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

CIRCUIT DESCRIPTION

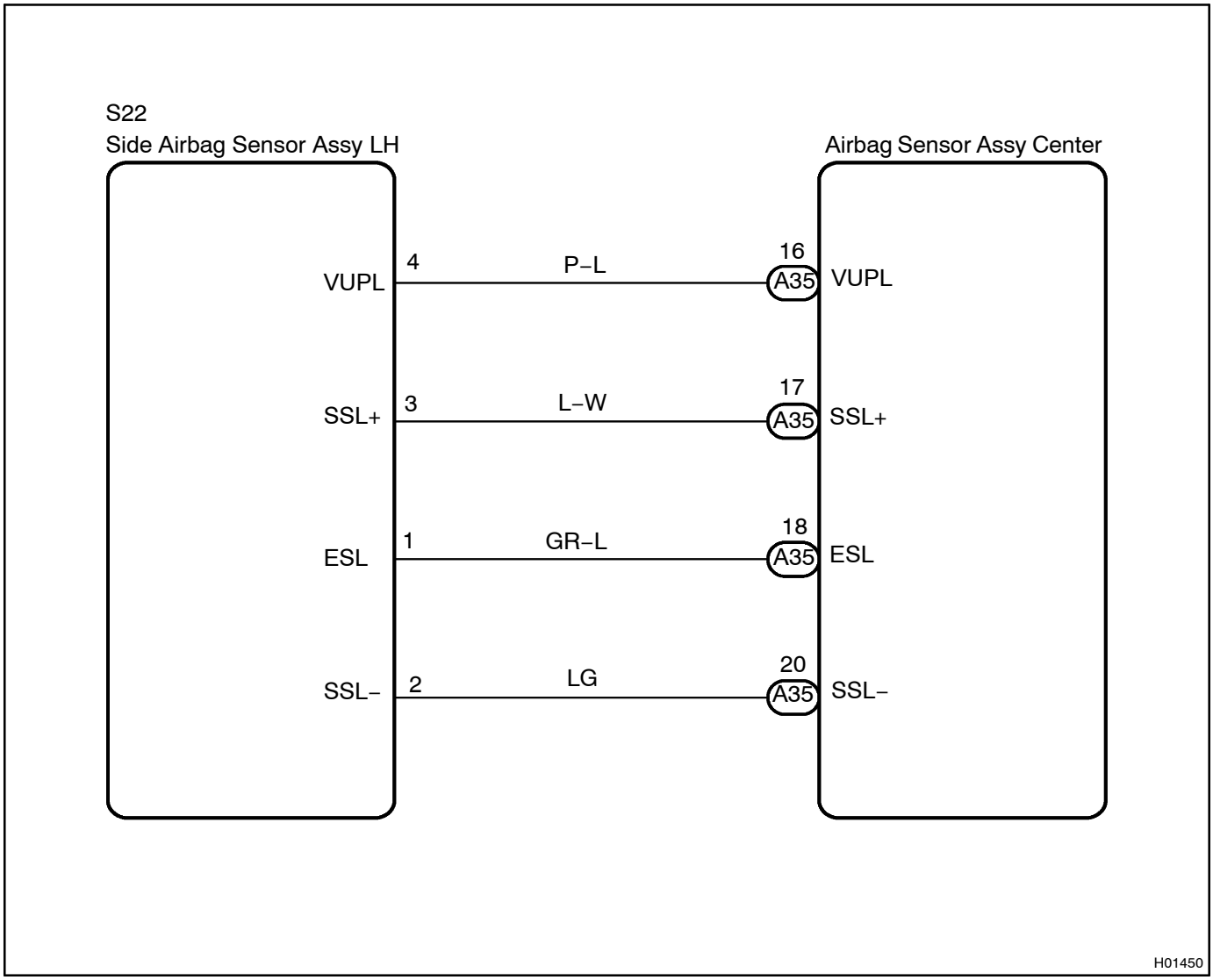
The side airbag sensor assy LH circuit consists of the safing sensor, diagnosis circuit and lateral deceleration sensor, etc.

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	• Short in side airbag sensor LH circuit (to ground) • Short in side airbag sensor LH circuit (to B+) • Open in side airbag sensor LH circuit • Side airbag sensor assy LH malfunction • Airbag sensor assy center malfunction	• Side airbag sensor assy LH • Airbag sensor assy center • Floor wire No.2

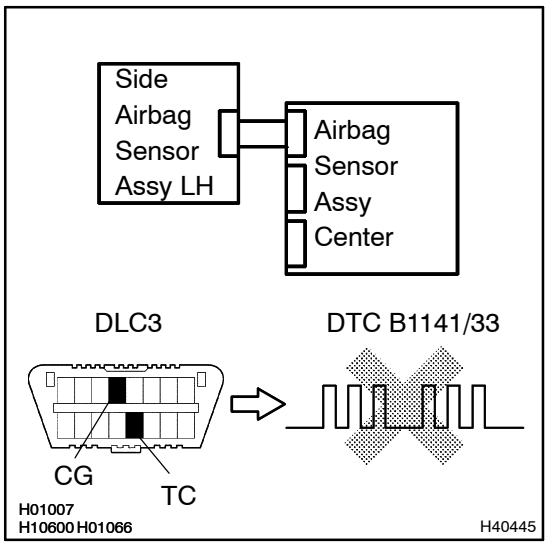
WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK SIDE AIR BAG SENSOR ASSY LH

SST 09843–18040



(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 10 seconds.
(d) Clear the DTC stored in memory (See page 05–1122).
(e) Turn the ignition switch to LOCK, and wait at least for 10 seconds.
(f) Turn the ignition switch to ON, and wait at least for 10 seconds.
(g) Check the DTC (See page 05–1122).
OK:
DTC B1141/33 is not output.

HINT:
Codes other than code B1141/33 may be output at this time, but they are not relevant to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

2 CHECK AIRBAG SENSOR ASSY CENTER CONNECTOR

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

NG → **CONNECT CONNECTORS**

OK

3 CHECK SIDE AIRBAG SENSOR ASSY CONNECTOR

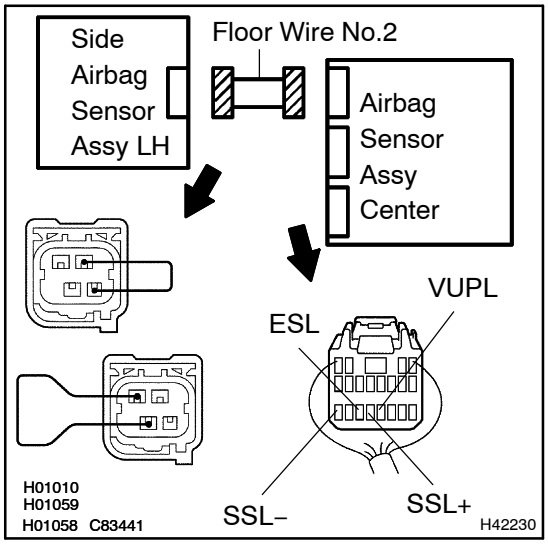
(a) Check that the connector is properly connected to the side airbag sensor assy LH.
OK:
The connector is connected.

NG → **CONNECT CONNECTORS**

OK

4 CHECK FLOOR WIRE NO.2(OPEN)

SST 09843–18040



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

(b) Using a service wire, connect the terminals of the floor wire No.2 connector, between VUPL and SSL–, and between ESL and SSL+.

(c) Measure the resistance between VUPL and SSR–, and between ESL and SSL+ of the floor wire No.2 connector on the airbag sensor assy center side.

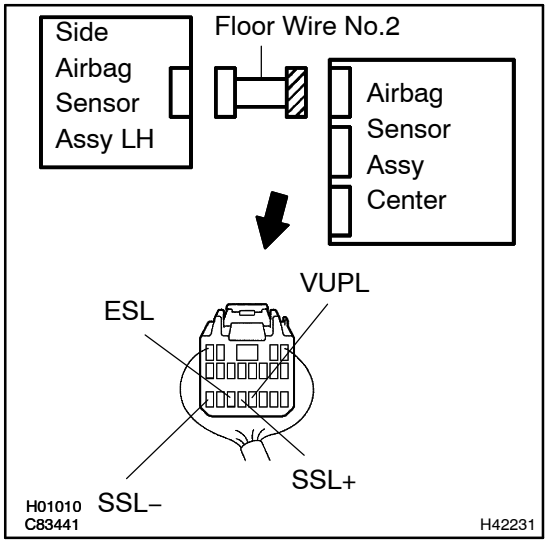
OK:

Resistance: Below 1 Ω

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

OK

5 CHECK FLOOR WIRE NO.2(TO GROUND)



(a) Disconnect the connection between VUPL and SSL–, and between ESL and SSL+.

(b) Measure the resistance between the body ground and each of VUPL, SSL+ and SSL– of the floor wire No.2 connector on the airbag sensor assy center side.

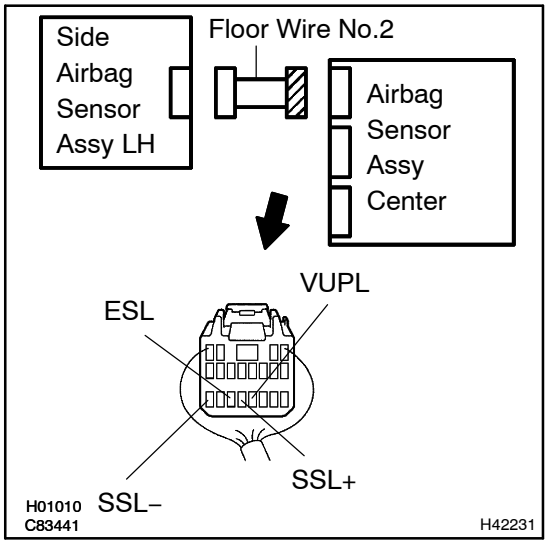
OK:

Resistance: 1 MΩ or Higher

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

OK

6 CHECK FLOOR WIRE NO.2

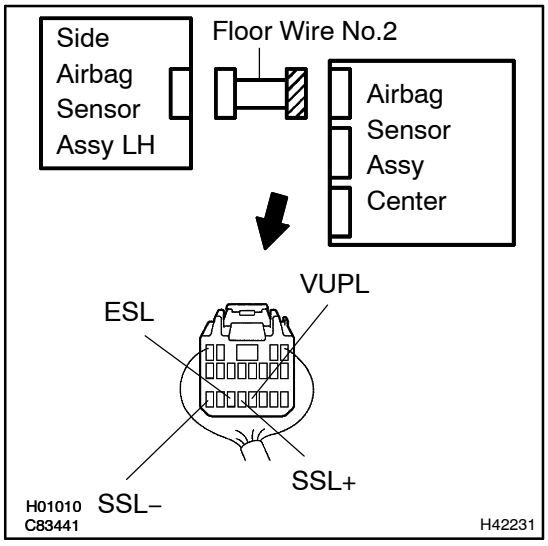


(a) Measure the resistance between VUPL and ESL of the floor wire No.2 connector on the airbag sensor assy center side.
OK:
Resistance: 1MΩ or Higher

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

OK

7 CHECK FLOOR WIRE NO.2(TO B+)



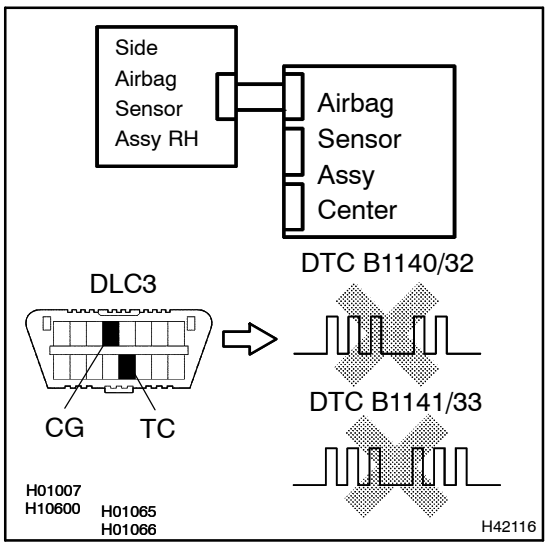
(a) Connect the negative (–) terminal cable to the battery.
(b) Turn the ignition switch to ON.
(c) Measure the voltage between the body ground and each of VUPL, SSL+ and SSL– of the floor wire No.2 connector on the airbag sensor assy center side.
OK:
Voltage: Below 1 V

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

OK

8	CHECK SIDE AIR BAG SENSOR ASSY LH

SST 09843–18040



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the airbag sensor assy center connector.
(d) Interchange the side airbag sensor assy RH and LH and connect the connectors to them.
(e) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 10 seconds.
(g) Clear the DTC stored in memory (See page 05–1122).
(h) Turn the ignition switch to LOCK, and wait at least for 10 seconds.
(i) Turn the ignition switch to ON, and wait at least for 10 seconds.
(j) Check the DTC (See page 05–1122).

OK:
(A): DTC B1140/32 is not output.
(B): DTC B1141/33 is not output.

NG(A)	REPLACE SIDE AIR BAG SENSOR ASSY LH

NG(B)	REPLACE AIR BAG SENSOR ASSY CENTER

OK

9	USE SIMULATION METHOD TO CHECK

NG	Go to step 1

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS