

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

DESCRIPTION

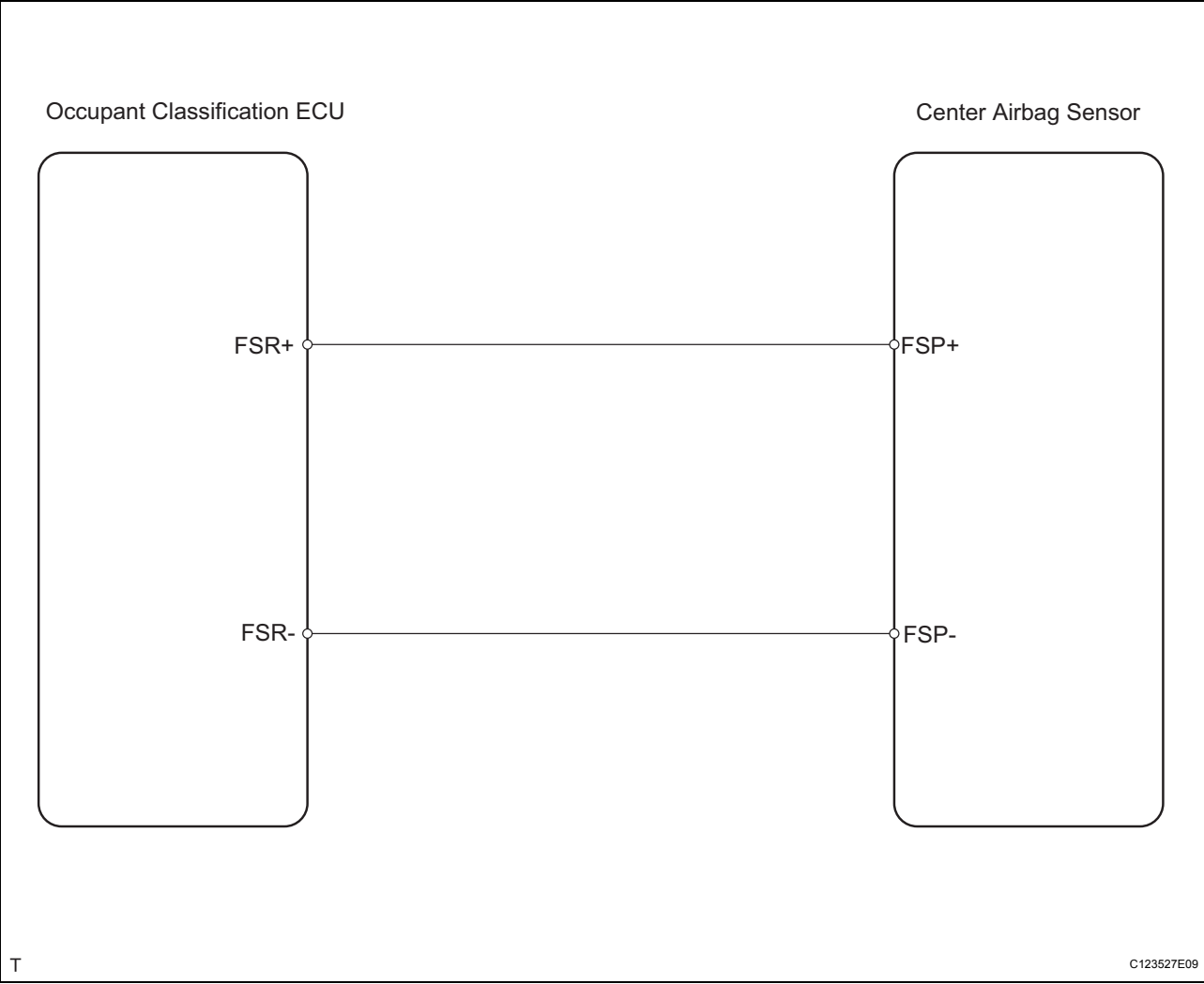
The occupant classification system circuit consists of the center airbag sensor and the occupant classification system.

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 Conditions	Trouble Areas
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 from occupant classification system circuit for 2 seconds• Center airbag sensor malfunction	<ul style="list-style-type: none">• Floor wire No. 2• Occupant classification system• Center airbag sensor

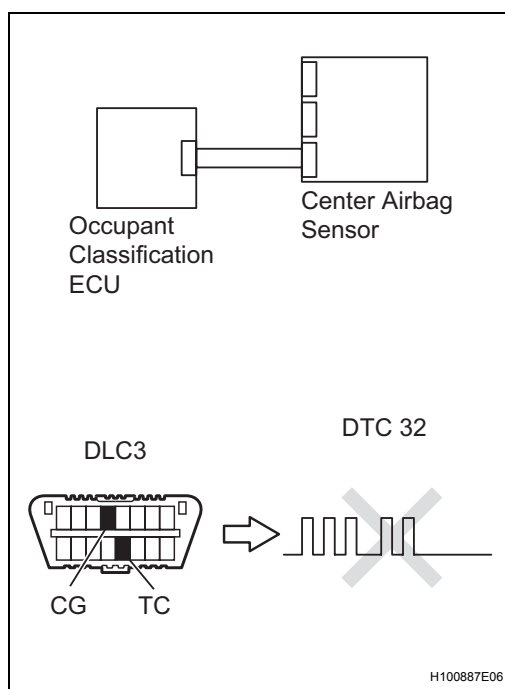
WIRING DIAGRAM



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 (with CAN VIM), check for DTCs of the occupant classification ECU (See page RS-186).

