

DTC	B1150/23	OCCUPANT CLASSIFICATION SYSTEM MALFUNCTION
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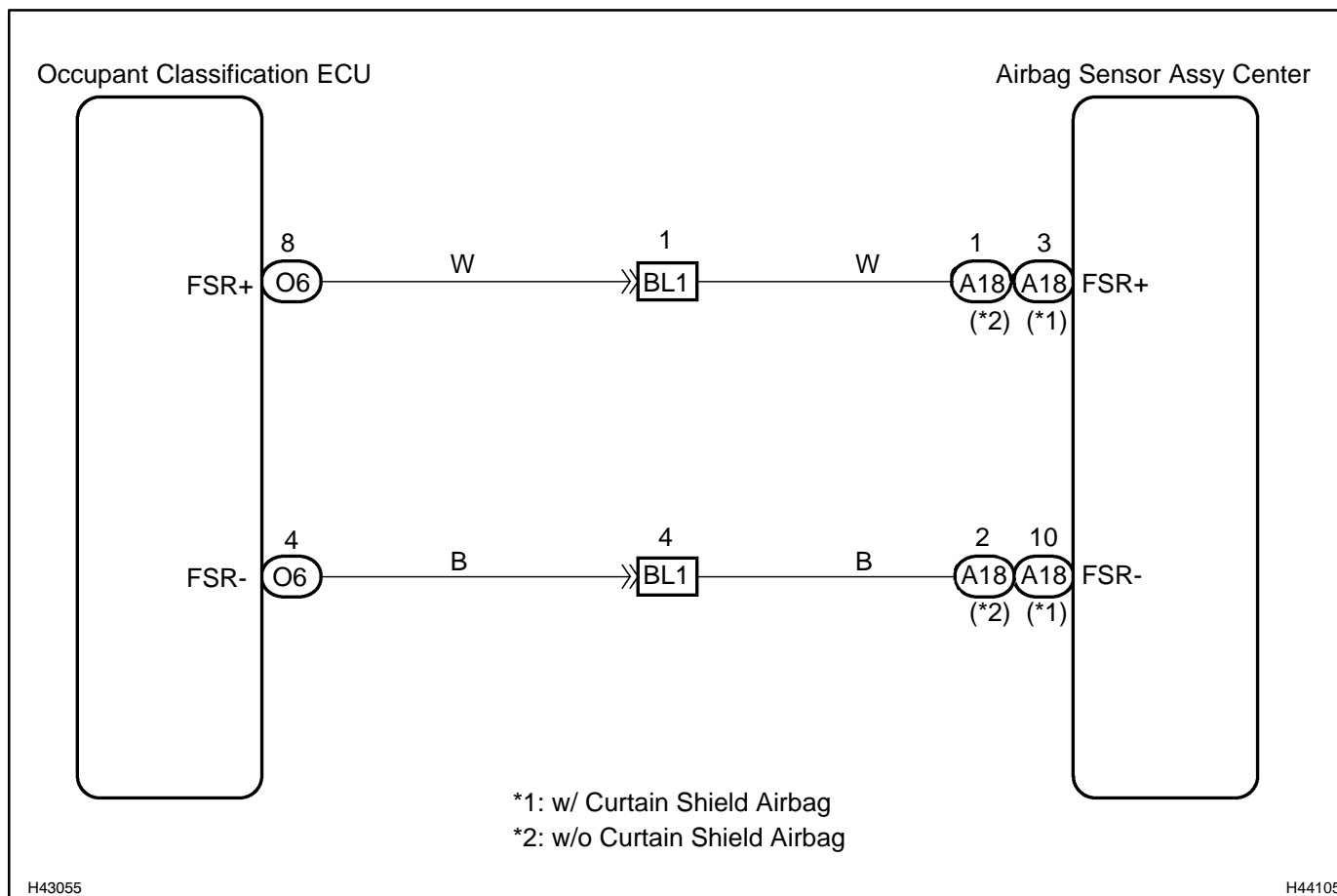
CIRCUIT DESCRIPTION

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

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	• Occupant classification system malfunction	<ul style="list-style-type: none"> • Floor wire • Front seat wire RH • Occupant classification ECU • Airbag sensor assy center

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK DTC(OCCUPANT CLASSIFICATION ECU)

- Turn the ignition switch to the ON position, and wait for at least 10 seconds.
- Using the hand-held tester, check the DTCs of the occupant classification ECU (see page 05-1215).

OK:

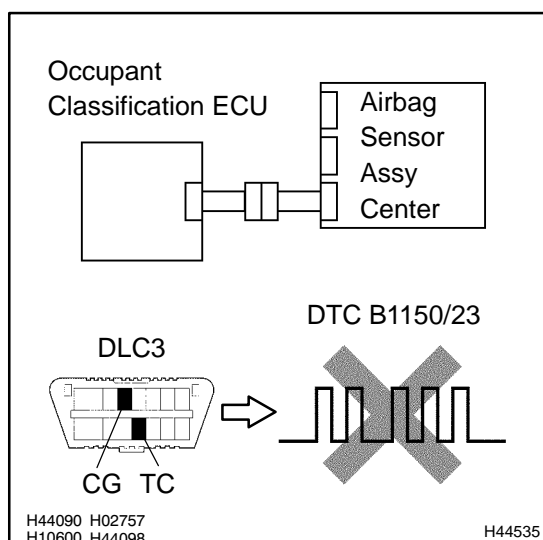
DTC is not output.

NG

GO TO INSPECTION PROCEDURE OF DTC OUTPUT

OK

2 CHECK DTC (AIRBAG SENSOR ASSY CENTER)



- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (see page 05-1215).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (see page 05-1215).

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

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

OK:

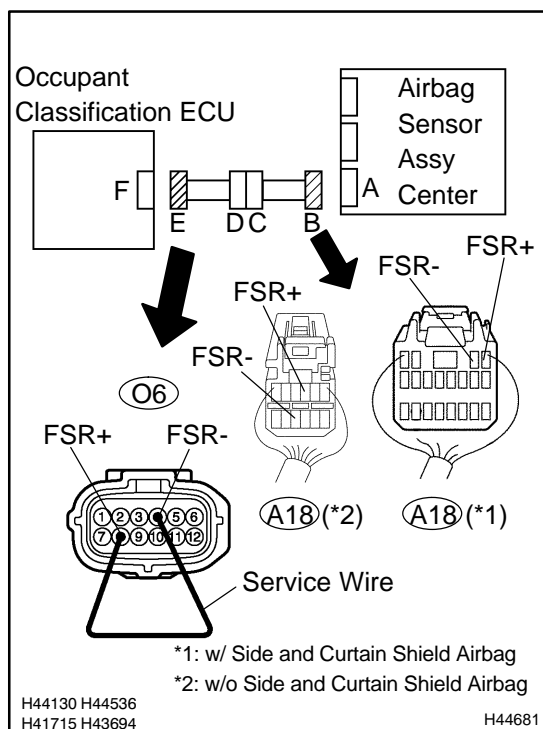
The connectors are connected.

NG

CONNECT CONNECTORS, THEN GO TO STEP 1

OK

4 CHECK OCCUPANT CLASSIFICATION ECU CIRCUIT(OPEN)



- Disconnect the connectors from the airbag sensor assy center and the occupant classification ECU.
- Using a service wire, connect O6-8 (FSR+) and O6-4 (FSR-) of connector "E".

NOTICE:

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

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

Standard:**w/ Side and curtain shield airbag:**

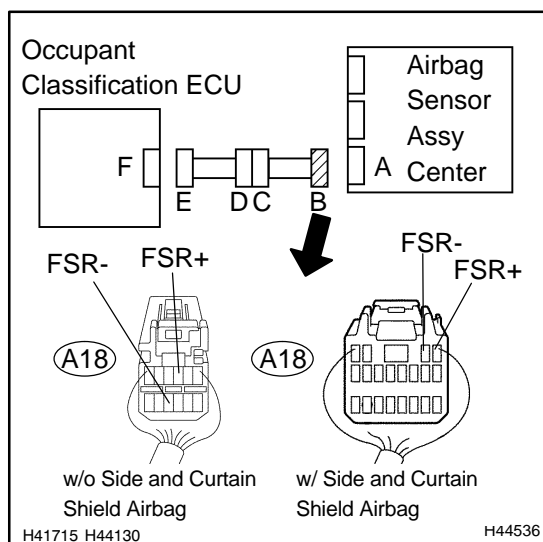
Tester connection	Condition	Specified condition
A18-3 (FSR+) - A18-10 (FSR-)	Always	Below 1 Ω

w/o Side and curtain shield airbag:

Tester connection	Condition	Specified condition
A18-1 (FSR+) - A18-2 (FSR-)	Always	Below 1 Ω

NG**Go to step 8****OK**

5 CHECK OCCUPANT CLASSIFICATION ECU CIRCUIT (SHORT)



- Disconnect the service wire from connector "E".
- Measure the resistance according to the value(s) in the table below.

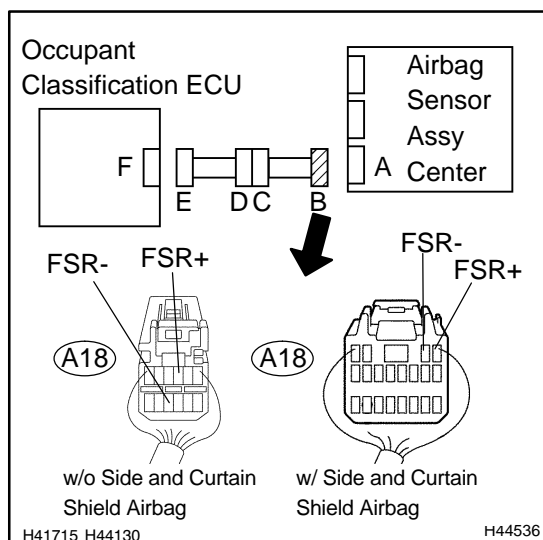
Standard:**w/ Side and curtain shield airbag:**

Tester connection	Condition	Specified condition
A18-3 (FSR+) - A18-10 (FSR-)	Always	1 MΩ or Higher

w/o Side and curtain shield airbag:

Tester connection	Condition	Specified condition
A18-1 (FSR+) - A18-2 (FSR-)	Always	1 MΩ or Higher

NG**Go to step 9****OK**

6 CHECK OCCUPANT CLASSIFICATION ECU CIRCUIT (TO B+)

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

Standard:**w/ Side and curtain shield airbag:**

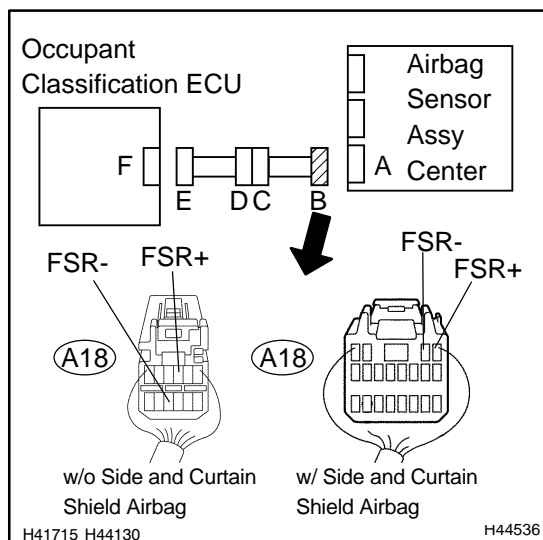
Tester connection	Condition	Specified condition
A18-3 (FSR+) - Body ground	Ignition switch ON	Below 1 V
A18-10 (FSR-) - Body ground	Ignition switch ON	Below 1 V

w/o Side and curtain shield airbag:

Tester connection	Condition	Specified condition
A18-1 (FSR+) - Body ground	Ignition switch ON	Below 1 V
A18-2 (FSR-) - Body ground	Ignition switch ON	Below 1 V

NG → Go to step 10

OK

7 CHECK OCCUPANT CLASSIFICATION ECU CIRCUIT (TO GROUND)

- Turn the ignition switch to the LOCK position.
- 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:**w/ Side and curtain shield airbag:**

Tester connection	Condition	Specified condition
A18-3 (FSR+) - Body ground	Always	1 MΩ or Higher
A18-10 (FSR-) - Body ground	Always	1 MΩ or Higher

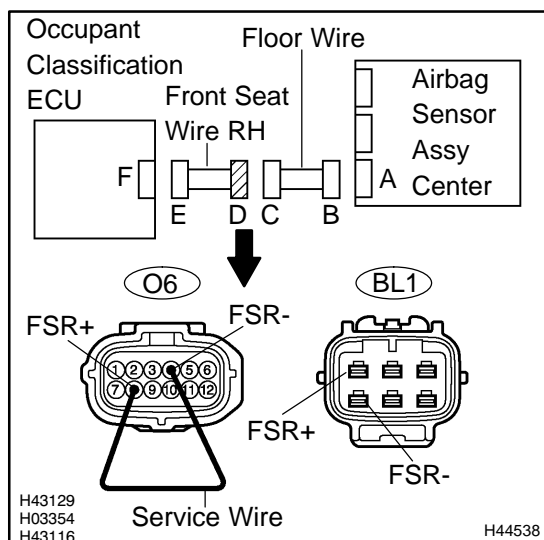
w/o Side and curtain shield airbag:

Tester connection	Condition	Specified condition
A18-1 (FSR+) - Body ground	Always	1 MΩ or Higher
A18-2 (FSR-) - Body ground	Always	1 MΩ or Higher

NG → Go to step 11

OK

REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60-53)

8 CHECK FRONT SEAT WIRE RH(OPEN)

- (a) Disconnect the front seat wire RH connector from the floor wire.

HINT:

Connector "E" has already been inserted into the service wire.

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

Standard:

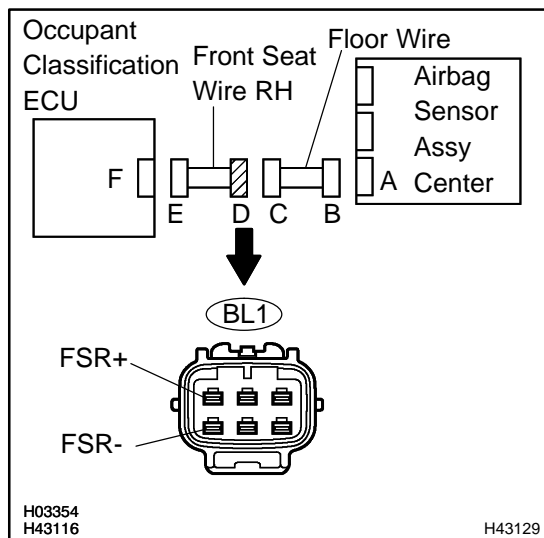
Tester connection	Condition	Specified condition
BL1-1 (FSR+) - BL1-4 (FSR-)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FRONT SEAT WIRE RH

OK

REPAIR OR REPLACE FLOOR WIRE

9 CHECK FRONT SEAT WIRE RH(SHORT)

- (a) Disconnect the front seat wire RH connector from the floor wire.

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

Standard:

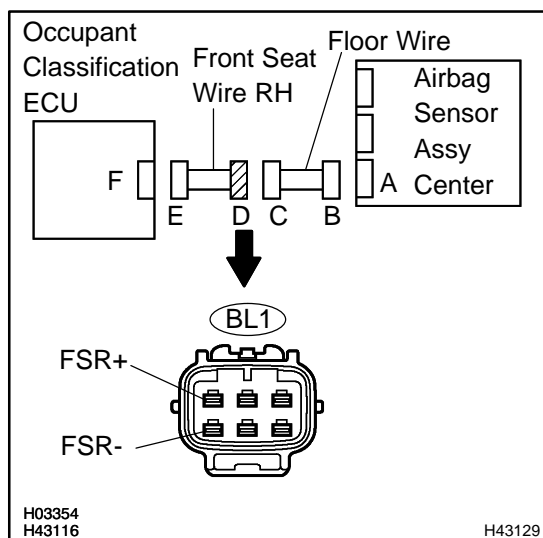
Tester connection	Condition	Specified condition
BL1-1 (FSR+) - BL1-4 (FSR-)	Always	1 M Ω or Higher

NG

REPAIR OR REPLACE FRONT SEAT WIRE RH

OK

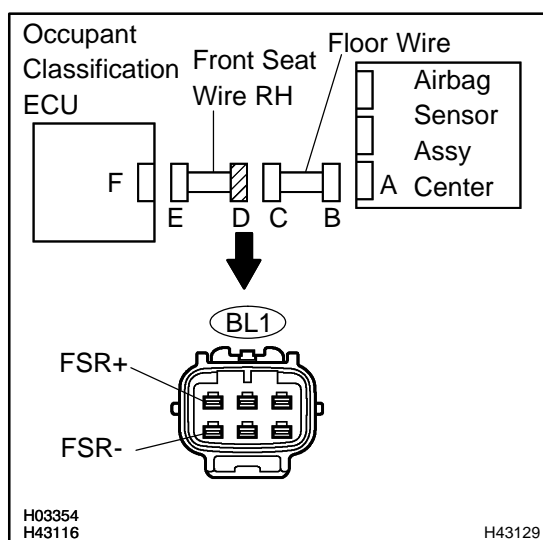
REPAIR OR REPLACE FLOOR WIRE

10 CHECK FRONT SEAT WIRE RH(TO B+)

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

Standard:

Tester connection	Condition	Specified condition
BL1-1 (FSR+) - Body ground	Ignition switch ON	Below 1 V
BL1-4 (FSR-) - Body ground	Ignition switch ON	Below 1 V

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK****REPAIR OR REPLACE FLOOR WIRE****11 CHECK FRONT SEAT WIRE RH(TO GROUND)**

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

Standard:

Tester connection	Condition	Specified condition
BL1-1 (FSR+) - Body ground	Always	1 MΩ or Higher
BL1-4 (FSR-) - Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK****REPAIR OR REPLACE FLOOR WIRE**