

DTC	B1608/84	Front Satellite Sensor Bus LH Initialization Incomplete
DTC	B1617/84	Lost Communication with Front Airbag Sensor LH
DTC	B1618/84	Front Airbag Sensor LH Initialization Incomplete

DESCRIPTION

The front airbag sensor LH consists of parts including the diagnostic circuit and the frontal deceleration sensor.

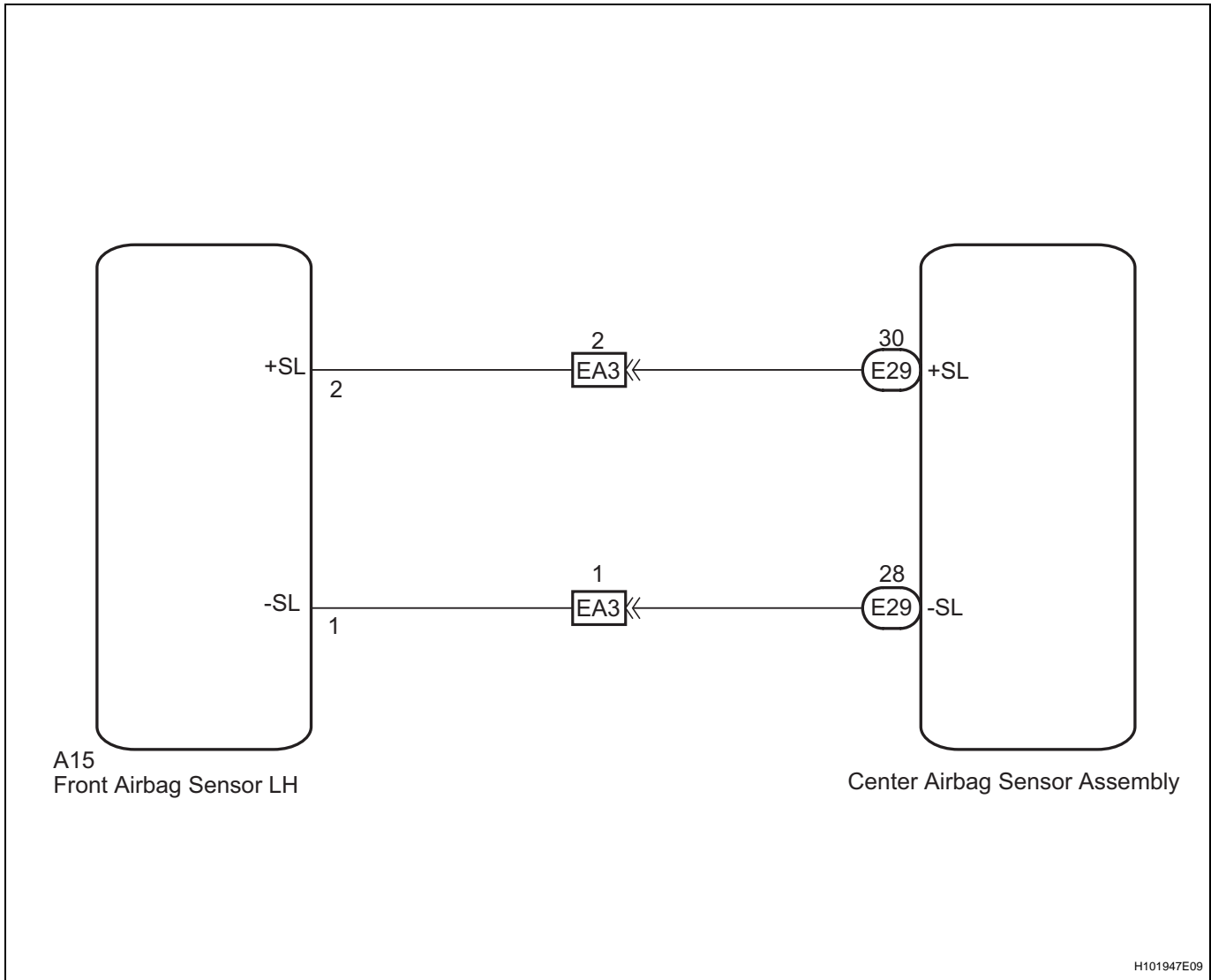
When the center airbag sensor assembly receives signals from the frontal deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1608/84, B1617/84 or B1618/84 is set when a malfunction is detected in the front airbag sensor LH circuit.

RS

DTC No.	DTC Detection Condition	Trouble Area
B1608/84 B1617/84 B1618/84	<ul style="list-style-type: none"> Center airbag sensor assembly detects line short circuit signal, open circuit signal, short circuit to ground signal or short to B+ signal in front airbag sensor LH circuit for 2 seconds. Front airbag sensor LH malfunction Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> Instrument panel wire Engine room main wire Front airbag sensor LH Center airbag sensor assembly

WIRING DIAGRAM



H101947E09

INSPECTION PROCEDURE

NOTICE:

In order to prevent unexpected airbag deployment, disconnect the following connectors before inspecting parts such as wire harnesses, if the application of tester probes to the center airbag sensor assembly connector is necessary.

1. Turn the ignition switch off.
2. Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
3. Disconnect the connector from the center airbag sensor assembly.
4. Disconnect the connectors from the steering pad.
5. Disconnect the connectors from the front passenger airbag assembly.
6. Disconnect the connector from the front seat outer belt assembly LH.
7. Disconnect the connector from the front seat outer belt assembly RH.

HINT:

- Skip the following steps if side airbags and curtain shield airbags are not fitted.
8. Disconnect the connector from the front seat side airbag assembly LH.
 9. Disconnect the connector from the front seat side airbag assembly RH.
 10. Disconnect the connector from the curtain shield airbag assembly LH.
 11. Disconnect the connector from the curtain shield airbag assembly RH.

1	CHECK CONNECTOR (INSTRUMENT PANEL WIRE - CENTER AIRBAG SENSOR ASSEMBLY)
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- (a) Turn the ignition switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the instrument panel wire connector from the center airbag sensor assembly.
- (d) Check the instrument panel wire connector and terminals (on the center airbag sensor assembly side) and check that the connector is properly connected to the center airbag sensor assembly.

Result

Result	Proceed to
No problem.	A
Connector or terminals incorrect.	B
Connector connected improperly.	C

RS

B	REPAIR OR REPLACE INSTRUMENT PANEL WIRE
C	CONNECT CONNECTOR PROPERLY

A

2	CHECK CONNECTOR (ENGINE ROOM MAIN WIRE - FRONT AIRBAG SENSOR LH)
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- (a) Disconnect the engine room main wire connector from the front airbag sensor LH.
- (b) Check the engine room main wire connector and terminals (on the front airbag sensor LH side) and check that the connector is properly connected to the front airbag sensor LH.

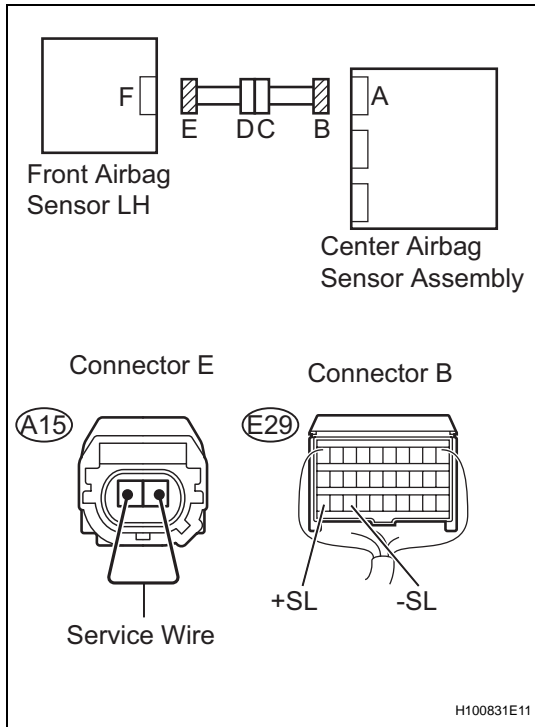
Result

Result	Proceed to
No problem.	A
Connector or terminals incorrect.	B
Connector connected improperly.	C

B	REPAIR OR REPLACE ENGINE ROOM MAIN WIRE
C	CONNECT CONNECTOR PROPERLY

A

3 CHECK FRONT AIRBAG SENSOR LH CIRCUIT



(a) Check for open in the circuit.

- (1) Using a service wire, connect A15-1 and A15-2 of connector E.

NOTICE:

Do not forcibly insert the service wire into the terminals of the connector when connecting.

- (2) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
E29-30 (+SL) - E29-28 (-SL)	Always	Below 1 Ω

(b) Check for short in the circuit.

- (1) Disconnect the service wire from connector E.
- (2) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
E29-30 (+SL) - E29-28 (-SL)	Always	1 M Ω or higher

(c) Check for short to ground in the circuit.

- (1) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
E29-30 (+SL) - Body ground	Always	1 M Ω or higher
E29-28 (-SL) - Body ground	Always	1 M Ω or higher

(d) Check for short to B+ in the circuit.

- (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (2) Turn the ignition switch to the on position.
- (3) Measure the voltage.

Standard voltage

Tester Connection	Condition	Specified Condition
E29-30 (+SL) - Body ground	Ignition switch on	Below 1 V
E29-28 (-SL) - Body ground	Ignition switch on	Below 1 V

- (4) Turn the ignition switch off.

