DTC	B1153/25	SEAT POSITION AIRBAG SENSOR MALFUNCTION

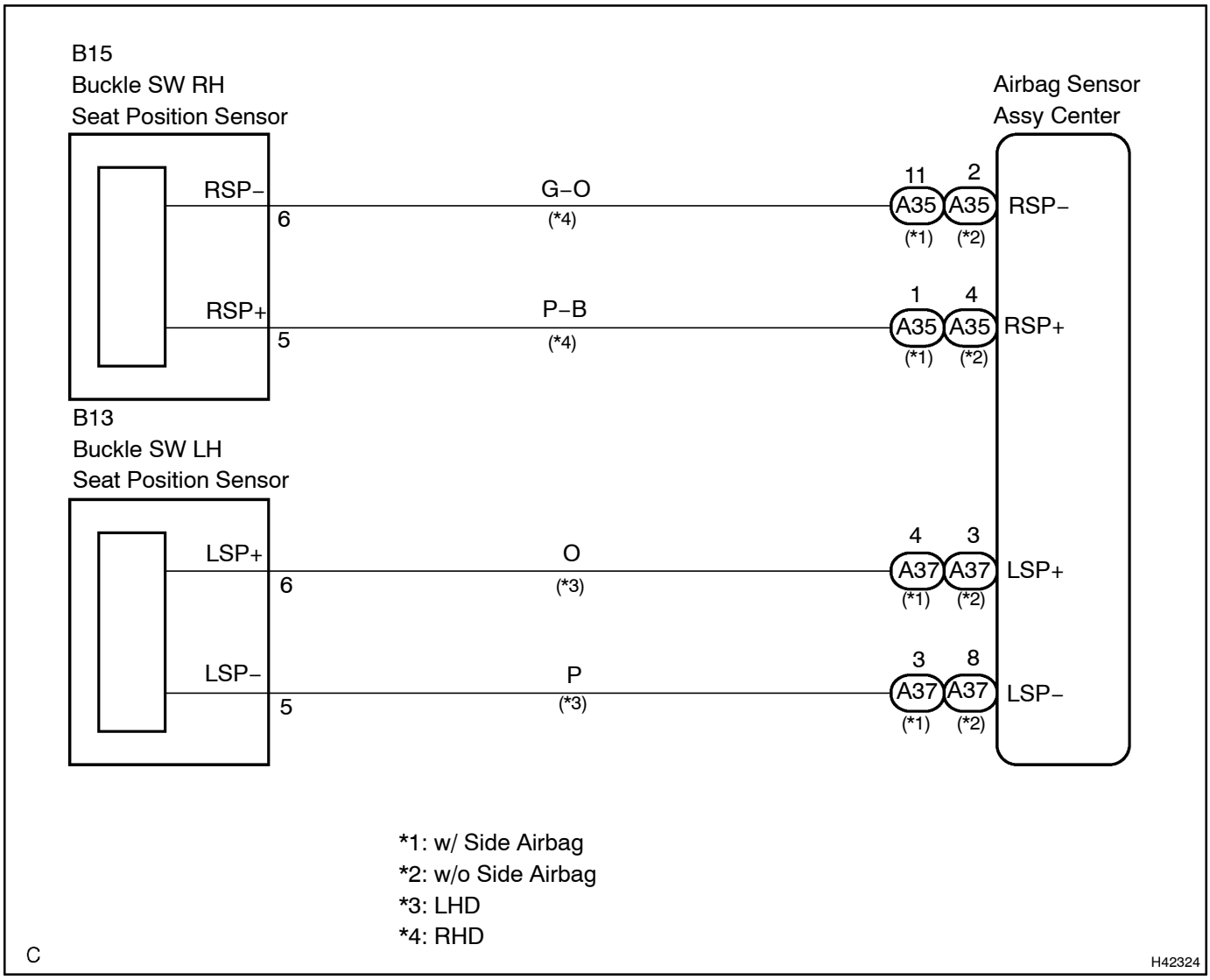
CIRCUIT DESCRIPTION

The seat position airbag sensor circuit consists of the airbag sensor assy center and 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	• Short in seat position airbag sensor circuit (to B+) • Short in seat position airbag sensor circuit (to ground) • Open in seat position airbag sensor circuit • Seat position airbag sensor malfunction • Airbag sensor assy center malfunction	• Seat position airbag sensor • Airbag sensor assy center • Floor wire (LHD) • Floor wire No.2 (RHD)

