DTC	B1153/25	SEAT POSITION AIRBAG SENSOR MALFUNCTION

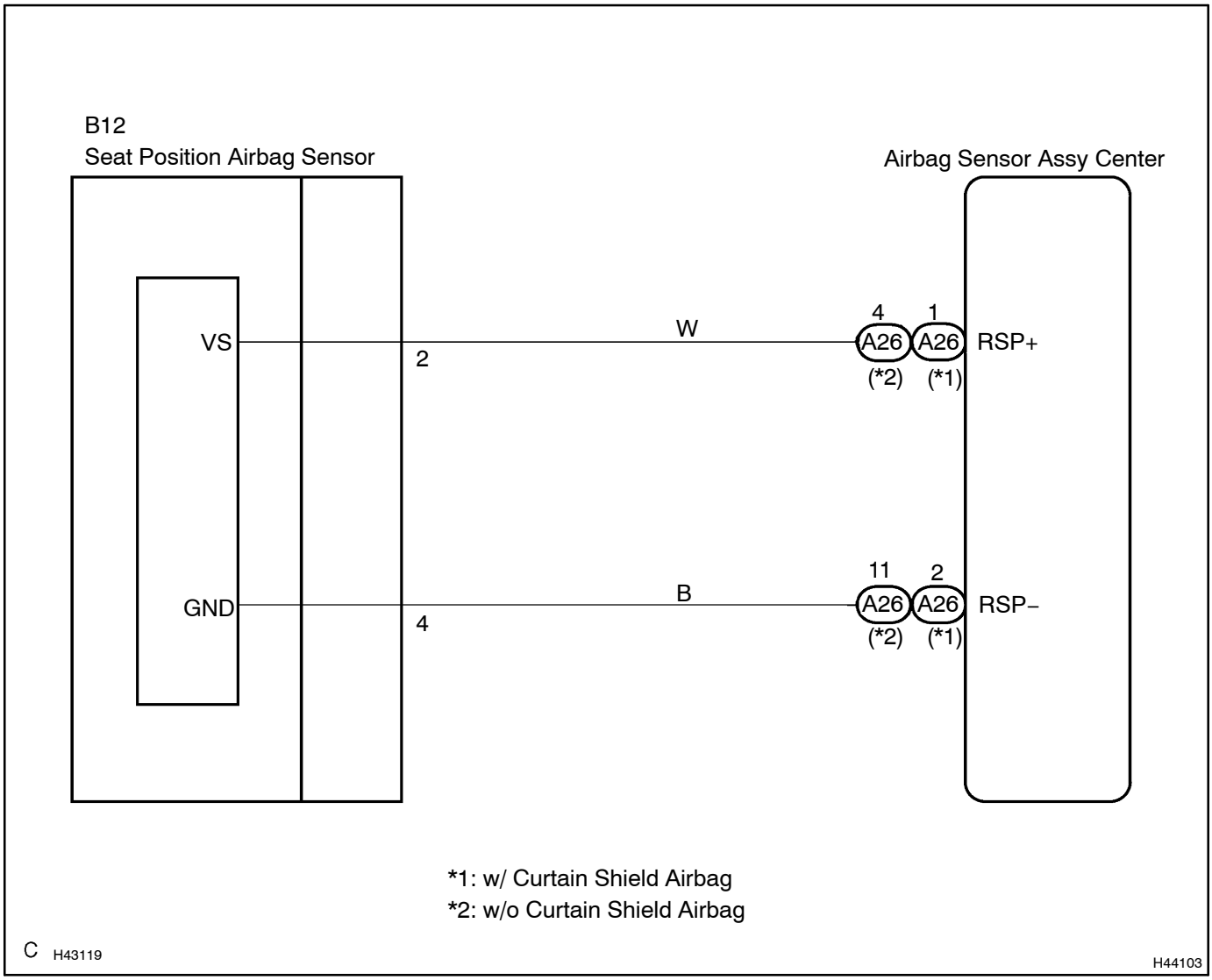
CIRCUIT DESCRIPTION

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.

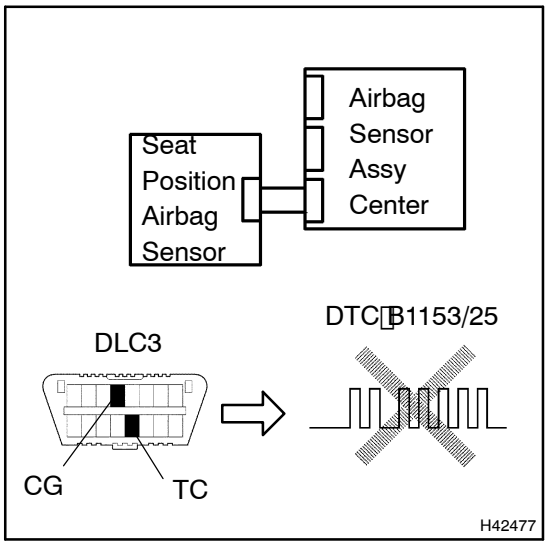
DTC No.	DTC Detecting Condition	Trouble Area
B1153/25	• Open circuit in RSP+ wire harness or RSP– wire harness of seat position airbag sensor • Short circuit in seat position airbag sensor wire harness (to ground) • Short circuit in seat position airbag sensor wire harness (to B+) • Seat position airbag sensor malfunction • Airbag sensor assy center malfunction	• Seat position airbag sensor • Airbag sensor assy center • Floor wire

WIRING DIAGRAM



INSPECTION PROCEDURE

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 05–513).
(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 05–513).
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

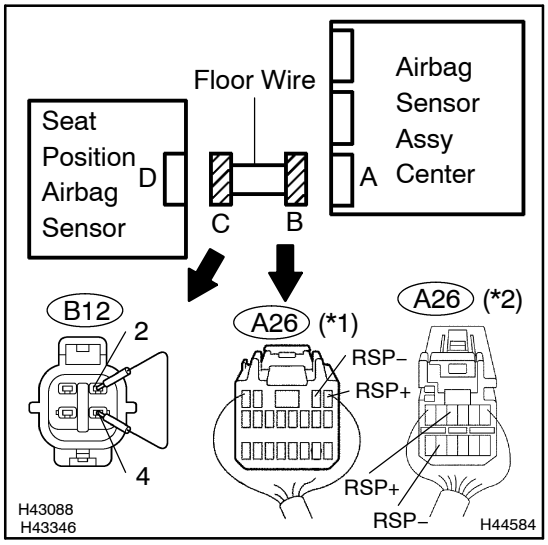
2 CHECK CONNECTION OF CONNECTORS

(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 airbag sensor assy center and the seat position airbag sensor.
OK:
The connectors are connected.

NG	CONNECT CONNECTORS, THEN GO TO STEP 1

OK

3 CHECK FLOOR WIRE(OPEN)



(a) Disconnect the connectors from the airbag sensor assy center and the seat position airbag sensor.
(b) Using a service wire, connect B12–2 and B12–4 of connector ”C”.

NOTICE:
Do not forcibly insert a service wire into the terminals of the connector when connecting.

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

Standard:

w/ Curtain shield airbag (*1):

Tester connection	Condition	Specified condition
A26–1 (RSP+) – A26–2 (RSP–)	Always	Below 1 Ω

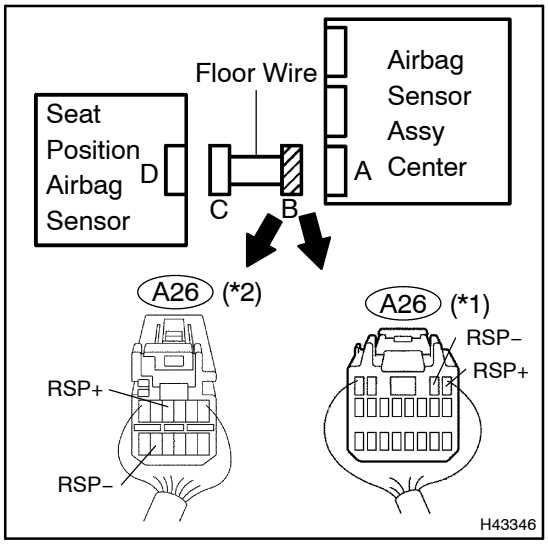
w/o Curtain shield airbag (*2):

Tester connection	Condition	Specified condition
A26–4 (RSP+) – A26–11 (RSP–)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4 CHECK FLOOR WIRE(TO B+)



(a) Disconnect the service wire from connector ”C”.
(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.

Standard:

w/ Curtain shield airbag (*1):

Tester connection	Condition	Specified condition
A26–1 (RSP+) – Body ground	Ignition switch ON	Below 1 V
A26–2 (RSP–) – Body ground	Ignition switch ON	Below 1 V

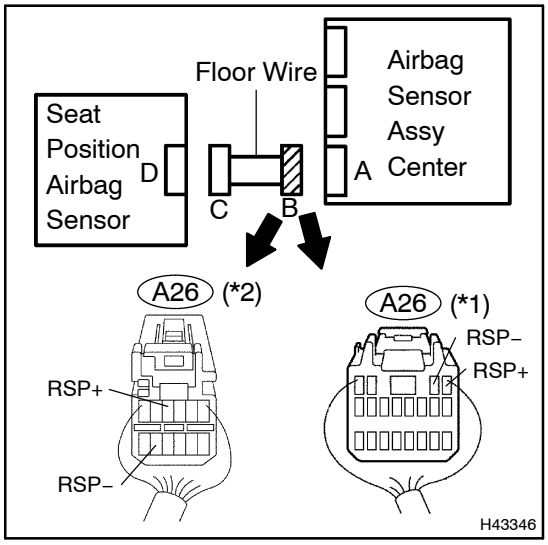
w/o Curtain shield airbag (*2):

