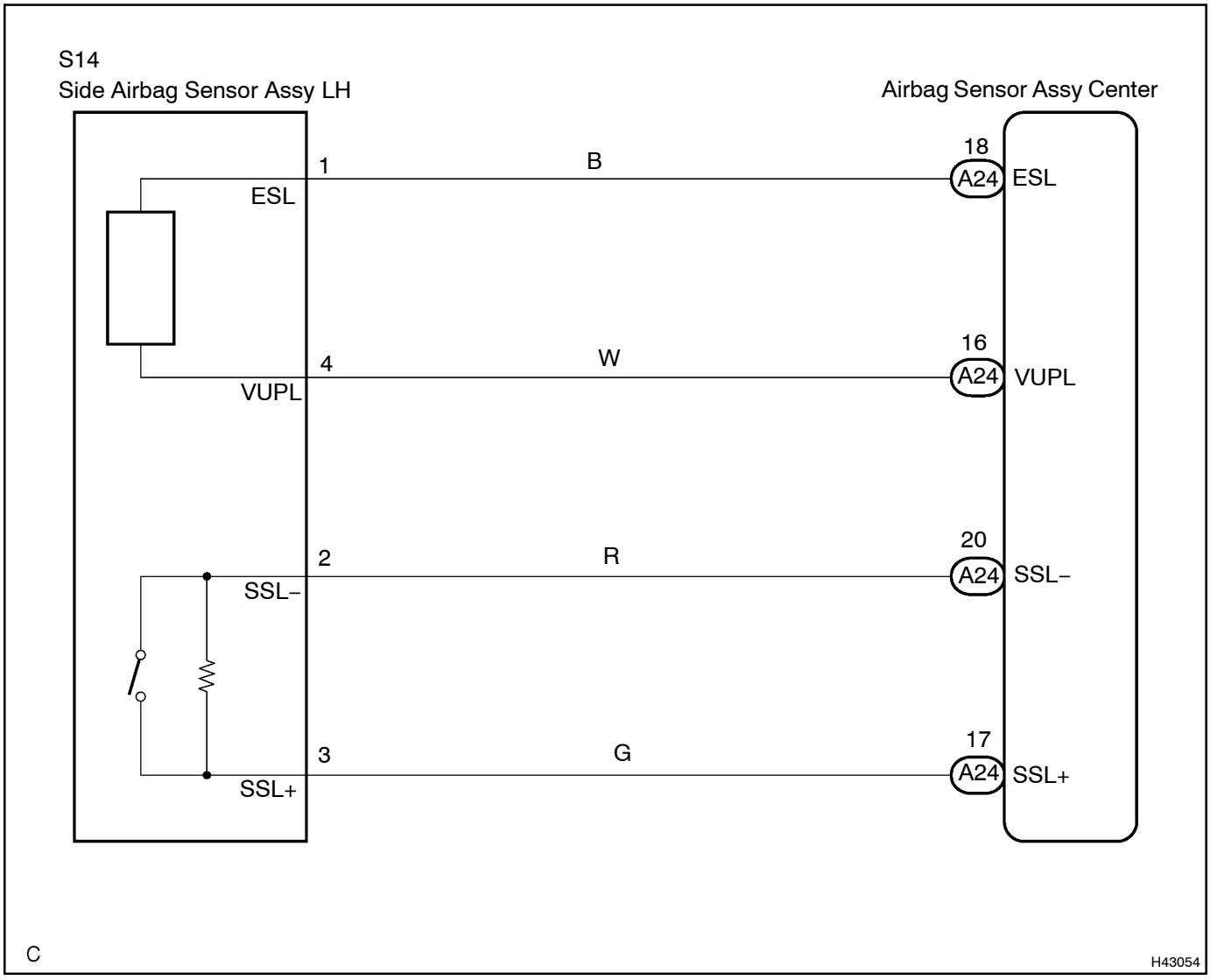
DTC	B1141/33	SIDE AIRBAG SENSOR ASSY (LH) MALFUNCTION

CIRCUIT DESCRIPTION

The side airbag sensor assy LH consists of the safing sensor, diagnosis circuit and lateral deceleration sensor, etc.
It receives signals from the lateral deceleration sensor, judges whether or not the SRS must be activated, and detects diagnosis system malfunction.
DTC B1141/33 is recorded when occurrence of a malfunction in the side airbag sensor assy LH is detected.

