

DTC	B1158/16	Front Airbag Sensor LH Malfunction
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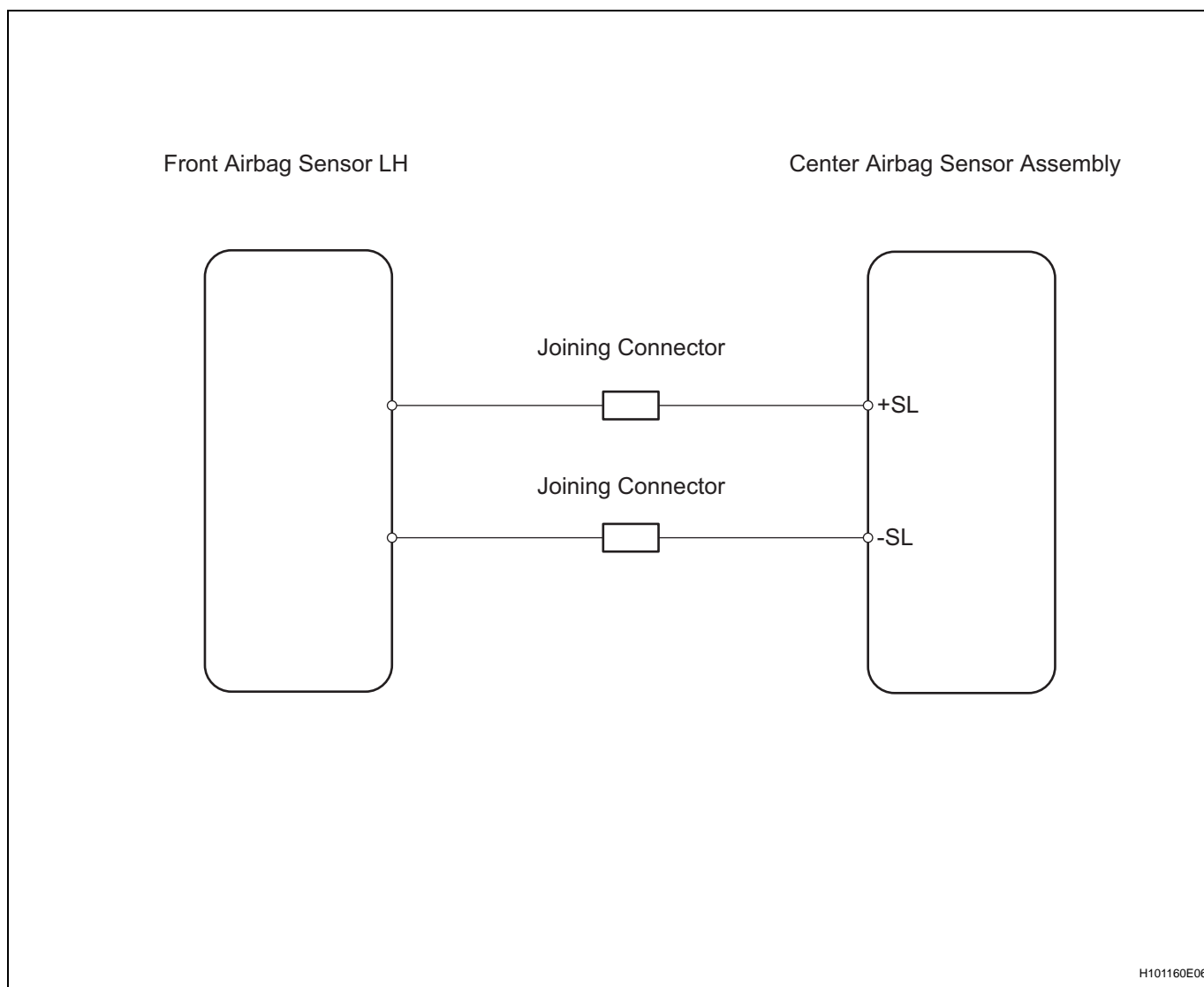
RS

DESCRIPTION

The front airbag sensor LH circuit consists of the center airbag sensor assembly and the front airbag sensor LH.
DTC B1158/16 or B1159/16 is recorded when malfunction is detected in the front airbag sensor LH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1158/16 B1159/16	<ul style="list-style-type: none">• Short circuit in front airbag sensor LH wire harness (to B+)• Short circuit in front airbag sensor LH wire harness (to ground)• Short circuit between SL+ wire harness and -SL wire harness of front airbag sensor LH• Open circuit in +SL wire harness or -SL wire harness of front airbag sensor LH• Front airbag sensor LH malfunction• Center airbag sensor assembly	<ul style="list-style-type: none">• Front airbag sensor LH• Center airbag sensor assembly• Instrument panel wire• Engine room main wire

