

DTC	B1153/25	SEAT POSITION AIRBAG SENSOR MALFUNCTION
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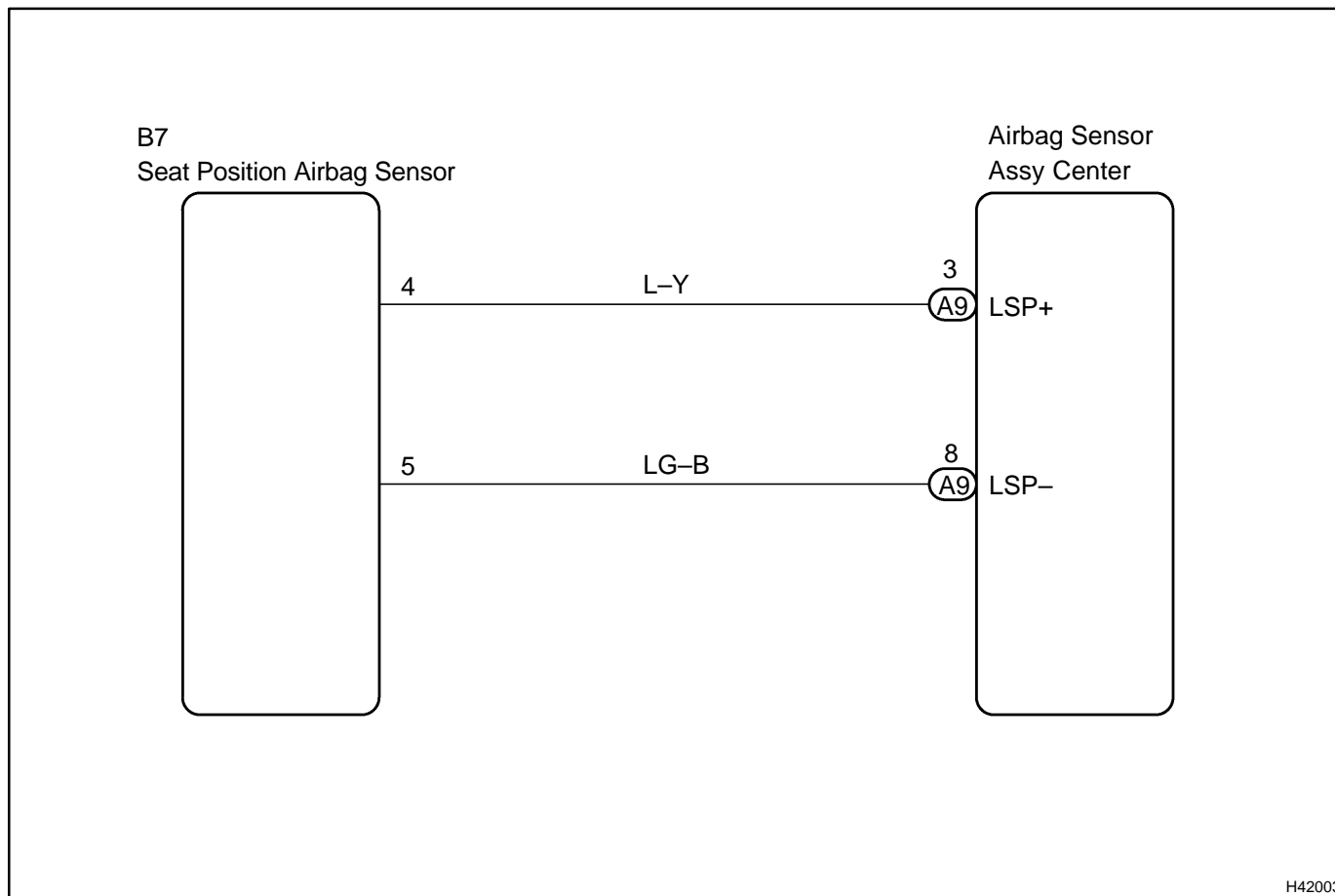
CIRCUIT DESCRIPTION

The seat position airbag sensor circuit consists of the airbag sensor assy center 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 airbag sensor • Short circuit in seat position airbag sensor wire harness (to ground) • Short circuit in seat position airbag sensor wire harness (to B+) • Seat position airbag sensor malfunction • Airbag sensor assy center malfunction 	<ul style="list-style-type: none"> • Seat position airbag sensor • Airbag sensor assy center • Floor wire • Front seat inner belt assy LH

