

**DTC****B1100/31****Center Airbag Sensor Assembly Malfunction****DESCRIPTION**

The center airbag sensor assembly consists of the airbag sensor, the safing sensor, the driver circuit, the diagnosis circuit and the ignition control circuit.

If the center airbag sensor assembly receives signals from the other airbag sensors, it judges whether or not the SRS should be activated.

DTC B1100/31 is recorded when a malfunction in the center airbag sensor assembly is detected.

DTC No.	DTC Detection Condition	Trouble Area
B1100/31	Center airbag sensor assembly malfunction	Center airbag sensor assembly

**HINT:**

When a malfunction code other than code B1100/31 is displayed at the same time, first repair the malfunction indicated by the malfunction code other than code B1100/31.

**1****CHECK CENTER AIRBAG SENSOR ASSEMBLY**

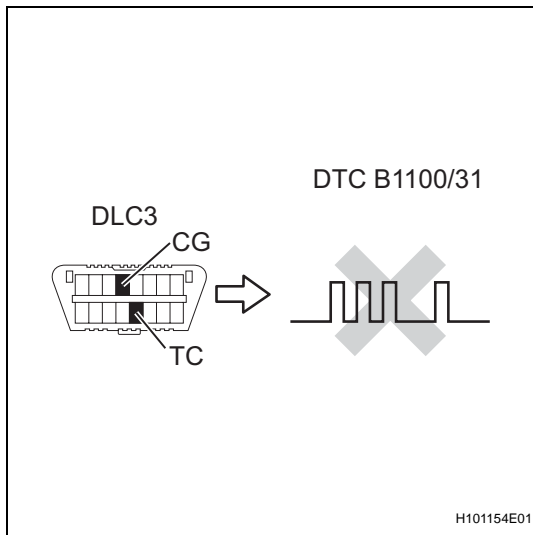
- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Connect the connectors to the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the stored DTCs in the memory (see page RS-21).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check for the DTCs (see page RS-21).

**OK:**

**DTC B1100/31 is not output.**

**HINT:**

Codes other than code B1100/31 may be output at this time, but they are not related to this check.

