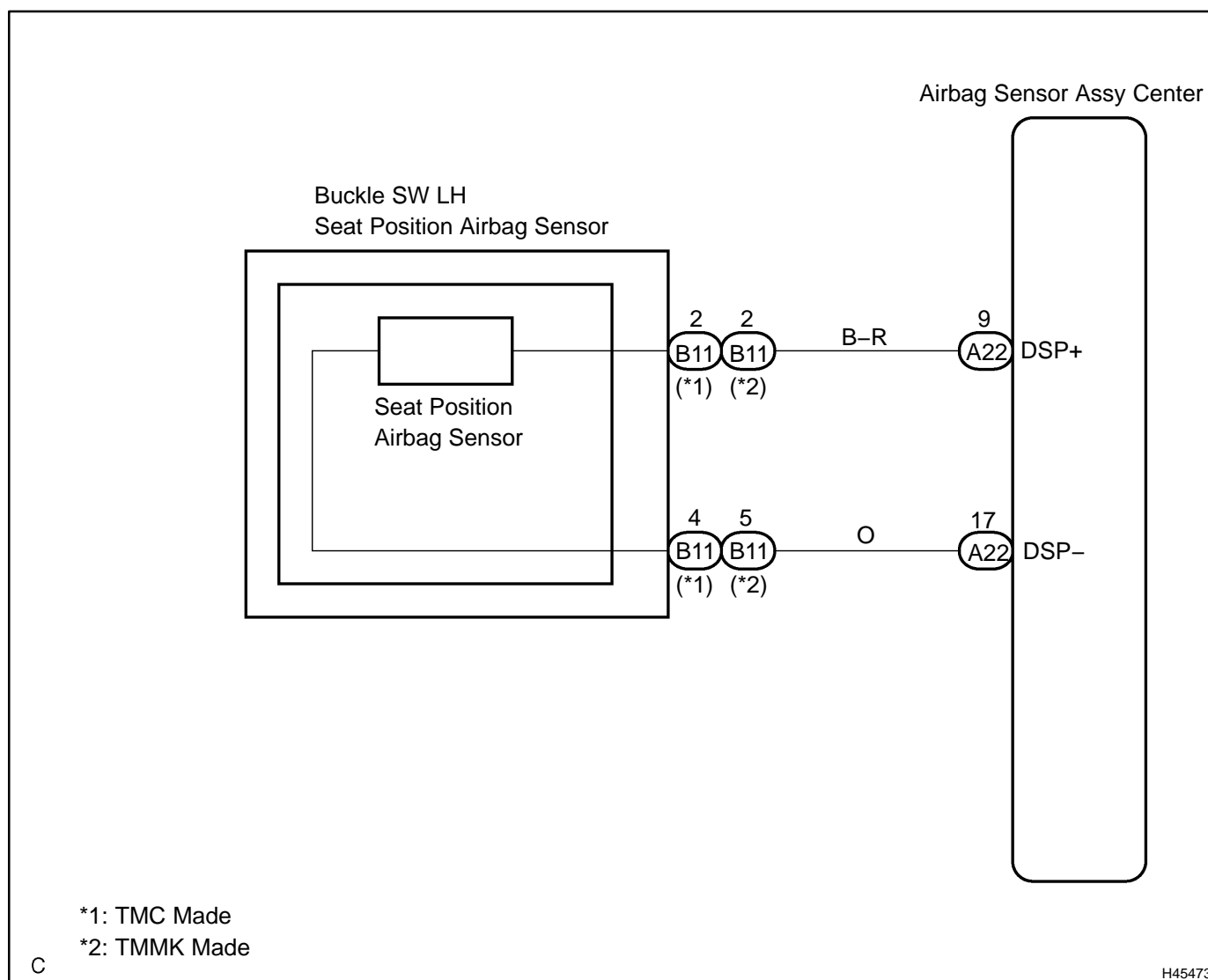| DTC	B1653/35	SEAT POSITION SENSOR ASSEMBLY MALFUNCTION

CIRCUIT DESCRIPTION

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

DTC B1653/35 is recorded when a malfunction is detected in the seat position airbag sensor circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1653/35	• The airbag sensor assy center receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the seat position airbag sensor circuit for 2 seconds. • Seat position airbag sensor malfunction • Airbag sensor assy center malfunction	• Seat position airbag sensor • Airbag sensor assy center • Floor wire

WIRING DIAGRAM

Airbag Sensor Assy Center

Buckle SW LH
Seat Position Airbag Sensor

Seat Position
Airbag Sensor

2   2   B–R   9
B11 B11   A22   DSP+
(*1) (*2)

4   5   O   17
B11 B11   A22   DSP–
(*1) (*2)

*1: TMC Made
*2: TMMK Made

C

H45473

INSPECTION PROCEDURE

CAUTION:

Be sure to perform the following procedures before troubleshooting to avoid unexpected airbag deployment.

(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 connectors from the airbag sensor assy center.

(d)　Disconnect the connectors from the horn button assy.

(e)　Disconnect the connectors from the front passenger airbag assy.

(f)　w/ Side airbag:
Disconnect the connector from the front seat airbag assy LH.

(g)　w/ Side airbag:
Disconnect the connector from the front seat airbag assy RH.

(h)　w/ Curtain shield airbag:
Disconnect the connector from the curtain shield airbag assy LH.

(i)　w/ Curtain shield airbag:
Disconnect the connector from the curtain shield airbag assy RH.

(j)　Disconnect the connector from the front seat outer belt assy LH.

(k)　Disconnect the connector from the front seat outer belt assy RH.

1	CHECK DTC

Seat Position Airbag Sensor — Airbag Sensor Assy Center

DLC3　　　DTC B1653/35

CG　TC

H01007
H10600　H43920
H43463
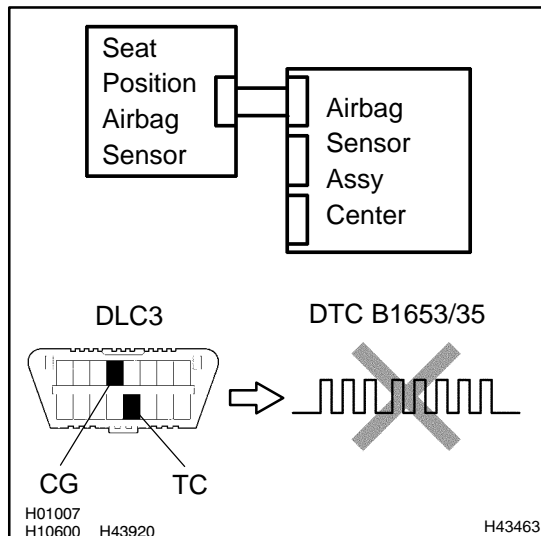
(a)　Connect the connectors to the airbag sensor assy center.

(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 05–1464).

(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 05–1464).

OK:

DTC B1653/35 is not output.

HINT:

Codes other than code B1653/35 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 (SEE PAGE 05–1456)

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.
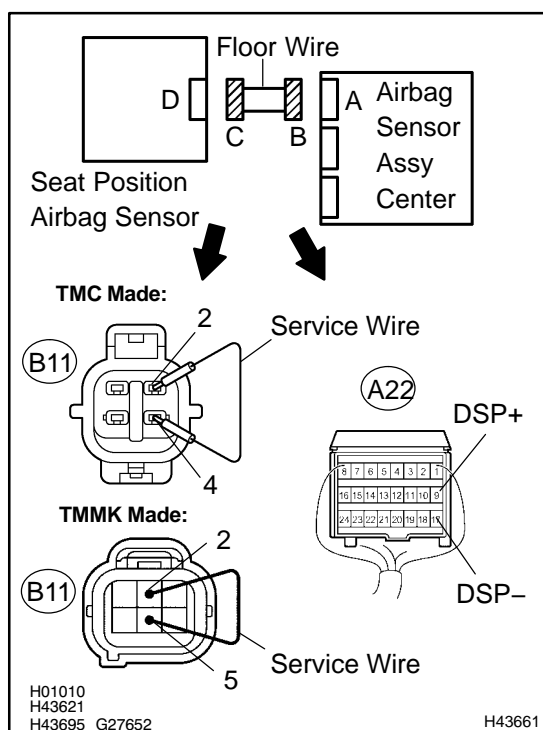
OK:

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) TMC Made:
Using a service wire, connect B11–2 and B11–4 of connector "C".

