

DTC	B1149/37	FRONT AIRBAG SENSOR (LH) MALFUNCTION
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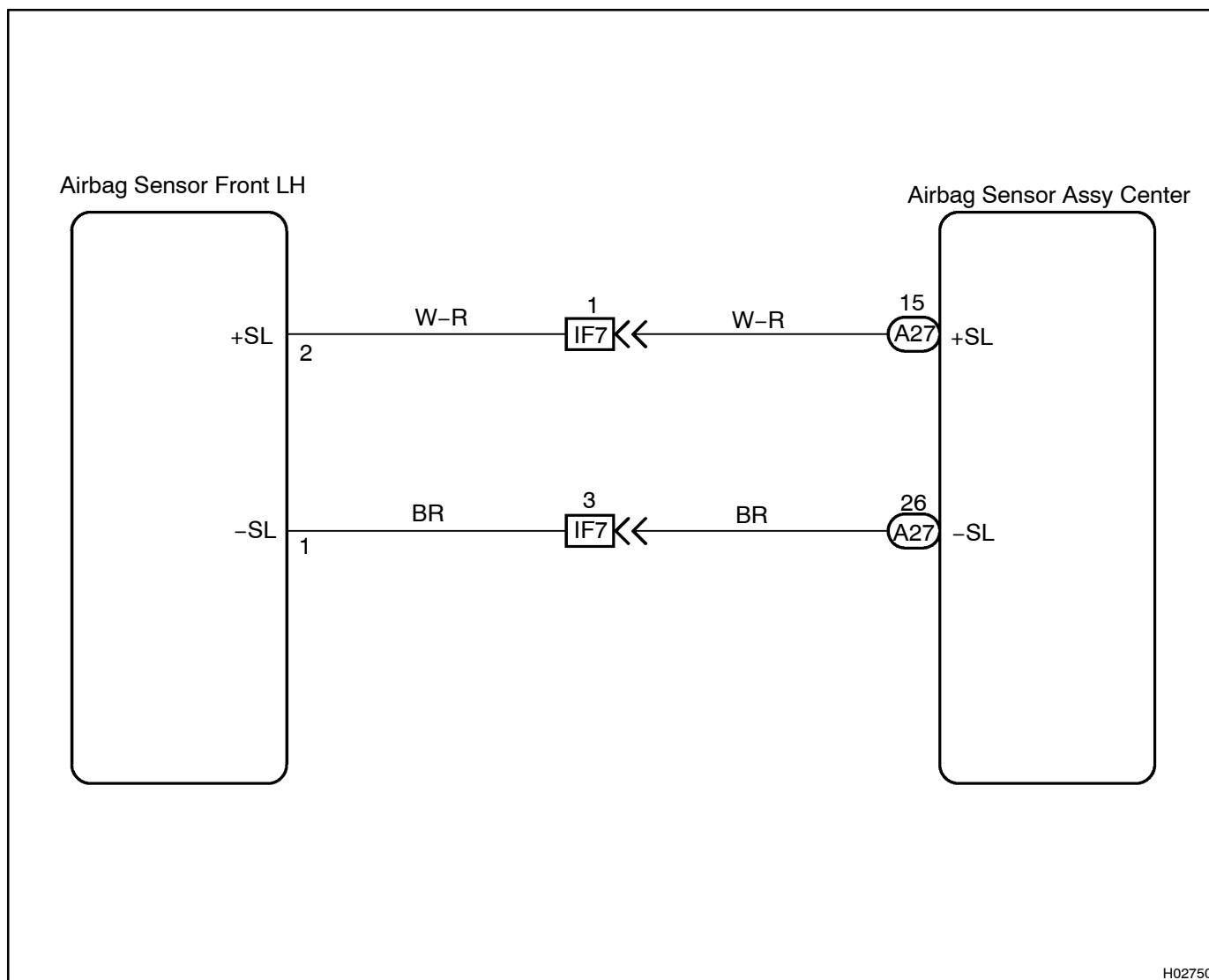
CIRCUIT DESCRIPTION

The airbag sensor front LH circuit consists of the diagnosis circuit and frontal deceleration sensor, etc. If receives signals from the frontal deceleration sensor, judges whether or not the SRS must be activated, and detects diagnosis system malfunction.

DTC B1149/37 is recorded when malfunction is detected in the airbag sensor front LH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1149/37	<ul style="list-style-type: none"> • Short circuit in wire harness of airbag sensor front LH (to ground) • Short circuit in wire harness of airbag sensor front LH (to B+) • Open circuit in wire harness of airbag sensor front LH • Airbag sensor front LH malfunction • Airbag sensor assy center malfunction 	<ul style="list-style-type: none"> • Airbag sensor front LH • Airbag sensor assy center • Instrument panel wire • Engine room main wire harness

WIRING DIAGRAM

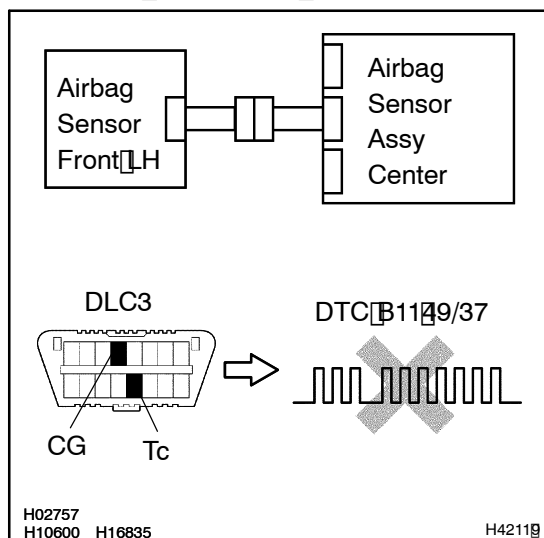


H02750

INSPECTION PROCEDURE

1 CHECK AIR BAG SENSOR FRONT LH

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

OK:**DTC B1149/37 is not output.****HINT:**

Codes other than code B1149/37 may be output at this time, but they are not relevant to this check.

OK**USE SIMULATION METHOD TO CHECK****NG**

2 CHECK AIRBAG SENSOR ASSY CENTER CONNECTOR

- Turn the ignition switch to LOCK.
- Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
- Check that the connector is properly connected to the airbag sensor assy center.

OK:**The connectors are connected.****NG****CONNECT CONNECTORS****OK**

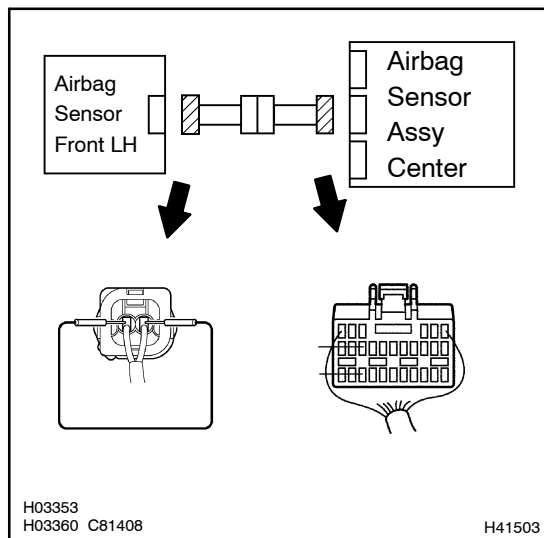
3 CHECK FRONT AIRBAG SENSOR CONNECTOR

- Check that the connector is properly connected to the airbag sensor front LH.