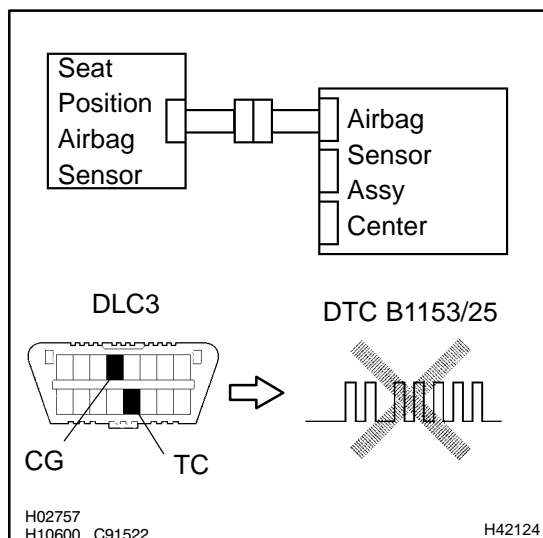
WIRING DIAGRAM



H42003

INSPECTION PROCEDURE

1 CHECK SEAT POSITION AIR BAG 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 05-453).
- (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 the DTCs (See page 05-453).

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 AIRBAG SENSOR ASSY CENTER CONNECTOR

- (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 airbag sensor assy center.

OK:

The connector is connected.

NG

CONNECT CONNECTORS

OK

3 CHECK SEAT POSITION AIRBAG SENSOR CONNECTOR

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

OK:

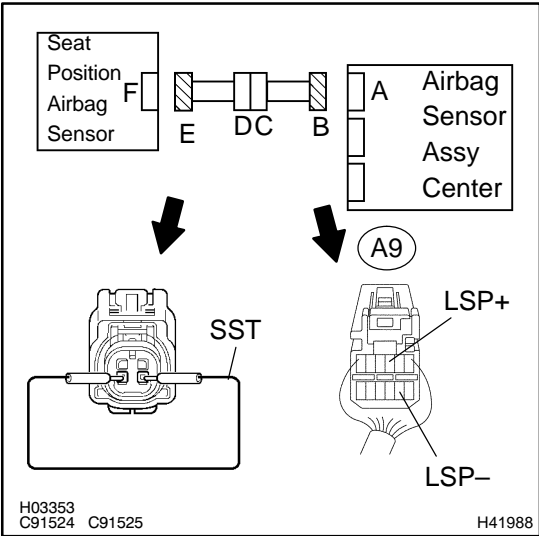
The connector is connected.

NG

CONNECT CONNECTORS

OK

4 CHECK SEAT POSITION AIRBAG SENSOR CIRCUIT (OPEN)(AIRBAG SENSOR ASSY CENTER - SEAT POSITION AIRBAG SENSOR)



(a) Disconnect the connectors from the airbag sensor assy center and the seat position airbag sensor.

(b) Using SST, connect one terminal to the other of connector "E".

SST 09843-18040

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.

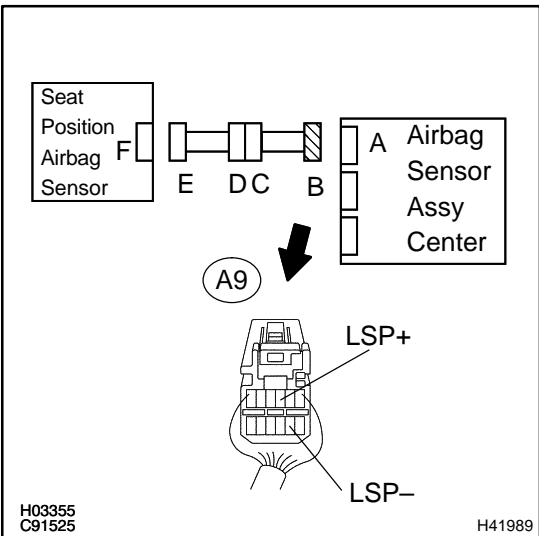
Standard:

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

NG Go to step 11

OK

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



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

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

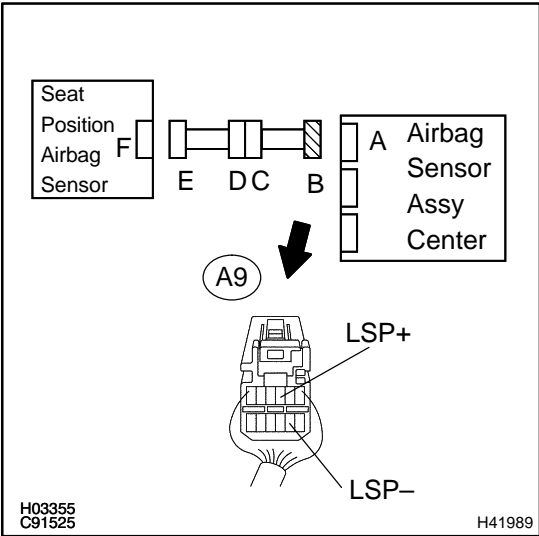
Standard:

