DTC	B1154/38	AIRBAG SENSOR REAR (RH) MALFUNCTION

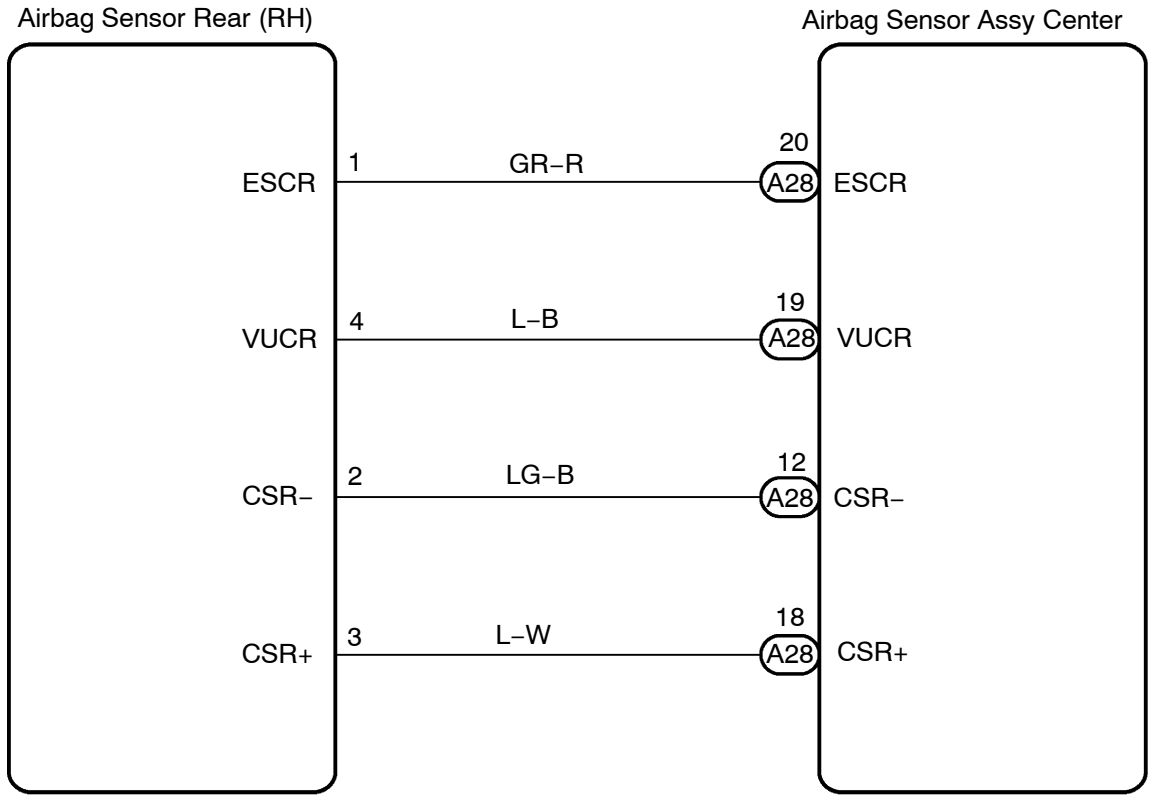
CIRCUIT DESCRIPTION

The airbag sensor rear (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 B1154/38 is recorded when occurrence of a malfunction in the airbag sensor rear (RH) is detected.

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

WIRING DIAGRAM

w/ Curtain Shield Airbag:

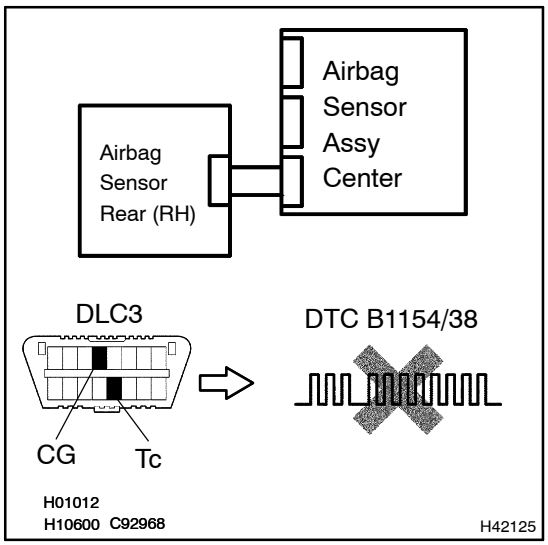


H01450

INSPECTION PROCEDURE

1 CHECK AIR BAG SENSOR REAR RH

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(a) Turn the ignition switch to ON, and wait at least for 20 seconds.
(b) Clear the DTC stored in memory (See page 05–758).
(c) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(d) Turn the ignition switch to ON, and wait at least for 20 seconds.
(e) Check the DTC (See page 05–758).
OK:
DTC B1154/38 is not output.