OK:**The connector is connected.****NG****CONNECT CONNECTORS****OK**

4 CHECK FRONT AIRBAG SENSOR (LH) CIRCUIT(OPEN)(AIRBAG SENSOR ASSY CENTER - AIRBAG SENSOR FRONT LH)

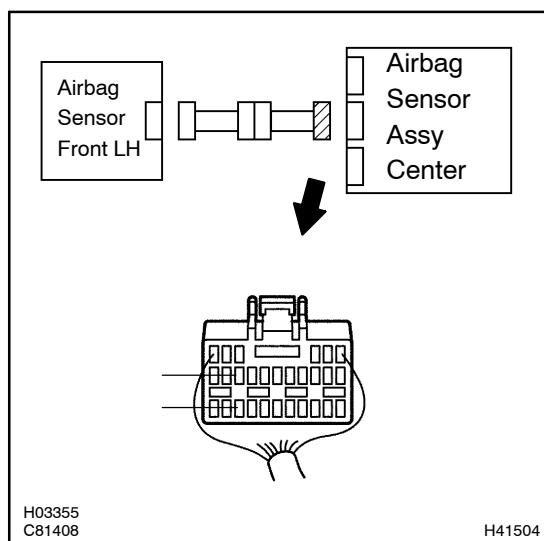
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- Disconnect the connectors between the airbag sensor assy center and the airbag sensor front LH.
- Using a service wire, connect +SL and -SL of the connector (on the airbag sensor front LH side) between the airbag sensor assy center and the airbag sensor front LH.
- For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag sensor front LH, measure the resistance between +SL and -SL.

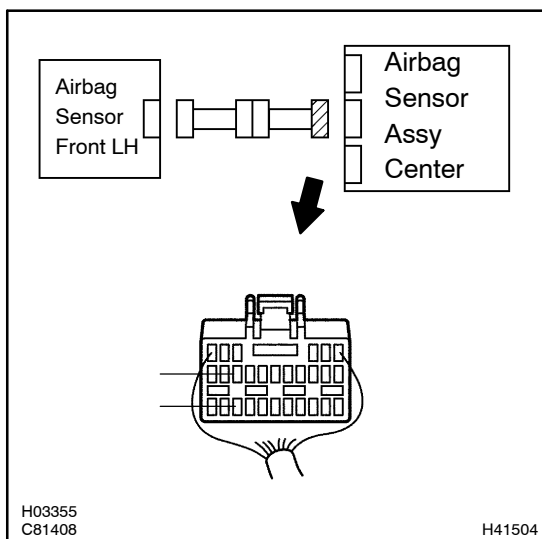
OK:**Resistance: Below 1 Ω** **NG****Go to step 9****OK**

5 CHECK FRONT AIRBAG SENSOR(LH) CIRCUIT(TO GROUND)(AIRBAG SENSOR ASSY CENTER - AIRBAG SENSOR FRONT LH)

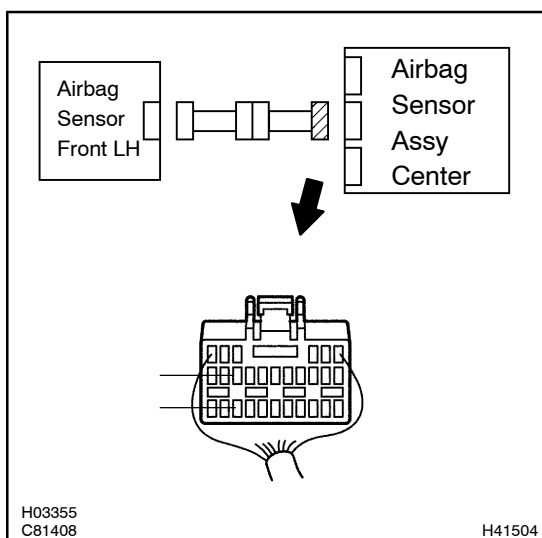


- Disconnect the connection between the +SL and -SL.
- For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag sensor front LH, measure the resistance between body ground and each of +SL and -SL.

OK:**Resistance: 1 M Ω or Higher****NG****Go to step 10****OK**

6 CHECK FRONT AIRBAG SENSOR (LH) CIRCUIT

- (a) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag sensor front LH, measure the resistance between terminals +SL and -SL.