**NG****REPLACE CENTER AIRBAG SENSOR ASSEMBLY****OK****END**

DTC	B1153/25	Seat Position Airbag Sensor Circuit Malfunction
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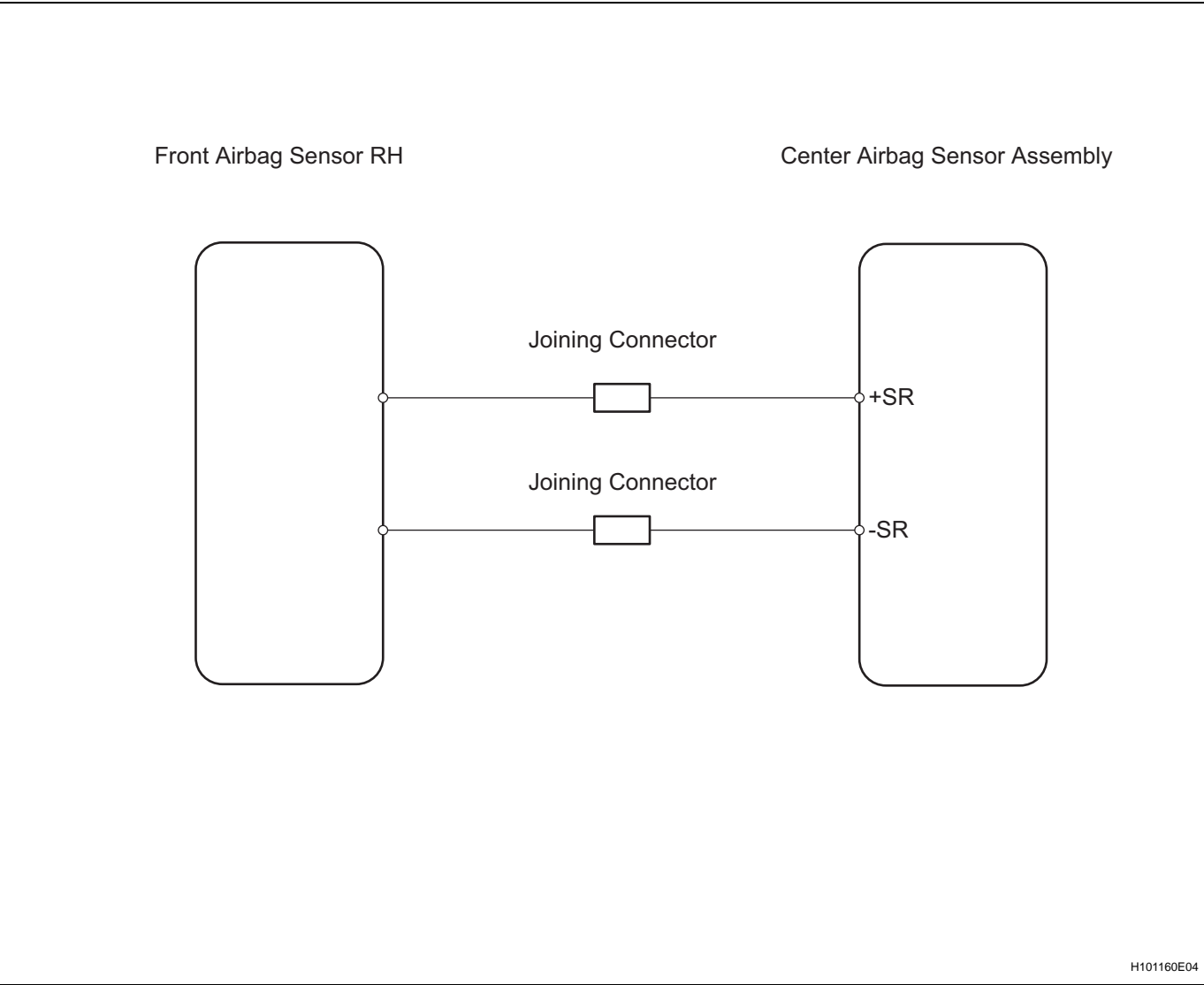
DESCRIPTION

RS

The seat position sensor circuit consists of the center airbag sensor assembly and the seat position sensor.  
DTC B1153/25 is recorded when a malfunction is detected in the seat position sensor circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1153/25	<ul style="list-style-type: none"><li>• Open circuit in LSP+ wire harness or LSP- wire harness of seat position sensor</li><li>• Short circuit in seat position wire harness (to ground)</li><li>• Short circuit in seat position sensor wire harness (+B)</li><li>• Seat position sensor malfunction</li><li>• Center airbag sensor assembly</li></ul>	<ul style="list-style-type: none"><li>• Seat position sensor</li><li>• Center airbag sensor assembly</li><li>• Floor wire</li><li>• Front seat inner belt assembly LH</li></ul>

WIRING DIAGRAM



# 1 CHECK SEAT POSITION SENSOR

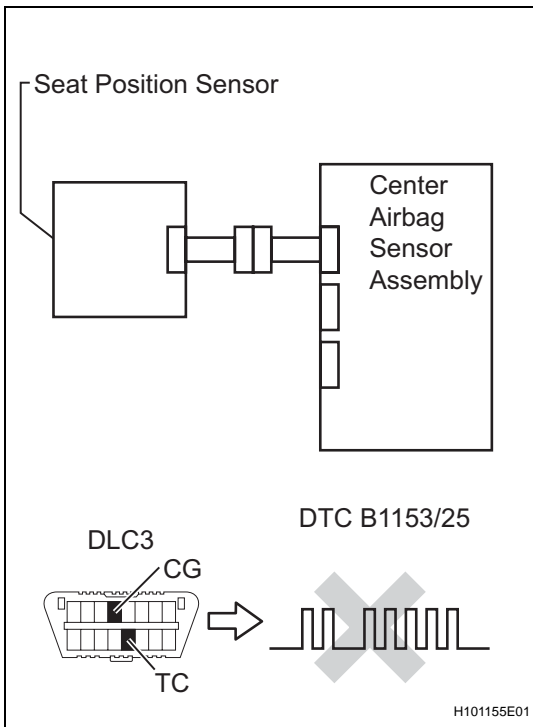
- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (e) Clear the stored DTCs in the memory (see page RS-21).
- (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 the DTCs (see page RS-21).

