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

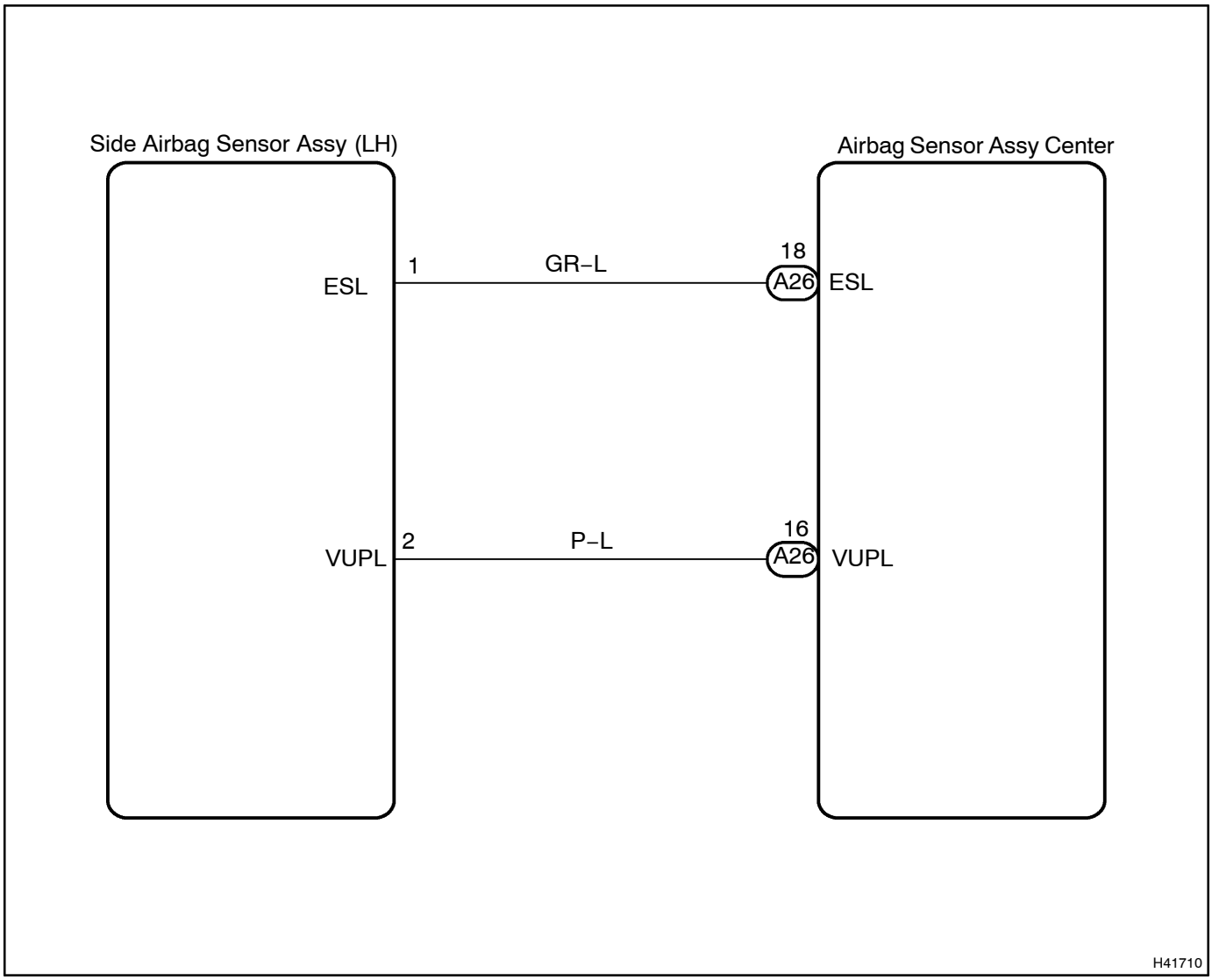
CIRCUIT DESCRIPTION

The side airbag sensor assy (LH) circuit consists of the 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 circuit in wire harness of side airbag sensor LH (to ground) • Short circuit in wire harness of side airbag sensor LH (to B+) • Open circuit in wire harness of side airbag sensor LH • Side airbag sensor assy (LH) malfunction • Airbag sensor assy center	• Side airbag sensor assy (LH) • Airbag sensor assy center • Wire harness