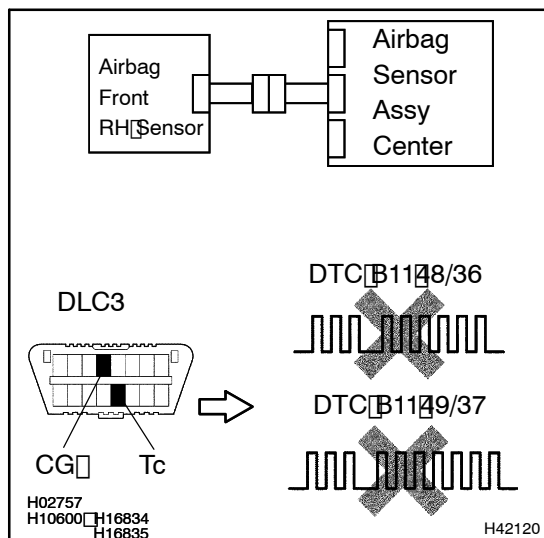
OK:**Resistance: 1 MΩ or Higher****NG****Go to step 11****OK****7 CHECK FRONT AIRBAG SENSOR (LH) CIRCUIT (TO B+)(AIRBAG SENSOR ASSY CENTER - AIRBAG SENSOR FRONT LH)**

- (a) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
- (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 front LH, measure the voltage between body ground and each of +SL and -SL.

OK:**Voltage: Below 1 V****NG****Go to step 12****OK**

8 CHECK AIR BAG SENSOR FRONT LH

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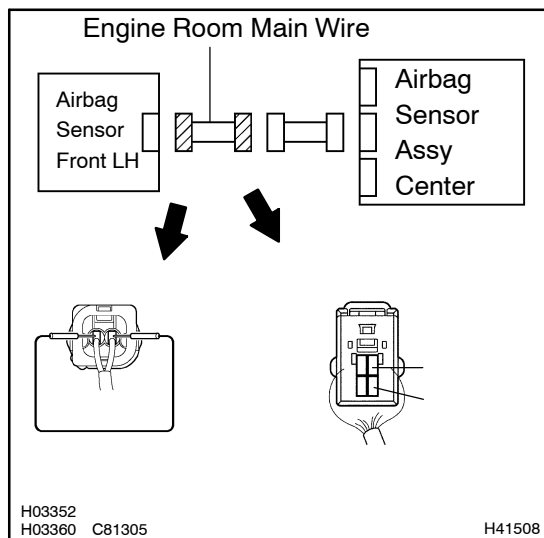


- Turn the ignition switch to LOCK.
- Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
- Connect the airbag sensor Assy center connector.
- Interchange the airbag front sensor RH and LH and connect the connectors to them.
- Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
- Turn the ignition switch to ON, and wait at least for 20 seconds.
- Clear the DTC stored in memory (See page 05-758).
- Turn the ignition switch to LOCK, and wait at least for 20 seconds.
- Turn the ignition switch to ON, and wait at least for 20 seconds.
- Check the DTC (See page 05-758).

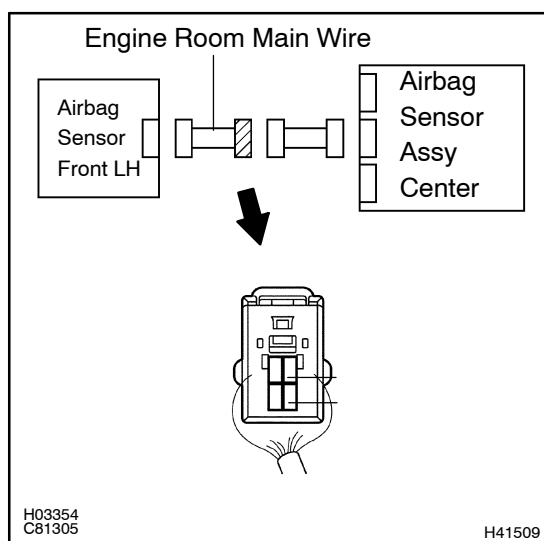
OK:**(A): DTC B1148/36 is not output.****(B): DTC B1149/37 is not output.**
NG(A) > REPLACE AIR BAG SENSOR FRONT LH
NG(B) > REPLACE AIR BAG SENSOR ASSY CENTER
OK
USE SIMULATION METHOD TO CHECK