WIRING DIAGRAM

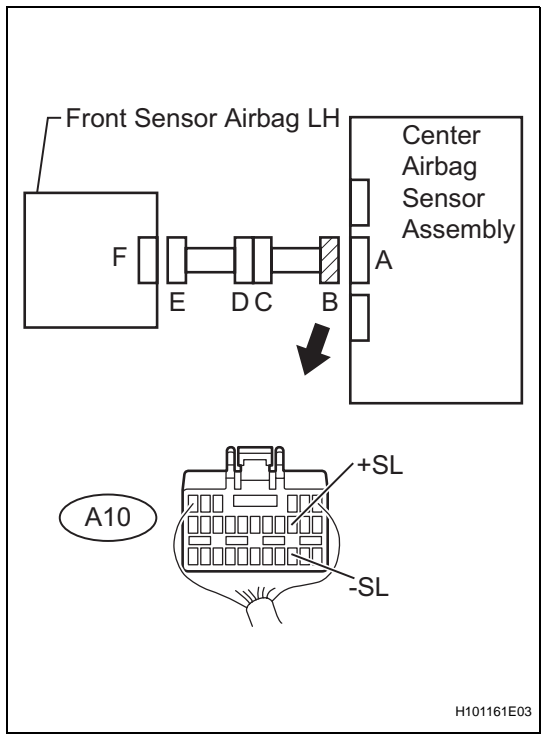


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1**CHECK FRONT AIRBAG SENSOR LH CIRCUIT (TO +B) (CENTER AIRBAG SENSOR ASSEMBLY - FRONT AIRBAG SENSOR LH)**

- (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) Disconnect the connectors between the center airbag sensor assembly and the front airbag sensor LH.
- (d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.

RS



OK

(e) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection (Connector "B")	Condition	Specified Condition
A10-15 (+SL) - Body ground	Ignition switch ON	Below 1 V
A10-26 (-SL) - Body ground		

NG Go to step 7

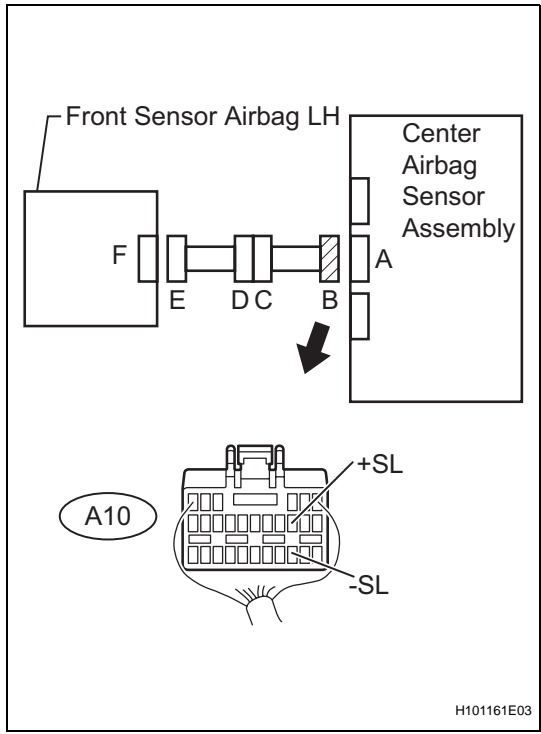
2 CHECK FRONT AIRBAG SENSOR LH CIRCUIT (TO GROUND) (CENTER AIRBAG SENSOR ASSEMBLY - FRONT AIRBAG SENSOR LH)

- (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.

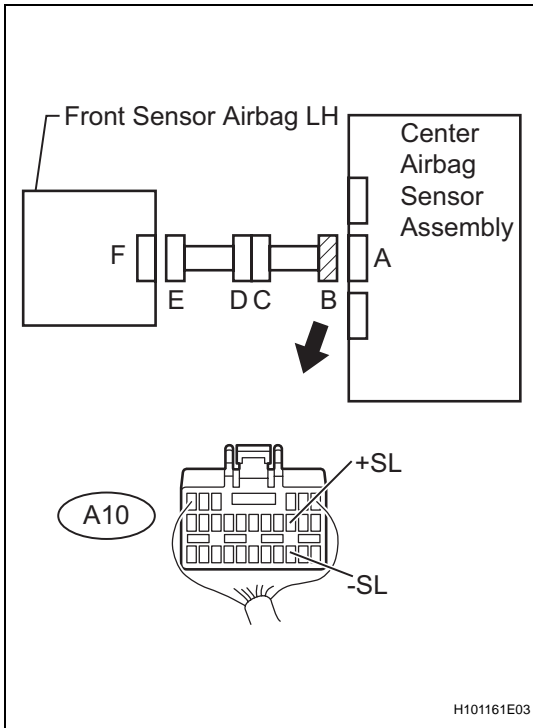
Standard resistance

Tester Connection (Connector "B")	Specified Condition
A10-15 (+SL) - Body ground	1 MΩ or higher
A10-26 (-SL) - Body ground	

NG Go to step 8



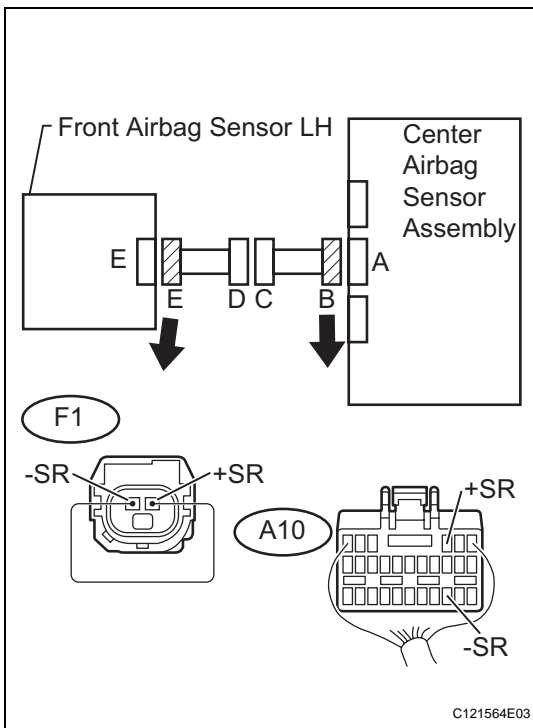
OK

3**CHECK FRONT AIRBAG SENSOR LH CIRCUIT (SHORT) (CENTER AIRBAG SENSOR ASSEMBLY - FRONT AIRBAG SENSOR LH)**

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

Standard resistance

Tester Connection (Connector "B")	Specified Condition
A10-15 (+SL) - A10-26 (-SL)	1 M Ω or higher

NG**Go to step 9****OK****4****CHECK FRONT AIRBAG SENSOR LH CIRCUIT (OPEN) (CENTER AIRBAG SENSOR ASSEMBLY - FRONT AIRBAG SENSOR LH)**

- (a) Using a service wire, connect terminals +SL and -SL of connector "E".

NOTICE:

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

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

Standard resistance

Tester Connection (Connector "B")	Specified Condition
A10-15 (+SL) - A10-26 (-SL)	1 M Ω or higher

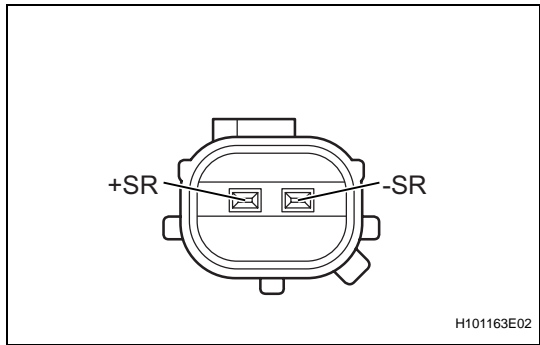
NG**Go to step 10****RS**

OK

5

INSPECT FRONT AIRBAG SENSOR LH

RS



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

Tester Connection (Connector "B")	Specified Condition
+SL - -SL	738 to 902 Ω

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REPLACE FRONT AIRBAG SENSOR LH

OK

6

CHECK CENTER AIRBAG SENSOR ASSEMBLY

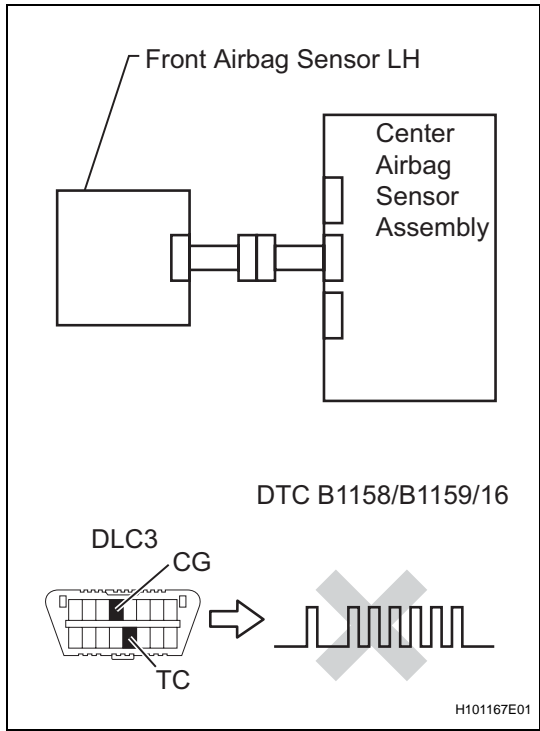
- (a) Connect the connectors to the front airbag sensor LH and the center airbag sensor assembly.
- (b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (d) Clear the DTCs stored in the memory (see page RS-21).
- (e) Turn the ignition switch to the LOCK position.
- (f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (g) Check for the DTCs (see page RS-21).

OK:

DTC B1158/16 or B1159/16 is not output.

HINT:

Codes other than code B1158/16 or B1159/16 may be output at this time, but they are not related to this check.



NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

PROBLEM SYMPTOMS SIMULATION

7

CHECK ENGINE ROOM MAIN WIRE HARNESS (TO B+) (CONNECTOR - FRONT AIRBAG SENSOR LH)

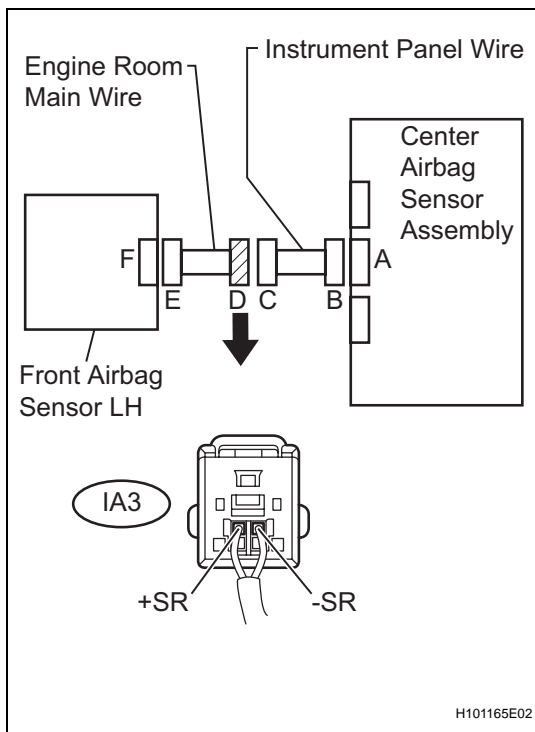
- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the engine room main wire connector from the instrument panel wire.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection (Connector "D")	Specified Condition
IA3-4 (+SL) - Body ground	Below 1 V
IA3-3 (-SL) - Body ground	

NG

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE



OK

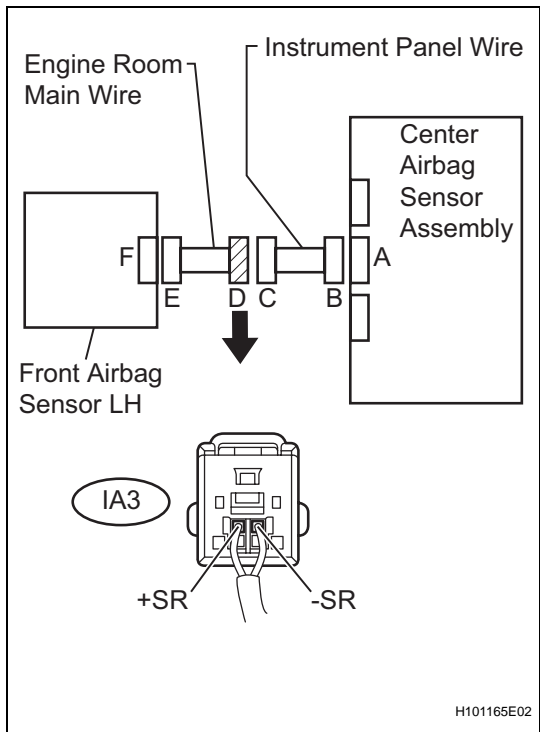
REPAIR OR REPLACE INSTRUMENT PANEL WIRE

8

CHECK ENGINE ROOM MAIN WIRE HARNESS (TO GROUND) (CONNECTOR - FRONT AIRBAG SENSOR LH)

- Disconnect the engine room main wire connector from the instrument panel wire.