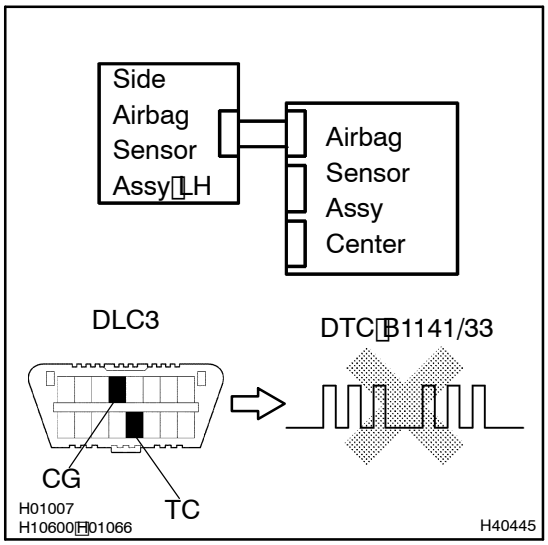
DTC No.	DTC Detecting Condition	Trouble Area
B1141/33	• Side airbag sensor assy LH malfunction	• Side airbag sensor assy LH • Floor wire No.2 • Airbag sensor assy center

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK DTC



(a) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(b) Clear the DTCs stored in memory (see page 05–513).
(c) Turn the ignition switch to the LOCK position.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Check the DTCs (see page 05–513).
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

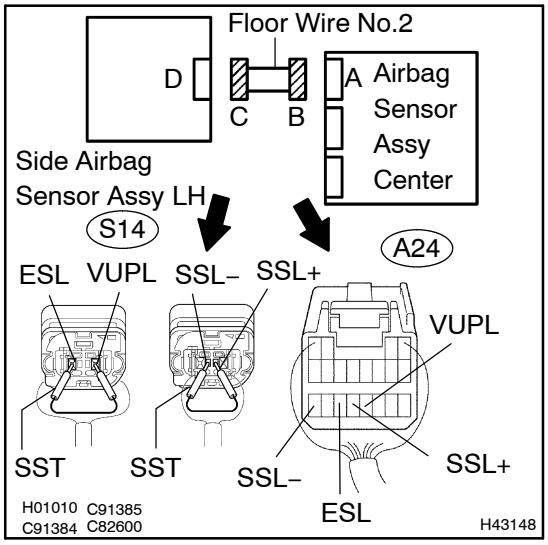
2 CHECK AIRBAG SENSOR ASSY CENTER CONNECTOR

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

NG → **CONNECT CONNECTORS, THEN GO TO STEP 1**

OK

3 CHECK FLOOR WIRE NO.2(OPEN)



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

(b) Using SST, connect S14–4 (VUPL) and S14–1 (ESL), and connect S14–3 (SSL+) and S14–2 (SSL–) of connector "C".

SST 09843–18040

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

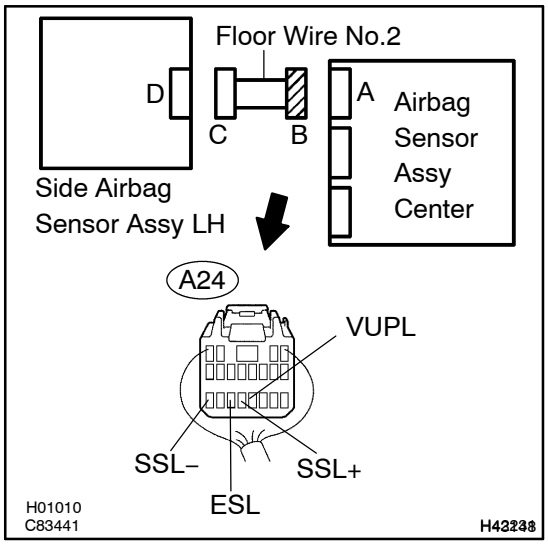
Standard:

Tester connection	Condition	Specified condition
A24–16 (VUPL) – A24–18 (ESL)	Always	Below 1 Ω
A24–17 (SSL+) – A24–20 (SSL–)	Always	Below 1 Ω

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

OK

4 CHECK FLOOR WIRE NO.2(TO GROUND)



(a) Disconnect the SST from connector "C"