9 CHECK ENGINE ROOM MAIN WIRE HARNESS(OPEN)

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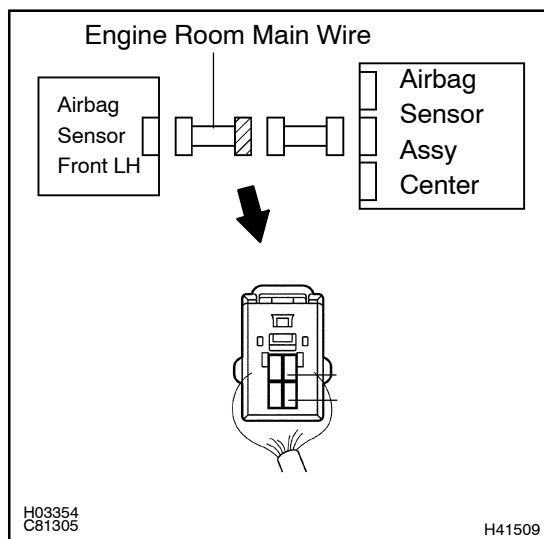


- Disconnect the connector between the engine room main wire and the instrument panel wire.
- For the engine room main wire connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag sensor front LH, measure the resistance between +SL and -SL.

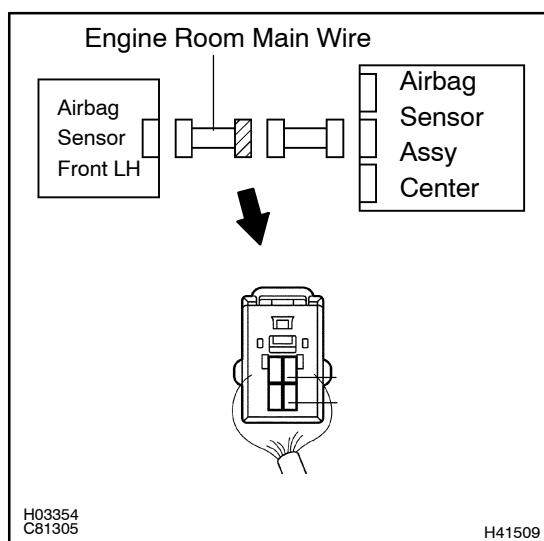
Resistance: Below 1 Ω **NG****REPAIR OR REPLACE ENGINE ROOM MAIN WIRE****OK****REPAIR OR REPLACE INSTRUMENT PANEL WIRE****10 CHECK ENGINE ROOM MAIN WIRE HARNESS (TO GROUND)**

- Disconnect the connector between the engine room main wire and the instrument panel wire.
- For the engine room main wire connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag sensor front LH, measure the resistance between body ground and each of +SL and -SL.

OK:**Resistance: 1 M Ω or Higher****NG****REPAIR OR REPLACE ENGINE ROOM MAIN WIRE****OK****REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

11 CHECK ENGINE ROOM MAIN WIRE HARNESS

- (a) For the engine room main wire connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag sensor front LH, measure the resistance between +SL and -SL.

OK:**Resistance: 1 MΩ or Higher****NG****REPAIR OR REPLACE ENGINE ROOM MAIN WIRE****OK****REPAIR OR REPLACE INSTRUMENT PANEL WIRE****12 CHECK ENGINE ROOM MAIN WIRE HARNESS (TO B+)**

- (a) Turn the ignition switch to LOCK.
 (b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
 (c) Disconnect the connector between the engine room main wire and the instrument panel wire.
 (d) Connect the negative (-) terminal to the battery.
 (e) Turn the ignition switch to ON.
 (f) For the engine room main wire connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag sensor front LH, measure the voltage between body ground and each of +SL and -SL.

OK:**Voltage: Below 1 V****NG****REPAIR OR REPLACE ENGINE ROOM MAIN WIRE****OK****REPAIR OR REPLACE INSTRUMENT PANEL WIRE**