Tester connection (Connector "B")	Condition	Specified condition
A9-3 (LSP+) - Body ground	Always	1 MΩ or Higher
A9-8 (LSP-) - Body ground	Always	1 MΩ or Higher

NG Go to step 12

OK

6 CHECK SEAT POSITION AIRBAG SENSOR CIRCUIT(AIRBAG SENSOR ASSY CENTER - SEAT POSITION AIRBAG SENSOR)



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

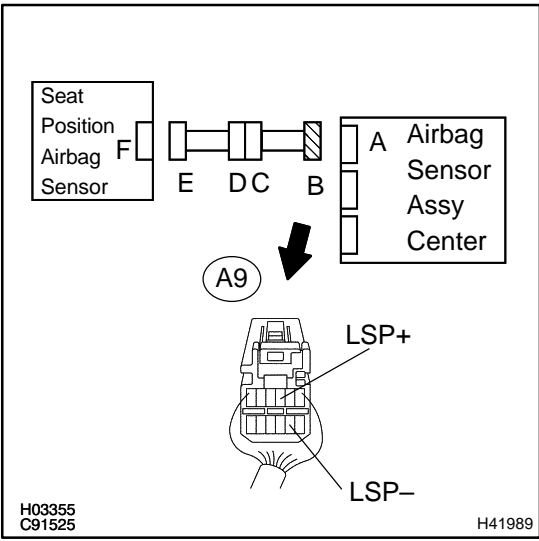
Standard:

Tester connection (Connector "B")	Condition	Specified condition
A9-3 (LSP+) - A9-8 (LSP-)	Always	1 MΩ or Higher

NG Go to step 13

OK

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



(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.

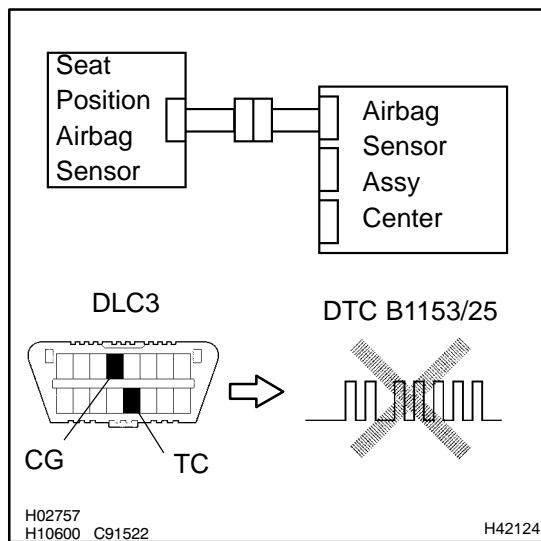
Standard:

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

NG Go to step 14

OK

8 CHECK SEAT POSITION AIR BAG 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 airbag sensor and the airbag sensor assy center.
- (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 [05-453](#)).
- (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 the DTCs (See page [05-453](#)).

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 9

OK

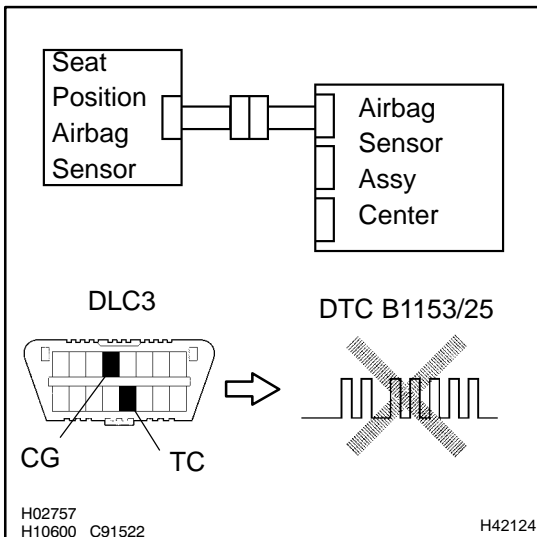
USE SIMULATION METHOD TO CHECK

9 REPLACE SEAT POSITION AIR BAG 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 airbag sensor (See page 60-39).



10 CHECK AIR BAG SENSOR ASSY CENTER



- 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 05-453).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (See page 05-453).

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.

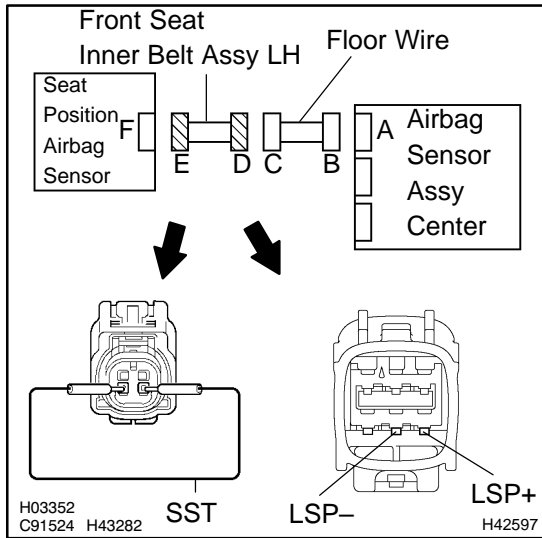
NG

REPLACE AIR BAG SENSOR ASSY CENTER

OK

END

11 CHECK WIRE HARNESS(SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT ASSY)



- (a) Disconnect the front seat inner belt assy 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:

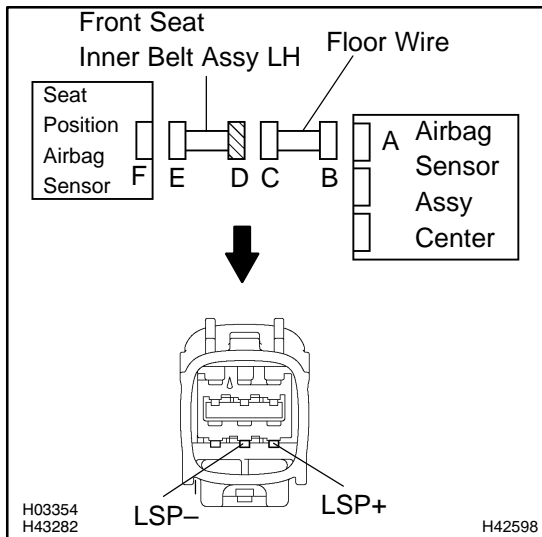
Tester connection (Connector "D")	Condition	Specified condition
LSP+ - LSP-	Always	Below 1 Ω

NG REPAIR OR REPLACE WIRE HARNESS(SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT ASSY LH)

OK

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

12 CHECK WIRE HARNESS(SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT ASSY)



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

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

Standard:

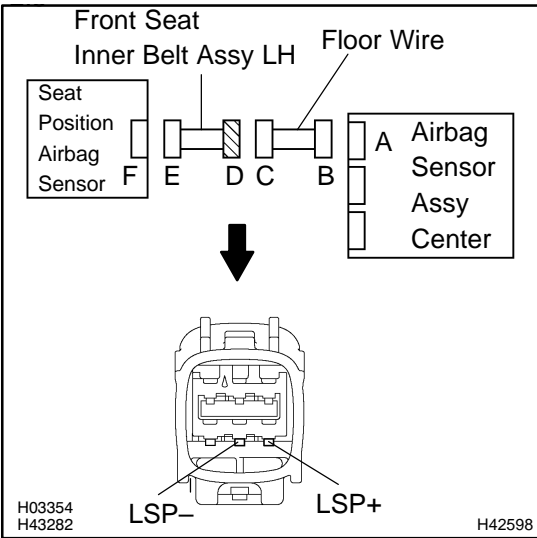
Tester connection (Connector "D")	Condition	Specified condition
LSP+ - Body ground	Always	1 MΩ or Higher
LSP- - Body ground	Always	1 MΩ or Higher

NG REPAIR OR REPLACE WIRE HARNESS(SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT ASSY LH)

OK

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

13 CHECK WIRE HARNESS(SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT ASSY)



- (a) Disconnect the front seat inner belt assy LH connector from the floor wire.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

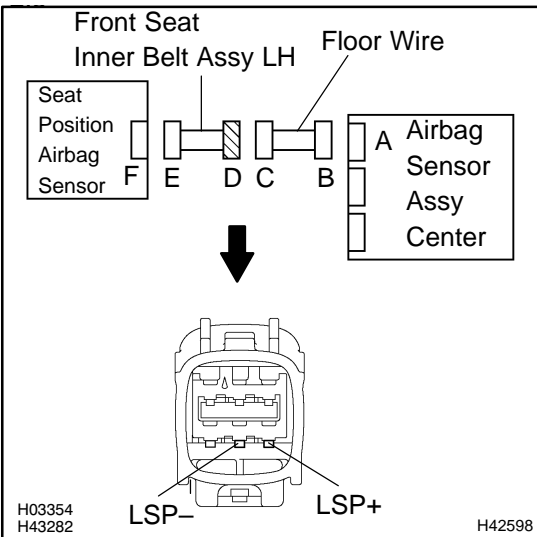
Tester connection (Connector "D")	Condition	Specified condition
LSP+ - LSP-	Always	1 MΩ or Higher

NG REPAIR OR REPLACE WIRE HARNESS(SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT ASSY LH)

OK

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

14 CHECK WIRE HARNESS(SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT ASSY)



- (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 front seat wire connector on the airbag sensor assy center side.
- (d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Measure the voltage according to the value(s) in the table below.

Standard:

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

NG REPAIR OR REPLACE WIRE HARNESS(SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT ASSY LH)

OK

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