

DTC	B1153/25	SEAT POSITION AIRBAG SENSOR CIRCUIT MALFUNCTION
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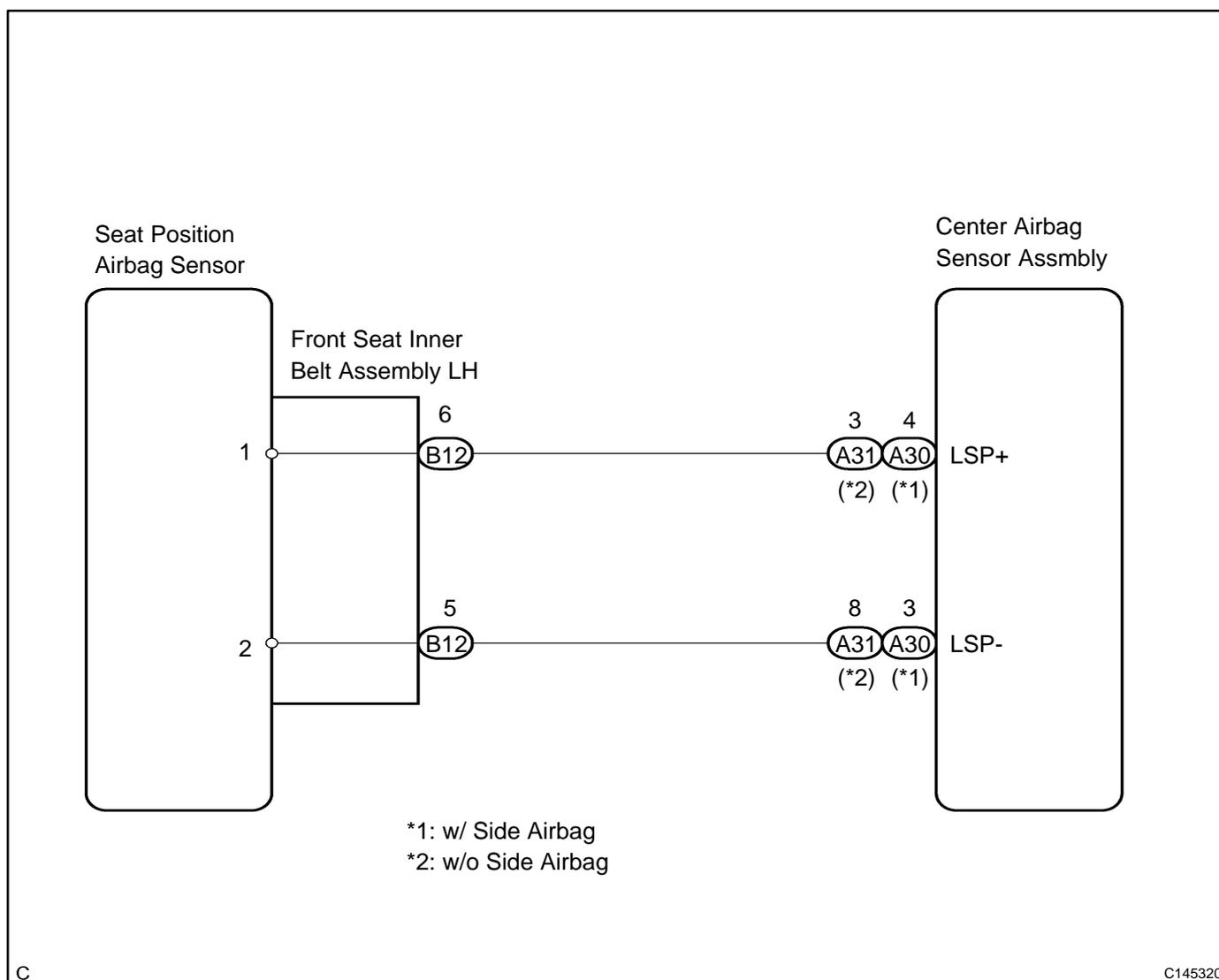
CIRCUIT DESCRIPTION

The seat position airbag sensor circuit consists of the center airbag sensor assembly and the seat position airbag sensor.

DTC B1153/25 is recorded when a malfunction is detected in the seat position airbag sensor circuit.

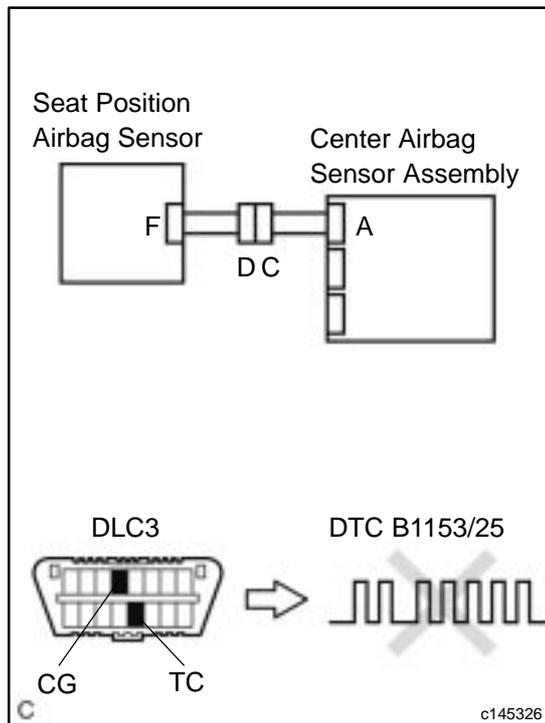
DTC No.	DTC Detecting Condition	Trouble Area
B1153/25	When one of the following conditions is met: <ul style="list-style-type: none"> • The center airbag sensor assembly detects a line short signal, open signal, short to ground signal, or short to B+ signal in the seat position airbag sensor circuit • Seat position airbag sensor malfunction • Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> • Seat position airbag sensor • Center airbag sensor assembly • Front seat inner belt assembly LH • Floor wire No.2

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK DTC



- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page 05-614).
- 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 05-614).

OK:

DTC B1153/25 is not output.

HINT:

Codes other than code B1153/25 may be output at this time, but they are not related to this check.

NG →

GO TO STEP 2

OK

USE SIMULATION METHOD TO CHECK

2 CHECK 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 center airbag sensor assembly, seat position airbag sensor and front seat inner belt assembly LH.

OK:

The connectors are properly connected.

HINT:

If the connectors are not connected securely, reconnect the connectors and proceed to the next inspection.

- Disconnect the connectors from the center airbag sensor assembly, seat position airbag sensor and front seat inner belt assembly LH.
- Check that the terminals of the connectors are not damaged.

OK:

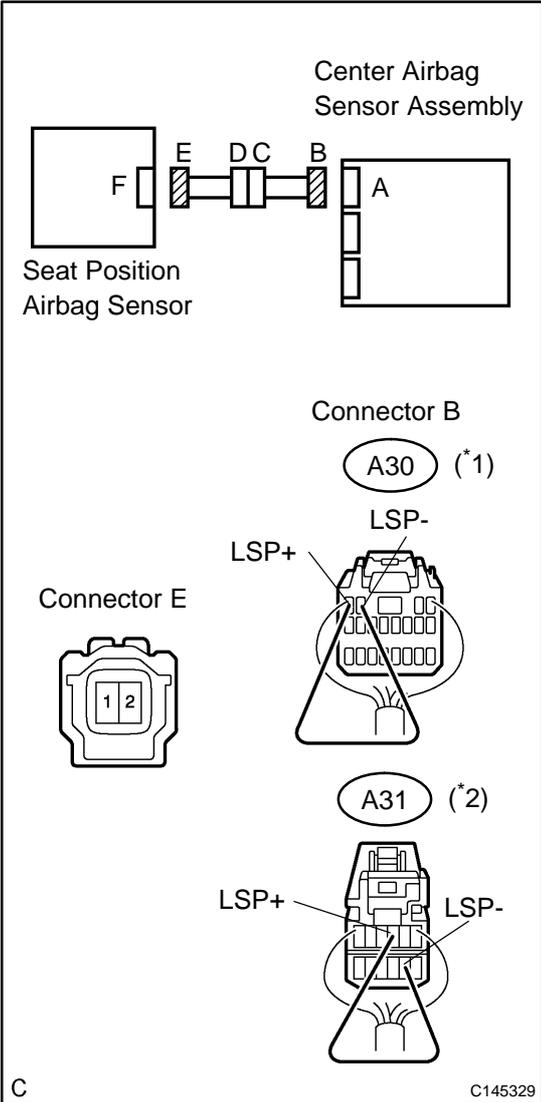
The terminals are not deformed or damaged.

NG →

REPLACE WIRE HARNESS OR CONNECTORS

OK

3 CHECK SEAT POSITION AIRBAG SENSOR CIRCUIT (OPEN)



(a) Using a service wire, connect the terminals LSP+ and LSP- of connector B.

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

(b) Measure the resistance between the terminals of connector E according to the value(s) in the table below.

Standard resistance:

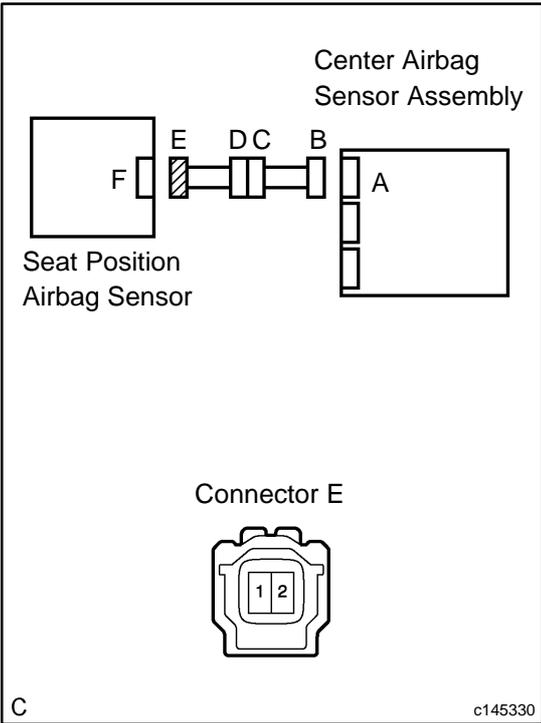
Tester connection	Condition	Specified condition
1 - 2	Always	Below 1 Ω

HINT:
*1: w/ Side Airbag
*2: w/o Side Airbag

NG → **GO TO STEP 10**

OK

4 CHECK SEAT POSITION AIRBAG SENSOR CIRCUIT (SHORT TO GROUND)



- (a) Disconnect the service wire from connector B.
- (b) Measure the resistance according to the value(s) in the table below.

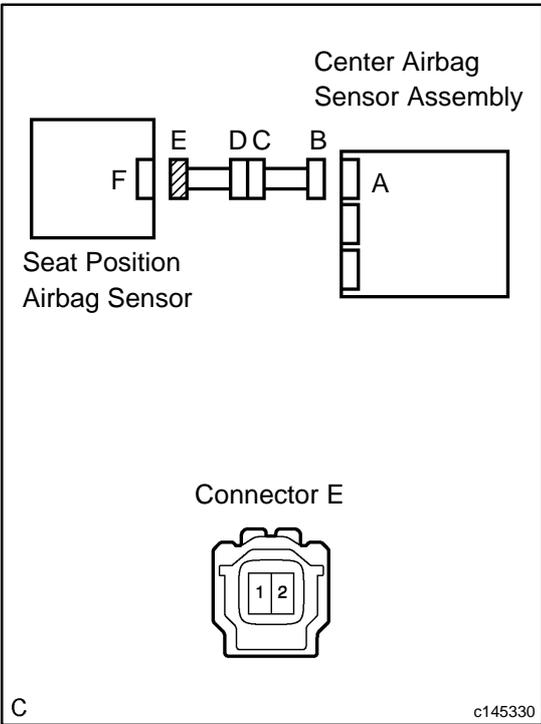
Standard resistance:

Tester connection	Condition	Specified condition
1 - Body ground	Always	1 MΩ or higher
2 - Body ground	Always	1 MΩ or higher

NG → GO TO STEP 11

OK

5 CHECK SEAT POSITION AIRBAG SENSOR CIRCUIT (SHORT)



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

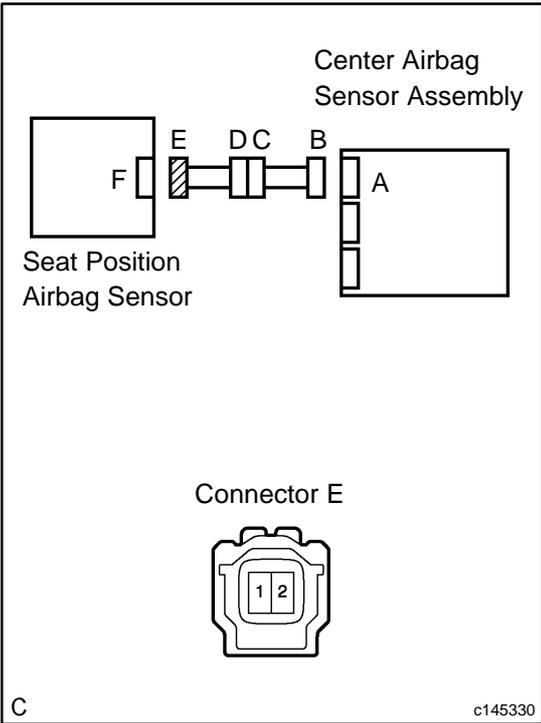
Standard resistance:

Tester connection	Condition	Specified condition
1 - 2	Always	1 MΩ or higher

NG → GO TO STEP 12

OK

6 CHECK SEAT POSITION AIRBAG SENSOR 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
1 - Body ground	Ignition switch ON	Below 1 V
2 - Body ground	Ignition switch ON	Below 1 V

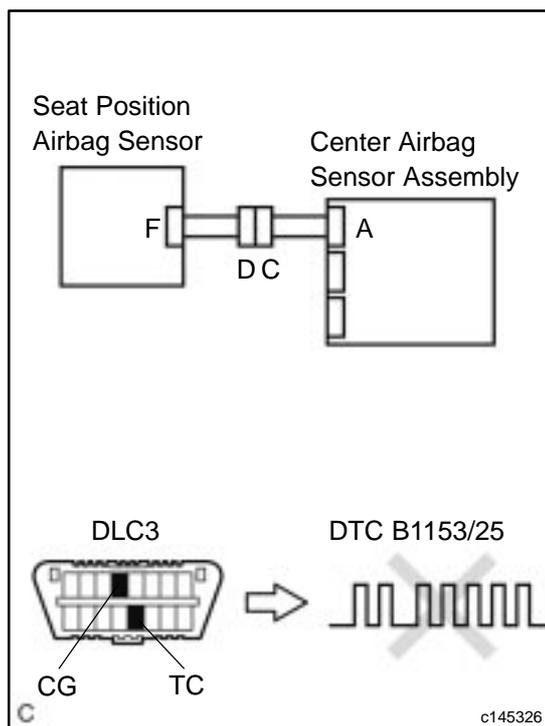
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NG → **GO TO STEP 13**

OK

7 CHECK SEAT POSITION AIRBAG SENSOR



- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Connect the connectors to the seat position airbag sensor and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page 05-614).
- 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 05-614).

OK:

DTC B1153/25 is not output.

HINT:

Codes other than code B1153/25 may be output at this time, but they are not related to this check.

NG →

GO TO STEP 8

OK

USE SIMULATION METHOD TO CHECK

8 REPLACE SEAT POSITION AIRBAG SENSOR

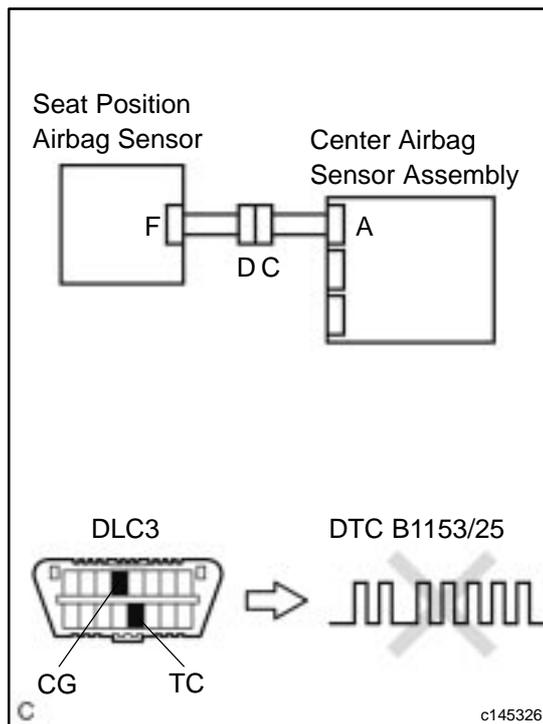
- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Replace the seat position airbag sensor (See page 60-56).

HINT:

Perform the inspection using parts from a normal vehicle if possible.

NEXT

9 CHECK CENTER AIRBAG SENSOR ASSEMBLY



- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (See page 05-614).
- 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 05-614).

OK:

DTC B1153/25 is not output.

HINT:

Codes other than code B1153/25 may be output at this time, but they are not related to this check.

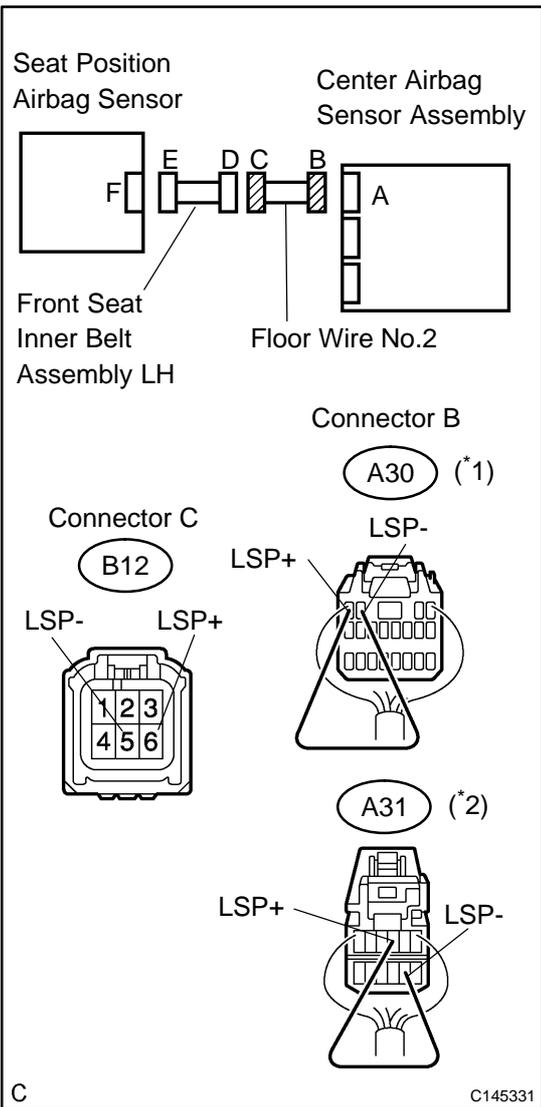
NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (SEE PAGE 60-47)

OK

END

10 CHECK FLOOR WIRE NO.2 (OPEN)



(a) Disconnect the front seat inner belt assembly LH connector from the floor wire No.2 connector.

HINT:
The service wire has already been inserted into connector B.
(b) Measure the resistance of connector C according to the value(s) in the table below.

Standard resistance:

Tester connection	Condition	Specified condition
B12-6 (LSP+) - B12-5 (LSP-)	Always	Below 1 Ω

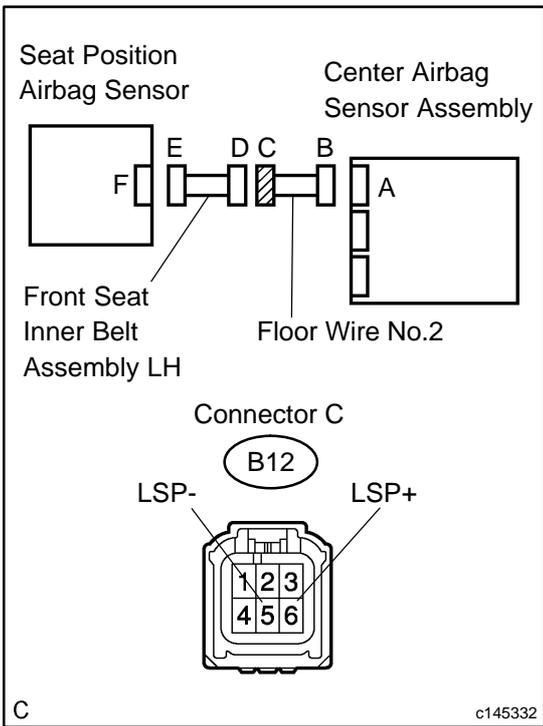
HINT:
*1: w/ Side Airbag
*2: w/o Side Airbag

NG → **REPLACE FLOOR WIRE NO.2**

OK

REPLACE FRONT SEAT INNER BELT ASSEMBLY LH

11 CHECK FLOOR WIRE NO.2 (SHORT TO GROUND)



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

Standard resistance:

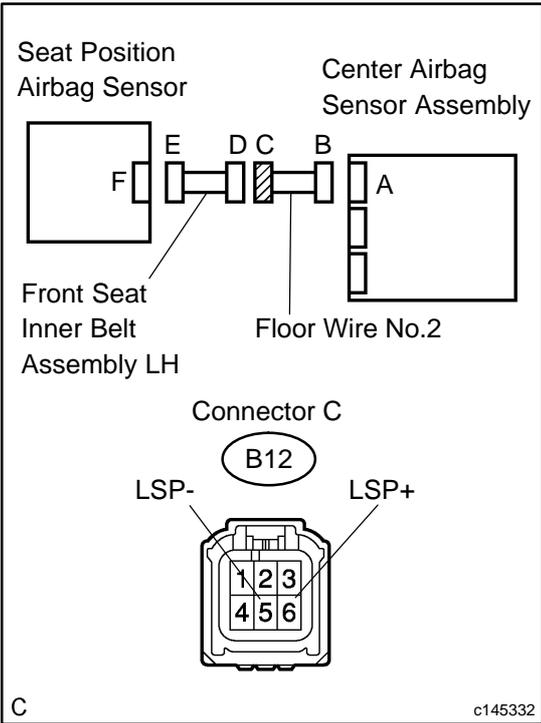
Tester connection	Condition	Specified condition
B12-6 (LSP+) - Body ground	Always	1 MΩ or higher
B12-5 (LSP-) - Body ground	Always	1 MΩ or higher

NG → **REPLACE FLOOR WIRE NO.2**

OK

REPLACE FRONT SEAT INNER BELT ASSEMBLY LH

12 CHECK FLOOR WIRE NO.2 (SHORT)



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

Standard resistance:

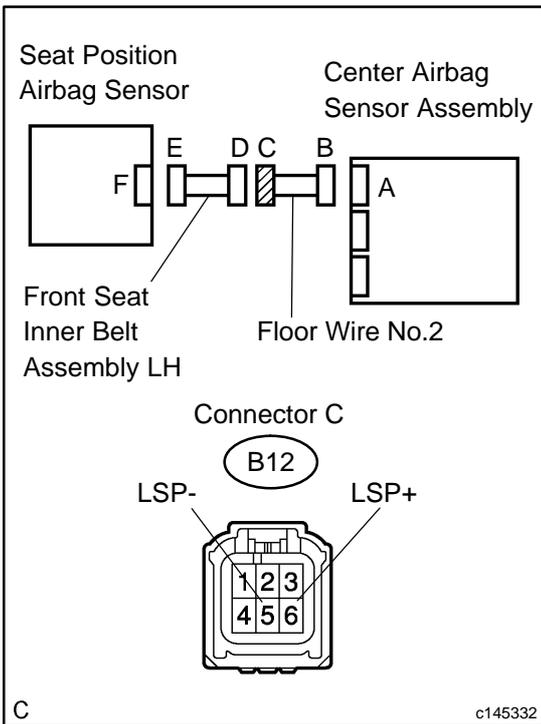
Tester connection	Condition	Specified condition
B12-6 (LSP+) - B12-5 (LSP-)	Always	1 MΩ or higher

NG → **REPLACE FLOOR WIRE NO.2**

OK

REPLACE FRONT SEAT INNER BELT ASSEMBLY LH

13 CHECK FLOOR WIRE NO.2 (SHORT TO B+)



- (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) Disconnect the front seat inner belt assembly LH connector from the floor wire No.2 connector.
- (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 voltage:

Tester connection	Condition	Specified condition
B12-6 (LSP+) - Body ground	Ignition switch ON	Below 1 V
B12-5 (LSP-) - Body ground	Ignition switch ON	Below 1 V

C

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NG → **REPLACE FLOOR WIRE NO.2**

OK

REPLACE FRONT SEAT INNER BELT ASSEMBLY LH