

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.

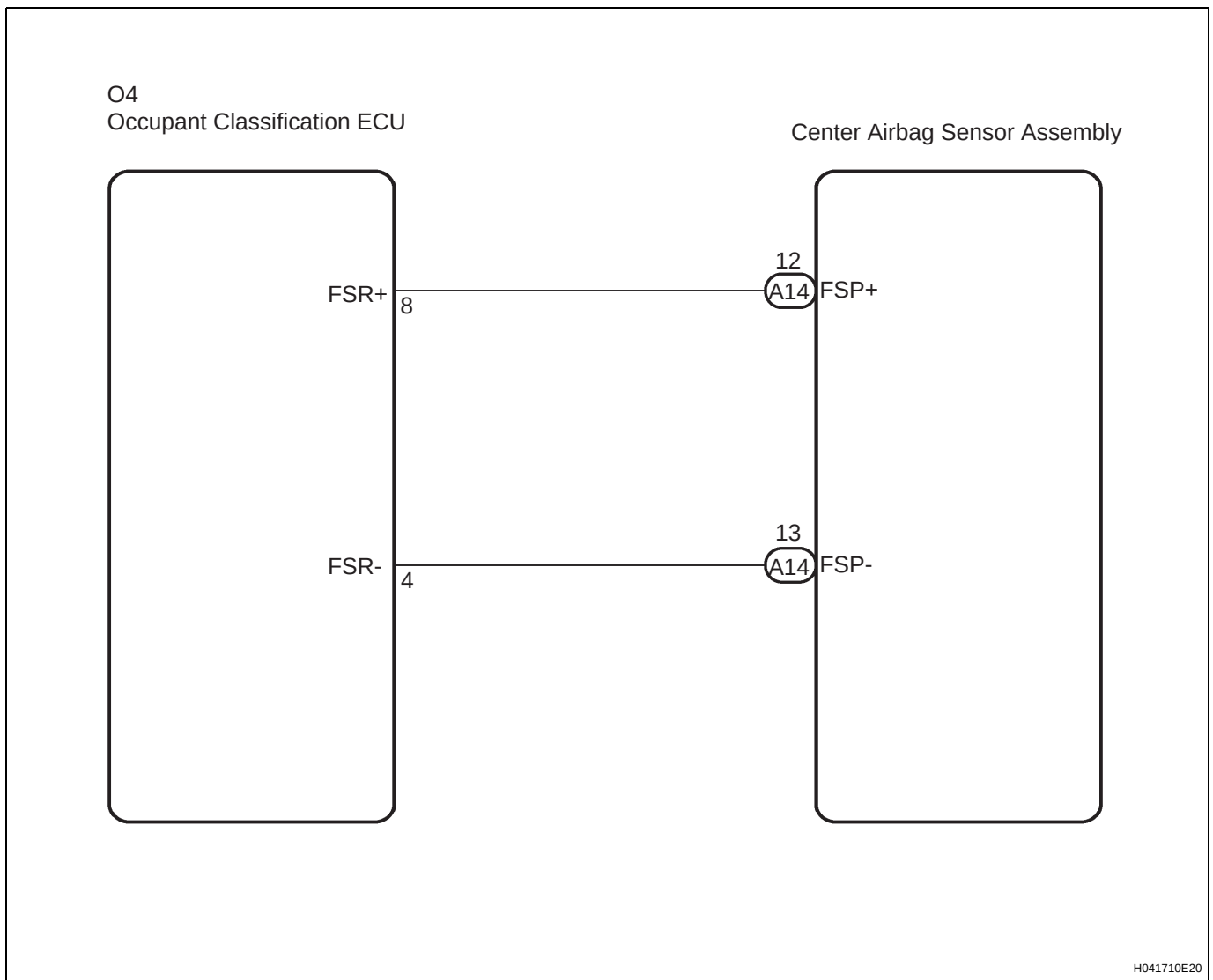
If the center airbag sensor assembly receives signals from the occupant classification ECU, it determines whether or not the front passenger airbag, the front passenger side - side airbag and front passenger side seat belt pretensioner should be operated.