HINT:
During this check, DTC B1155/39 may also be output at the same time.

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 AIRBAG SENSOR REAR CONNECTOR

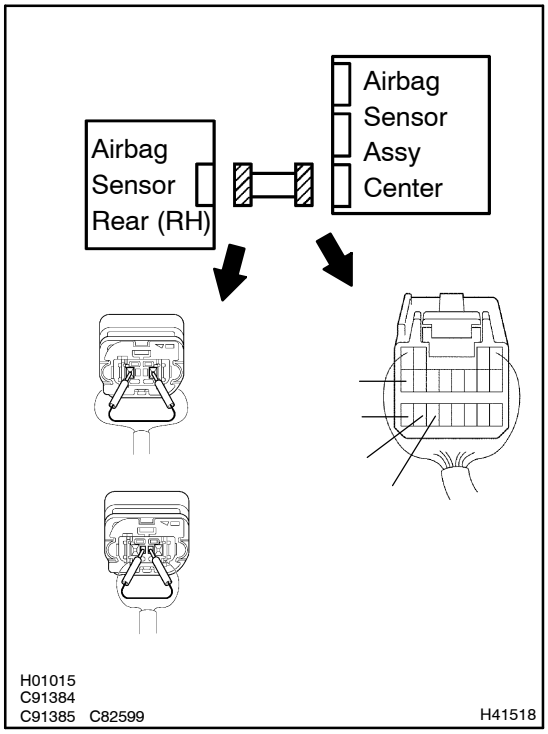
(a) Check that the connector is properly connected to the airbag sensor rear (RH).
OK:
The connector is connected.

NG → **CONNECT CONNECTORS**

OK

4	CHECK AIRBAG SENSOR REAR RH CIRCUIT (OPEN)(AIRBAG SENSOR ASSY CENTER – AIRBAG SENSOR REAR RH)

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(a) Disconnect the connectors between the airbag sensor assy center and the airbag sensor rear (RH).

(b) Using a service wire, connect VUCR and ESCR of the connector (on the airbag sensor rear side) between the airbag sensor assy center and the airbag sensor rear (RH).

(c) Using a service wire, connect CSR+ and CSR– of the connector (on the airbag sensor rear side) between the airbag sensor assy center and the airbag sensor rear (RH).

(d) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag sensor rear (RH), measure the resistance between VUCR and ESCR, and between CSR+ and CSR–.

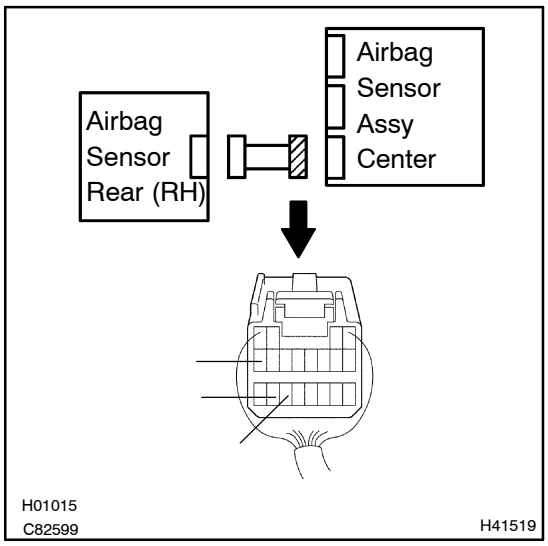
OK:

Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE WIRE HARNESS(AIRBAG SENSOR ASSY CENTER – AIRBAG SENSOR REAR RH)**

OK

5	CHECK AIRBAG SENSOR REAR RH CIRCUIT (TO GROUND)(AIRBAG SENSOR ASSY CENTER – AIRBAG SENSOR REAR RH)



(a) Release the service wire of the connector (on the airbag sensor rear side) between the airbag sensor assy center and the airbag sensor rear (RH).

(b) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag sensor rear (RH), measure the resistance between body ground and each of CSR+, VUCR and CSR–.

