

DTC	B1150/23	OCCUPANT CLASSIFICATION SYSTEM MALFUNCTION
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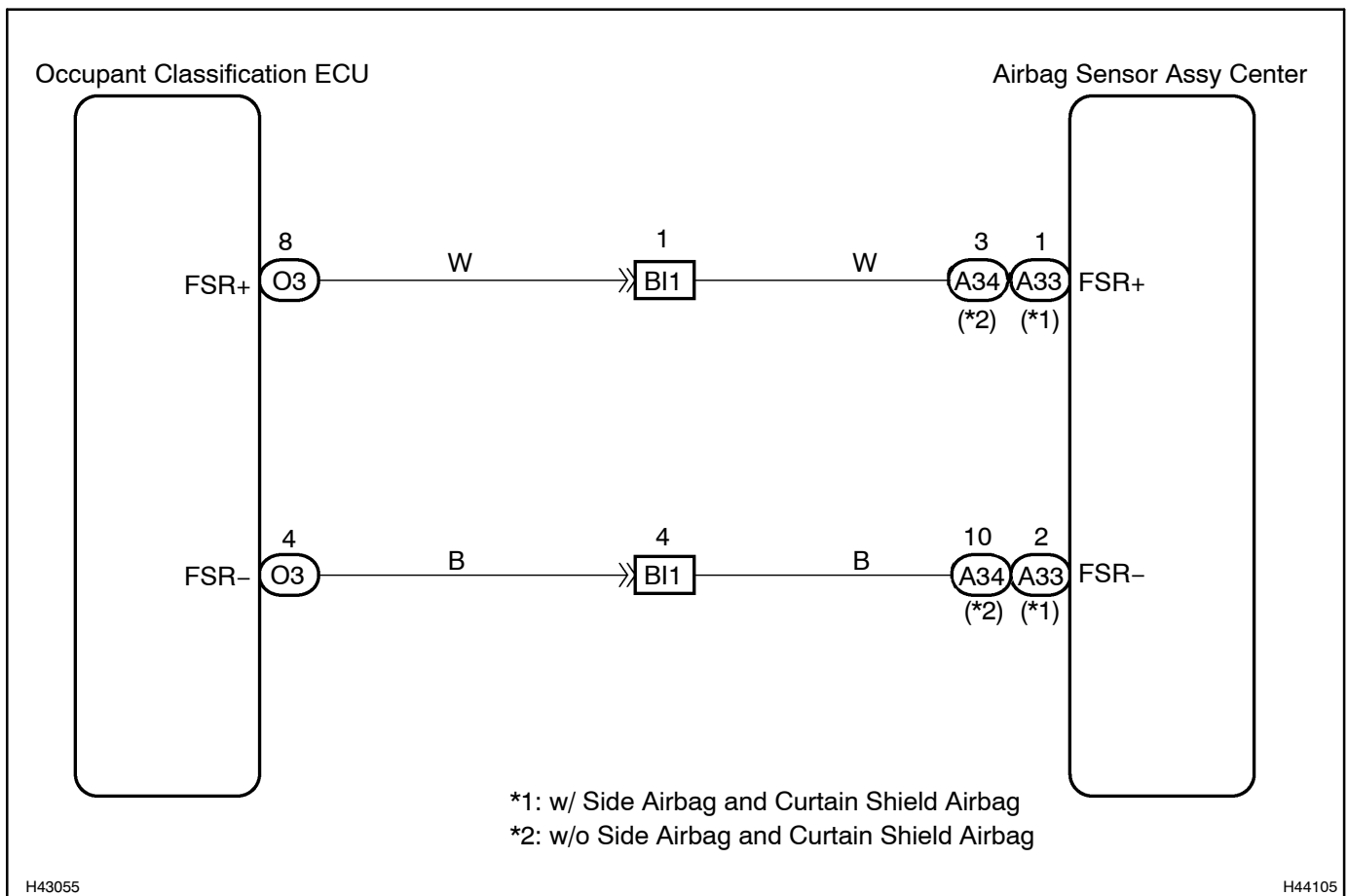
CIRCUIT DESCRIPTION

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	- The airbag sensor assy center receives a line short signal, open signal, short to ground signal or B+ short signal in the occupant classification system circuit for 2 seconds. - Occupant classification system malfunction - Airbag sensor assy center malfunction	- Occupant classification ECU - Airbag sensor assy center - Seat wire No.1 - Floor wire

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 05-1613).

OK:

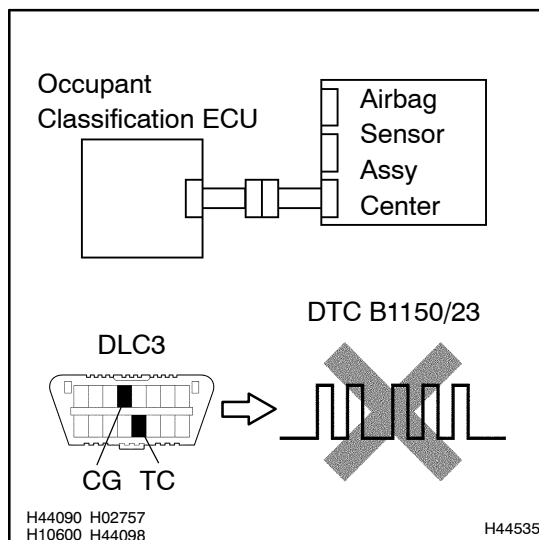
DTC is not output.

NG

GO TO INSPECTION PROCEDURE OF DTC OUTPUT (SEE PAGE 05-1626)

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 05-1613).
- 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 05-1613).

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:

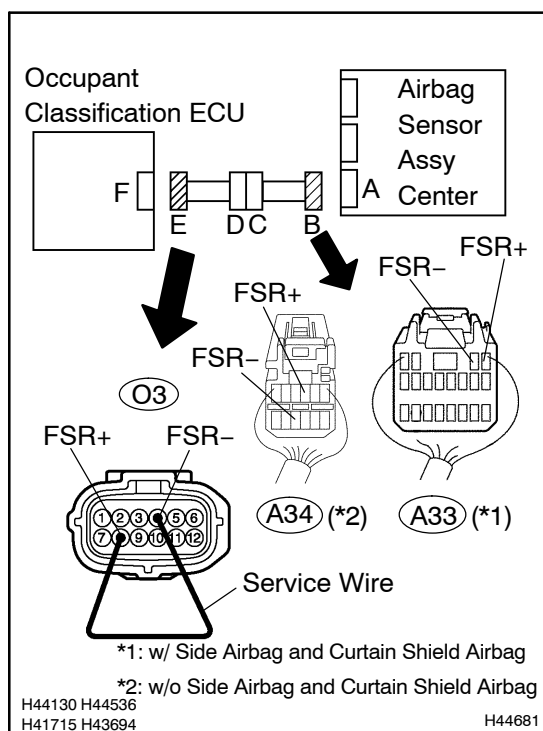
The connectors are connected.

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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 O3-8 (FSR+) and O3-4 (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 airbag and curtain shield airbag:

Tester connection	Condition	Specified condition
A33-1 (FSR+) - A33-2 (FSR-)	Always	Below 1 Ω

w/o Side airbag and curtain shield airbag:

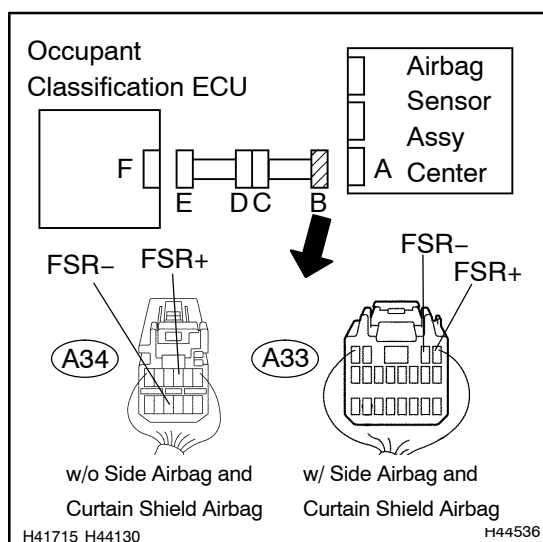
Tester connection	Condition	Specified condition
A34-3 (FSR+) - A34-10 (FSR-)	Always	Below 1 Ω

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 airbag and curtain shield airbag:

Tester connection	Condition	Specified condition
A33-1 (FSR+) - A33-2 (FSR-)	Always	1 M Ω or Higher

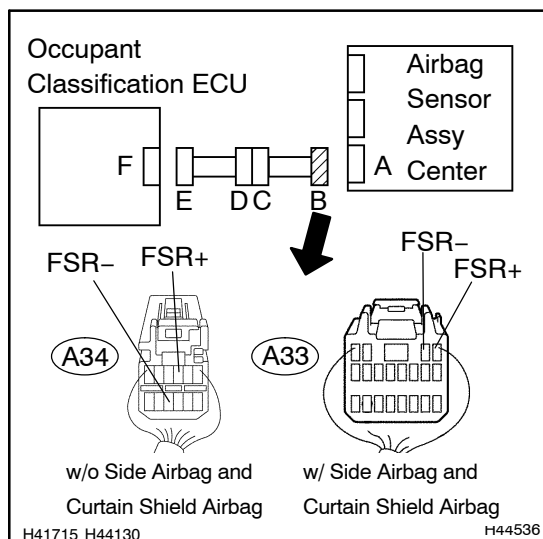
w/o Side airbag and curtain shield airbag:

Tester connection	Condition	Specified condition
A34-3 (FSR+) - A34-10 (FSR-)	Always	1 M Ω or Higher

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Go to step 9

OK

6 CHECK OCCUPANT CLASSIFICATION ECU CIRCUIT (TO B+)

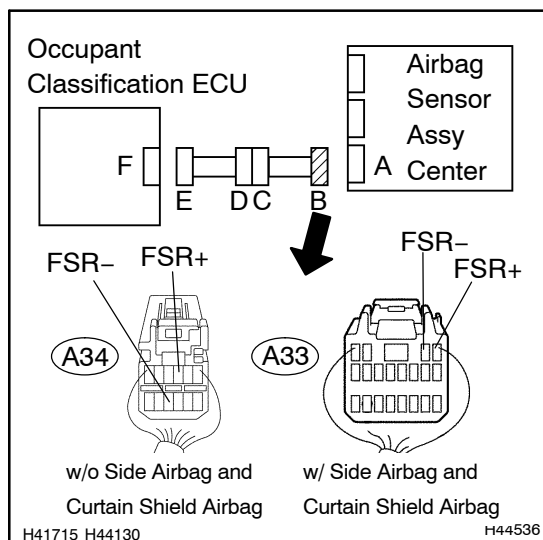
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- Measure the voltage according to the value(s) in the table below.

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

Tester connection	Condition	Specified condition
A33-1 (FSR+) - Body ground	Ignition switch ON	Below 1 V
A33-2 (FSR-) - Body ground	Ignition switch ON	Below 1 V

w/o Side airbag and curtain shield airbag:

Tester connection	Condition	Specified condition
A34-3 (FSR+) - Body ground	Ignition switch ON	Below 1 V
A34-10 (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 airbag and curtain shield airbag:**

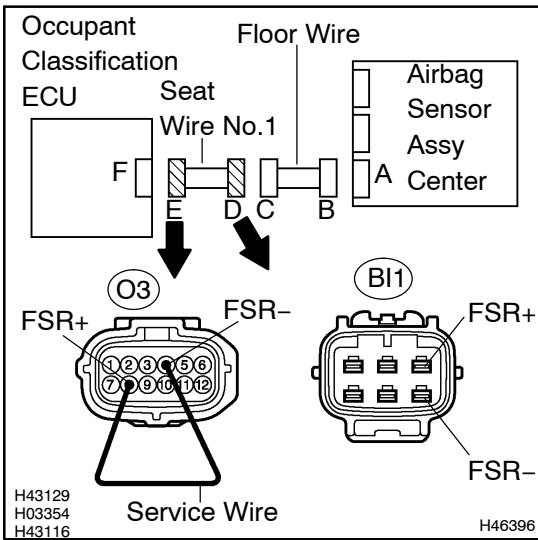
Tester connection	Condition	Specified condition
A33-1 (FSR+) - Body ground	Always	1 MΩ or Higher
A33-2 (FSR-) - Body ground	Always	1 MΩ or Higher

w/o Side airbag and curtain shield airbag:

Tester connection	Condition	Specified condition
A34-3 (FSR+) - Body ground	Always	1 MΩ or Higher
A34-10 (FSR-) - Body ground	Always	1 MΩ or Higher

NG**Go to step 11****OK****REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60-52)**

8 CHECK SEAT WIRE NO.1(OPEN)



- (a) Disconnect the seat wire No.1 connector from the floor wire.

HINT:

The service wire has already been inserted into connector "E".

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

Standard:

Tester connection	Condition	Specified condition
BI1-1 (FSR+) - BI1-4 (FSR-)	Always	Below 1 Ω

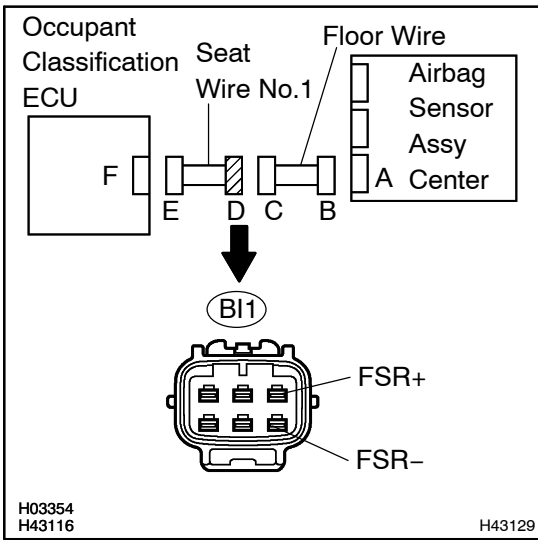
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REPLACE SEAT WIRE NO.1

OK

REPLACE FLOOR WIRE

9 CHECK SEAT WIRE NO.1(SHORT)



- (a) Disconnect the seat wire No.1 connector from the floor wire.

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

Standard:

Tester connection	Condition	Specified condition
BI1-1 (FSR+) - BI1-4 (FSR-)	Always	1 M Ω or Higher

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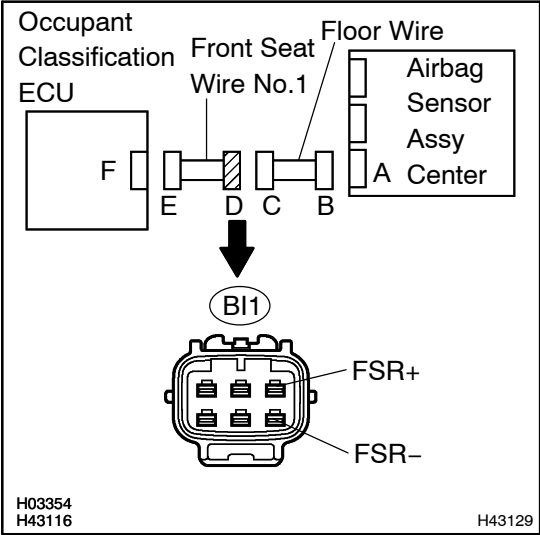
REPLACE SEAT WIRE NO.1

OK

REPLACE FLOOR WIRE

10

CHECK SEAT WIRE NO.1(TO B+)



- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from battery, and wait for at least 90 seconds.
- (c) Disconnect the seat wire No.1 connector from the floor wire.
- (d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Turn the ignition switch to the ON position.
- (f) Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
BI1-1 (FSR+) - Body ground	Ignition switch ON	Below 1 V
BI1-4 (FSR-) - Body ground	Ignition switch ON	Below 1 V

NG

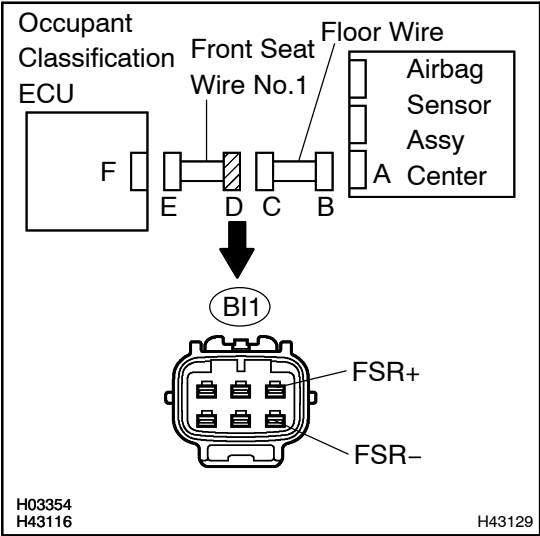
REPLACE SEAT WIRE NO.1

OK

REPLACE FLOOR WIRE

11

CHECK SEAT WIRE NO.1(TO GROUND)



- (a) Disconnect the seat wire No.1 connector from the floor wire.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
BI1-1 (FSR+) - Body ground	Always	1 MΩ or Higher
BI1-4 (FSR-) - Body ground	Always	1 MΩ or Higher

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REPLACE SEAT WIRE NO.1

OK

REPLACE FLOOR WIRE