(c) TMMK Made:
Using a service wire, connect B11–2 and B11–5 of connector "C".

NOTICE:

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

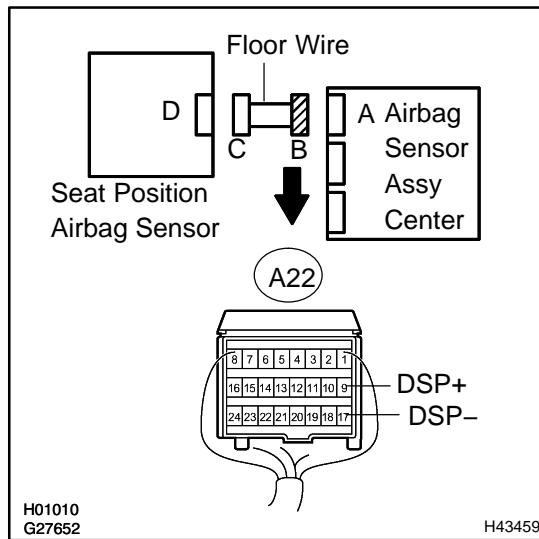(d) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A22–9 (DSP+) – A22–17 (DSP–)	Always	Below 1 Ω

> NG > REPAIR OR REPLACE FLOOR WIRE

OK

| 4 | CHECK FLOOR WIRE (SHORT) |

Floor Wire

D

C B

A Airbag
Sensor
Assy
Center

Seat Position
Airbag Sensor

A22

8 7 6 5 4 3 2 1
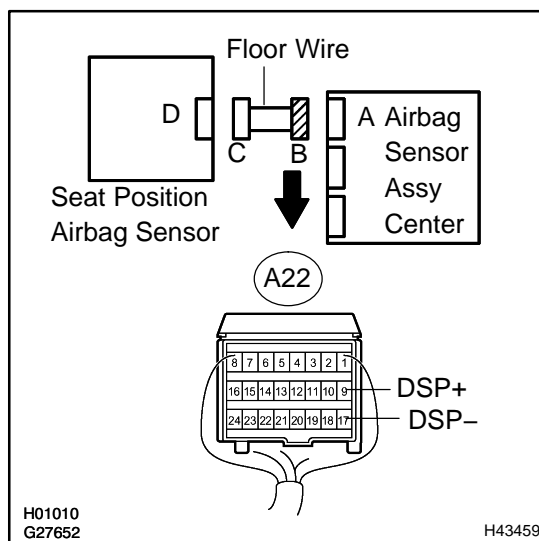16 15 14 13 12 11 10 9 — DSP+
24 23 22 21 20 19 18 17 — DSP–

H01010
G27652

H43459

(a) Disconnect the service wire from connector "C".
(b) Measure the resistance according to the value(s) in the table below.
Standard:

Tester connection	Condition	Specified condition
A22–9 (DSP+) – A22–17 (DSP–)	Always	1 MΩ or Higher

NG > **REPAIR OR REPLACE FLOOR WIRE**

OK

| 5 | CHECK FLOOR WIRE (TO B+) |

Floor Wire

D

C B

A Airbag
Sensor
Assy
Center

Seat Position
Airbag Sensor

A22

8 7 6 5 4 3 2 1
16 15 14 13 12 11 10 9 — DSP+
24 23 22 21 20 19 18 17 — DSP–

H01010
G27652

H43459

(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.
(c) Measure the voltage according to the value(s) in the table below.
Standard:

Tester connection	Condition	Specified condition
A22–9 (DSP+) – Body ground	Ignition switch ON	Below 1 V
A22–17 (DSP–) – Body ground	Ignition switch ON	Below 1 V

