occupant classification ECU (see page RS-249).

OK:

DTC is not output.

NG → **GO TO DTC CHART**

OK

3 CHECK CONNECTION OF CONNECTOR

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

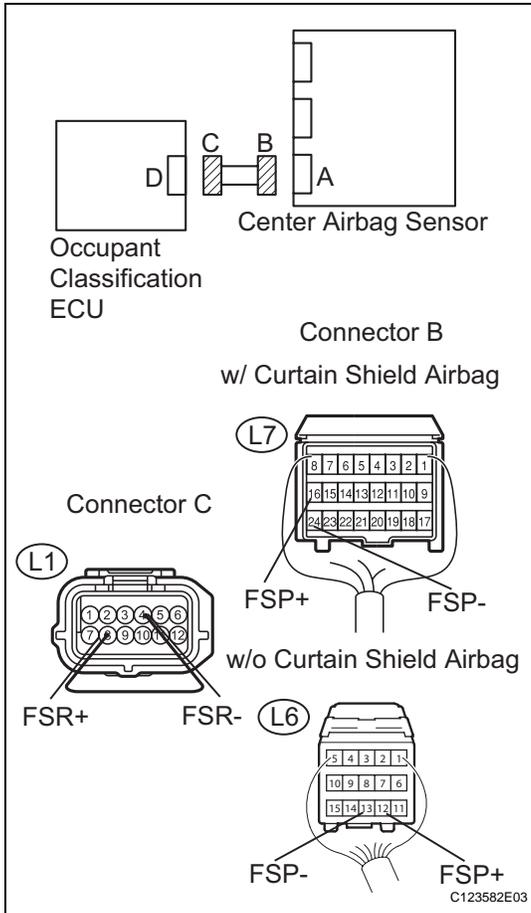
OK:

The connectors are properly connected.

NG **CONNECT CONNECTOR**

OK

4 CHECK FLOOR WIRE (OPEN)



- (a) Disconnect the connectors from the center airbag sensor and occupant classification ECU.
- (b) Using a service wire, connect L1-8 (FSR+) and L1-4 (FSR-) of connector C.

NOTICE:

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

- (c) Measure the resistance of the wire harness side connector.

Standard resistance:

w/ Curtain shield airbag

Tester Connection	Specified Condition
L7-16 (FSP+) - L7-24 (FSP-)	Below 1 Ω

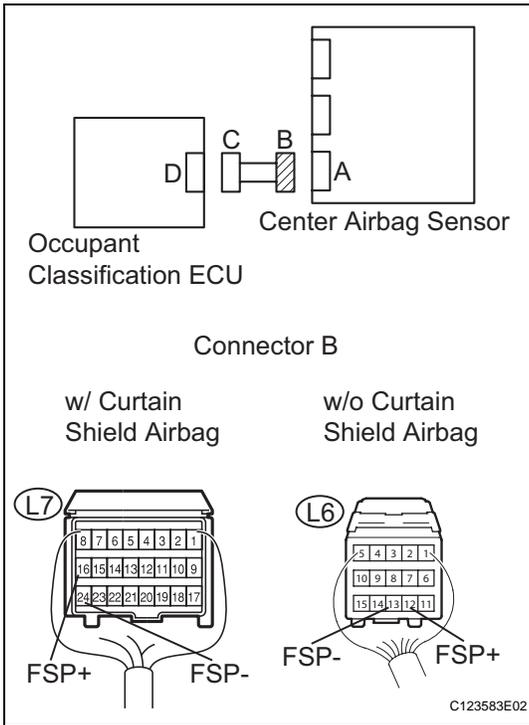
w/o Curtain shield airbag

Tester Connection	Specified Condition
L6-12 (FSP+) - L6-13 (FSP-)	Below 1 Ω

NG **REPAIR OR REPLACE FLOOR WIRE**

OK

5 CHECK FLOOR WIRE (SHORT)



- (a) Disconnect the service wire from connector C.
- (b) Measure the resistance of the wire harness side connector.

**Standard resistance:
w/ Curtain shield airbag**

Tester Connection	Specified Condition
L7-16 (FSP+) - L7-24 (FSP-)	1 MΩ or higher

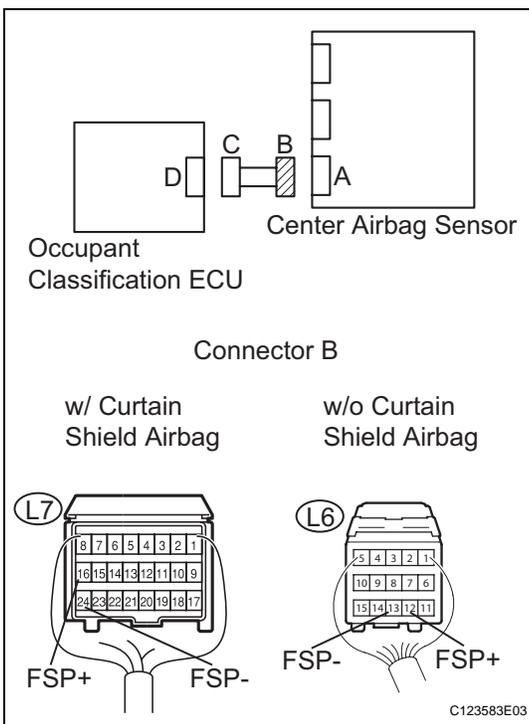
w/o Curtain shield airbag

Tester Connection	Specified Condition
L6-12 (FSP+) - L6-13 (FSP-)	1 MΩ or higher

NG REPAIR OR REPLACE FLOOR WIRE

OK

6 CHECK FLOOR WIRE (TO B+)



- (a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
- (b) Turn the ignition switch ON.
- (c) Measure the voltage of the wire harness side connector.

