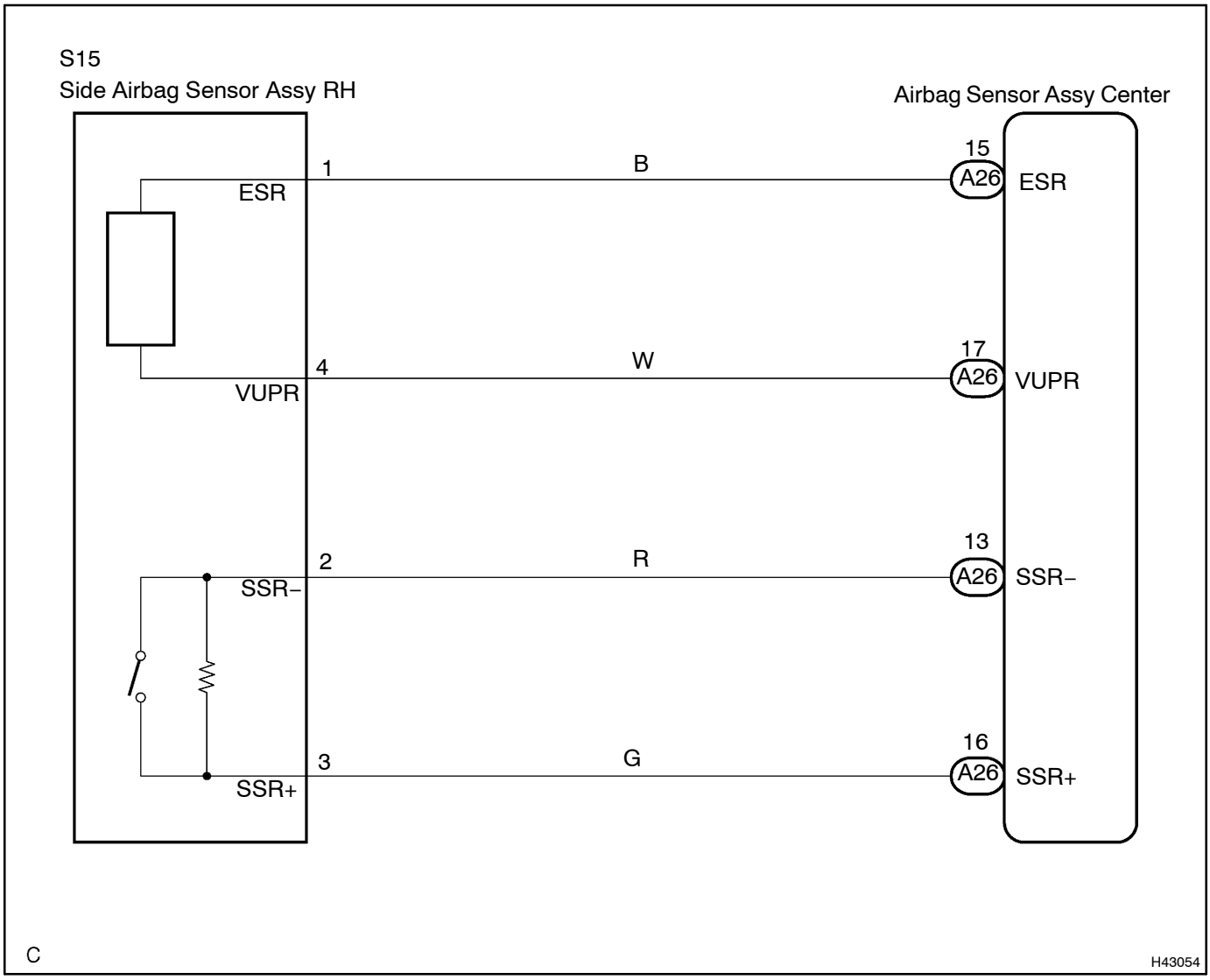
DTC	B1140/32	SIDE AIRBAG SENSOR ASSY (RH) MALFUNCTION

CIRCUIT DESCRIPTION

The side airbag sensor assy RH 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 B1140/32 is recorded when occurrence of a malfunction in the side airbag sensor assy RH (RH) is detected.