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

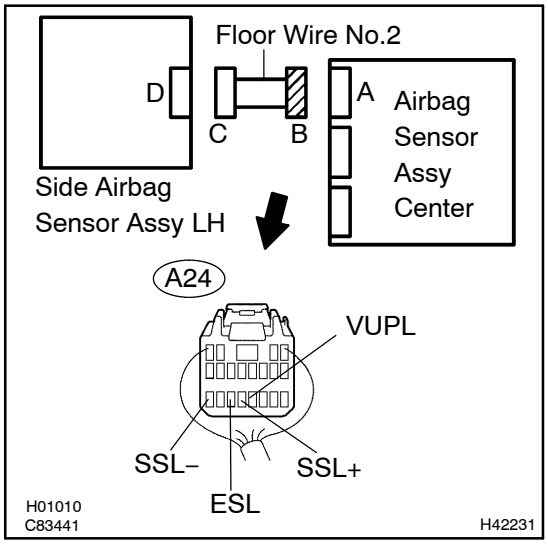
Standard:

Tester connection	Condition	Specified condition
A24–16 (VUPL) – Body ground	Always	1 MΩ or Higher
A24–18 (ESL) – Body ground	Always	1 MΩ or Higher
A24–17 (SSL+) – Body ground	Always	1 MΩ or Higher
A24–20 (SSL–) – Body ground	Always	1 MΩ or Higher

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

OK

5 CHECK FLOOR WIRE NO.2(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.

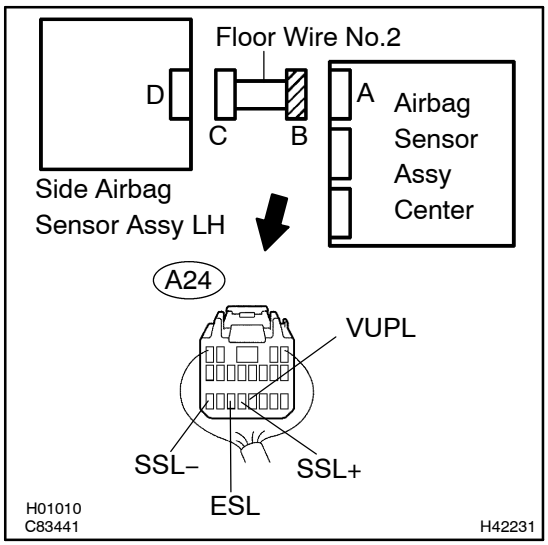
Standard:

Tester connection	Condition	Specified condition
A24–16 (VUPL) – Body ground	Ignition switch ON	Below 1 V
A24–18 (ESL) – Body ground	Ignition switch ON	Below 1 V
A24–17 (SSL+) – Body ground	Ignition switch ON	Below 1 V
A24–20 (SSL–) – Body ground	Ignition switch ON	Below 1 V

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

OK

6 CHECK FLOOR WIRE NO.2(SHORT)



(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.

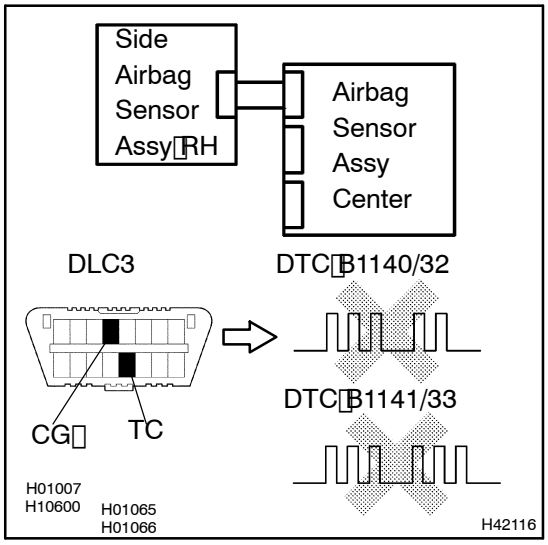
Standard:

Tester connection	Condition	Specified condition
A24–16 (VUPL) – A24–18 (ESL)	Always	1 MΩ or Higher
A24–17 (SSL+) – A24–20 (SSL–)	Always	1 MΩ or Higher

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

OK

7	CHECK DTC



(a) Connect the airbag sensor assy center connector.
(b) Interchange the side airbag sensor assy 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 05–513).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait at for least 60 seconds.
(h) Check the DTC (see page 05–513).

Result:

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 AIR BAG SENSOR ASSY LH**

NG:B → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

USE SIMULATION METHOD TO CHECK