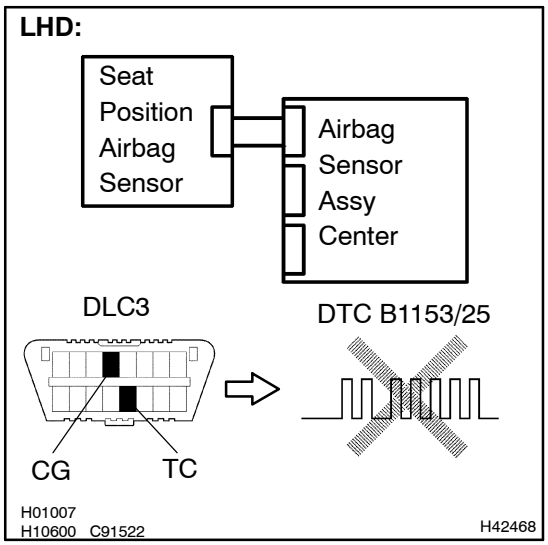
WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK SEAT POSITION AIR BAG SENSOR

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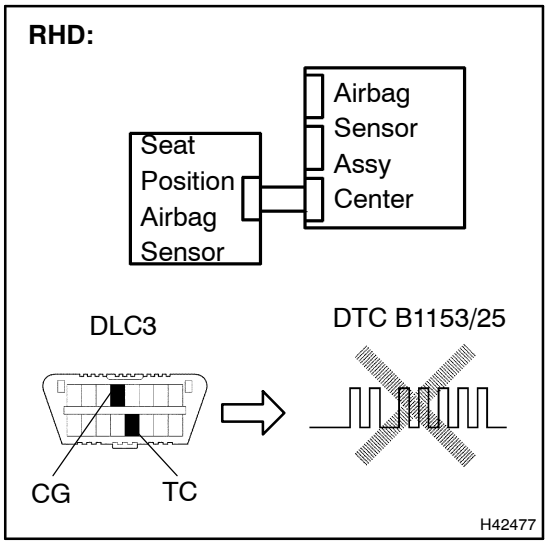
(a) Turn the ignition switch to ON, and wait at least for 10 seconds.
(b) Clear the DTC stored in memory (See page 05–1122).
(c) Turn the ignition switch to LOCK, and wait at least for 10 seconds.
(d) Turn the ignition switch to ON, and wait at least for 10 seconds.
(e) Check the DTC (See page 05–1122).

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 → **USE SIMULATION METHOD TO CHECK**

OK

2 CHECK AIRBAG SENSOR ASSY CENTER CONNECTOR

(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Check that the connector is properly connected to the airbag sensor assy center.

OK:

The connectors are 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

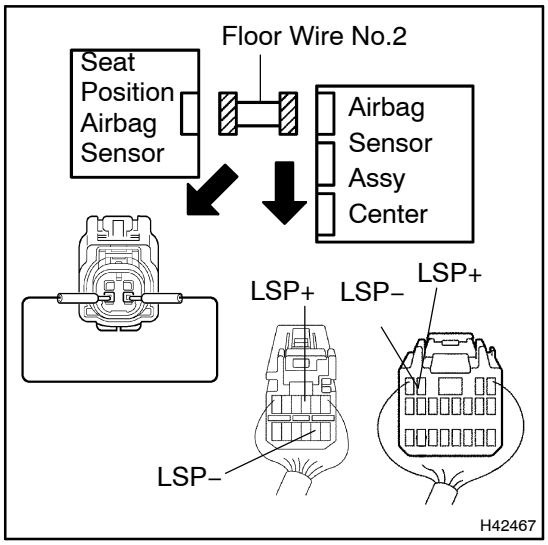
4	CHECK VEHICLE CONDITION

(a) Check the vehicle steering position.

RHD → **Go to step 11**

LHD

5	CHECK FLOOR WIRE NO.2(OPEN)

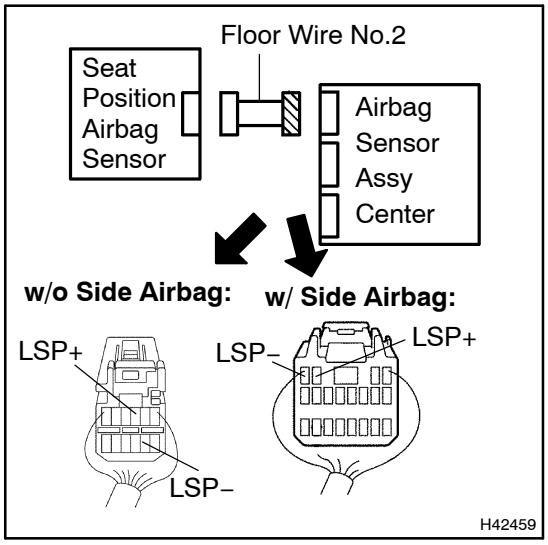


(a) Disconnect the connectors between the airbag sensor assy center and the seat position airbag sensor.
(b) Using a service wire, connect LSP+ and LSP– of the floor wire connector on the seat position airbag sensor side.
(c) Measure the resistance between LSP+ and LSP– of the floor wire No.2 connector on the airbag sensor assy center side.
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

6 CHECK FLOOR WIRE NO.2(TO GROUND)



(a) Release the service wire from the floor wire No.2 connector on the seat position airbag sensor side.

(b) Measure the resistance between the body ground and each of LSP+ and LSP– of the floor wire No.2 connector on the airbag sensor assy center side.

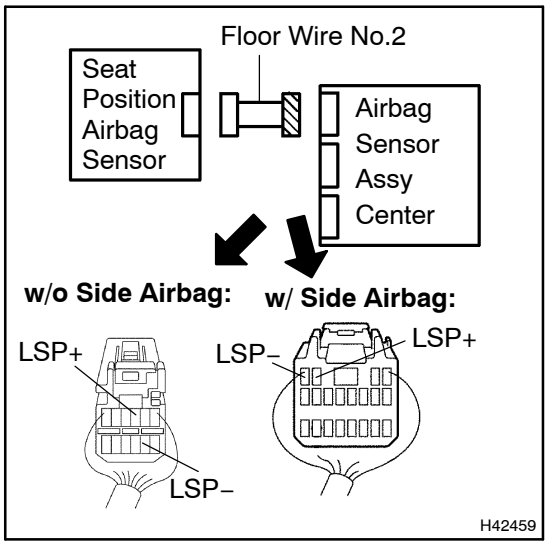
OK:

Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

7 CHECK FLOOR WIRE NO.2



(a) Measure the resistance between LSP+ and LSP– of the floor wire No.2 connector on the airbag sensor assy center side.

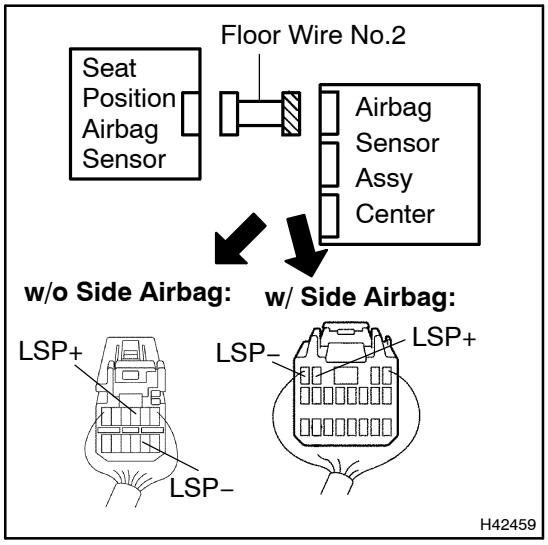
OK:

Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

8 CHECK FLOOR WIRE NO.2(TO B+)



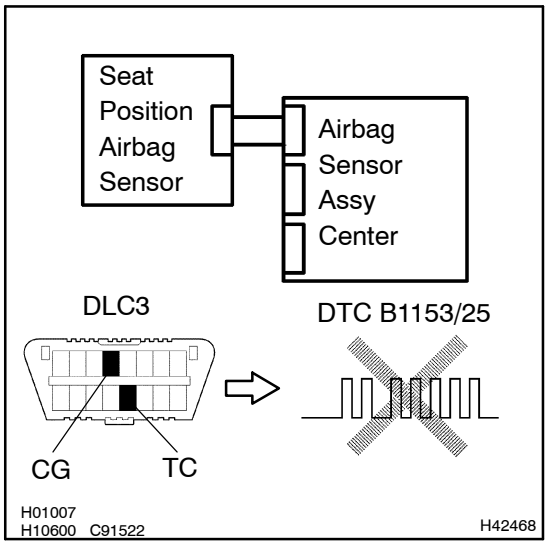
(a) Connect the negative (–) terminal cable to the battery.
(b) Turn the ignition switch to ON.
(c) Measure the voltage between the body ground and each of LSP+ and LSP– of the floor wire No.2 connector on the airbag sensor assy center side.
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

9 CHECK SEAT POSITION AIR BAG SENSOR

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(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connectors of the seat position sensor and the airbag sensor assy center.
(d) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 10 seconds.
(f) Clear the DTC stored in memory (See page 05–1122).
(g) Turn the ignition switch to LOCK, and wait at least for 10 seconds.
(h) Turn the ignition switch to ON, and wait at least for 10 seconds.
(i) Check the DTC (See page 05–1122).
OK:
DTC B1153/25 is not output.

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

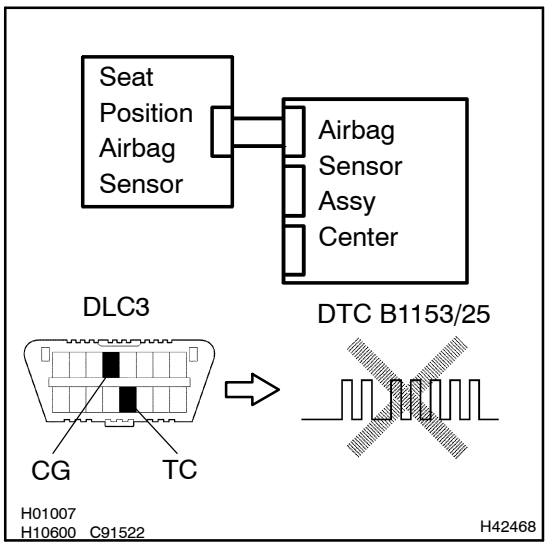
NG → **REPLACE SEAT POSITION AIR BAG SENSOR**

OK

USE SIMULATION METHOD TO CHECK

10 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connectors of the seat position sensor and the airbag sensor assy center.
(d) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 10 seconds.
(f) Clear the DTC stored in memory (See page 05–1122).
(g) Turn the ignition switch to LOCK, and wait at least for 10 seconds.
(h) Turn the ignition switch to ON, and wait at least for 10 seconds.
(i) Check the DTC (See page 05–1122).
OK:
DTC B1153/25 is not output.

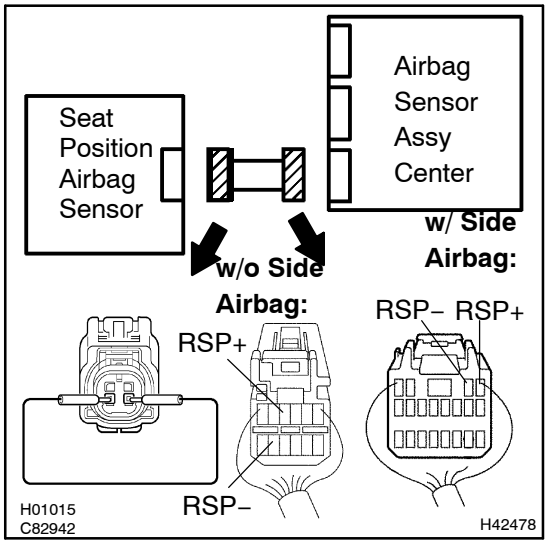
HINT:
Codes other that code B1153/25 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

USE SIMULATION METHOD TO CHECK

11 CHECK FLOOR WIRE(OPEN)



(a) Using a service wire, connect RSP+ and RSP– of the floor wire connector on the seat position airbag sensor side.

(b) Measure the resistance between RSP+ and RSP– of the floor wire on the airbag sensor assy center side.

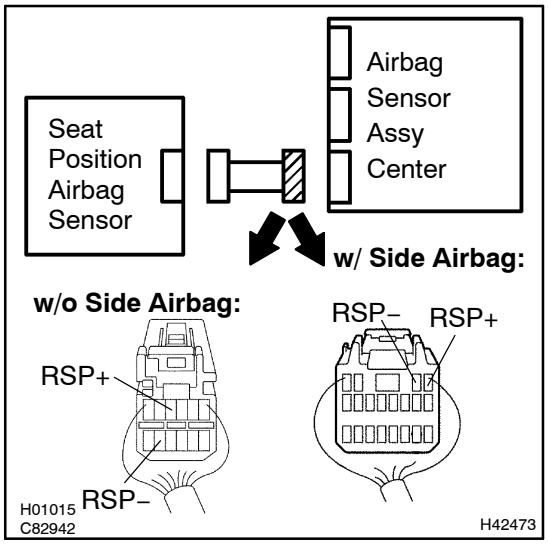
OK:

Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

12 CHECK FLOOR WIRE(TO GROUND)



(a) Release the service wire from the floor wire connector on the seat position airbag sensor side.

(b) Measure the resistance between the body ground and each of RSP+ and RSP– of the floor wire connector on the airbag sensor assy center side.

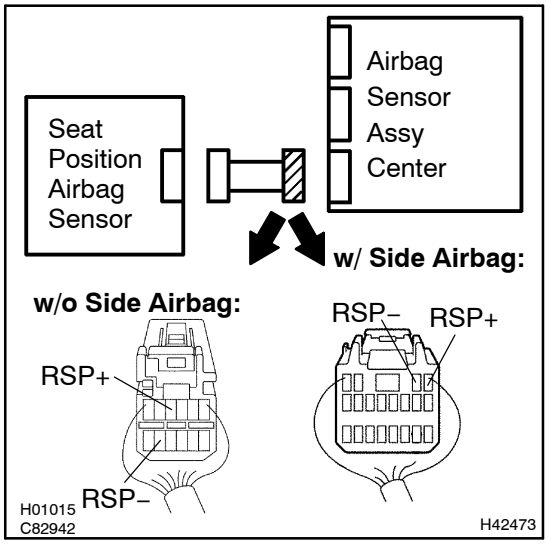
OK:

Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

13	CHECK FLOOR WIRE

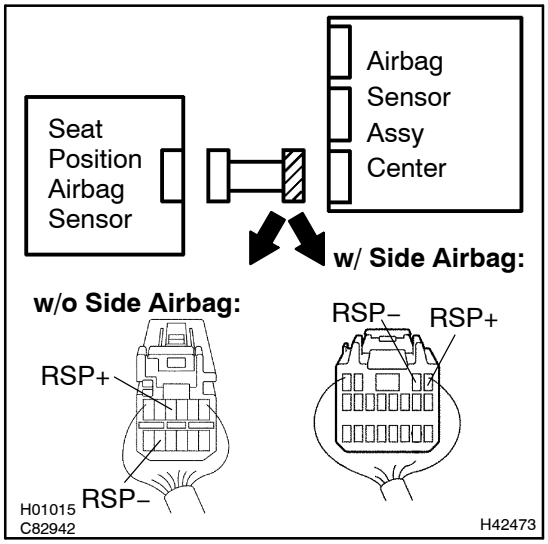


(a) Measure the resistance between RSP+ and RSP– of the floor wire connector on the airbag sensor assy center side.
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

14	CHECK FLOOR WIRE(TO B+)



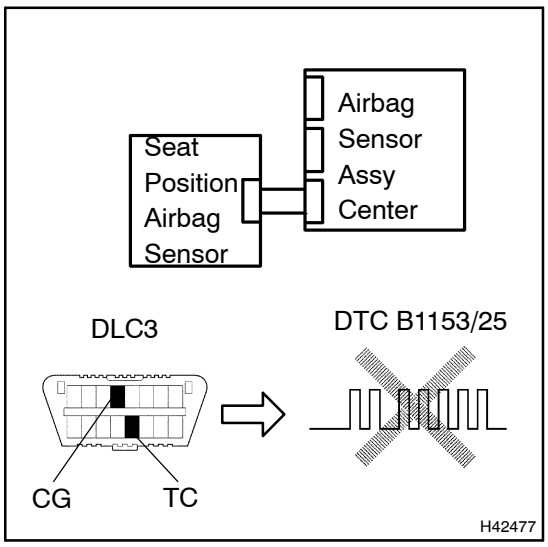
(a) Measure the voltage between the body ground and each of RSP+ and RSP– of the floor wire connector on the airbag sensor assy center side.
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

15 CHECK SEAT POSITION AIR BAG SENSOR

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(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connectors of the seat position sensor and the airbag sensor assy center.
(d) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 10 seconds.
(f) Clear the DTC stored in memory (See page 05–1122).
(g) Turn the ignition switch to LOCK, and wait at least for 10 seconds.
(h) Turn the ignition switch to ON, and wait at least for 10 seconds.
(i) Check the DTC (See page 05–1122).
OK:
DTC B1153/25 is not output.

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

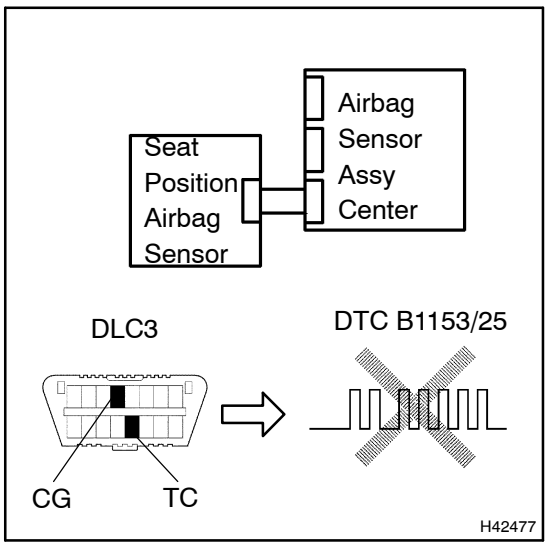
NG → **REPLACE SEAT POSITION AIR BAG SENSOR**

OK

USE SIMULATION METHOD TO CHECK

16 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connectors of the seat position sensor and the airbag sensor assy center.
(d) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 10 seconds.
(f) Clear the DTC stored in memory (See page 05–1122).
(g) Turn the ignition switch to LOCK, and wait at least for 10 seconds.
(h) Turn the ignition switch to ON, and wait at least for 10 seconds.
(i) Check the DTC (See page 05–1122).
OK:
DTC B1153/25 is not output.

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

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

USE SIMULATION METHOD TO CHECK