**OK:**

**DTC B1153/25 is not output.**

**HINT:**

Codes other than code B1153 may be output at this time, but they are not related to this check.



**OK**

**PROBLEM SYMPTOMS SIMULATION**

**NG**

# 2 CHECK CENTER AIRBAG SENSOR ASSEMBLY

- (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 connector is properly connected to the center airbag sensor assembly.

**OK:**

**Connector is connected.**

**NG**

**CONNECT CONNECTORS**

**OK**

3

CHECK SEAT POSITION SENSOR

- (a) Check that the connector is properly connected to the seat position sensor.

OK:  
Connector is connected.

NG

CONNECT CONNECTORS

OK

4

CHECK SEAT POSITION SENSOR CIRCUIT (OPEN) (CENTER AIRBAG SENSOR ASSEMBLY - SEAT POSITION SENSOR)

- (a) Disconnect the connectors from the center airbag sensor assembly and the seat position sensor.
- (b) Using SST, connect one terminal to the other of connector "E".

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NOTICE:  
Do not forcibly insert SST into the terminals of the connector when connecting.

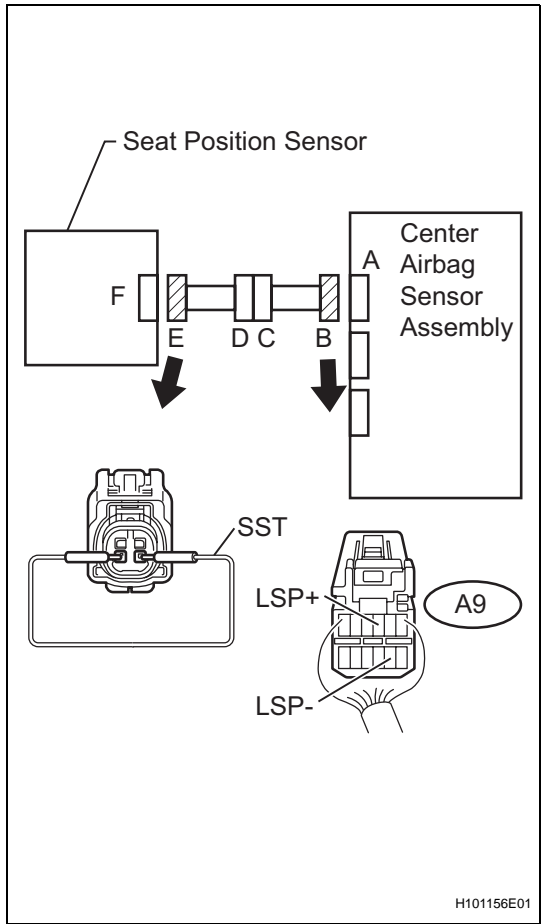
- (c) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connector (Connector "B")	Specified Condition
A9-3 (LSP+) - A9-8 (LSP-)	Below 1 Ω

NG

Go to step 11

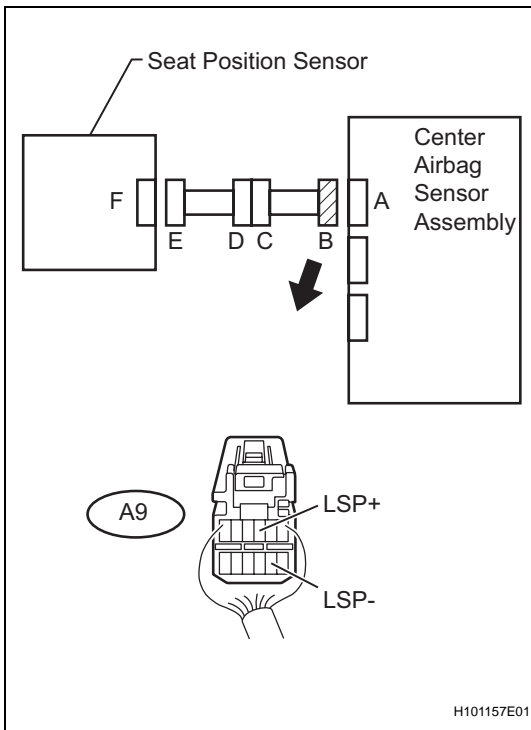


OK

5

CHECK SEAT POSITION SENSOR CIRCUIT (TO GROUND) (CENTER AIRBAG SENSOR ASSEMBLY - SEAT POSITION SENSOR)

- (a) Disconnect the SST from the connector "E".