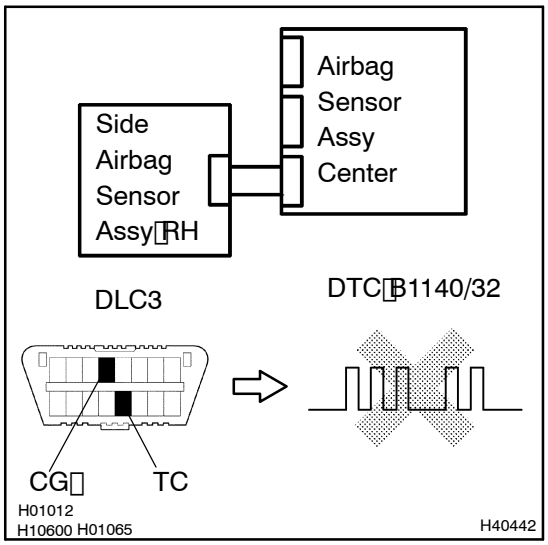
DTC No.	DTC Detecting Condition	Trouble Area
B1140/32	• Side airbag sensor assy RH circuit malfunction	• Side airbag sensor assy RH • Floor wire • Airbag sensor assy center

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 B1140/32 is not output.

HINT:

Codes other than code B1140/32 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

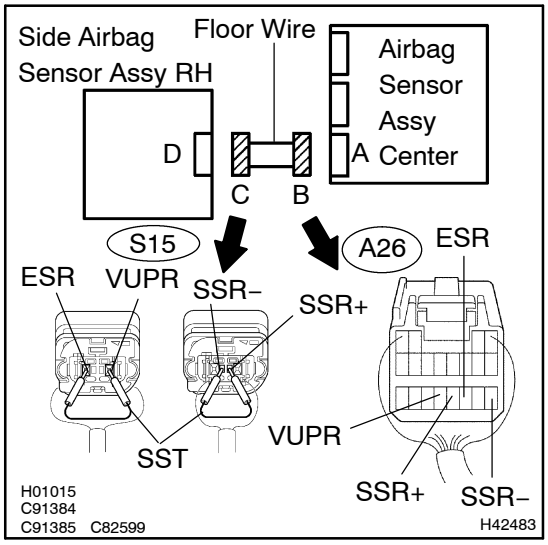
2	CHECK CONNECTION OF CONNECTORS

(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 connector is properly connected to the airbag sensor assy center and the side airbag sensor assy RH.

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

OK

3 CHECK FLOOR WIRE(OPEN)



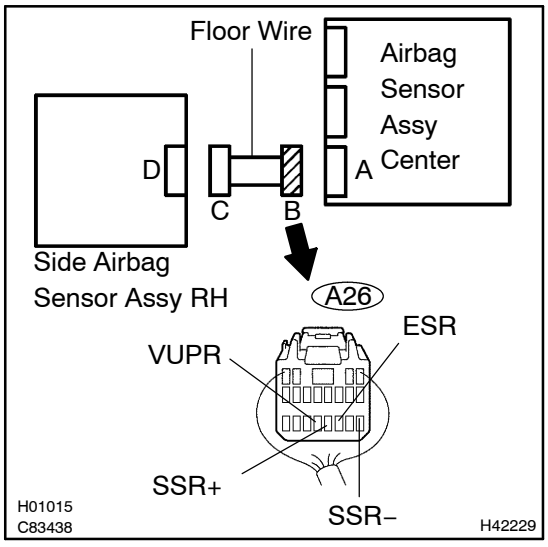
(a) Disconnect the connectors from the airbag sensor assy center and the side airbag sensor assy RH.
(b) Using SST, connect S15–4 (VUPR) and S15–1 (ESR), and connect S15–3 (SSR+) and S15–2 (SSR–) of connector "C".
SST 09843–18040
(c) Measure the resistance according to the value(s) in the table below.
Standard:

Tester connection	Condition	Specified condition
A26–17 (VUPR) – A26–15 (ESR)	Always	Below 1 Ω
A26–16 (SSR+) – A26–13 (SSR–)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4 CHECK FLOOR WIRE(TO GROUND)



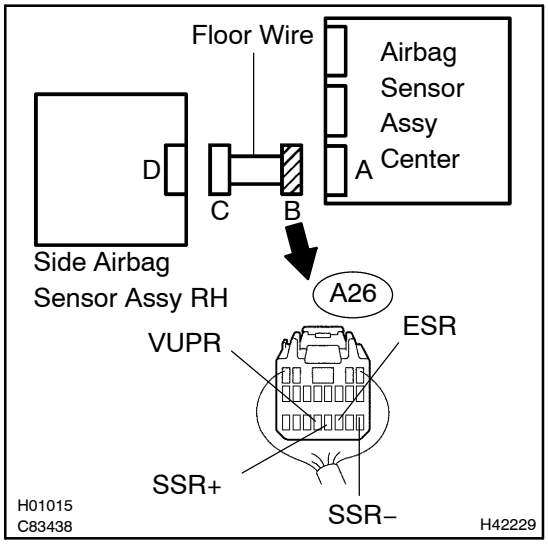
(a) Disconnect the SST from connector "C".
(b) Measure the resistance according to the value(s) in the table below.
Standard:

Tester connection	Condition	Specified condition
A26–17 (VUPR) – Body ground	Always	1 MΩ or Higher
A26–15 (ESR) – Body ground	Always	1 MΩ or Higher
A26–16 (SSR+) – Body ground	Always	1 MΩ or Higher
A26–13 (SSR–) – Body ground	Always	1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

5 CHECK FLOOR WIRE(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.

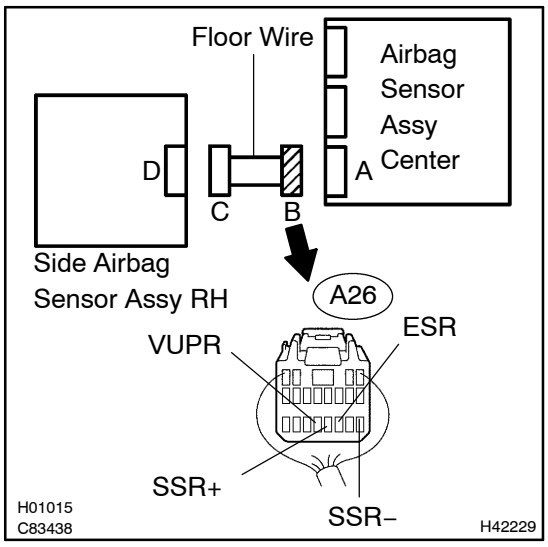
Standard:

Tester connection	Condition	Specified condition
A26–17 (VUPR) – Body ground	Ignition switch ON	Below 1 V
A26–15 (ESR) – Body ground	Ignition switch ON	Below 1 V
A26–16 (SSR+) – Body ground	Ignition switch ON	Below 1 V
A26–13 (SSR–) – Body ground	Ignition switch ON	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

6 CHECK FLOOR WIRE(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.

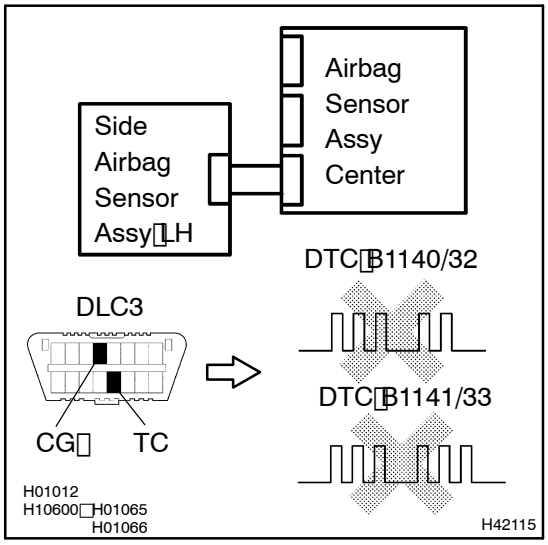
Standard:

Tester connection	Condition	Specified condition
A26–17 (VUPR) – A26–15 (ESR)	Always	1 MΩ or Higher
A26–16 (SSR+) – A26–13 (SSR–)	Always	1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

7	CHECK SIDE AIR BAG SENSOR ASSY RH



(a) Connect the connector to the airbag sensor assy center.
(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 for at least 60 seconds.
(h) Check the DTCs (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 AIR BAG SENSOR ASSY CENTER**

NG:B → **REPLACE SIDE AIR BAG SENSOR ASSY RH**

OK

USE SIMULATION METHOD TO CHECK