OK:**DTC is not output.****OK****GO TO DTC CHART****NG****2 CHECK DTC (CENTER AIRBAG SENSOR ASSEMBLY)**

- (a) Turn the power switch ON (IG), and wait for at least 60 seconds.
- (b) Clear the DTCs (See page RS-38).
- (c) Turn the power switch OFF.
- (d) Turn the power switch ON (IG), and wait for at least 60 seconds.
- (e) Check for DTCs (See page RS-38).

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

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

NG**USE SIMULATION METHOD TO CHECK****OK****3 CHECK CONNECTION OF CONNECTOR**

- (a) Turn the power 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:**Connectors are connected.****RS**

NG

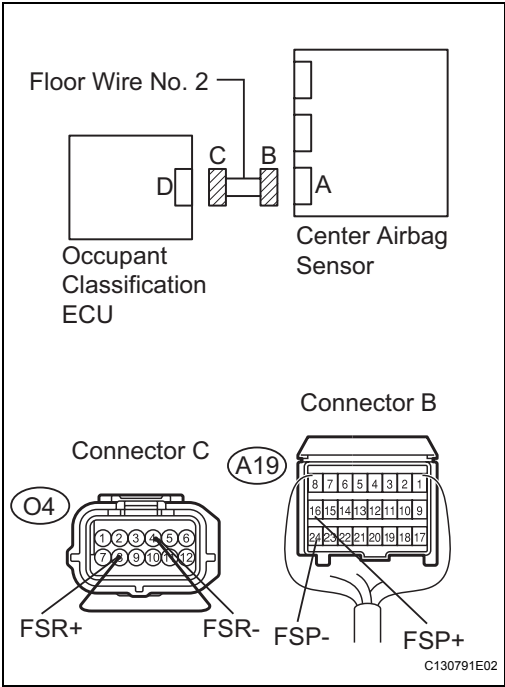
CONNECT CONNECTOR

OK

RS

4

CHECK FLOOR WIRE NO. 2 (OPEN)



OK

- (a) Disconnect the connectors from the center airbag sensor and the occupant classification ECU.
- (b) 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.

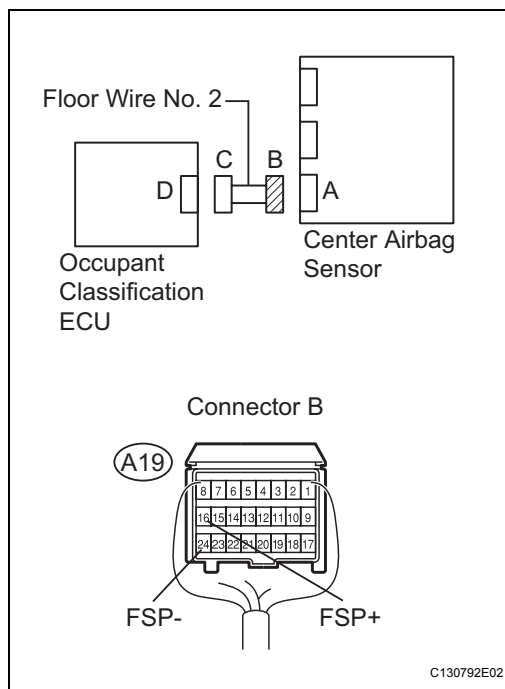
- (c) Measure the resistance of the wire harness side connector.

Standard resistance

Terminal Connection	Specified Condition
A19-16 (FSP+) - A19-24 (FSP-)	Below 1 Ω

NG

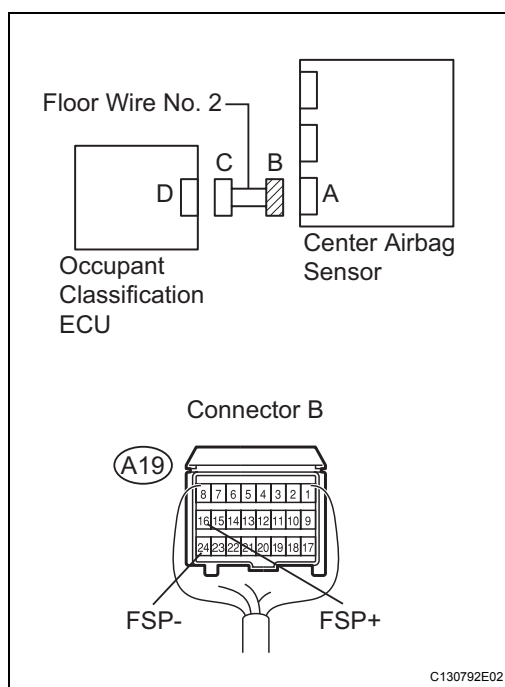
REPAIR OR REPLACE FLOOR WIRE NO. 2

5 CHECK FLOOR WIRE NO. 2 (SHORT)

- Disconnect the service wire from connector C.
- Measure the resistance of the wire harness side connector.

Standard resistance

Terminal Connection	Specified Condition
A19-16 (FSP+) - A19-24 (FSP-)	1 M Ω or higher

NG**REPAIR OR REPLACE FLOOR WIRE NO. 2****RS****OK****6 CHECK FLOOR WIRE NO. 2 (TO B+)**

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

Standard voltage

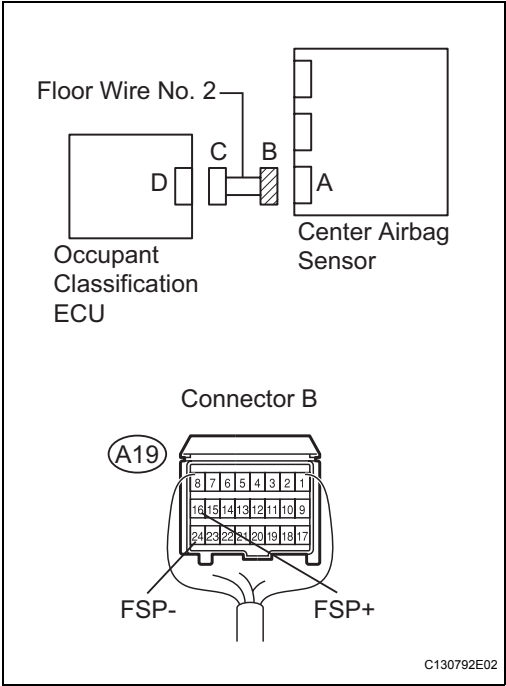
Terminal Connection	Specified Condition
A19-16 (FSP+) - Body ground	Below 1 V
A19-24 (FSP-) - Body ground	Below 1 V

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

RS

7

CHECK FLOOR WIRE NO. 2 (TO GROUND)



- (a) Turn the power 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

Terminal Connection	Specified Condition
A19-16 (FSP+) - Body ground	1 MΩ or higher
A19-24 (FSP-) - Body ground	1 MΩ or higher

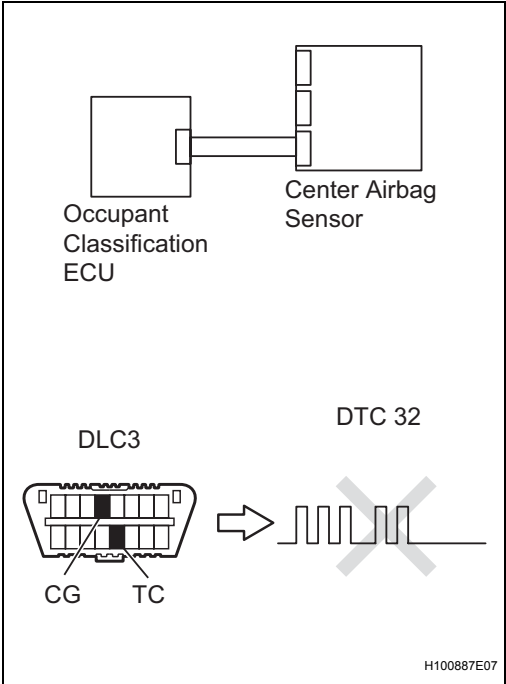
NG

REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

8

CHECK CENTER AIRBAG SENSOR ASSEMBLY



- (a) Turn the power switch OFF.
- (b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
- (c) Replace the center airbag sensor (see page RS-310).
HINT:
Perform the inspection using parts from a normal vehicle when possible.
- (d) Connect the connectors to the center airbag sensor.
- (e) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
- (f) Turn the power switch ON (IG), and wait for at least 60 seconds.
- (g) Clear the DTCs (see page RS-38).
- (h) Turn the power switch OFF.
- (i) Turn the power switch ON (IG), and wait for at least 60 seconds.
- (j) Check for DTCs (see page RS-38).

OK:
DTC B1650/32 is not output.

HINT:
DTCs 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

9 REPLACE OCCUPANT CLASSIFICATION ECU

- (a) Turn the power 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 [SE-4](#)).

RS

NEXT

10 PERFORM ZERO POINT CALIBRATION

- (a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
- (b) Connect the intelligent tester to the DLC3.
- (c) Turn the power switch ON (IG).
- (d) Using the intelligent tester, perform the zero point calibration (see page [RS-178](#)).

OK:**COMPLETED is displayed on the tester.**

NEXT

11 PERFORM SENSITIVITY CHECK

- (a) Using the intelligent tester, perform the sensitivity check (see page [RS-178](#)).

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

NEXT

END