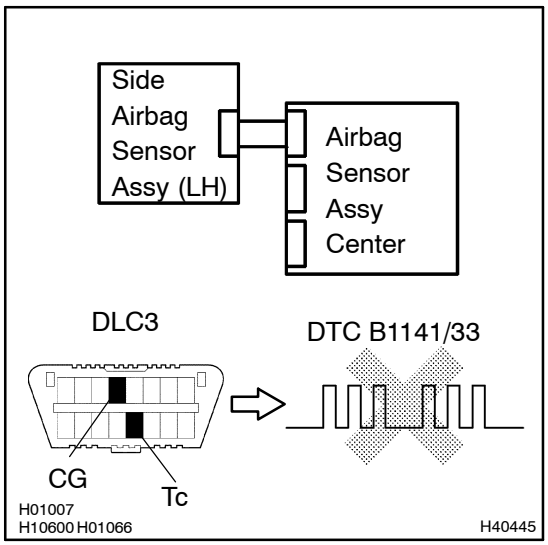
WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK SIDE AIR BAG SENSOR ASSY LH

SST 09843–18040



(a) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(b) Turn the ignition switch to ON, and wait at least for 20 seconds.
(c) Clear the DTC stored in memory (See page 05–758).
(d) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(e) Turn the ignition switch to ON, and wait at least for 20 seconds.
(f) Check the DTC (See page 05–758).
OK:
DTC B1141/33 is not output.

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

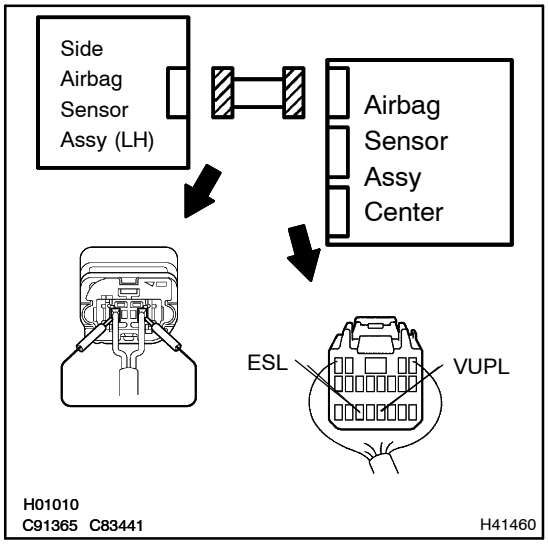
(a) Check that the connector is properly connected to the side airbag sensor assy (LH).
OK:
The connector is connected.

NG → **CONNECT CONNECTORS**

OK

4	CHECK SIDE AIRBAG SENSOR ASSY(LH) CIRCUIT(OPEN)(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY LH)

SST 09843–18040

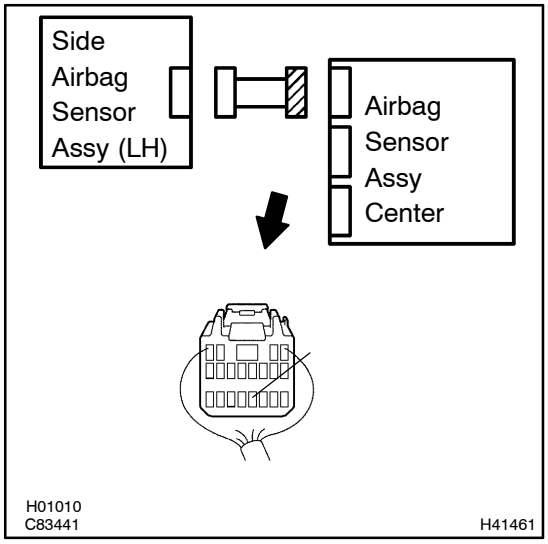


(a) Disconnect the connectors between the airbag sensor assy center and the side airbag sensor assy (LH).
(b) Using a service wire, connect VUPL and ESL of the connector (on the side airbag sensor assy LH side) between the airbag sensor assy center and the side airbag sensor assy (LH).
(c) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the side airbag sensor assy (LH), measure the resistance between VUPL and ESL.
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE WIRE HARNESS(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY LH)**