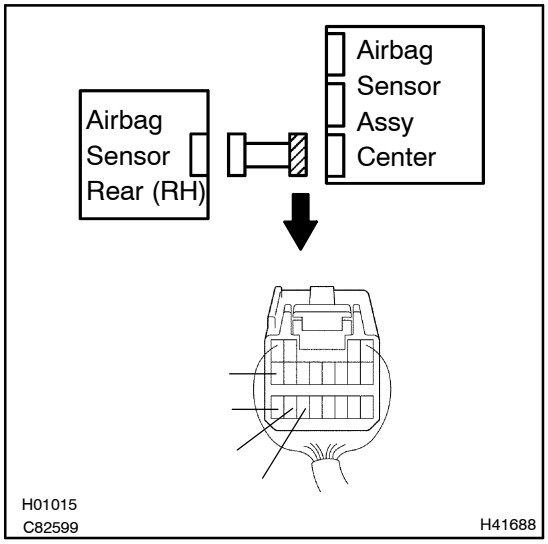
OK:

Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE WIRE HARNESS(AIRBAG SENSOR ASSY CENTER – AIRBAG SENSOR REAR RH)**

OK

6	CHECK AIRBAG SENSOR REAR RH CIRCUIT(AIRBAG SENSOR ASSY CENTER – AIRBAG SENSOR REAR RH)



(a) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag sensor rear (RH), measure the resistance between VUCR and ESCR, and between CSR+ and CSR–.
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE WIRE HARNESS(AIRBAG SENSOR ASSY CENTER – AIRBAG SENSOR REAR RH)**

OK

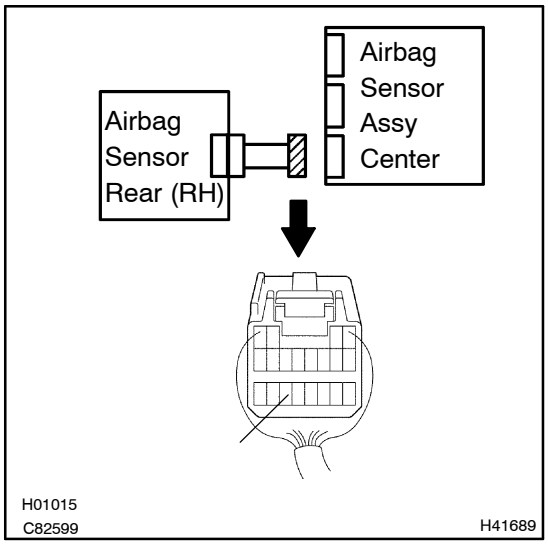
7	CHECK DIAGNOSTIC TROUBLE CODE

(a) When DTC B1154/38 and DTC B1155/39 are output at the same time, or only DTC B1154/38 is output, check by following the procedure below.
(A): When DTC B1154/38 and DTC B1155/39 are output at the same time.
(B): Only DTC B1154/38 is output.

(B) → **Go to step ****

(A)

8	CHECK AIR BAG SENSOR REAR RH

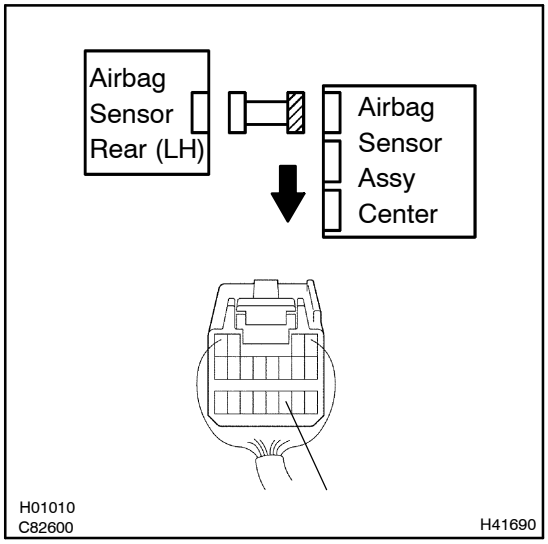


(a) Connect the connector of the airbag sensor rear (RH).
(b) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag sensor rear (RH), measure the resistance between the body ground and CSR+.
OK:
Resistance: 1 MΩ or Higher

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

OK

9	CHECK AIRBAG SENSOR REAR LH CIRCUIT(AIRBAG SENSOR ASSY CENTER – AIRBAG SENSOR REAR LH)

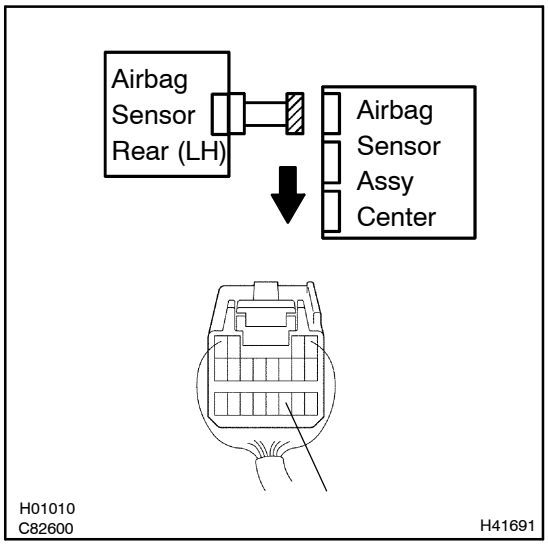


(a) Disconnect the connectors of the airbag sensor assy center and the airbag sensor rear (LH).
(b) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag sensor rear (LH), measure the resistance between the body ground and CSL+.
OK:
Resistance: 1 MΩ or Higher