- (5) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

NG → **Go to step 5**

OK

4 CHECK FRONT AIRBAG SENSOR LH

- (a) Connect the connectors to the center airbag sensor assembly.
- (b) Interchange the front airbag sensor LH with the front airbag sensor 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 the memory (See page [RS-36](#)).
- (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 for DTCs (See page [RS-36](#)).

RS

Result

Result	Proceed to
DTC B1608/84, B1617/84 or B1618/84 is output.	A
DTC B1603/83, B1612/83 or B1613/83 is output.	B

B → **REPLACE FRONT AIRBAG SENSOR LH**

A

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

5 CHECK CONNECTOR (ENGINE ROOM MAIN WIRE - INSTRUMENT PANEL WIRE)

- (a) Disconnect the engine room main wire connector from the instrument panel wire.
- (b) Check the engine room main wire connector and terminals (on the instrument panel wire side) and check that the connector is properly connected to the instrument panel wire.

Result

Result	Proceed to
No problem.	A
Connector or terminals incorrect.	B
Connector connected improperly.	C

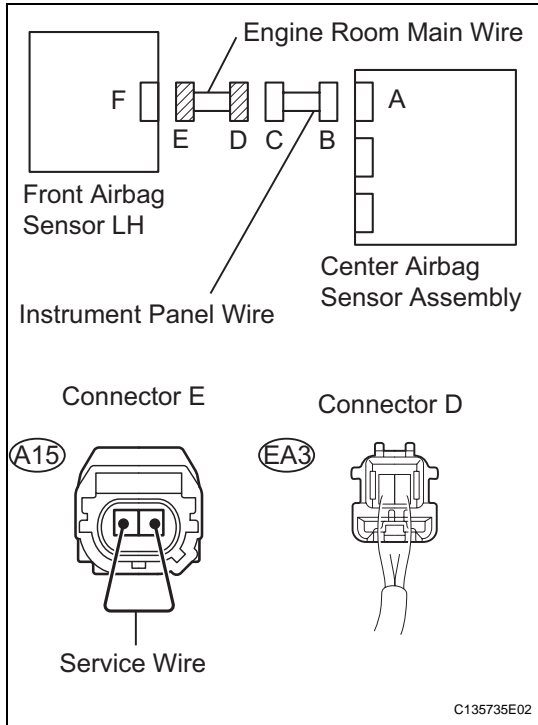
B → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

C

CONNECT CONNECTOR PROPERLY

A

6 CHECK ENGINE ROOM MAIN WIRE



- (a) Check for open in the circuit.
 (1) Using a service wire, connect A15-1 and A15-2 of connector E.

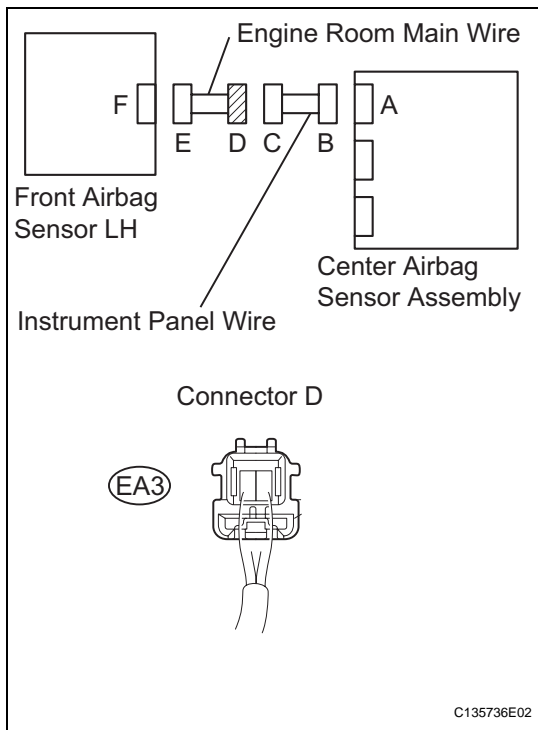
NOTICE:

Do not forcibly insert the service wire into the terminals of the connector when connecting.

- (2) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
EA3-1 - EA3-2	Always	Below 1 Ω



- (b) Check for short in the circuit.
 (1) Disconnect the service wire from connector E.
 (2) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
EA3-1 - EA3-2	Always	1 M Ω or higher

- (c) Check for short to ground in the circuit.
 (1) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
EA3-1 - Body ground	Always	1 M Ω or higher
EA3-2 - Body ground	Always	1 M Ω or higher

- (d) Check for short to B+ in the circuit.
 (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 (2) Turn the ignition switch to the on position.
 (3) Measure the voltage.

Standard voltage

Tester Connection	Condition	Specified Condition
EA3-1 - Body ground	Ignition switch on	Below 1 V
EA3-2 - Body ground	Ignition switch on	Below 1 V

- (4) Turn the ignition switch off.

- (5) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

NG

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE