MALFUNCTION	DTC	B1650	OCCUPANT DETECTION SENSOR CIRCUIT MALFUNCTION
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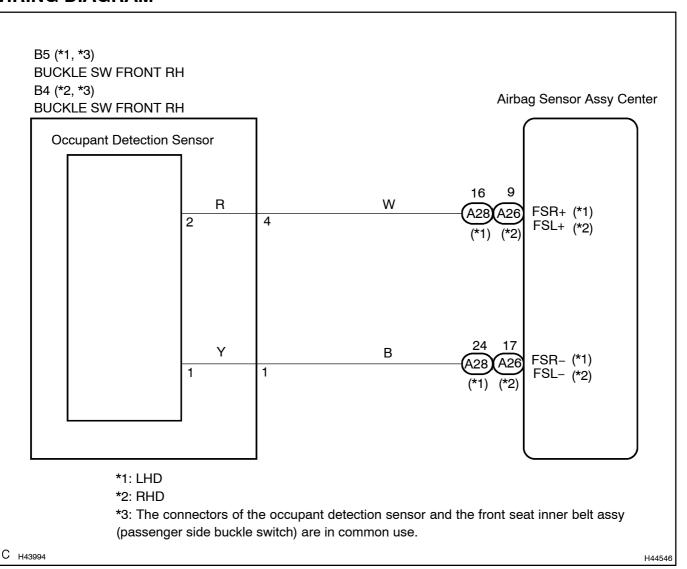
## **CIRCUIT DESCRIPTION**

The occupant detection sensor circuit consists of the airbag sensor assy center and the occupant detection sensor.

If the airbag sensor assy center receives signals from the occupant detection sensor, it determines whether or not the front passenger airbag assy and the front seat airbag assy (passenger side) should be operated. DTC B1650 is recorded when a malfunction is detected in the occupant detection sensor circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1650	<ul> <li>When the airbag sensor assy center receives a line short signal, open signal, short to ground signal or B+ short signal in the occupant detection sensor circuit for 2 seconds.</li> <li>Occupant detection sensor malfunction</li> <li>Airbag sensor assy center malfunction</li> </ul>	Floor wire     Occupant detection sensor     Airbag sensor assy center

### **WIRING DIAGRAM**



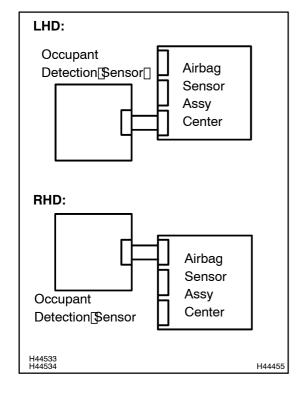
# **INSPECTION PROCEDURE**

#### **CAUTION:**

Besture io perform in eigolowing procedures before iroubleshooting io avoid unexpected airbag deployment.

- (a) Turn the ignition witch to the LOCK position.
- (b) Disconnect[the[hegative[]-)[terminal[cable[from[the[battery,[and[wait]for[atf]east[90[seconds.
- (c) Disconnect the connectors from the airbag sensor assy center.
- (d) Disconnect the connectors from he horn button assy.
- (e) Disconnect the connector from the front passenger airbag assy.
- (f) Disconnect the connector from the instrument panel airbag assy lower No.1.
- (g) Disconnect the connector from the instrument panel airbag assy ower No.2.
- (h) Disconnect the connector from the front seat air bag assy LH.
- (i) Disconnect the connector from the front seat airbag assy RH.
- (i) Disconnect the connector from the curtain shield airbag assy LH.
- (k) Disconnect the connector from the curtain shield airbag assy RH.
- (I) Disconnect the connector from the front seat outer belt assy LH.
- (m) Disconnect he connector from he front seat outer belt assy RH.
- (n) Disconnect the connectors from the rear seat point type outer belt assy.

## 1 | CHECK DTC



- (a) Connect the connectors to the time connect the connect to the connect the connect to the connect to the connect to the connect to the connect the connect to the con
- (b) Connect[the[hegative[(-)[terminal[cable[to[the[battery, and[wait]for[atf]east[2]\$econds.
- (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[05-959].
- (e) Turn the ignition witch to the LOCK position.
- (f) Turnthe ignition witch to the ON position, and wait for at least 60 seconds.
- (g) Check the  $\DTCs$  see page  $\DTCs$ .

OK:

DTC B1650 is not output.

HINT:

Codes other than code B1650 may be output at this time, but they are not related to this check.

NG

Go to step 2

OK

USE[\$IMULATION[METHOD[TO[CHECK[SEE[PAGE[05-954]

## 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 occupant detection sensor.

OK:

The connectors are connected.

NG CONNECT CONNECTORS, THEN GO TO STEP

OK

### 3 CHECK VEHICLE

(a) Check that the steering position of the vehicle.

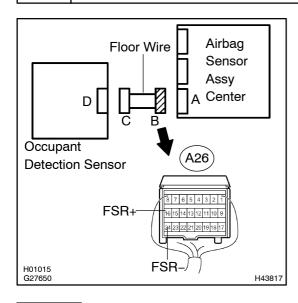
Result:

A: LHD B: RHD

B Go to step 10

\_ A

## 4 CHECK FLOOR WIRE(TO B+)



- (a) Disconnect the connectors from the airbag sensor assy center and the occupant detection sensor.
- (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.

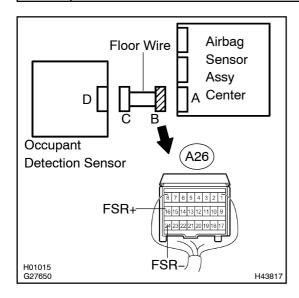
#### Standard:

Tester connection	Condition	Specified condition
A26–16 (FSR+) – Body ground	Ignition switch ON	Below 1 V
A26–24 (FSR–) – Body ground	Ignition switch ON	Below 1 V

NG )

REPAIR OR REPLACE FLOOR WIRE

# 5 CHECK FLOOR WIRE(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.

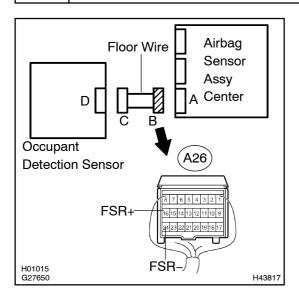
### Standard:

Tester connection	Condition	Specified condition
A26–16 (FSR+) – Body ground	Always	1 M $\Omega$ or Higher
A26-24 (FSR-) - Body ground	Always	1 M $\Omega$ or Higher

NG REPAIR OR REPLACE FLOOR WIRE



## 6 | CHECK FLOOR WIRE(SHORT)



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

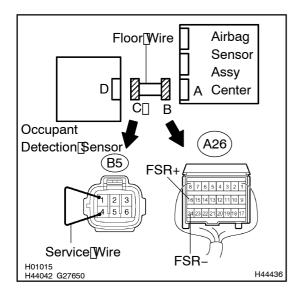
#### Standard:

Tester connection	Condition	Specified condition
A26-16 (FSR+) - A26-24 (FSR-)	Always	1 M $\Omega$ or Higher

NG )

REPAIR OR REPLACE FLOOR WIRE

## 7 CHECK[FLOOR[WIRE(OPEN)



#### NOTICE:

Domotforcibly insertals ervice wire into the ferminals of the connector when connecting.

(b) Measure[the[resistance[according[to[the[value(s)]]n[the table[below.

#### Standard:

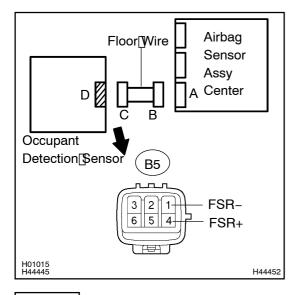
Tester@onnection	Condition	Specified@ondition
A26-16[[FSR+) - A26-24[[FSR-)	Always	Below[] [Ω

NG□

REPAIR OR REPLACE FLOOR WIRE



## 8 | CHECK OCCUPANT DETECTION SENSOR



- (a) Disconnect the service vire from connector C.
- (b) Measure the resistance according to the value (s) in the table below.

#### **NOTICE:**

Connect[the[positive[tester[lead[to[terminal[FSR+,[and[the negative[tester[lead[to[terminal[FSR-.

#### Standard:

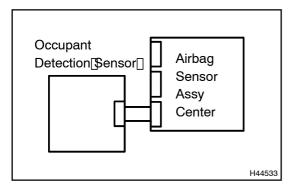
Tester@onnection	Condition	Specified@ondition
B5-4[[FSR+) - B5-1[[FSR-)	Passenger[]s[]hot[]seated	Below[50[kΩ
B5-4[[FSR+) - B5-1 (FSR-)	Passenger is seated	50 kΩ or Higher

NG \

REPLACE OCCUPANT DETECTION SENSOR (SEE[PAGE[72-3)



## 9 CHECK AIR BAG SENSOR ASSY CENTER



- (a) Connect the connectors to the airbag sensor assy center and the occupant detection sensor.
- (b) ☐ Connect ☐ the ☐ negative ☐ (-) ☐ terminal ☐ cable ☐ to ☐ the ☐ battery, and ☐ wait ☐ or at ☐ east ☐ seconds.
- (c) Turn the tignition witch to the ON position, and wait for at least 60 seconds.
- (d) Clear[the[DTCs[stored[in[memory[]see[page[05-959].
- (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 [he] DTCs [see] page [05-959].

OK:

DTC B1650 is not output.

HINT:

Codes other than code B1650 may be output at this time, but they are not related to this check.

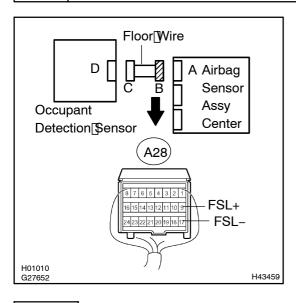


REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60-74)

OK

### USE[\$IMULATION[METHOD[TO]CHECK[[SEE]PAGE[05-954])

## 10 CHECK FLOOR WIRE(TO B+)



- (a) Disconnect the connectors from the airbag sensor assy center and the occupant detection sensor.
- (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.

