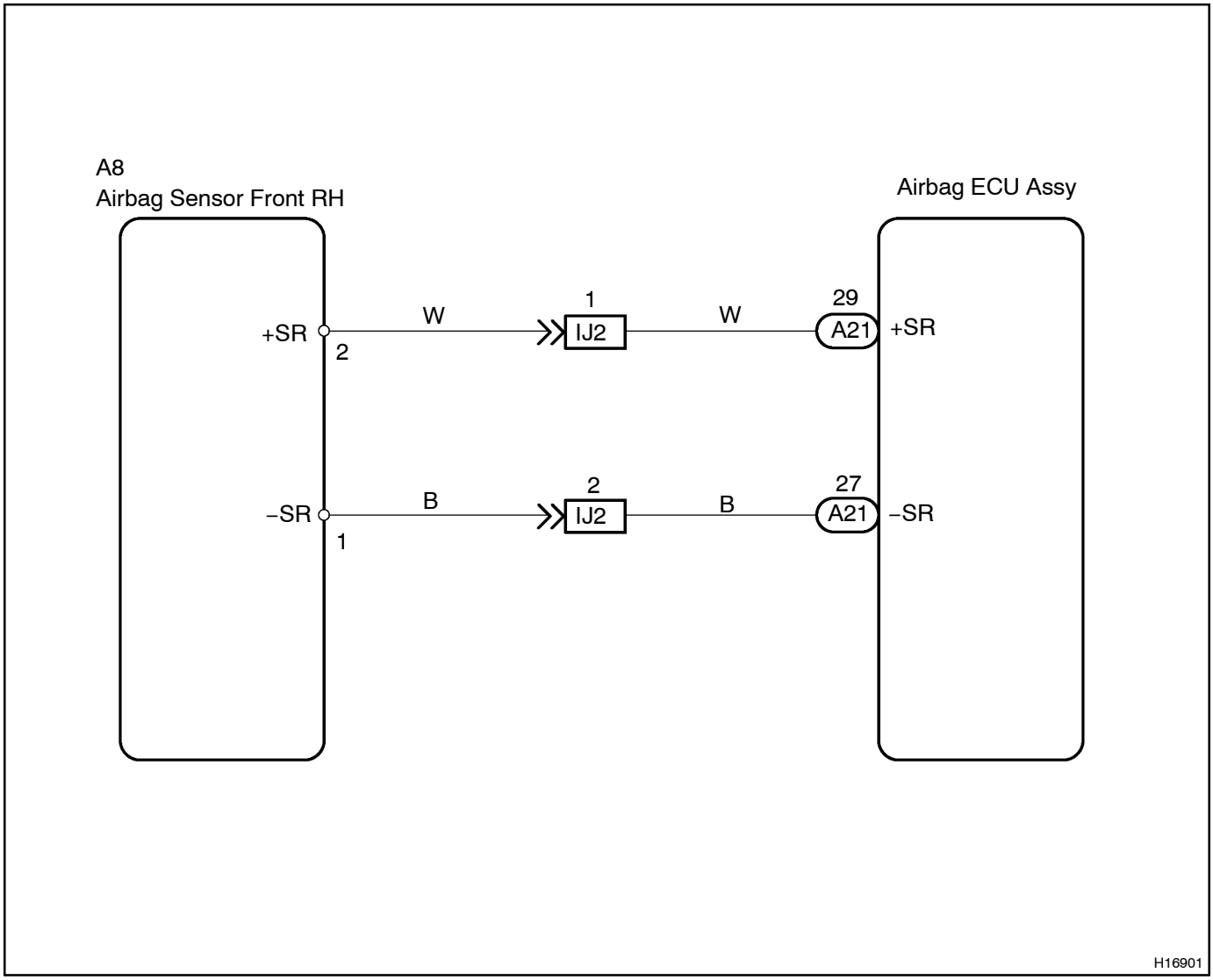
| DTC | B1610 | FRONT AIRBAG SENSOR (RH) MALFUNCTION |
|---|---|---|

## CIRCUIT DESCRIPTION

The front airbag sensor RH consists of the diagnostic circuit, the frontal deceleration sensor, etc.
If the airbag ECU assy receives signals from the frontal deceleration sensor, it determines whether or not the SRS should be activated.
DTC B1610 is recorded when a malfunction is detected in the front airbag sensor RH circuit.

| DTC No. | DTC Detecting Condition | Trouble Area |
|---|---|---|
| B1610 | • When the airbag ECU assy receives an open signal in the front airbag sensor RH circuit for 2 seconds.<br>• Airbag sensor front RH malfunction<br>• Airbag ECU assy malfunction | • Instrument panel wire<br>• Engine room main wire<br>• Airbag sensor front RH<br>• Airbag ECU assy |

## WIRING DIAGRAM



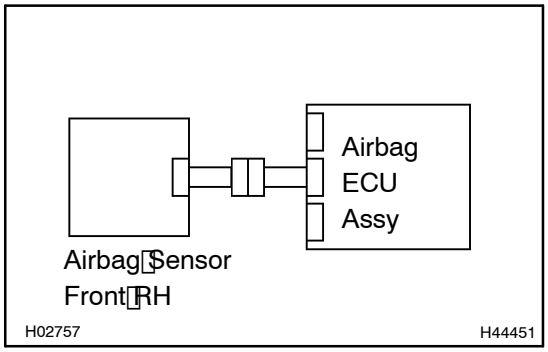
## INSPECTION PROCEDURE

**CAUTION:**

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

(a) Turn the power switch off.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag ECU assy.
(d) Disconnect the connectors from the horn button assy.
(e) Disconnect the connectors from the front passenger airbag assy.
(f) Disconnect the connector from the front seat airbag assy LH.
(g) Disconnect the connector from the front seat airbag assy RH.
(h) Disconnect the connector from the curtain shield airbag assy LH.
(i) 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 |
|---|---|




(a) Connect the connectors to the airbag ECU assy.
(b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the power switch on (IG), and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (see page 05–1170).
(e) Turn the power switch off.
(f) Turn the power switch on (IG), and wait for at least 60 seconds.
(g) Check the DTCs (see page 05–1170).

**OK:**

**DTC B1610 is not output.**

HINT:

Codes other than code B1610 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 05–1165)**

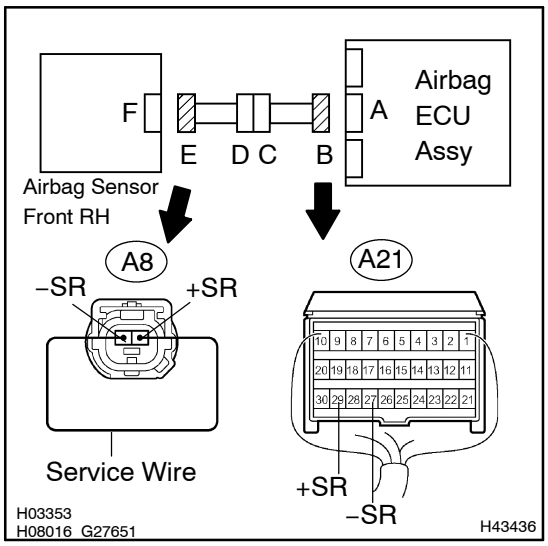
## 2 CHECK CONNECTION OF CONNECTORS

(a) Turn the power switch off.
(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 ECU assy and the airbag sensor front RH.
**OK:**
**The connectors are connected.**

**NG** → **CONNECT CONNECTORS, THEN GO TO STEP 1**

**OK**

## 3 CHECK FRONT AIRBAG SENSOR (RH) CIRCUIT (OPEN)




(a) Disconnect the connectors from the airbag ECU assy and the airbag sensor front RH.
(b) Using a service wire, connect A8–2 (+SR) and A8–1 (–SR) of connector "E".

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

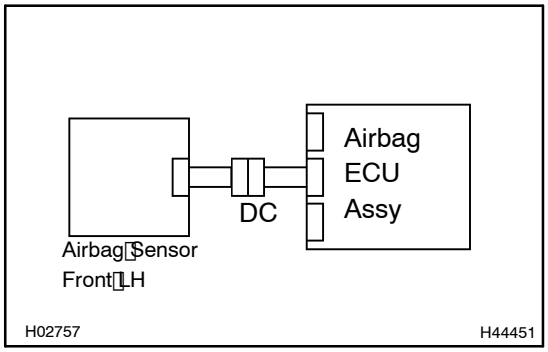
(c) Measure the resistance according to the value(s) in the table below.
**Standard:**

| Tester connection | Condition | Specified condition |
|---|---|---|
| A21–29 (+SR) – A21–27 (–SR) | Always | Below 1 Ω |

**NG** → **Go to step 5**

**OK**

## 4 CHECK AIRBAG SENSOR FRONT RH




(a) Connect the connectors to the airbag ECU assy.
(b) Interchange the airbag sensor front RH with the airbag sensor front LH and connect the connectors to them.
(c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the power switch on (IG), and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page 05–1170).
(f) Turn the power switch off.
(g) Turn the power switch on (IG), and wait for at least 60 seconds.
(h) Check the DTCs (see page 05–1170).

**Result:**

| | |
|---|---|
| DTC B1610 is output. | A |
| DTC B1615 is output. | B |
| DTC B1610 or B1615 are not output. | C |

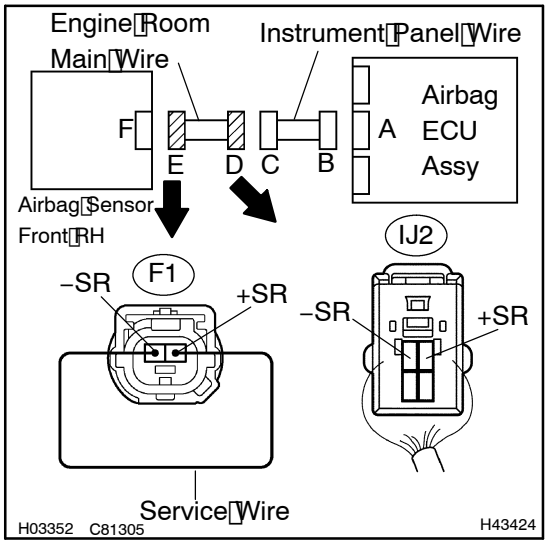
**A** → **REPLACE AIR BAG ECU ASSY (SEE PAGE 60–54)**

**B** → **REPLACE AIRBAG SENSOR FRONT RH (SEE PAGE 60–56)**

**C**

**USE SIMULATION METHOD TO CHECK (SEE PAGE 60–29)**

## 5 CHECK ENGINE ROOM MAIN WIRE(OPEN)




(a) Disconnect the engine room main wire connector from the instrument panel wire.

HINT:
The service wire has already been inserted into connector "E".

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

**Standard:**

| Tester connection | Condition | Specified condition |
|---|---|---|
| IJ2–1 (+SR) – IJ2–2 (–SR) | Always | Below 1 Ω |

**NG** → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

**OK**

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**