

DTC	B1153/25	Seat Position Sensor Assembly Malfunction
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CIRCUIT DESCRIPTION

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

For details of the function of each components, see OPERATION on page RS-3.

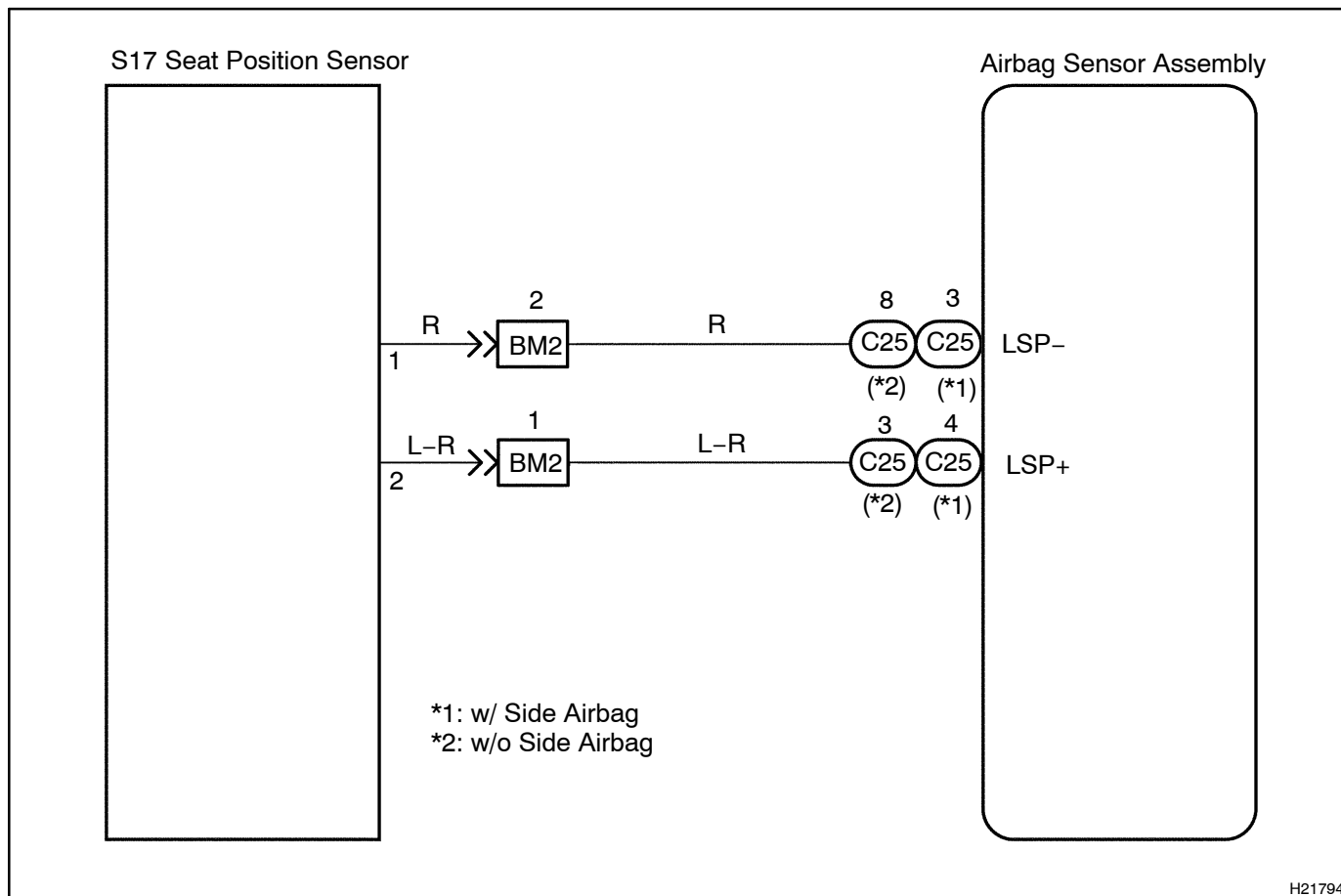
B1153/25 is recorded when a malfunction is detected in the seat position sensor circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1153/25	• Seat position sensor assembly malfunction	• Seat position sensor assembly • Airbag sensor assembly • Floor No. 1 wire • Front seat wire LH

HINT:

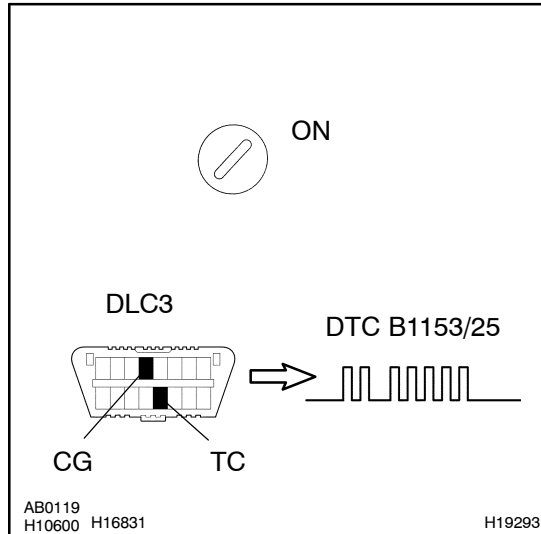
DTC B1153/25 is indicated only for the vehicle equipped with the side airbag and without the side airbag (dual stage airbag).

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Is DTC B1153/25 output ?



CHECK:

- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Clear the DTC stored in memory (See page [DI-692](#)).
- Turn the ignition switch to LOCK, and wait at least for 10 seconds.
- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Check the DTC (See page [DI-692](#)).

OK:

DTC B1153/25 is output.

HINT:

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

NO

The malfunctioning part can now be considered normal. To make sure of this, use the simulation method to check.

YES

2 Is connector of the seat position sensor assembly properly connected ?

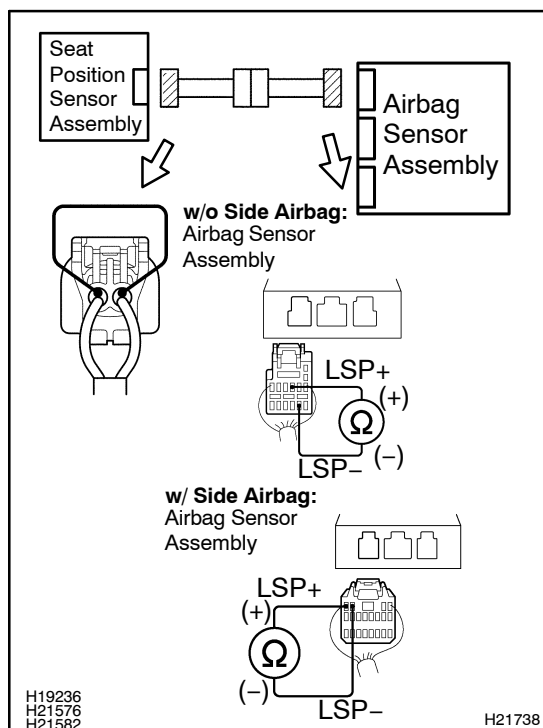
NO

Connect connector.

YES

3 Prepare for inspection (See step 1 on [DI-923](#)).

4 Check wire harness.



PREPARATION:

Using a service wire, connect LSP+ and LSP- of the connector on the seat position sensor assembly side between the airbag sensor assembly and the seat position sensor assembly.

CHECK:

Measure the resistance between LSP+ and LSP- of the connector on the airbag sensor assembly side between the seat position sensor assembly and the airbag sensor assembly.

OK:

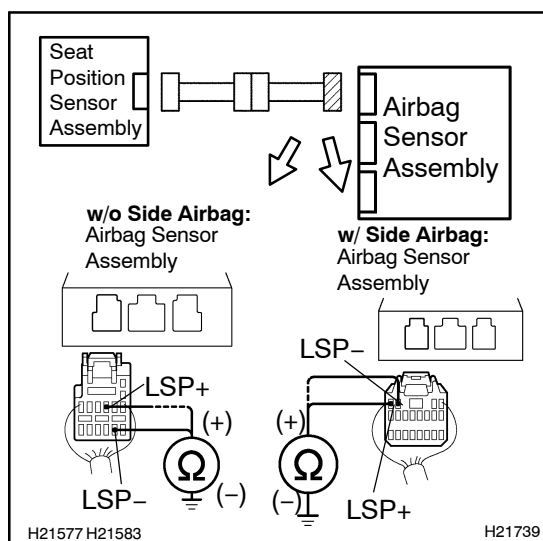
Resistance: Below 1 Ω

NG

Go to step 9.

OK

5 Check wire harness (to ground).



PREPARATION:

Release the service wire from the connector on the seat position sensor assembly side.

CHECK:

Measure the resistance between the body ground and each of LSP+ and LSP- of the connector on the airbag sensor assembly side between the seat position sensor assembly and the airbag sensor assembly.

OK:

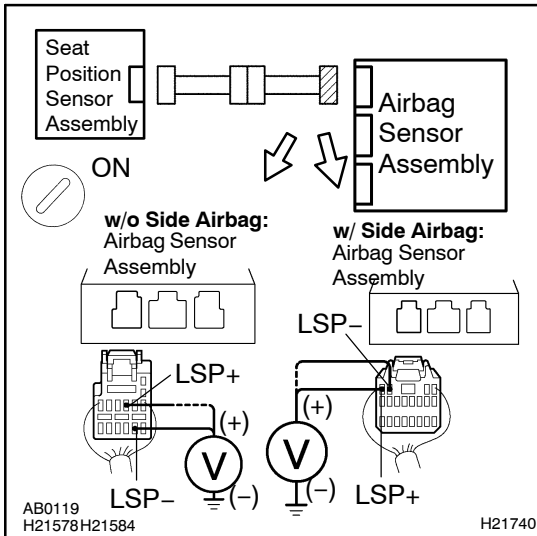
Resistance: 10 kΩ or Higher

NG

Go to step 10.

OK

6 Check wire harness (to B+).



PREPARATION:

Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:

- Turn the ignition switch to ON.
- Measure the voltage between the body ground and each of LSP+ and LSP- of the connector on the airbag sensor assembly side between the seat position sensor assembly and the airbag sensor assembly.

OK:

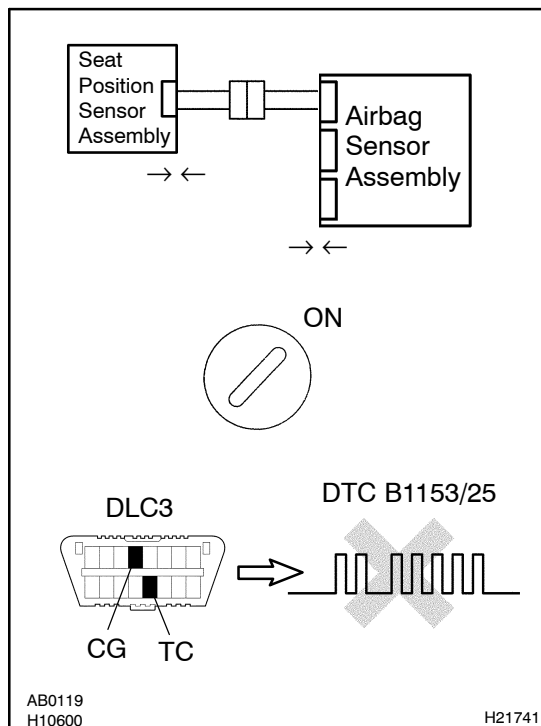
Voltage: Below 1 V

NG

Go to step 11.

OK

7 Check seat position sensor assembly.



PREPARATION:

- Turn the ignition switch to LOCK.
- Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
- Connect the connectors of the seat position sensor assembly and the airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:

- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Clear the DTC stored in memory (See page [DI-692](#)).
- Turn the ignition switch to LOCK, and wait at least for 10 seconds.
- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Check the DTC (See page [DI-692](#)).

OK:

DTC B1153/25 is not output.

HINT:

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

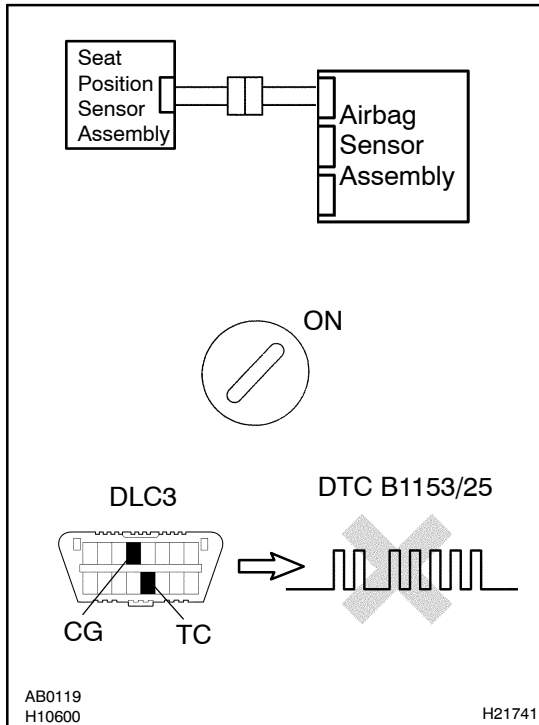
NG

Replace seat position sensor assembly, then go to next step.

OK

From the results of the above inspection, the malfunctioning part can now be considered normal. To make sure of this, use the simulation method to check.

8 Is DTC B1153/25 output again ?



PREPARATION:

- Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
- Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:

- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Clear the DTC stored in memory (See page [DI-692](#)).
- Turn the ignition switch to LOCK, and wait at least for 10 seconds.
- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Check the DTC (See page [DI-692](#)).

OK:

DTC B1153/25 is not output.

HINT:

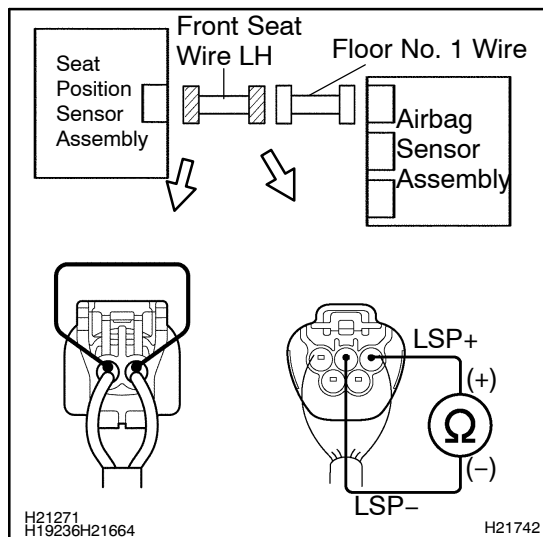
Codes other than code B1153/25 may be output at this time, but they are not relevant to this check.

NG

Replace airbag sensor assembly.

OK

From the results of the above inspection, the malfunctioning part can now be considered normal. To make sure of this, use the simulation method to check.

9 Check front seat wire LH.**OK****PREPARATION:**

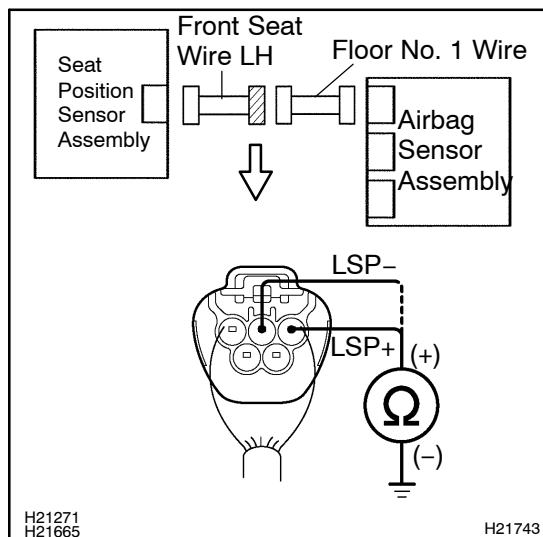
- Disconnect the front seat wire LH connector from the floor No. 1 wire.
- Using a service wire, connect LSP+ and LSP- of the front seat wire LH connector on the seat position sensor assembly side.

CHECK:

Measure the resistance between LSP+ and LSP- of the front seat wire LH connector on the floor No. 1 wire side.

OK:

Resistance: Below 1 Ω

NG**Replace front seat wire LH.****Replace floor No. 1 wire.****10 Check front seat wire LH (to ground).****OK****PREPARATION:**

- Disconnect the front seat wire LH connector from the floor No. 1 wire.
- Release the service wire from the front seat wire LH connector on the seat position sensor assembly side.

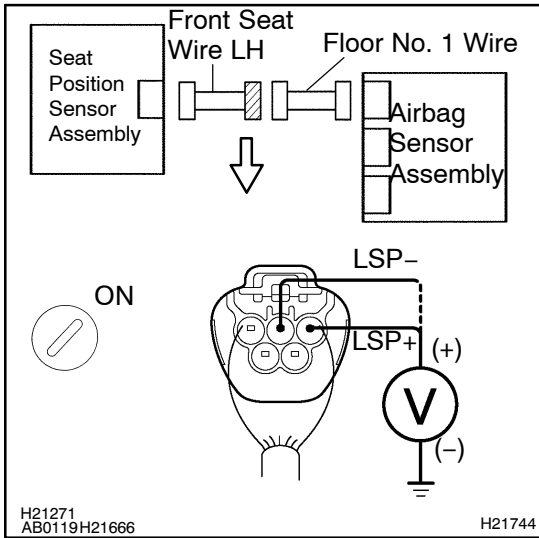
CHECK:

Measure the resistance between the body ground and each of LSP+ and LSP- of the front seat wire LH connector on the floor No. 1 wire side.

OK:

Resistance: 10 k Ω or Higher

NG**Repair and replace floor No. 1 wire.****Repair and replace floor No. 1 wire.**

11 Check front seat wire LH (to B+).**PREPARATION:**

Disconnect the front seat wire LH connector from the floor No. 1 wire.

CHECK:

Measure the voltage between the body ground and each of LSP+ and LSP- of the front seat wire LH connector on the floor No. 1 wire side.

OK:

Voltage: Below 1 V

NG**Replace front seat wire LH.****OK****Replace floor No. 1 wire.**