OK

5	CHECK SIDE AIRBAG SENSOR ASSY(LH) CIRCUIT(TO GROUND)(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY LH)

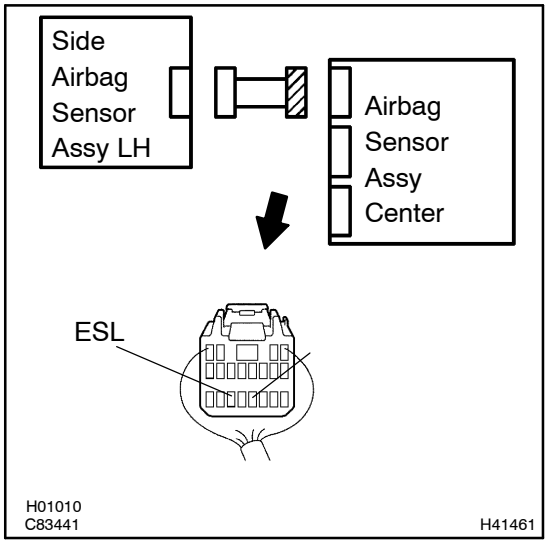


(a) Disconnect the connection between VUPL and ESL–.
(b) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the side airbag sensor assy (LH), measure the resistance between VUPL and body ground.
OK:
Resistance: 1MΩ or Higher

NG → **REPAIR OR REPLACE WIRE HARNESS(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY LH)**

OK

6	CHECK SIDE AIRBAG SENSOR ASSY(LH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY LH)



(a) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the side airbag sensor assy (LH), measure the resistance between VUPL and ESL.

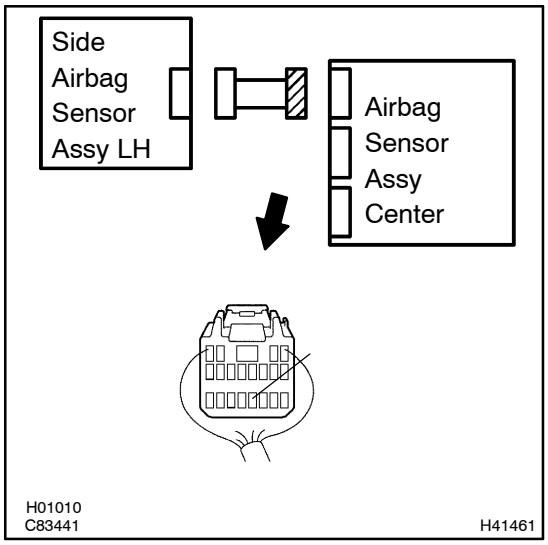
OK:

Resistance: 1MΩ or Higher

NG → **REPAIR OR REPLACE WIRE HARNESS(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY LH)**

OK

7	CHECK SIDE AIRBAG SENSOR ASSY(LH) CIRCUIT(TO B+)(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY LH)



(a) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.

(b) Turn the ignition switch to ON.

(c) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the side airbag sensor assy (LH), measure the voltage between VUPL and body ground.

OK:

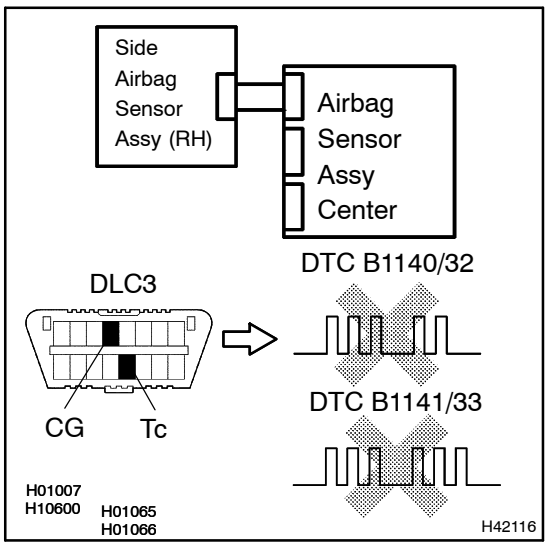
Voltage: Below 1V

NG → **REPAIR OR REPLACE WIRE HARNESS(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY LH)**

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 connectors.
(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 20 seconds.
(g) Clear the DTC stored in memory (See page 05–758).
(h) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(i) Turn the ignition switch to ON, and wait at least for 20 seconds.
(j) Check the DTC (See page 05–758).

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 THE WIRE HARNESS