

DTC	B1650/32	OCCUPANT CLASSIFICATION SYSTEM MALFUNCTION
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CIRCUIT DESCRIPTION

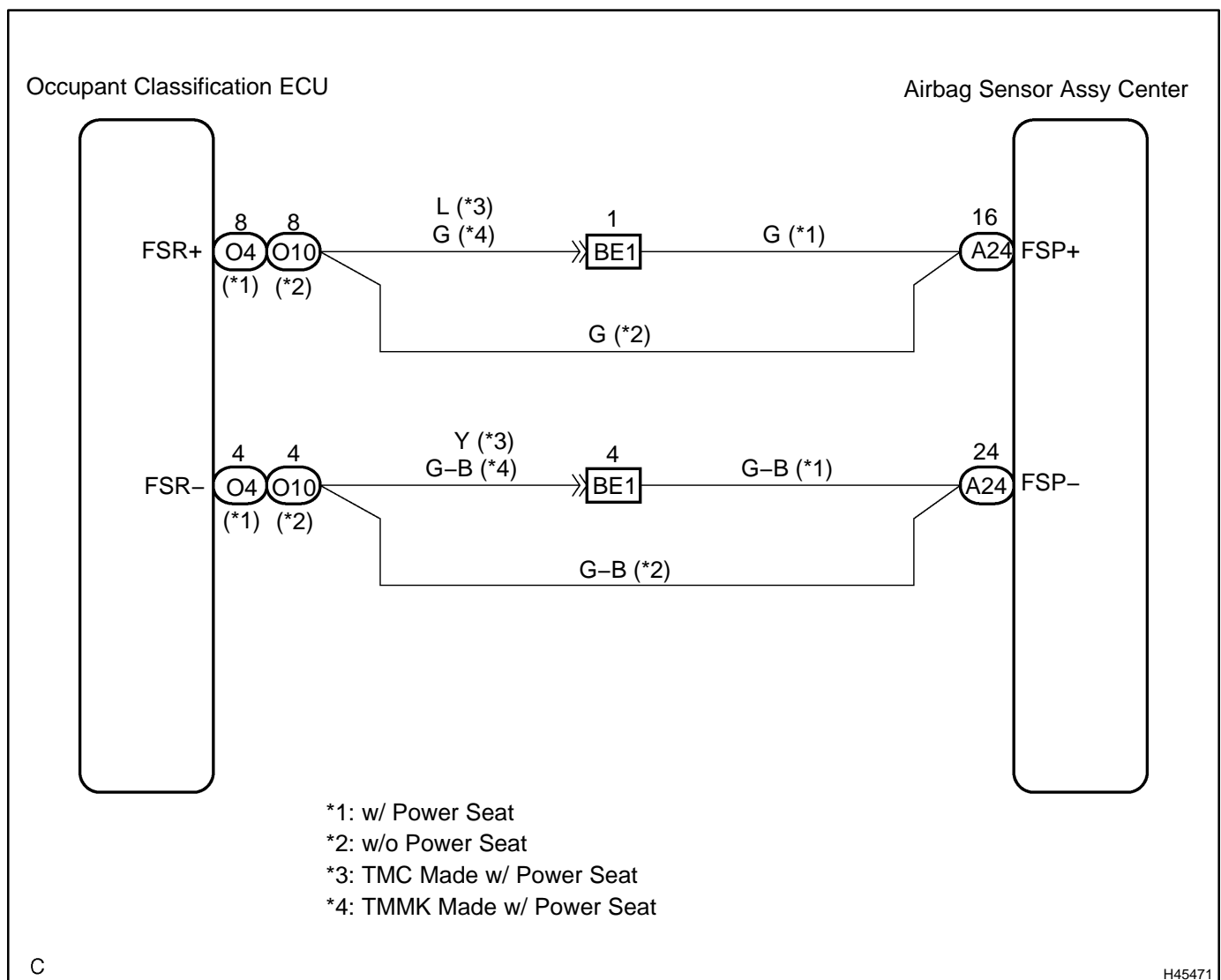
The occupant classification system circuit consists of the airbag sensor assy center and the occupant classification system.

If the airbag sensor assy center receives signals from the occupant classification ECU, it determines whether or not the front passenger airbag assy and the front seat airbag assy RH 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	<ul style="list-style-type: none"> The airbag sensor assy center 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 Airbag sensor assy center malfunction 	<ul style="list-style-type: none"> Occupant classification system Airbag sensor assy center Floor wire No.2 Front seat wire RH (w/ Power seat)

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 05-1464).

OK:

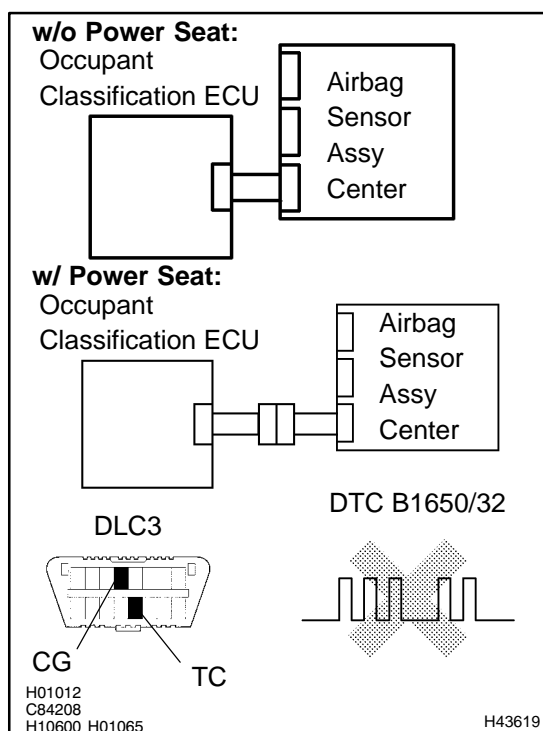
DTC is not output.

NG

GO TO INSPECTION PROCEDURE OF DTC OUTPUT (SEE PAGE 05-1478)

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 05-1464).
- 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 05-1464).

OK:

DTC B1650/32 is not output.

HINT:

Codes other than code B1650/32 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 (SEE PAGE 05-1456)

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 airbag sensor assy center and the occupant classification ECU.

OK:**The connectors are connected.****NG****CONNECT CONNECTORS, THEN GO TO STEP 1****OK****4 PREPARE FOR INSPECTION****CAUTION:**

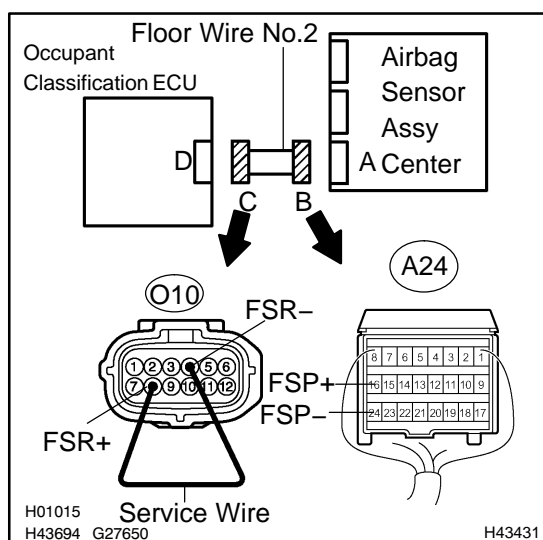
Be sure to perform the following procedures before troubleshooting to avoid unexpected airbag deployment.

- (a) Disconnect the connectors from the airbag sensor assy center.
- (b) Disconnect the connectors from the horn button assy.
- (c) Disconnect the connectors from the front passenger airbag assy.
- (d) w/ Side airbag:
Disconnect the connector from the front seat airbag assy LH.
- (e) w/ Side airbag:
Disconnect the connector from the front seat airbag assy RH.
- (f) w/ Curtain shield airbag:
Disconnect the connector from the curtain shield airbag assy LH.
- (g) w/ Curtain shield airbag:
Disconnect the connector from the curtain shield airbag assy RH.
- (h) Disconnect the connector from the front seat outer belt assy LH.
- (i) Disconnect the connector from the front seat outer belt assy RH.

NEXT**5 CHECK VEHICLE CONDITION**

- (a) Check the passenger seat type.

Result:**A: w/o Power seat****B: w/ Power seat****B****Go to step 10****A**

6 CHECK FLOOR WIRE NO.2 (OPEN)

- Disconnect the connectors from the occupant classification ECU.
- Using a service wire, connect O10-8 (FSR+) and O10-4 (FSR-) of connector "C".

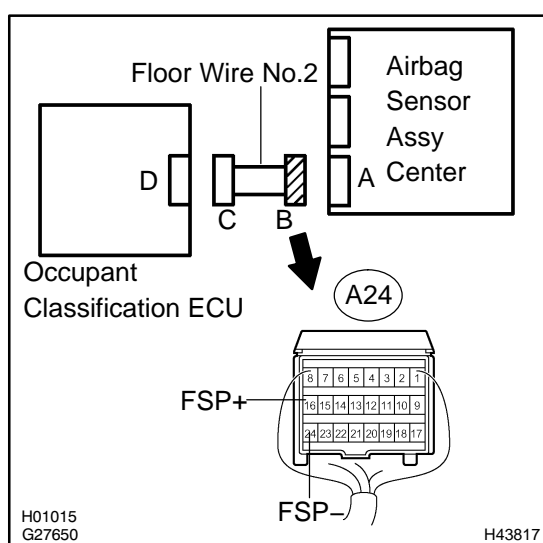
NOTICE:

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:

Terminal connection	Condition	Specified condition
A24-16 (FSP+) – A24-24 (FSP-)	Always	Below 1 Ω

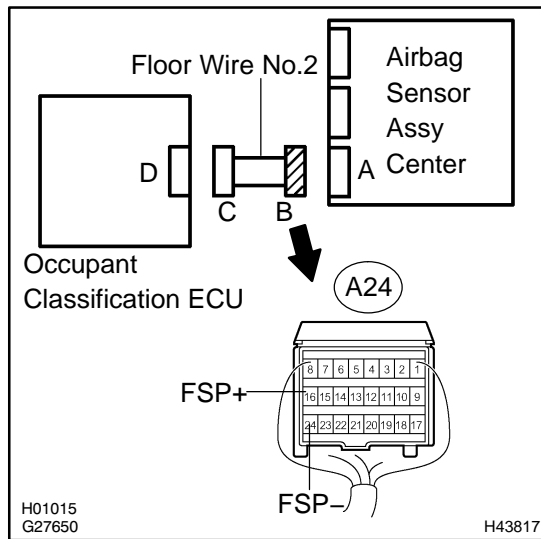
NG**REPAIR OR REPLACE FLOOR WIRE NO.2****OK****7 CHECK FLOOR WIRE NO.2 (SHORT)**

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

Standard:

Terminal connection	Condition	Specified condition
A24-16 (FSP+) – A24-24 (FSP-)	Always	1 M Ω or Higher

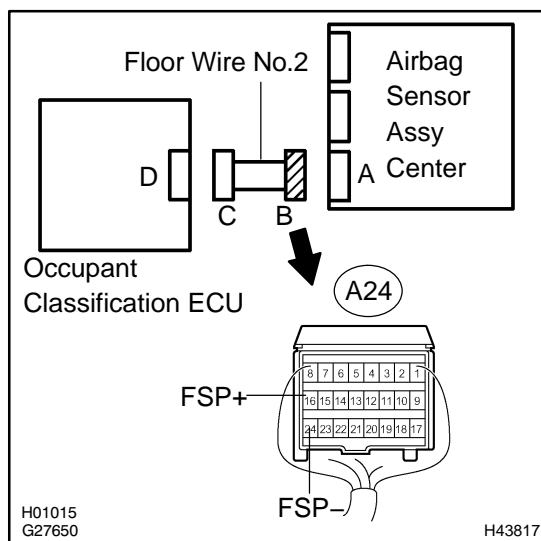
NG**REPAIR OR REPLACE FLOOR WIRE NO.2****OK**

8 CHECK FLOOR WIRE NO.2 (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:

Tester connection	Condition	Specified condition
A24-16 (FSP+) - Body ground	Ignition switch ON	Below 1 V
A24-24 (FSP-) - Body ground	Ignition switch ON	Below 1 V

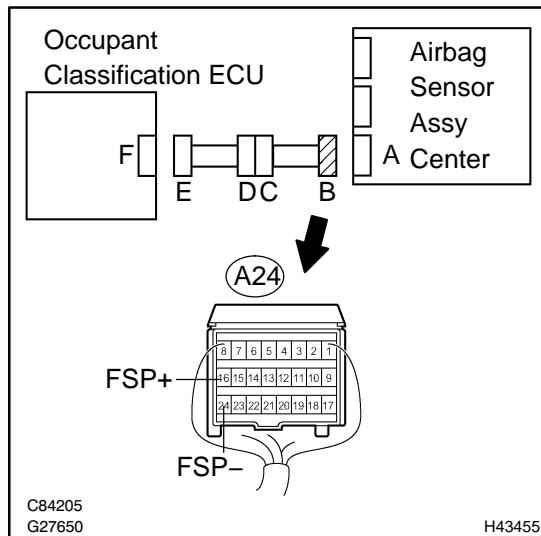
NG**REPAIR OR REPLACE FLOOR WIRE NO.2****OK****9 CHECK FLOOR WIRE NO.2 (TO GROUND)**

- 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:

Tester connection	Condition	Specified condition
A24-16 (FSP+) - Body ground	Always	1 MΩ or Higher
A24-24 (FSP-) - Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE FLOOR WIRE NO.2****OK****REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60-59)**

12 CHECK OCCUPANT CLASSIFICATION ECU CIRCUIT (TO B+)

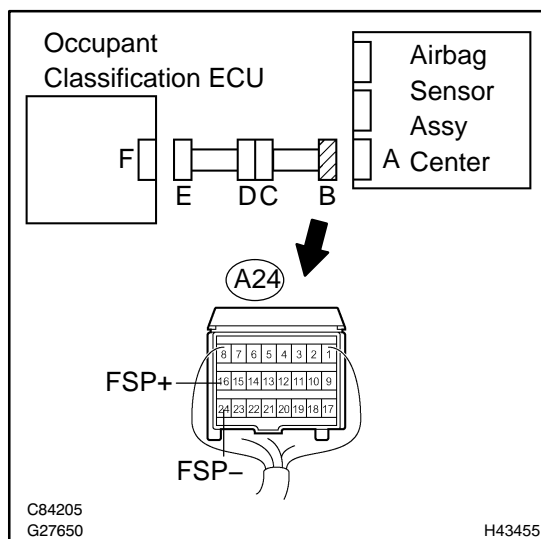
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A24–16 (FSP+) – Body ground	Ignition switch ON	Below 1 V
A24–24 (FSP–) – Body ground	Ignition switch ON	Below 1 V

NG Go to step 16

OK

13 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.

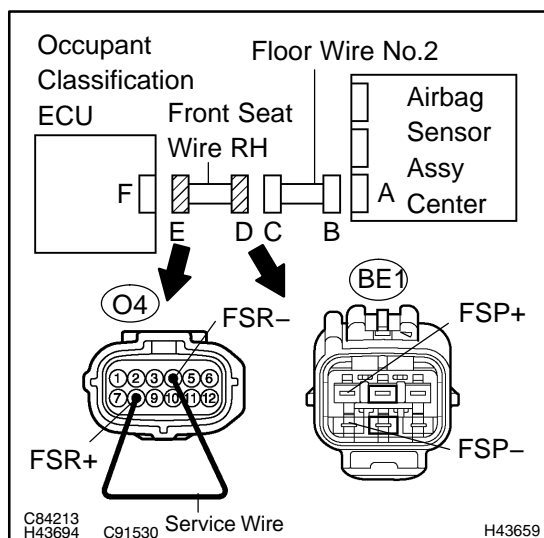
Standard:

Tester connection	Condition	Specified condition
A24–16 (FSP+) – Body ground	Always	1 MΩ or Higher
A24–24 (FSP–) – Body ground	Always	1 MΩ or Higher

NG Go to step 17

OK

REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60-59)

14 CHECK FRONT SEAT WIRE RH (OPEN)

- (a) Disconnect the front seat wire RH connector from the floor wire No.2.

HINT:

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

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

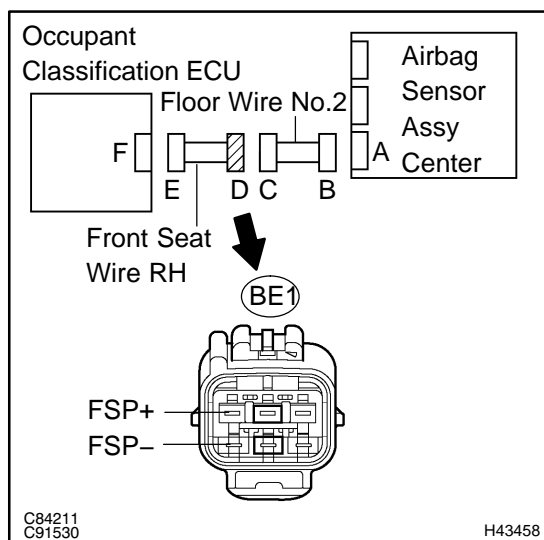
Standard:

Tester connection	Condition	Specified condition
BE1-1 (FSP+) – BE1-4 (FSP-)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FRONT SEAT WIRE RH

OK

REPAIR OR REPLACE FLOOR WIRE NO.2**15 CHECK FRONT SEAT WIRE RH (SHORT)**

- (a) Disconnect the front seat wire RH connector from the floor wire No.2.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

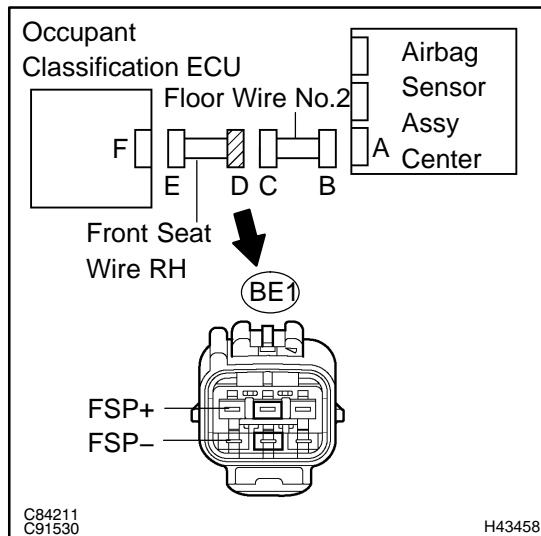
Tester connection	Condition	Specified condition
BE1-1 (FSP+) – BE1-4 (FSP-)	Always	1 M Ω or Higher

NG

REPAIR OR REPLACE FRONT SEAT WIRE RH

OK

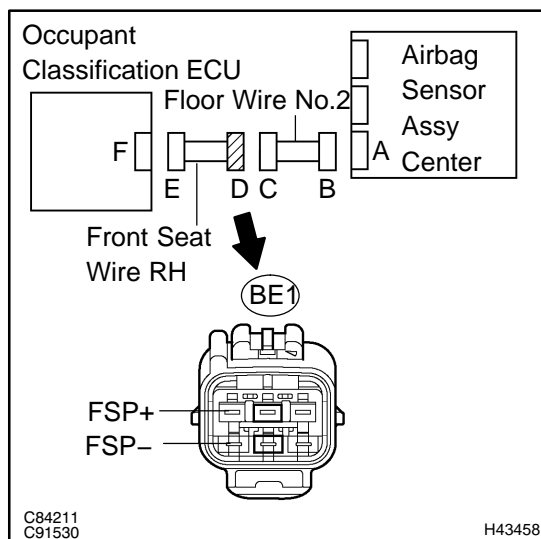
REPAIR OR REPLACE FLOOR WIRE NO.2

16 CHECK FRONT SEAT WIRE RH (TO B+)

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the front seat wire RH connector from the floor wire No.2.
- 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
BE1-1 (FSP+) - Body ground	Ignition switch ON	Below 1 V
BE1-4 (FSP-) - Body ground	Ignition switch ON	Below 1 V

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK****REPAIR OR REPLACE FLOOR WIRE NO.2****17 CHECK FRONT SEAT WIRE RH (TO GROUND)**

- Disconnect the front seat wire RH connector from the floor wire No.2.
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
BE1-1 (FSP+) - Body ground	Always	1 MΩ or Higher
BE1-4 (FSP-) - Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK****REPAIR OR REPLACE FLOOR WIRE NO.2**