DTC	B1148/36	Front Airbag Sensor RH Circuit Malfunction

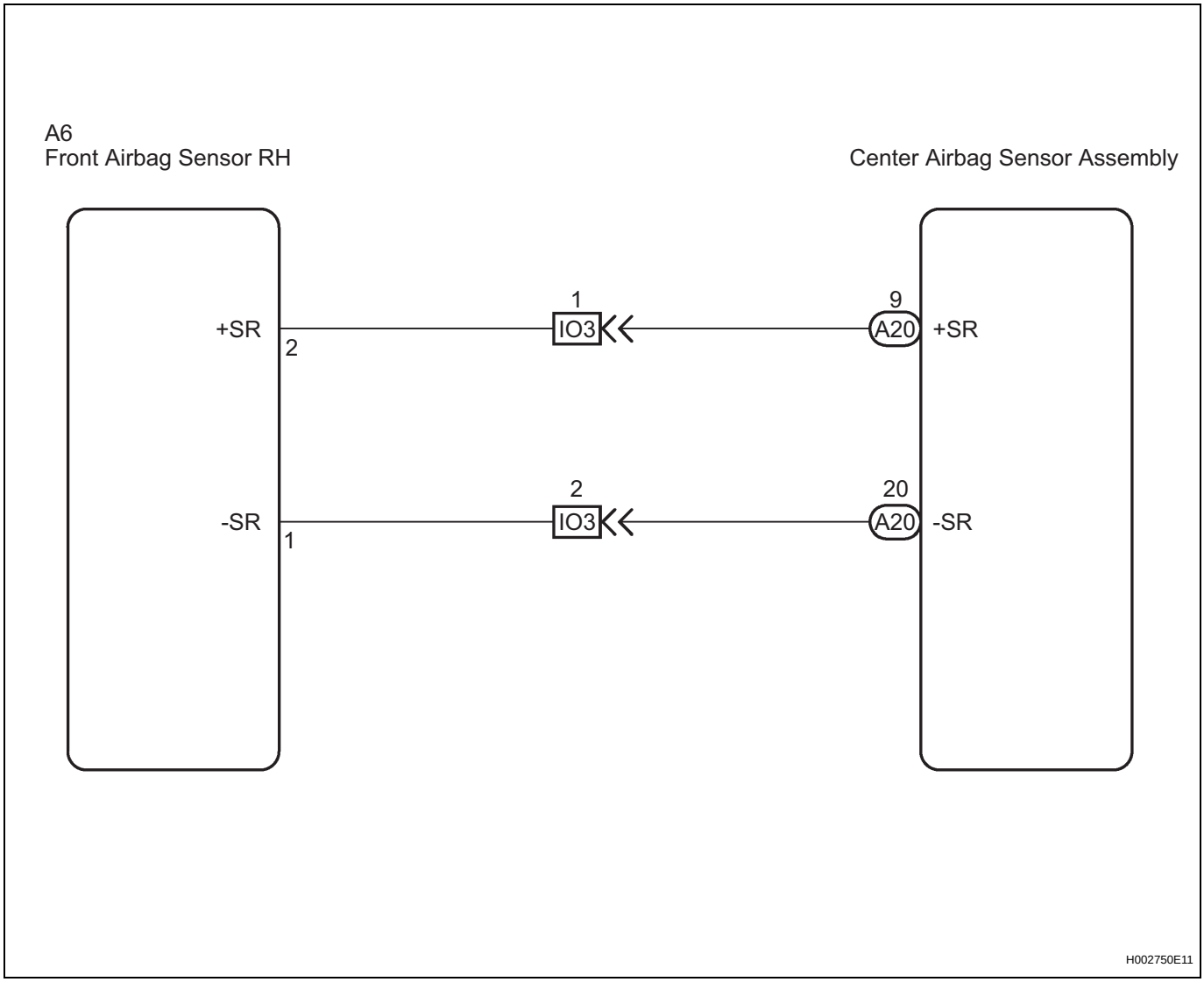
DESCRIPTION

The front airbag sensor RH circuit consists of the diagnosis circuit and the frontal deceleration sensor, etc. If the center airbag sensor assembly receives signals from the frontal deceleration sensor, it judges whether or not the SRS should be activated.
DTC B1148/36 is recorded when a malfunction is detected in the front airbag sensor RH circuit.

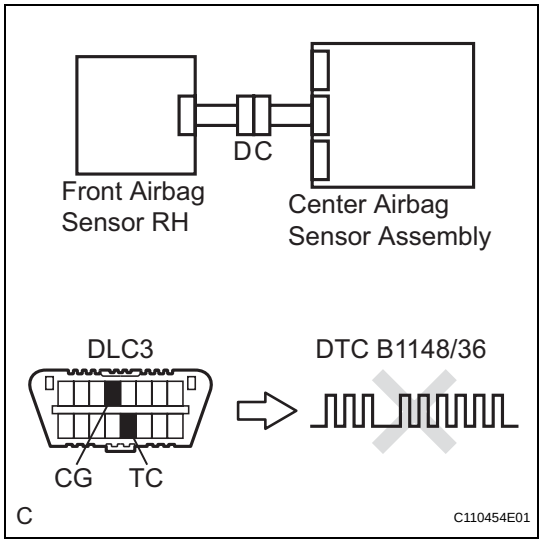
DTC No.	DTC Detecting Condition	Trouble Area
B1148/36	• Open circuit in +SR wire harness or -SR wire harness of front airbag sensor RH circuit • Front airbag sensor RH sensor malfunction • Center airbag sensor assembly malfunction	• Front airbag sensor RH • Center airbag sensor assembly • Engine room main wire • Instrument panel wire

RS

WIRING DIAGRAM



1	CHECK FRONT AIRBAG SENSOR RH



(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 RS-32).
(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 RS-32).