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	- 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. - Occupant classification system malfunction - Center airbag sensor assembly malfunction	- Occupant classification system - Floor wire (*1) - Instrument panel wire No. 3 (*2) - Center airbag sensor assembly

*1: with Side and curtain shield airbag

*2: without Side and curtain shield airbag

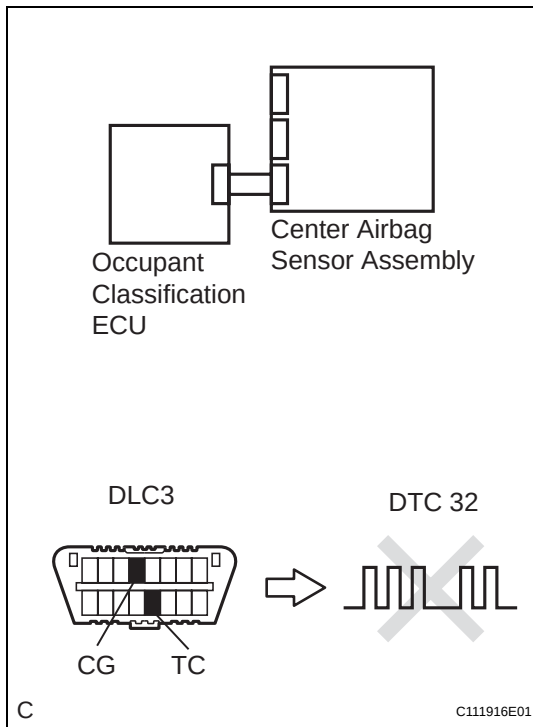
WIRING DIAGRAM

INSPECTION PROCEDURE

1 CHECK DTC (OCCUPANT CLASSIFICATION ECU)

RS

- (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-194](#)).

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-34](#)).
- (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-34](#)).

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**Go to step 3****NG****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

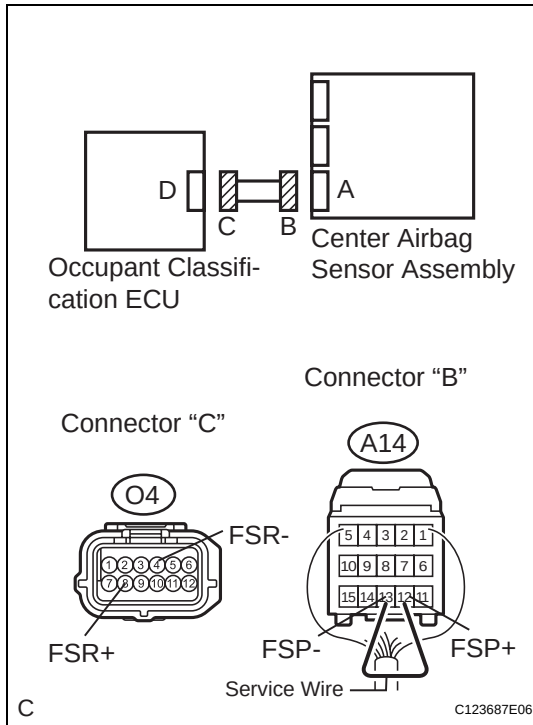
CONNECT CONNECTORS

RS

OK

4

CHECK OCCUPANT CLASSIFICATION SYSTEM CIRCUIT (OPEN)



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

- (b) Using a service wire, connect A14-12 (FSP+) and A14-13 (FSP-) of connector "B".

NOTICE:

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

- (c) 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

Result

Result	Proceed to
OK	A
NG (with Side and curtain shield airbag)	B
NG (without Side and curtain shield airbag)	C