NG > **REPAIR OR REPLACE FLOOR WIRE**

OK

6	CHECK FLOOR WIRE (TO GROUND)
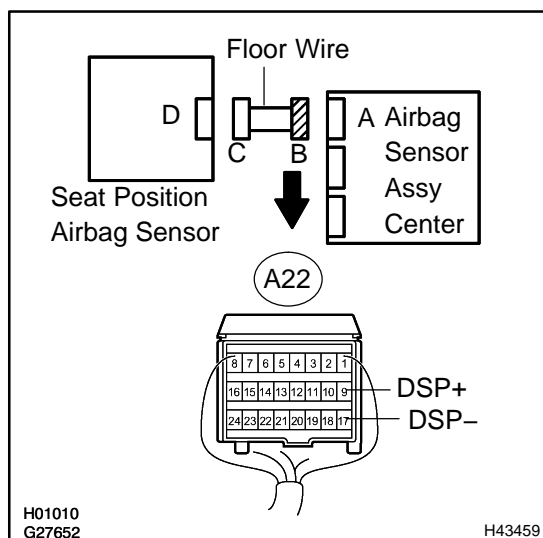
H01010
G27652
H43459

(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:

Tester connection	Condition	Specified condition
A22–9 (DSP+) – Body ground	Always	1 MΩ or Higher
A22–17 (DSP–) – Body ground	Always	1 MΩ or Higher

NG	**REPAIR OR REPLACE FLOOR WIRE**

OK

7	CHECK SEAT POSITION AIR BAG SENSOR

H01007
H10600 H43920
H43463
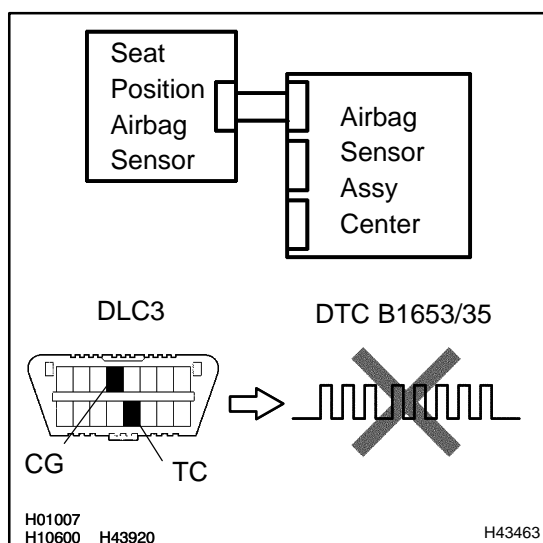
(a) Connect the connectors to the airbag sensor assy center.
(b) Connect the connector to the seat position airbag sensor.
(c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page 05–1464).
(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 05–1464).
OK:
DTC B1653/35 is not output.
HINT:
Codes other than code B1653/35 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 (SEE PAGE 05–1456)

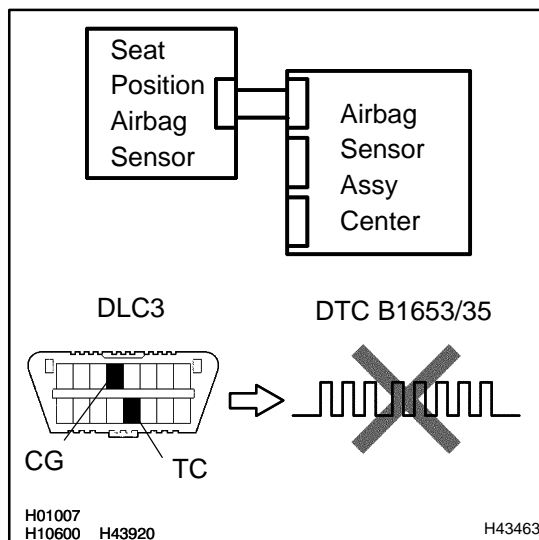| 8	REPLACE SEAT POSITION AIR BAG SENSOR

(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) Replace the seat position airbag sensor (see page 60–69).

HINT:

Perform the inspection using parts from a normal vehicle if possible.

NEXT

9	CHECK AIR BAG 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 05–1464).

(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 05–1464).

OK:

DTC B1653/35 is not output.

HINT:

Codes other than code B1653/35 may be output at this time, but they are not related to this check.

NG ➤ **REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60–59)**

OK

END