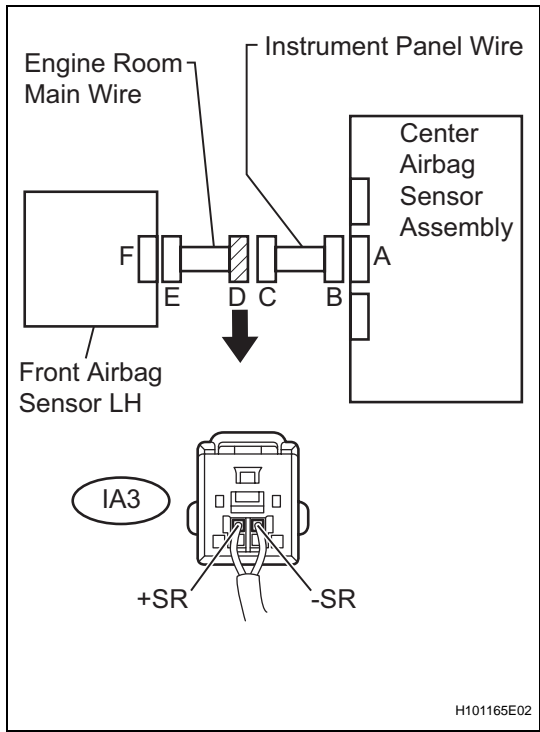
RS



OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

9 CHECK ENGINE ROOM MAIN WIRE HARNESS (SHORT) (CONNECTOR - FRONT AIRBAG SENSOR LH)



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

Standard resistance

Tester Connection (Connector "D")	Specified Condition
IA3-4 (+SL) - Body ground	1 MΩ or higher
IA3-3 (-SL) - Body ground	

NG REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

(a) Disconnect the engine room main wire connector from the instrument panel wire.

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

Standard resistance

Tester Connection (Connector "D")	Specified Condition
IA3-4 (+SL) - IA3-3 (-SL)	1 MΩ or higher

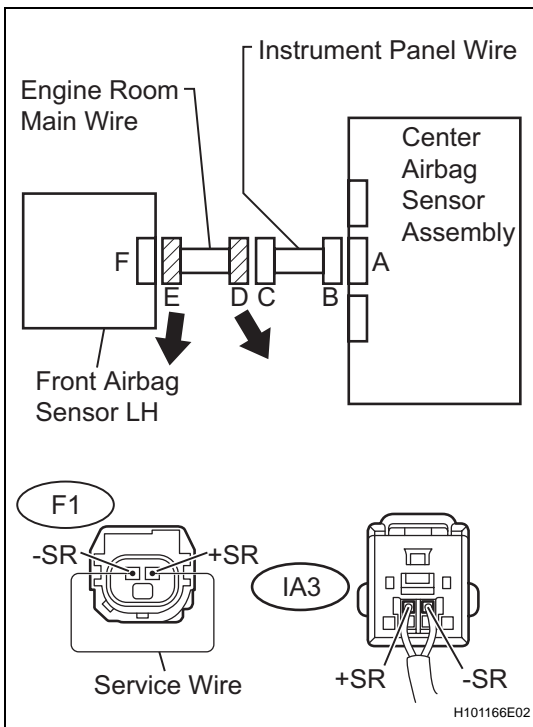
NG REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

10

CHECK ENGINE ROOM MAIN WIRE HARNESS (OPEN) (CONNECTOR - FRONT AIRBAG SENSOR LH)



- (a) Disconnect the engine room main wire connector from the instrument panel wire.

HINT:

Terminal +SL and -SL of connector "E" have already been connected each other using the service wire.

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

Standard resistance

Tester Connection (Connector "D")	Specified Condition
IA3-4 (+SL) - IA3-3 (-SL)	Below 1 Ω

NG

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE