

DTC	B1153/25	Seat Position Airbag Sensor Circuit Malfunction
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DESCRIPTION

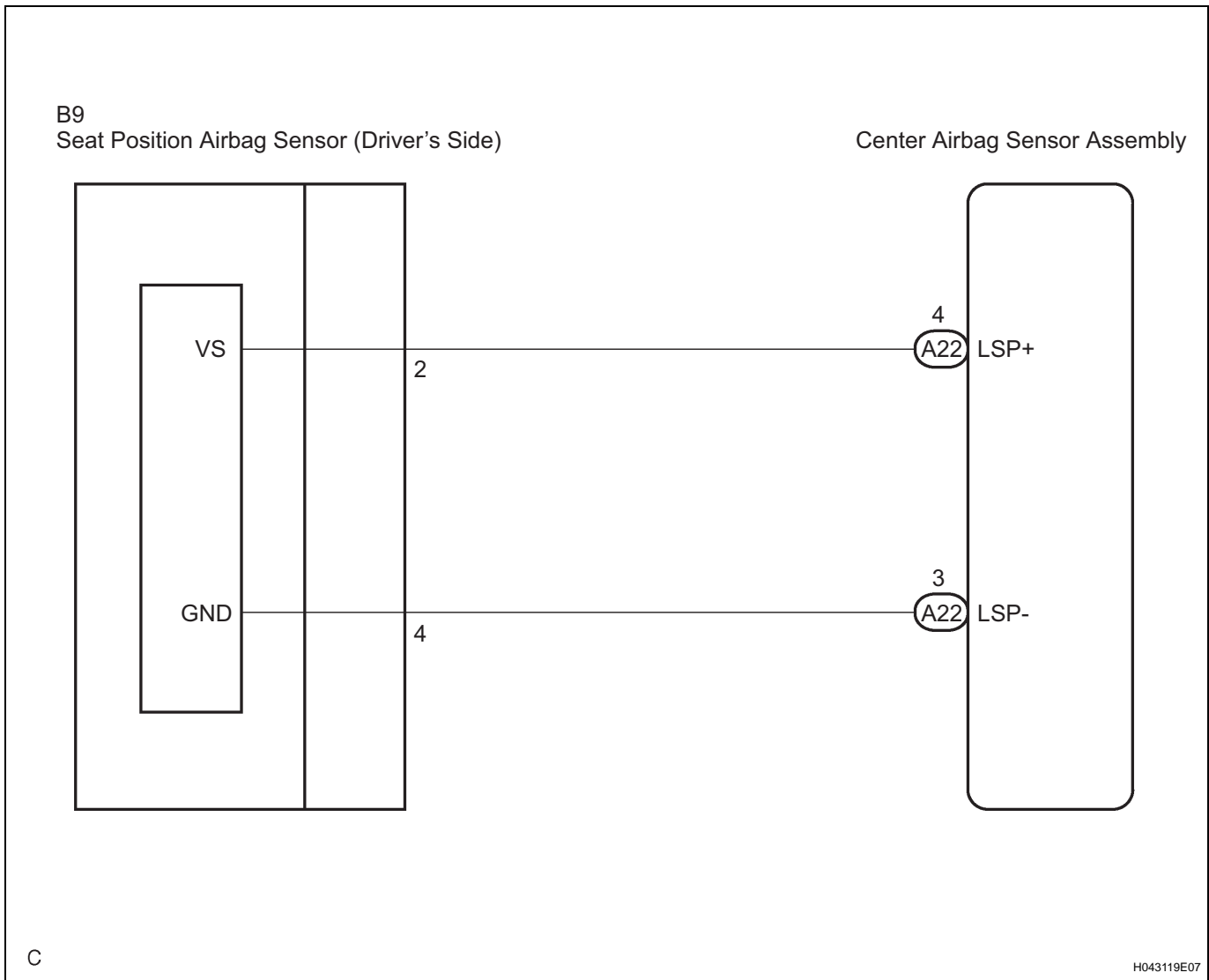
The seat position airbag sensor circuit consists of the center airbag sensor assembly and the seat position airbag sensor.

DTC B1153/25 is recorded when a malfunction is detected in the seat position airbag sensor circuit.

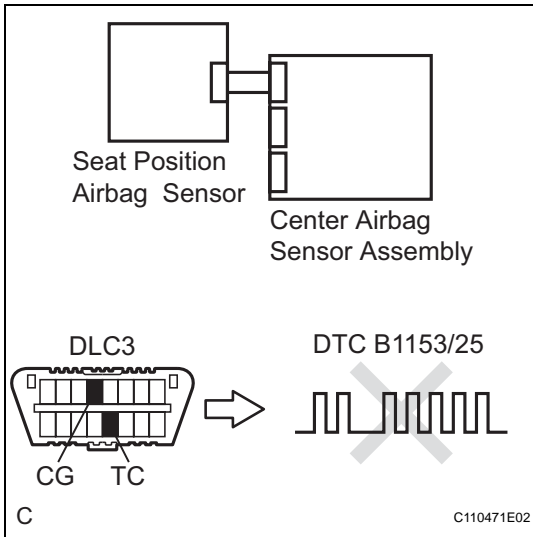
DTC No.	DTC Detecting Condition	Trouble Area
B1153/25	<ul style="list-style-type: none"> • Open circuit in LSP+ wire harness or LSP- wire harness of seat position sensor • Short circuit in seat position sensor wire harness (to ground) • Short circuit in seat position sensor wire harness (to B+) • Seat position airbag sensor malfunction • Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> • Seat position airbag sensor • Center airbag sensor assembly • Floor wire No.2

RS

WIRING DIAGRAM



1 CHECK DTC



- (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 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 →

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 seat position airbag sensor.

OK:

The connectors are connected.

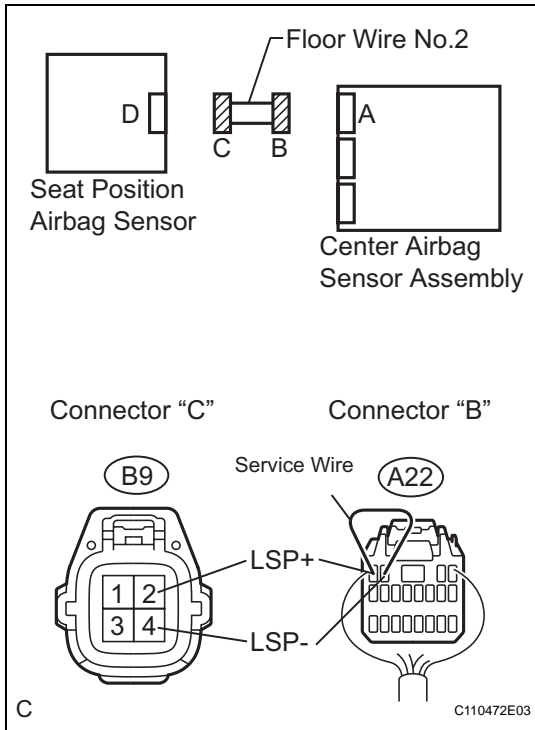
NG →

CONNECT CONNECTORS, THEN GO TO STEP 1

OK

RS

3 CHECK FLOOR WIRE NO.2 (OPEN)



- (a) Disconnect the connectors from the center airbag sensor assembly and the seat position airbag sensor.
- (b) Using a service wire, connect A22-4 (LSP+) and A22-3 (LSP-) of connector "B".
HINT:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
- (c) Measure the voltage according to the value(s) in the table below.

Voltage

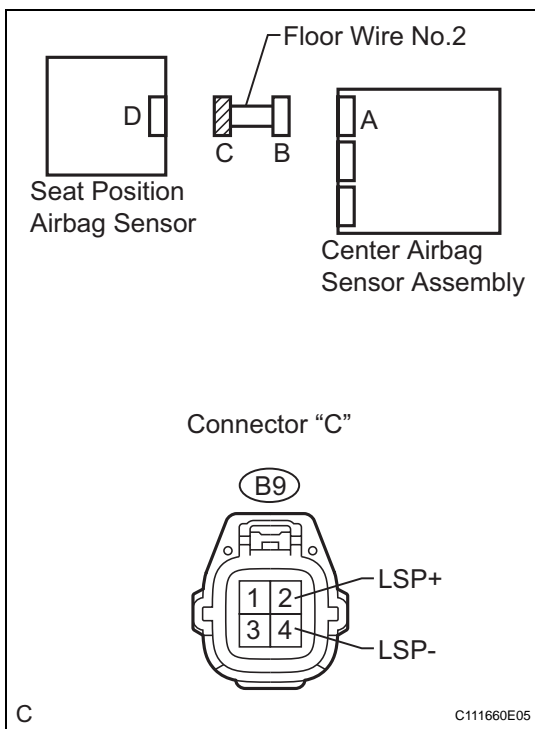
Tester connection	Condition	Specified condition
B9-2 (LSP+) - B9-4 (LSP-)	Always	Below 1 V

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

OK

4 CHECK FLOOR WIRE NO.2 (SHORT TO B+)



- (a) Disconnect the service wire from connector "B".
- (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.
- (d) Measure the voltage according to the value(s) in the table below.

Voltage

Tester connection	Condition	Specified condition
B9-2 (LSP+) - Body ground	Ignition switch ON	Below 1 V
B9-4 (LSP-) - Body ground	Ignition switch ON	Below 1 V

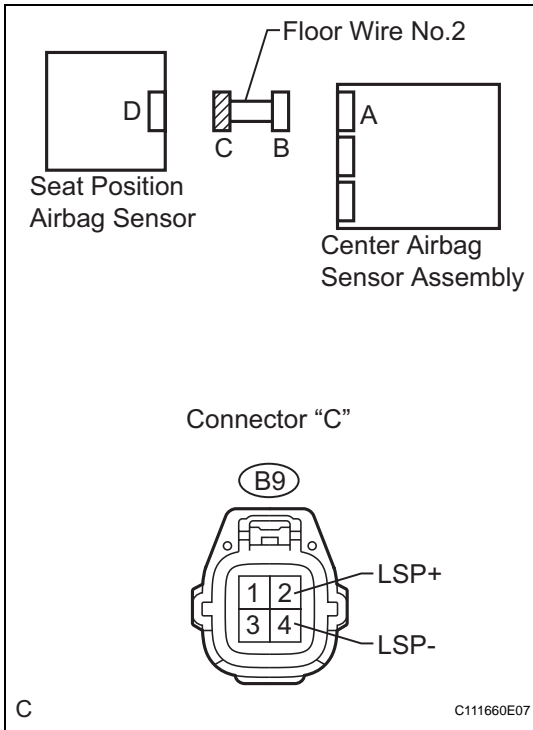
NG

REPAIR OR REPLACE FLOOR WIRE NO.2

OK

RS

5 CHECK FLOOR WIRE NO.2 (SHORT TO GROUND)



- (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.

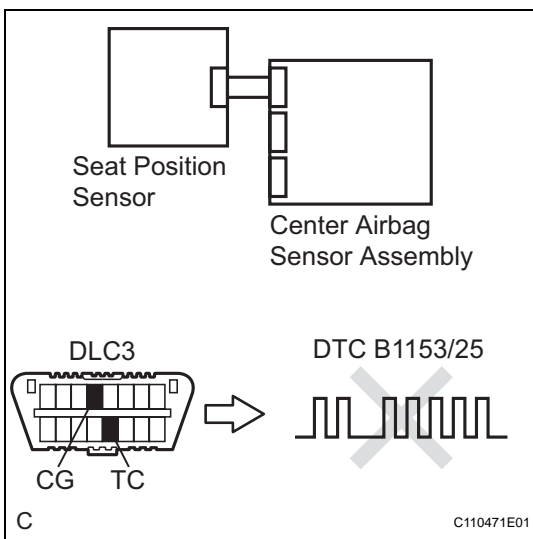
Resistance

Tester connection	Condition	Specified condition
B9-2 (LSP+) - Body ground	Always	1 MΩ or higher
B9-4 (LSP-) - Body ground	Always	1 MΩ or higher

NG REPAIR OR REPLACE FLOOR WIRE NO.2

OK

6 CHECK SEAT POSITION AIRBAG SENSOR



- (a) Connect the connectors to the seat position sensor 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 memory (See page RS-32).
- (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 the DTCs (See page RS-32).

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 Go to step 7

OK

USE SIMULATION METHOD TO CHECK

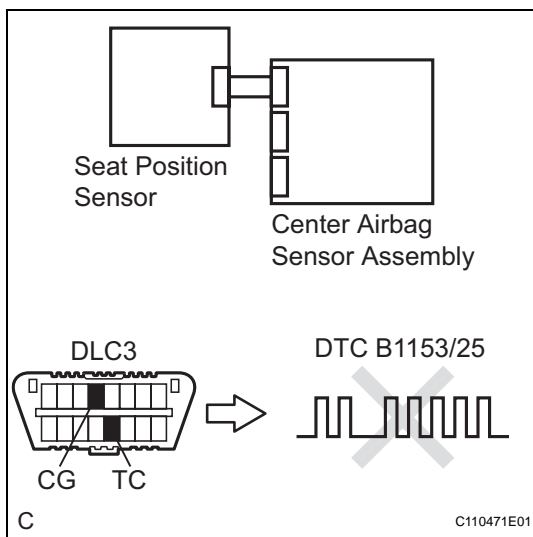
7 REPLACE SEAT POSITION AIRBAG SENSOR

- (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) Replace the seat position sensor (See page [RS-453](#)).
- HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

RS

8 CHECK CENTER AIRBAG SENSOR ASSEMBLY



- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (b) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (c) Clear the DTCs stored in memory (See page [RS-32](#)).
- (d) Turn the ignition switch to the LOCK position.
- (e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (f) Check the DTCs (See page [RS-32](#)).

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.

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REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

END