Tester connection	Condition	Specified condition
A26–4 (RSP+) – Body ground	Ignition switch ON	Below 1 V
A26–11 (RSP–) – Body ground	Ignition switch ON	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

5 CHECK FLOOR WIRE NO.2(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.

Standard:

w/ Curtain shield airbag (*1):

Tester connection	Condition	Specified condition
A26–1 (RSP+) – Body ground	Always	1 MΩ or Higher
A26–2 (RSP–) – Body ground	Always	1 MΩ or Higher

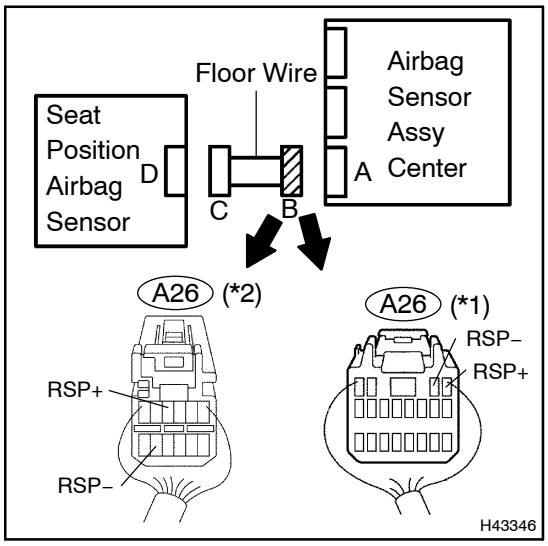
w/o Curtain shield airbag (*2):

Tester connection	Condition	Specified condition
A26–4 (RSP+) – Body ground	Always	1 MΩ or Higher
A26–11 (RSP–) – Body ground	Always	1 MΩ or Higher

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

OK

6 CHECK FLOOR WIRE NO.2(SHORT)



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

Standard:

w/ Curtain shield airbag (*1):

Tester connection	Condition	Specified condition
A26–1 (RSP+) – A26–2 (RSP–)	Always	1 MΩ or Higher

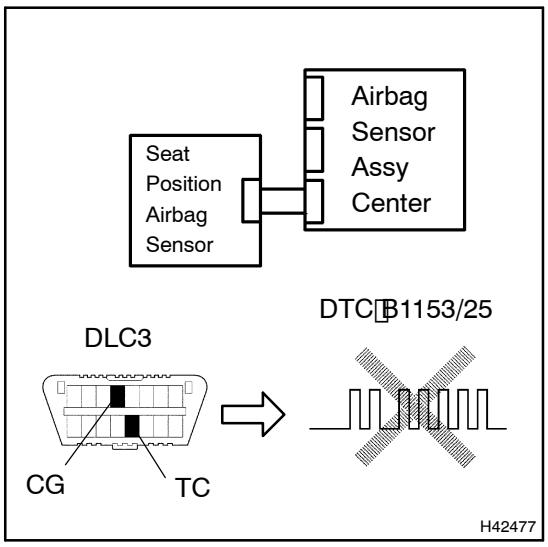
w/o Curtain shield airbag (*2):

Tester connection	Condition	Specified condition
A26–4 (RSP+) – A26–11 (RSP–)	Always	1 MΩ or Higher

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

OK

7	CHECK SEAT POSITION AIRBAG SENSOR



(a) Connect the connectors to the seat position airbag sensor and the airbag sensor assy center.
(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 05–513).
(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 05–513).
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 8

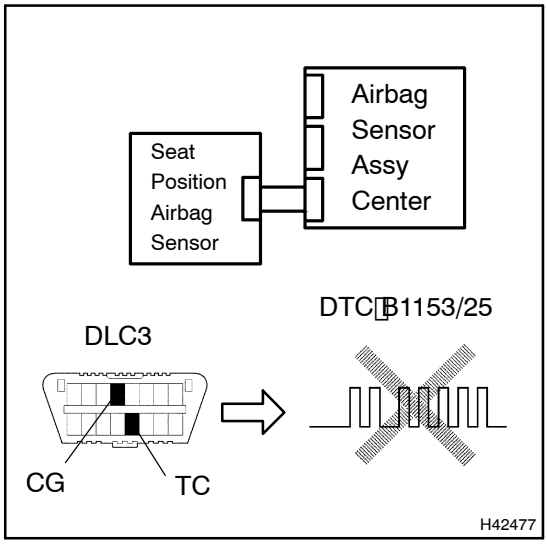
OK

USE SIMULATION METHOD TO CHECK

8	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 airbag sensor (see page 60–59).

9	CHECK AIRBAG SENSOR ASSY CENTER



(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 05–513).
(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 05–513).
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

USE SIMULATION METHOD TO CHECK