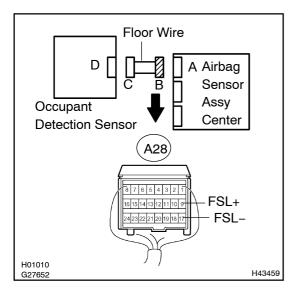
#### Standard:

Tester connection	Condition	Specified condition
A28-9 (FSL+) - Body ground	Ignition switch ON	Below 1 V
A28–17 (FSL–) – Body ground	Ignition switch ON	Below 1 V

NG >

REPAIR OR REPLACE FLOOR WIRE

# 11 CHECK FLOOR WIRE(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:

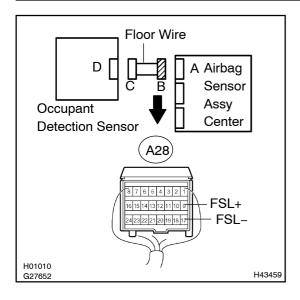
Tester connection	Condition	Specified condition
A28–9 (FSL+) – Body ground	Always	1 M $\Omega$ or Higher
A28-17 (FSL-) - Body ground	Always	1 M $\Omega$ or Higher

NG )

REPAIR OR REPLACE FLOOR WIRE



## 12 CHECK FLOOR WIRE(SHORT)



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

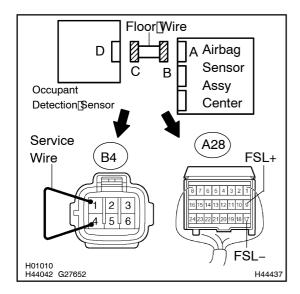
### Standard:

Tester connection	Condition	Specified condition
A28-9 (FSL+) - A28-17 (FSL-)	Always	1 M $\Omega$ or Higher

NG `

REPAIR OR REPLACE FLOOR WIRE

# 13 | CHECK[FLOOR[WIRE(OPEN)



(a) Using a service wire, connect B4-4 and B4-1 of connector C".

#### **NOTICE:**

Domotforcibly insertals ervice wire into the ferminals of the connector when connecting.

(b) Measure[the[resistance[according[to[the[value(s)]]n[the table[below.

#### Standard:

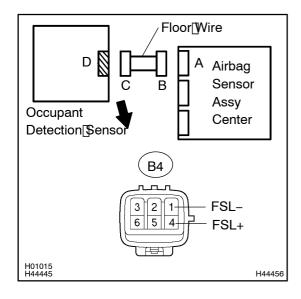
Tester@onnection	Condition	Specified@ondition
A28-9∏FSL+) - A28-17∏FSL-)	Always	Below[] [Ω

NG□

REPAIR OR REPLACE FLOOR WIRE



# 14 | CHECK OCCUPANT DETECTION SENSOR



- (a) Disconnect the service vire from connector C.
- (b) Measure the resistance according to the value (s) in the table below.

#### **NOTICE:**

Connect[the[positive[tester[lead[to[terminal[FSL+,[and[the negative[tester[lead[to[terminal[FSL-.

### Standard:

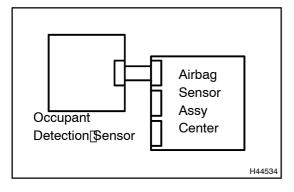
Tester@onnection	Condition	Specified@ondition
B4-4[[FSL+) - B4-1[[FSL-)	Passenger[]s[]hot[]seated	Below[50[kΩ
B4-4[[FSL+) - B4-1 (FSL-)	Passenger is seated	50 kΩ or Higher

NG \

REPLACE OCCUPANT DETECTION SENSOR (SEE[PAGE[72-3)



## 15 CHECK AIR BAG SENSOR ASSY CENTER



- (a) Connect[the[connectors[to[the[airbag[sensor[assy[center.
- (b) Connect the connector to the occupant detection sensor.
- (c) Connect[the[hegative](-)[terminal[cable]to[the[battery, and[wait]for[atf]east[2]seconds.
- (d) Turnthe ignition witch to the Nposition, and wait for at least 60 seconds.
- (e) Clear[the[DTCs[stored[in[memory[[see]page[05-959]].
- (f)  $\square$  Turn  $\square$  the  $\square$  gnition  $\square$  witch  $\square$  to  $\square$  the  $\square$  LOCK  $\square$  position.
- (g) Turnthe ignition witch to the ON position, and wait for at least 60 seconds.
- (h) Check the DTCs see page 05-959).

OK:

DTC[B1650[]s[not[output.

HINT:



REPLACE[AIR[BAG[\$ENSOR[ASSY[CENTER (SEE[PAGE[60-74)

OK

USE[\$IMULATION[METHOD[TO[CHECK[[SEE[PAGE[05-954]