OK:

DTC B1148/36 is not output.

HINT:

Codes other than code B1148/36 may be output at this time, but they are not related to this check.

RS

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 center airbag sensor assembly and the front airbag sensor RH.

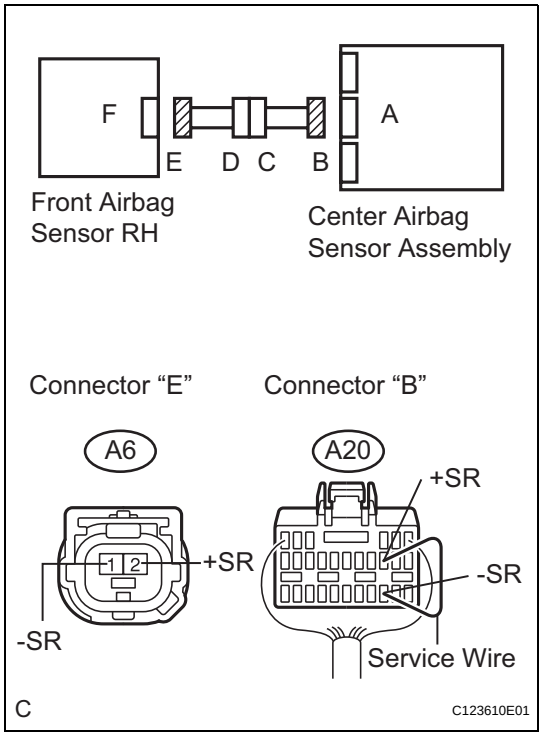
OK:

The connectors are connected.

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

OK

3 CHECK FRONT AIRBAG SENSOR RH CIRCUIT (OPEN)



(a) Disconnect the connectors from the center airbag sensor assembly and the front airbag sensor RH.
(b) Using a service wire, connect A20-9 (+SR) and A20-20 (-SR) of connector "B".
HINT:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(c) Measure the resistance according to the value(s) in the table below.

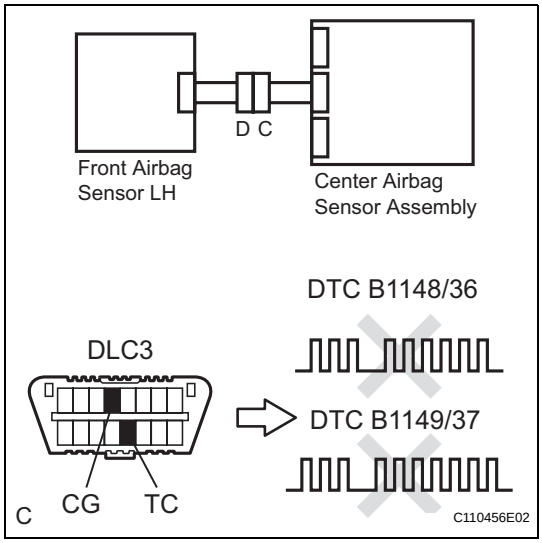
Resistance

Tester connection	Condition	Specified condition
A6-2 (+SR) - A6-1 (-SR)	Always	Below 1 Ω

NG: Go to step 5

OK

4 CHECK FRONT AIRBAG SENSOR RH



(a) Disconnect the service wire from connector "B".
(b) Connect the connector to the center airbag sensor assembly.
(c) Interchange the front airbag sensor RH with LH, and connect the connectors to them.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (See page RS-32).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (See page RS-32).

Result

Proceed To	Display (DTC Output)
NG:A	DTC B1148/36 is output.
NG:B	DTC B1149/37 is output.
OK	DTC B1148/36 and B1149/37 are not output.

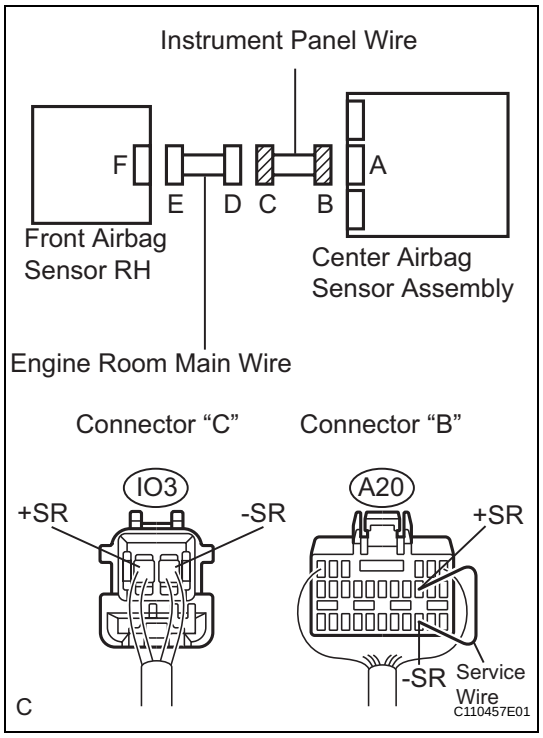
NG:A REPLACE CENTER AIRBAG SENSOR ASSEMBLY

NG:B → REPLACE FRONT AIRBAG SENSOR RH

OK

USE SIMULATION METHOD TO CHECK

5 CHECK INSTRUMENT PANEL WIRE (OPEN)



(a) Disconnect the instrument panel wire connector from the engine room main wire.
HINT:
The service wire has already been inserted into connector "B".

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

Resistance

Tester connection	Condition	Specified condition
IO3-1 (+SR) - IO3-2 (-SR)	Always	Below 1 Ω

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE