

DTC	B1141/33	Side Airbag Sensor Assembly LH Circuit Malfunction
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DESCRIPTION

The side airbag sensor LH circuit consists of the safing sensor, the diagnostic circuit and the lateral deceleration sensor, etc.

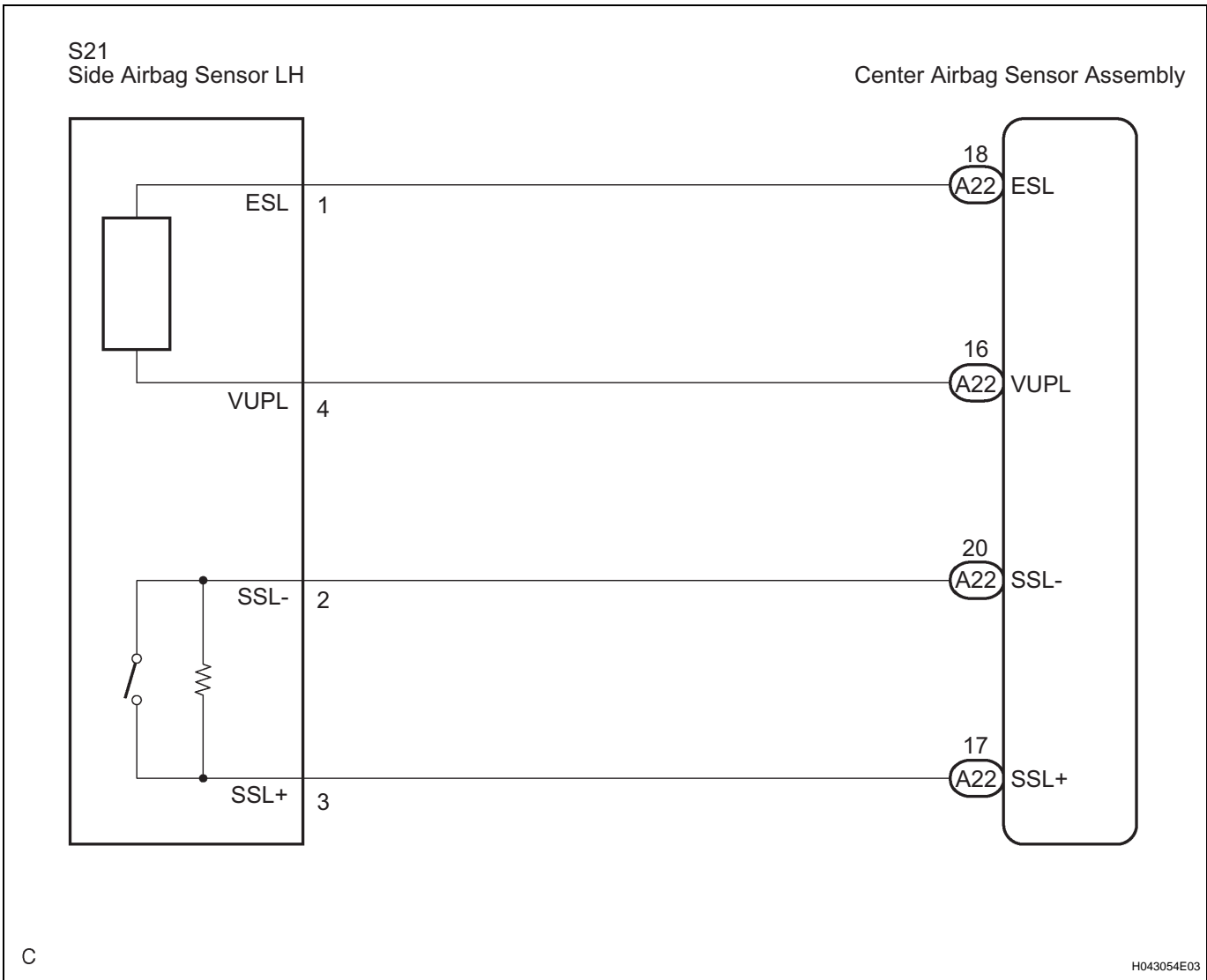
If the center airbag sensor assembly receives signals from the lateral deceleration sensor, it judges whether or not the SRS should be activated.

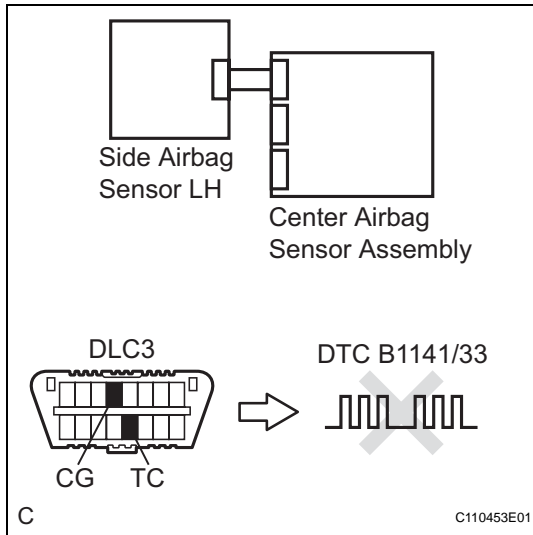
DTC B1141/33 is recorded when a malfunction in the side airbag sensor LH circuit is detected.

DTC No.	DTC Detecting Condition	Trouble Area
B1141/33	<ul style="list-style-type: none"> • Open circuit in side airbag sensor LH circuit • Short circuit in side airbag sensor LH circuit (to B+) • Short circuit in side airbag sensor LH circuit (to ground) • Side airbag sensor LH malfunction • Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> • Side airbag sensor LH • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM



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 RS-32).
- 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 RS-32).

OK:

DTC B1141/33 is not output.

HINT:

Codes other than code B1141/33 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 CONNECTION OF CONNECTORS**

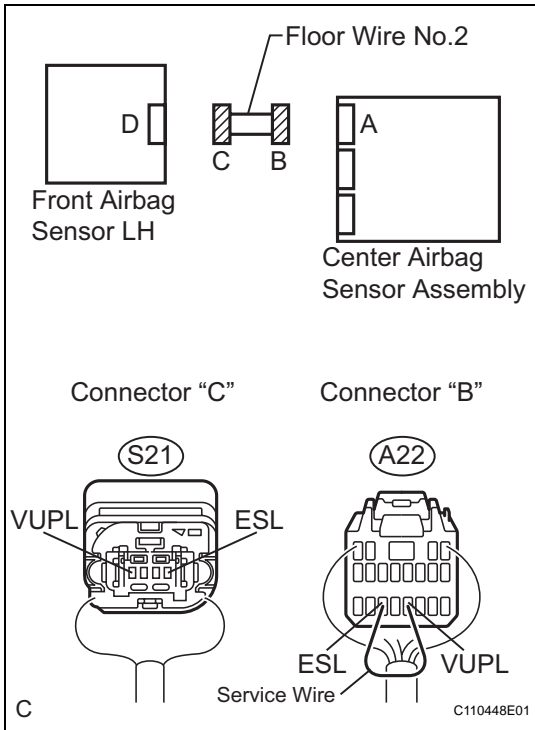
- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Check that the connectors are properly connected to the center airbag sensor assembly and the side airbag sensor LH.

OK:

The connectors are connected.

NG**CONNECT CONNECTORS, THEN GO TO STEP 1****OK****RS**

3 CHECK FLOOR WIRE NO.2 (OPEN)



(a) Disconnect the connectors from the center airbag sensor assembly and the side airbag sensor LH.

(b) Using a service wire, connect A22-16 (VUPL) and A22-18 (ESL) of connector "B".

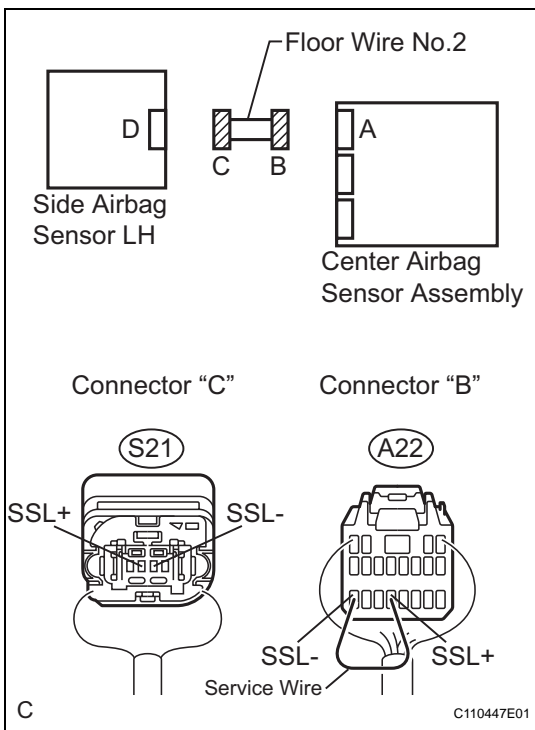
HINT:

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.

Resistance

Tester connection	Condition	Specified condition
S21-4 (VUPL) - S21-1 (ESL)	Always	Below 1 Ω



(d) Using a service wire, connect A22-17 (SSL+) and A22-20 (SSL-) of connector "B".

HINT:

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

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

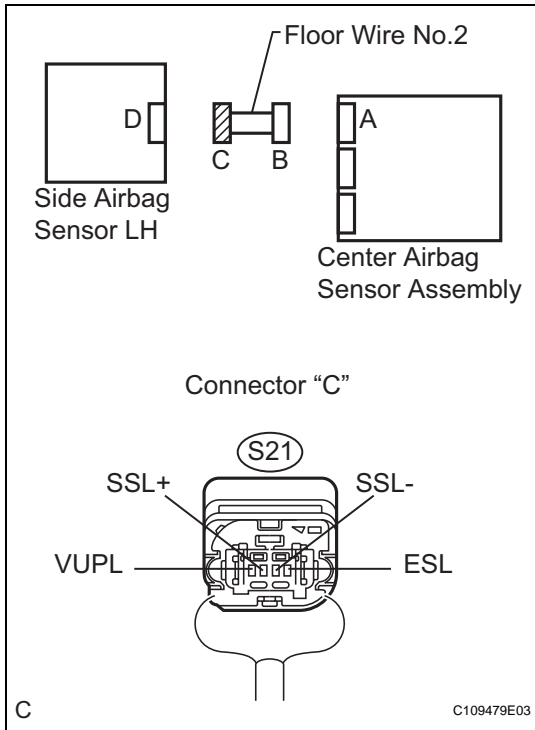
Resistance

Tester connection	Condition	Specified condition
S21-3 (SSL+) - S21-2 (SSL-)	Always	Below 1 Ω

NG REPAIR OR REPLACE FLOOR WIRE NO.2

OK

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



- (a) Disconnect the service wire from connector "B".
- (b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the ignition switch to the ON position.
- (d) Measure the voltage according to the value(s) in the table below.

Voltage

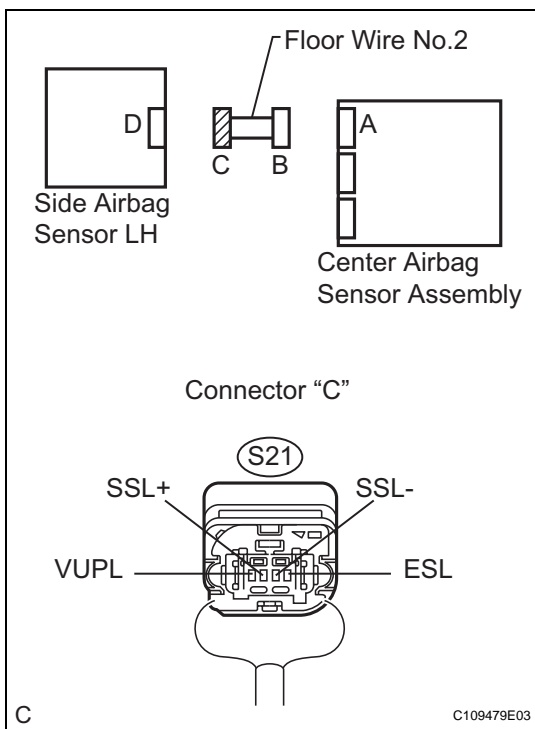
Tester connection	Condition	Specified condition
S21-4 (VUPL) - Body ground	Always	Below 1 V
S21-1 (ESL) - Body ground	Always	Below 1 V
S21-3 (SSL+) - Body ground	Always	Below 1 V
S21-2 (SSL-) - Body ground	Always	Below 1 V

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

OK

5 CHECK FLOOR WIRE NO.2 (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.

Resistance

Tester connection	Condition	Specified condition
S21-4 (VUPL) - Body ground	Always	1 MΩ or higher
S21-1 (ESL) - Body ground	Always	1 MΩ or higher
S21-3 (SSL+) - Body ground	Always	1 MΩ or higher
S21-2 (SSL-) - Body ground	Always	1 MΩ or higher

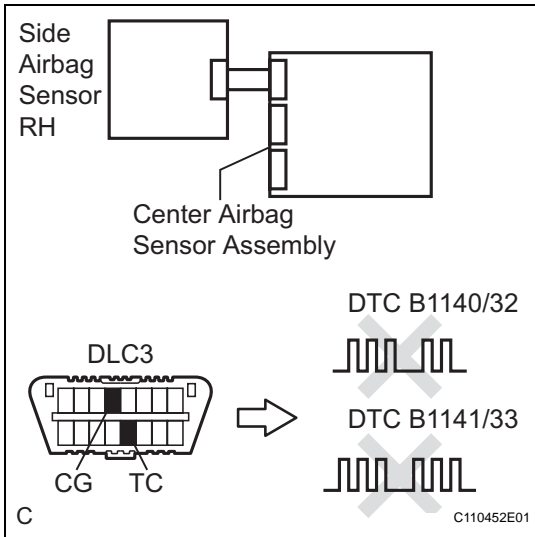
NG

REPAIR OR REPLACE FLOOR WIRE NO.2

OK

RS

6 CHECK SIDE AIRBAG SENSOR LH



- (a) Connect the connector to the center airbag sensor assembly.
- (b) Interchange the side airbag sensor RH with LH and connect the connectors to them.
- (c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (e) Clear the DTCs stored in memory (See page RS-32).
- (f) Turn the ignition switch to the LOCK position.
- (g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (h) Check the DTCs (See page RS-32).

Result

Proceed To	Display (DTC Output)
NG: A	DTC B1140/32 is output.
NG: B	DTC B1141/33 is output.
OK	DTC B1140/32 and B1141/33 are not output.

NG:A → **REPLACE SIDE AIRBAG SENSOR LH**

NG:B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

RS