OK

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

**Standard resistance**

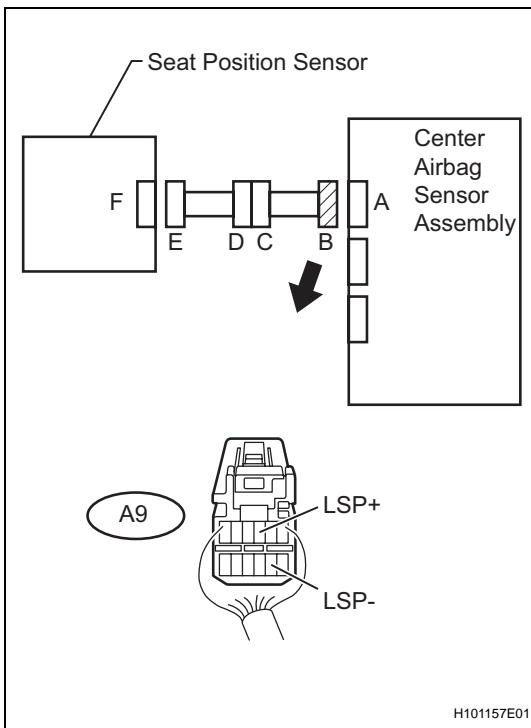
Tester Connection (Connector "B")	Specified Condition
A9-3 (LSP+) - Body ground	1 M $\Omega$ or higher
A9-8 (LSP-) - Body ground	

NG

Go to step 12

RS

6

**CHECK SEAT POSITION SENSOR CIRCUIT (CENTER AIRBAG SENSOR ASSEMBLY - SEAT POSITION SENSOR)**

OK

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

**Standard resistance**

Tester Connection (Connector "B")	Specified Condition
A9-3 (LSP+) - A9-8 (LSP-)	1 M $\Omega$ or higher

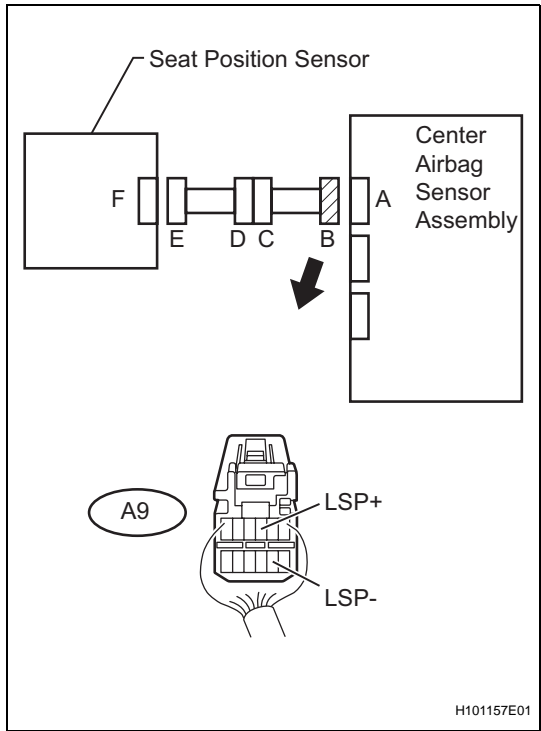
NG

Go to step 13

7

CHECK SEAT POSITION SENSOR CIRCUIT (TO +B) (CENTER AIRBAG SENSOR ASSEMBLY - SEAT POSITION SENSOR)

RS



OK

- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (b) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection (Connector "B")	Condition	Specified Condition
A9-3 (LSP+) - Body ground	Ignition switch ON	Below 1 V
A9-8 (LSP-) - Body ground		

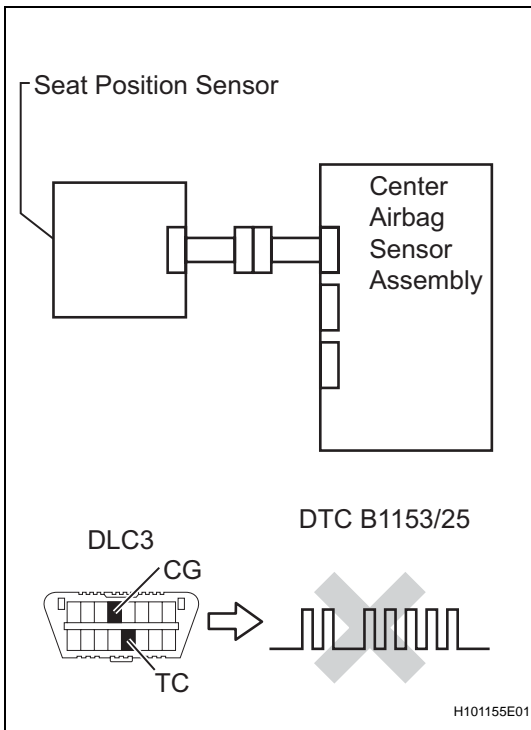
NG

Go to step 14

8

CHECK SEAT POSITION SENSOR

- (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) Connect the connectors to the seat position sensor and the center airbag sensor assembly.
- (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 stored DTCs in the memory (see page RS-21).
- (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 for the DTCs (see page [RS-21](#)).

**OK:**

**DTC B1153/25 is not output.**

**HINT:**

Codes other than code B1153/23 may be output at this time, but they are not related to this check.

**NG**

**Go to step 9**

**RS**

**OK**

## PROBLEM SYMPTOMS SIMULATION

**9**

### REPLACE SEAT POSITION SENSOR

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Replace the seat position sensor (see page [RS-217](#)).

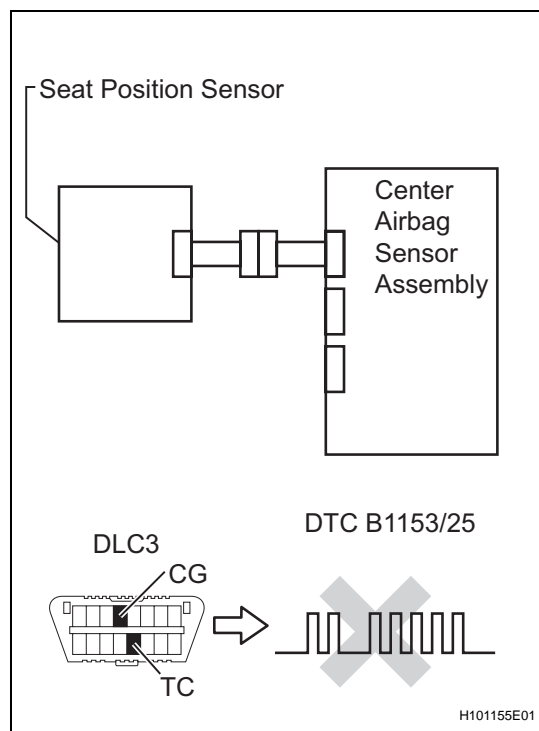
**NEXT**

**10**

### CHECK CENTER AIRBAG SENSOR ASSEMBLY

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the stored DTCs in the memory (see page [RS-21](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.

RS



- (f) Check for the DTCs (see page [RS-21](#)).

**OK:**

**DTC B1153/25 is not output.**

**HINT:**

Codes other than code B1153/25 may be output at this time, but they are not related to this check.