**Standard voltage:
w/ Curtain shield airbag**

Tester Connection	Specified Condition
L7-16 (FSP+) - Body ground	Below 1 V
L7-24 (FSP-) - Body ground	Below 1 V

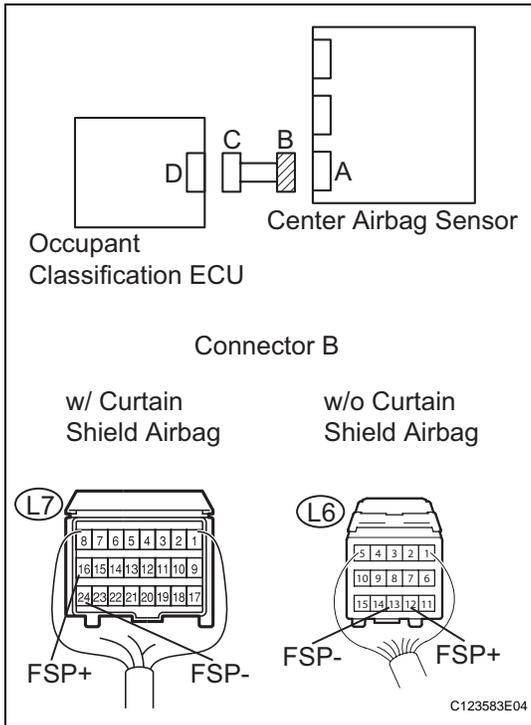
w/o Curtain shield airbag

Tester Connection	Specified Condition
L6-12 (FSP+) - Body ground	Below 1 V
L6-13 (FSP-) - Body ground	Below 1 V

NG REPAIR OR REPLACE FLOOR WIRE

OK

7 CHECK FLOOR WIRE (TO GROUND)



- (a) Turn the ignition switch OFF.
- (b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
- (c) Measure the resistance of the wire harness side connector.

**Standard resistance:
w/ Curtain shield airbag**

Tester Connection	Specified Condition
L7-16 (FSP+) - Body ground	1 MΩ or higher
L7-24 (FSP-) - Body ground	1 MΩ or higher

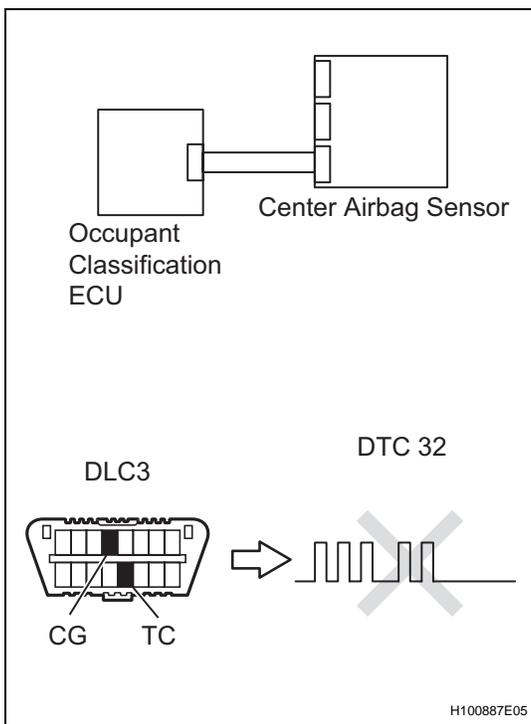
w/o Curtain shield airbag

Tester Connection	Specified Condition
L6-12 (FSP+) - Body ground	1 MΩ or higher
L6-13 (FSP-) - Body ground	1 MΩ or higher

NG REPAIR OR REPLACE FLOOR WIRE

OK

8 CHECK CENTER AIRBAG SENSOR ASSEMBLY



- (a) Replace the center airbag sensor (see page RS-374).
HINT:
Perform the inspection using parts from a normal vehicle when possible.
- (b) Connect the connectors to the center airbag sensor.
- (c) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
- (d) Turn the ignition switch ON, and wait for at least 60 seconds.
- (e) Clear the DTCs (see page RS-49).
- (f) Turn the ignition switch OFF.
- (g) Turn the ignition switch ON, and wait for at least 60 seconds.
- (h) Check for DTCs (see page RS-49).

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

HINT:
DTCs other than B1650/32 may be output at this time, but they are not related to this check.

OK USE SIMULATION METHOD TO CHECK

NG

9 REPLACE OCCUPANT CLASSIFICATION ECU

- (a) Turn the ignition switch OFF.
- (b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
- (c) Replace the occupant classification ECU (see page [RS-392](#)).

NEXT**10 PERFORM ZERO POINT CALIBRATION**

- (a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
- (b) Turn the ignition switch ON.
- (c) Using the intelligent tester, perform the zero point calibration (see page [RS-241](#)).

OK:**COMPLETED is displayed on the tester.****NEXT****11 PERFORM SENSITIVITY CHECK**

- (a) Using the intelligent tester, perform the sensitivity check (see page [RS-241](#)).

Standard value:**27 to 33 kg (59.52 to 72.75 lb)****NEXT****END****RS**