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

OK

10	CHECK AIR BAG SENSOR REAR LH

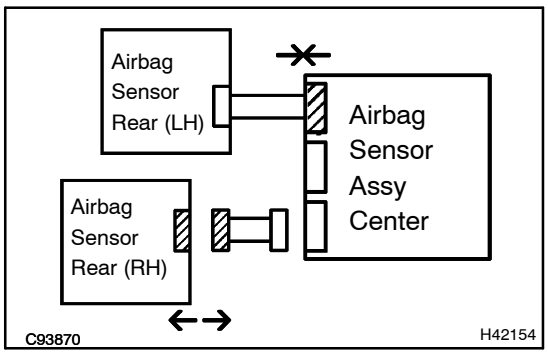


(a) Connect the connector of the airbag sensor rear (LH).
(b) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag sensor rear (LH), measure the resistance between the body ground and CSL+.
OK:
Resistance: 1 MΩ or Higher

NG → **REPLACE AIR BAG SENSOR REAR LH**

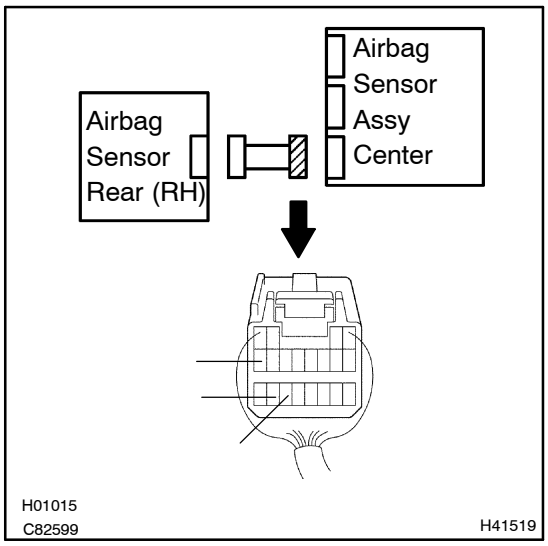
OK

11	RESTORE CONNECTING CONDITION OF EACH CONNECTOR



(a) Disconnect the connector of the airbag sensor rear (RH).
(b) Connect the connector to the airbag sensor assy center.

12	CHECK AIRBAG SENSOR REAR RH CIRCUIT (TO B+)(AIRBAG SENSOR ASSY CENTER – AIRBAG SENSOR REAR RH)



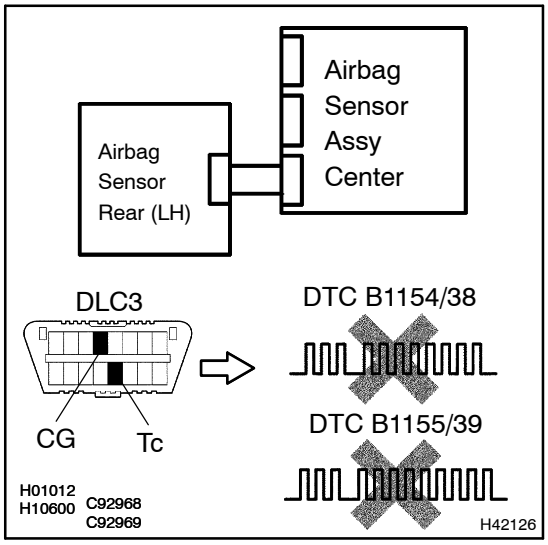
(a) Connect the negative (–) terminal cable to the battery.
(b) Turn the ignition switch to ON.
(c) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag sensor rear (RH), measure the voltage between the body ground and each of VUCR, CSR+ and CSR–.
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE WIRE HARNESS**

OK

13 CHECK AIR BAG SENSOR REAR RH

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(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 airbag sensor rear (LH) and (RH) and connect the connectors to them.
(e) Install the airbag sensor rear (RH) and (LH) to the vehicle securely.

NOTICE:

Do not impact on the airbag sensor rear when installation.

(f) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Clear the DTC stored in memory (See page 05–758).
(i) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(j) Turn the ignition switch to ON, and wait at least for 20 seconds.
(k) Check the DTC (See page 05–758).

OK:

(A): DTC B1154/38 is not output.
(B): DTC B1155/39 is not output.

NG(A) → **REPLACE AIR BAG SENSOR ASSY CENTER**

NG(B) → **REPLACE AIR BAG SENSOR REAR RH**

OK

USE SIMULATION METHOD TO CHECK