**NG**

**REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

**OK**

**END**

**11**

**CHECK WIRE HARNESS (SEAT POSITION SENSOR - FRONT SEAT INNER BELT ASSEMBLY LH)**

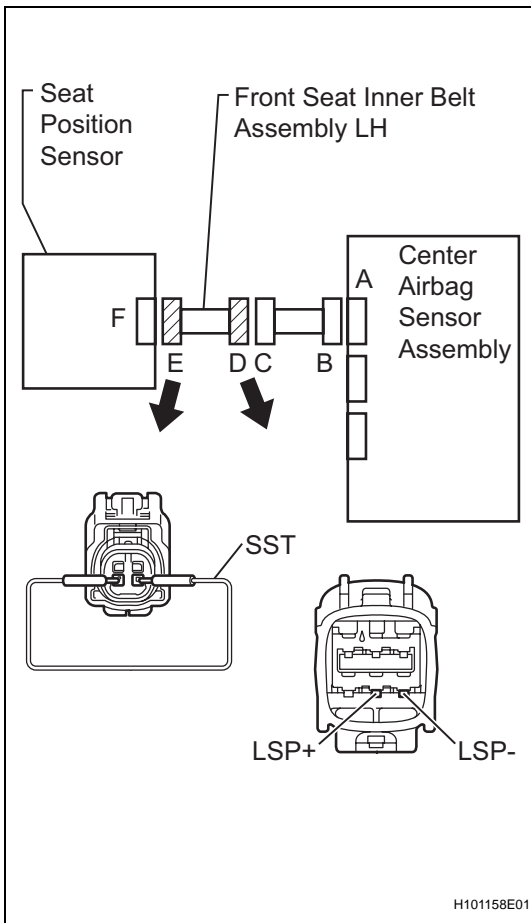
- (a) Disconnect the front seat inner belt assembly LH connector from the floor wire.

**HINT:**

The two terminals of connector "E" have already been connected with each other using SST.

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

#### Standard resistance

Tester Connection (Connector "D")	Specified Condition
LSP+ - LSP-	Below 1 $\Omega$

NG

**REPAIR OR REPLACE HARNESS AND CONNECTOR (SEAT POSITION SENSOR - FRONT SEAT INNER BELT ASSEMBLY LH)**

RS

OK

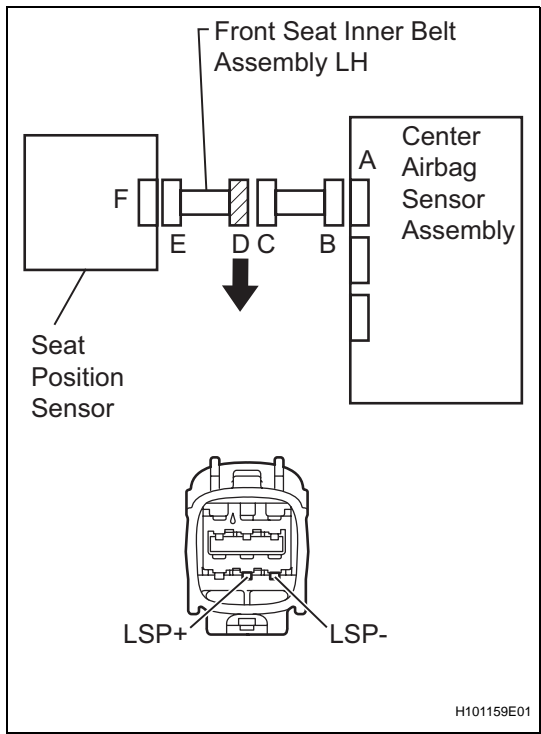
**REPAIR OR REPLACE FLOOR WIRE (CENTER AIRBAG SENSOR ASSEMBLY - FRONT SEAT INNER BELT ASSEMBLY LH)**

12

**CHECK WIRE HARNESS (SEAT POSITION SENSOR - FRONT SEAT INNER BELT ASSEMBLY LH)**

- (a) Disconnect the front seat inner belt assembly LH connector from the floor wire.

RS



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

**Standard resistance**

Tester Connection (Connector "D")	Specified Condition
LSP+ - Body ground	1 MΩ or higher
LSP- - Body ground	

NG

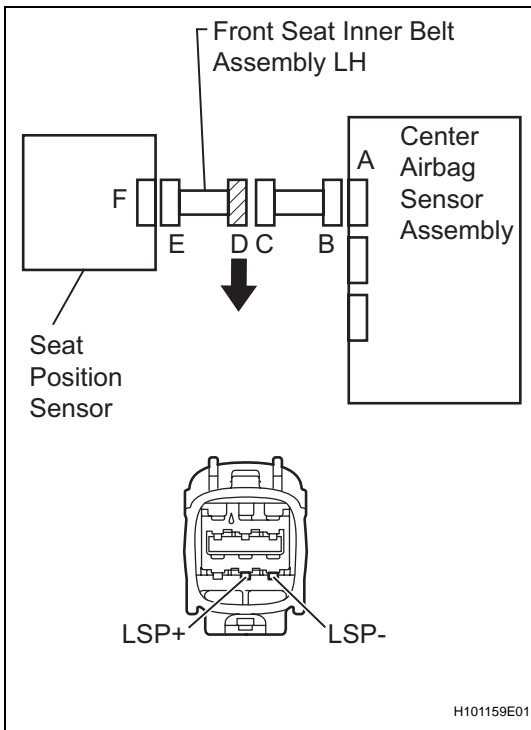
**REPAIR OR REPLACE HARNESS AND CONNECTOR (SEAT POSITION SENSOR - FRONT SEAT INNER BELT ASSEMBLY LH)**

OK

**REPAIR OR REPLACE FLOOR WIRE (CENTER AIRBAG SENSOR ASSEMBLY - FRONT SEAT INNER BELT ASSEMBLY LH)**

**13 CHECK WIRE HARNESS (SEAT POSITION SENSOR - FRONT SEAT INNER BELT ASSEMBLY LH)**

(a) Disconnect the front seat inner belt assembly LH connector from the floor wire.



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

**Standard resistance**

Tester Connection (Connector "D")	Specified Condition
LSP+ - LSP-	1 MΩ or higher

**NG**

**REPAIR OR REPLACE HARNESS AND CONNECTOR (SEAT POSITION SENSOR - FRONT SEAT INNER BELT ASSEMBLY LH)**

**RS**

**OK**

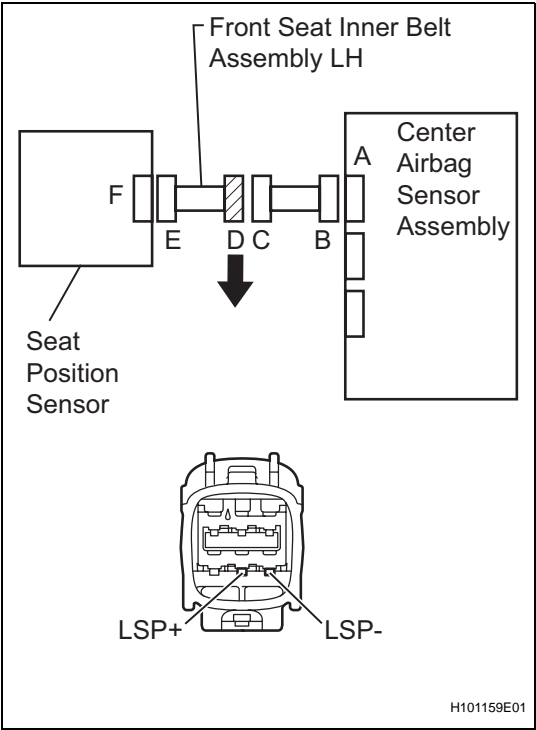
**REPAIR OR REPLACE FLOOR WIRE (CENTER AIRBAG SENSOR ASSEMBLY - FRONT SEAT INNER BELT ASSEMBLY LH)**

**14**

**CHECK WIRE HARNESS (SEAT POSITION SENSOR - FRONT SEAT INNER BELT ASSEMBLY 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 front seat wire connector on the center airbag sensor assembly side.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.

RS



OK

REPAIR OR REPLACE FLOOR WIRE (CENTER AIRBAG SENSOR ASSEMBLY - FRONT SEAT INNER BELT ASSEMBLY LH)

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

Standard voltage

Tester Connection (Connector "D")	Condition	Specified Condition
LSP+ - Body ground	Ignition switch ON	Below 1 V
LSP- - Body ground		

NG REPAIR OR REPLACE HARNESS AND CONNECTOR (SEAT POSITION SENSOR - FRONT SEAT INNER BELT ASSEMBLY LH)