B

REPAIR OR REPLACE FLOOR WIRE

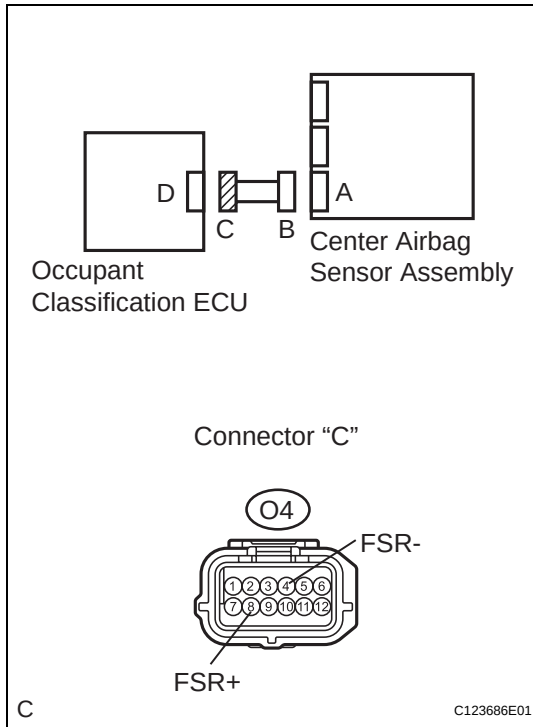
C

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO. 3

A

5 CHECK OCCUPANT CLASSIFICATION SYSTEM CIRCUIT (SHORT)

RS



- (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

Result

Result	Proceed to
OK	A
NG (with Side and curtain shield airbag)	B
NG (without Side and curtain shield airbag)	C

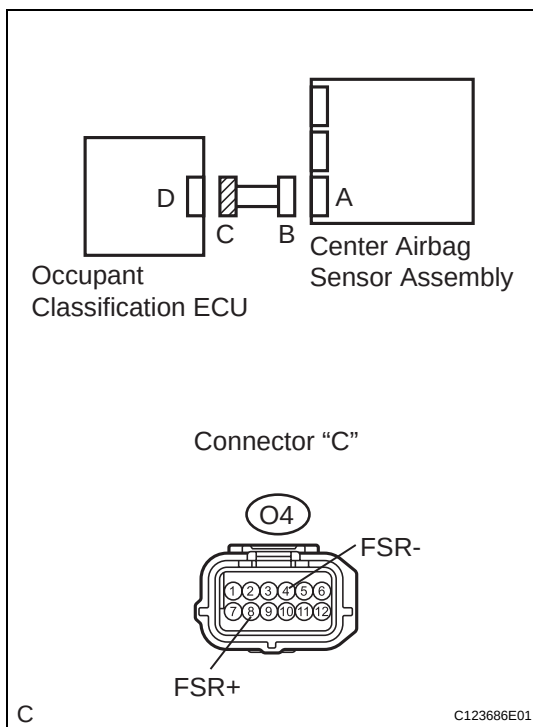
B

REPAIR OR REPLACE FLOOR WIRE

C

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO. 3

A

6 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 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
O4-8 (FSR+) - Body ground	Ignition switch ON	Below 1 V
O4-4 (FSR-) - Body ground	Ignition switch ON	Below 1 V

Result

Result	Proceed to
OK	A
NG (with Side and curtain shield airbag)	B
NG (without Side and curtain shield airbag)	C

B

REPAIR OR REPLACE FLOOR WIRE

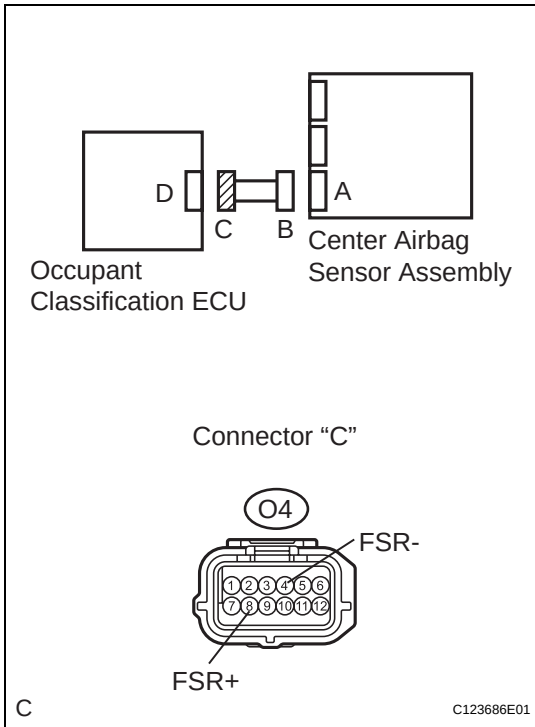
C

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO. 3

A

7

CHECK OCCUPANT CLASSIFICATION SYSTEM 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
O4-8 (FSR+) - Body ground	Always	1 MΩ or higher
O4-4 (FSR-) Body ground	Always	1 MΩ or higher

Result

Result	Proceed to
OK	A
NG (with Side and curtain shield airbag)	B
NG (without Side and curtain shield airbag)	C

B

REPAIR OR REPLACE FLOOR WIRE

C

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO. 3

A

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

RS