DTC	B1154/38	AIRBAG SENSOR REAR (RH) MALFUNCTION

CIRCUIT DESCRIPTION

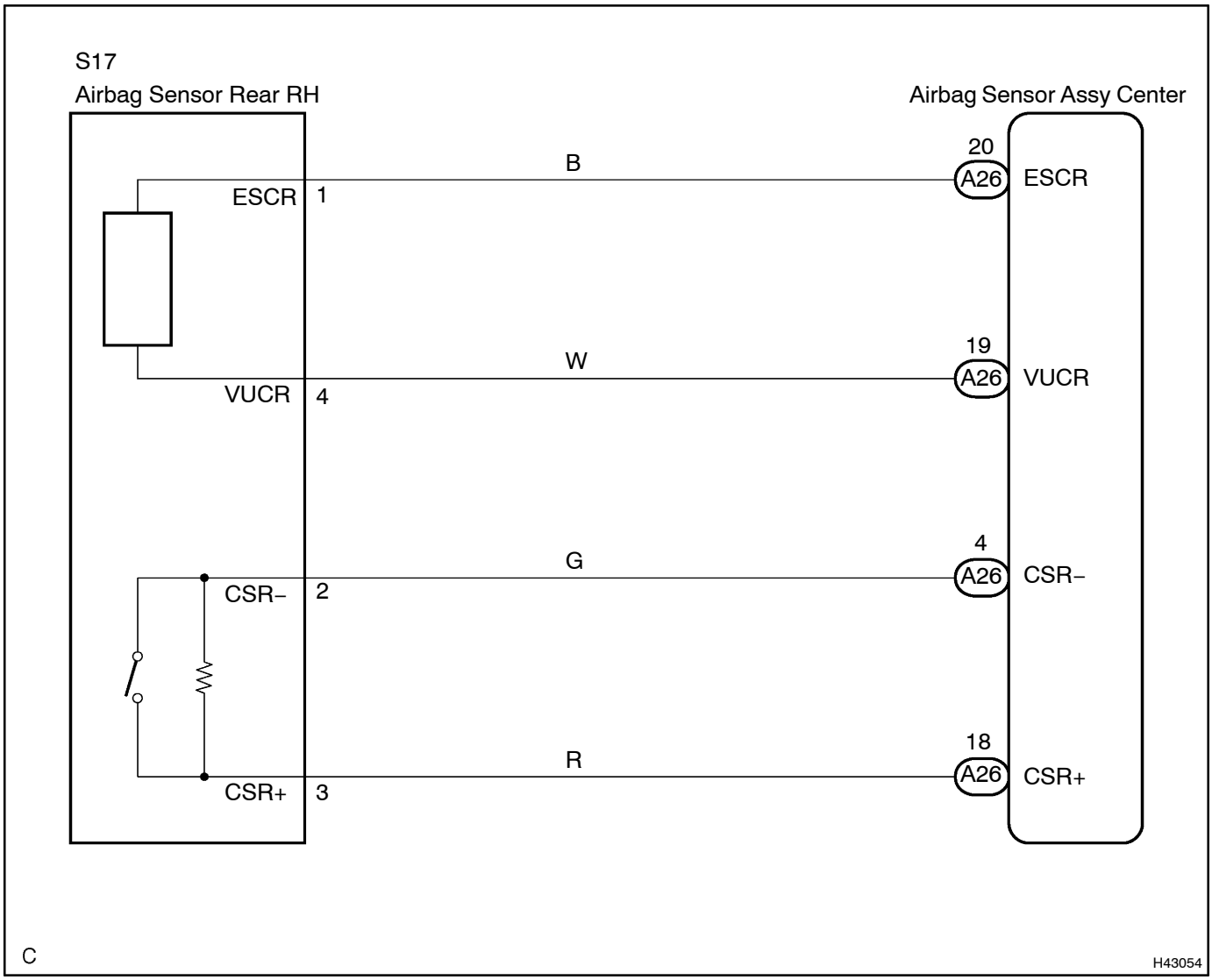
The airbag sensor rear RH consists of the safing sensor, the diagnostic circuit and the lateral deceleration sensor, etc.

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

DTC B1154/38 is recorded when a malfunction in the airbag sensor rear RH is detected.

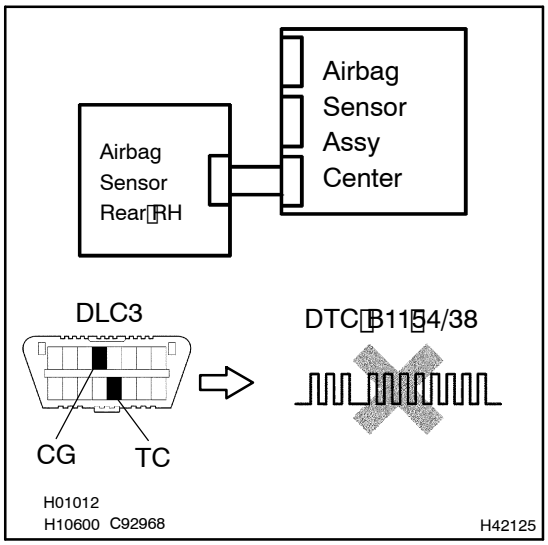
DTC No.	DTC Detecting Condition	Trouble Area
B1154/38	• Short circuit in airbag sensor rear RH wire harness (to ground) • Short circuit in airbag sensor rear RH wire harness (to B+) • Open circuit in airbag sensor rear RH wire harness • Short circuit in airbag sensor rear RH wire harness • Airbag sensor rear RH malfunction • Airbag sensor assy center malfunction	• Airbag sensor rear RH • Airbag sensor assy center • Floor wire

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 B1154/38 is not output.

HINT:
Codes other than code B1154/38 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

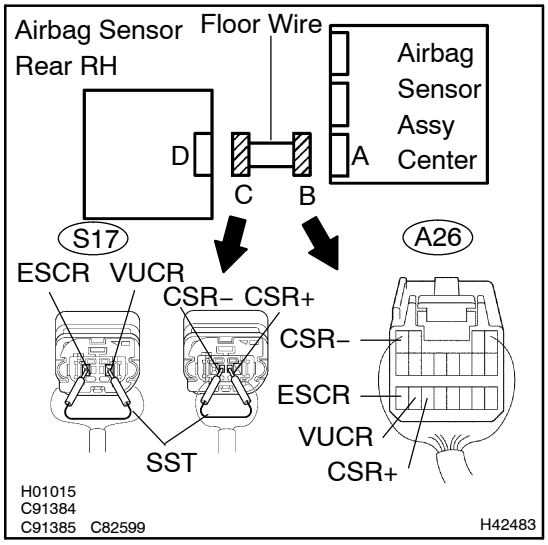
2 CHECK CONNECTION OF CONNECTORS

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

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

OK

3 CHECK FLOOR WIRE(OPEN)



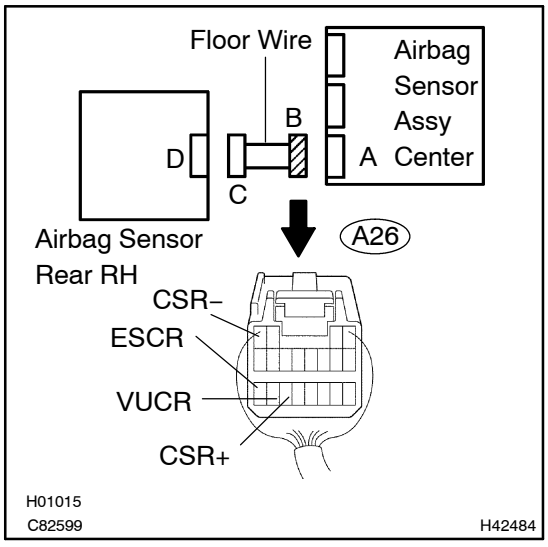
(a) Disconnect the connectors from the airbag sensor assy center and the airbag sensor rear assy RH.
(b) Using SST, connect S17–4 (VUCR) and S17–1 (ESCR), and connect S17–3 (CSR+) and S17–2 (CSR–) of connector "C".
SST 09843–18040
(c) Measure the resistance according to the value(s) in the table below.
Standard:

Tester connection	Condition	Specified condition
A26–19 (VUCR) – A26–20 (ESCR)	Always	Below 1 Ω
A26–18 (CSR+) – A26–4 (CSR–)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4 CHECK FLOOR WIRE(TO B+)



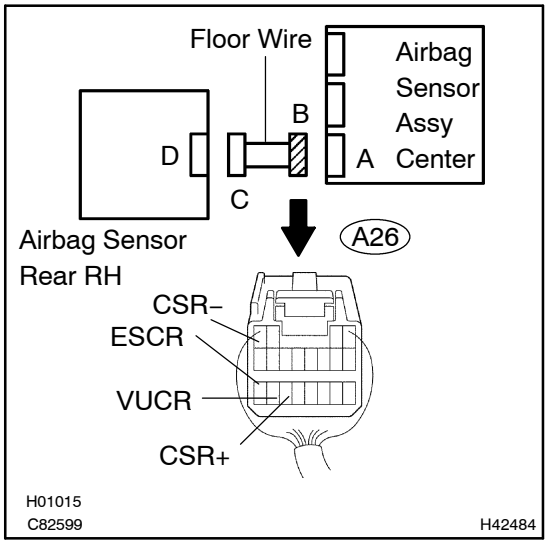
(a) Disconnect the SST from connector "C".
(b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position.
(d) Measure the voltage according to the value(s) in the table below.
Standard:

Tester connection	Condition	Specified condition
A26–19 (VUCR) – Body ground	Ignition switch ON	Below 1 V
A26–20 (ESCR) – Body ground	Ignition switch ON	Below 1 V
A26–18 (CSR+) – Body ground	Ignition switch ON	Below 1 V
A26–4 (CSR–) – Body ground	Ignition switch ON	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

5 CHECK FLOOR WIRE(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.

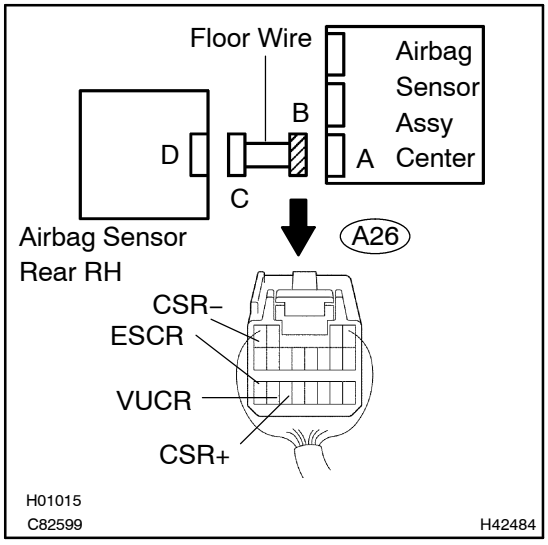
Standard:

Tester connection	Condition	Specified condition
A26–19 (VUCR) – Body ground	Always	1 MΩ or Higher
A26–20 (ESCR) – Body ground	Always	1 MΩ or Higher
A26–18 (CSR+) – Body ground	Always	1 MΩ or Higher
A26–4 (CSR–) – Body ground	Always	1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

6 CHECK FLOOR WIRE(SHORT)



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

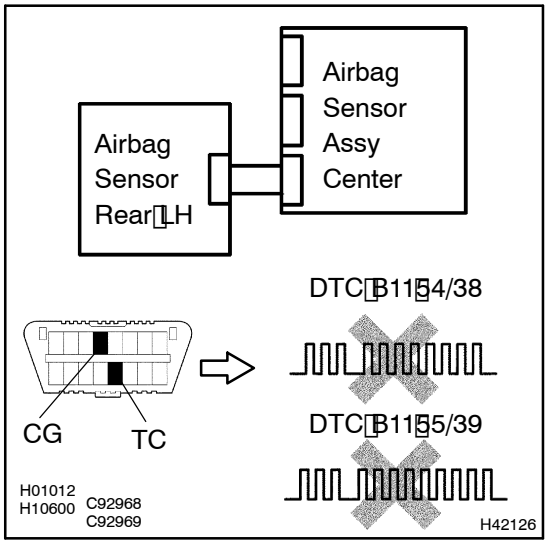
Standard:

Tester connection	Condition	Specified condition
A26–19 (VUCR) – A26–20 (ESCR)	Always	1 MΩ or Higher
A26–18 (CSR+) – A26–4 (CSR–)	Always	1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

7	CHECK AIR BAG SENSOR REAR RH



(a) Connect the connector to the airbag sensor assy center.
(b) Interchange the airbag sensor rear LH with RH 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 B1154/38 is output.
NG: B	DTC B1155/39 is output.
OK	DTC B1154/38 and B1155/39 are not output.

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

NG:B → **REPLACE AIR BAG SENSOR REAR RH**

OK

USE SIMULATION METHOD TO CHECK