DTC	B1000	AIRBAG SENSOR ASSY CENTER MALFUNCTION

CIRCUIT DESCRIPTION

The airbag sensor assy center consists of the airbag sensor, the safing sensor, the drive circuit, the diagnostic circuit, the ignition control, etc.

If the airbag sensor assy center receives signals from the airbag sensor, it determines whether or not the SRS should be activated.

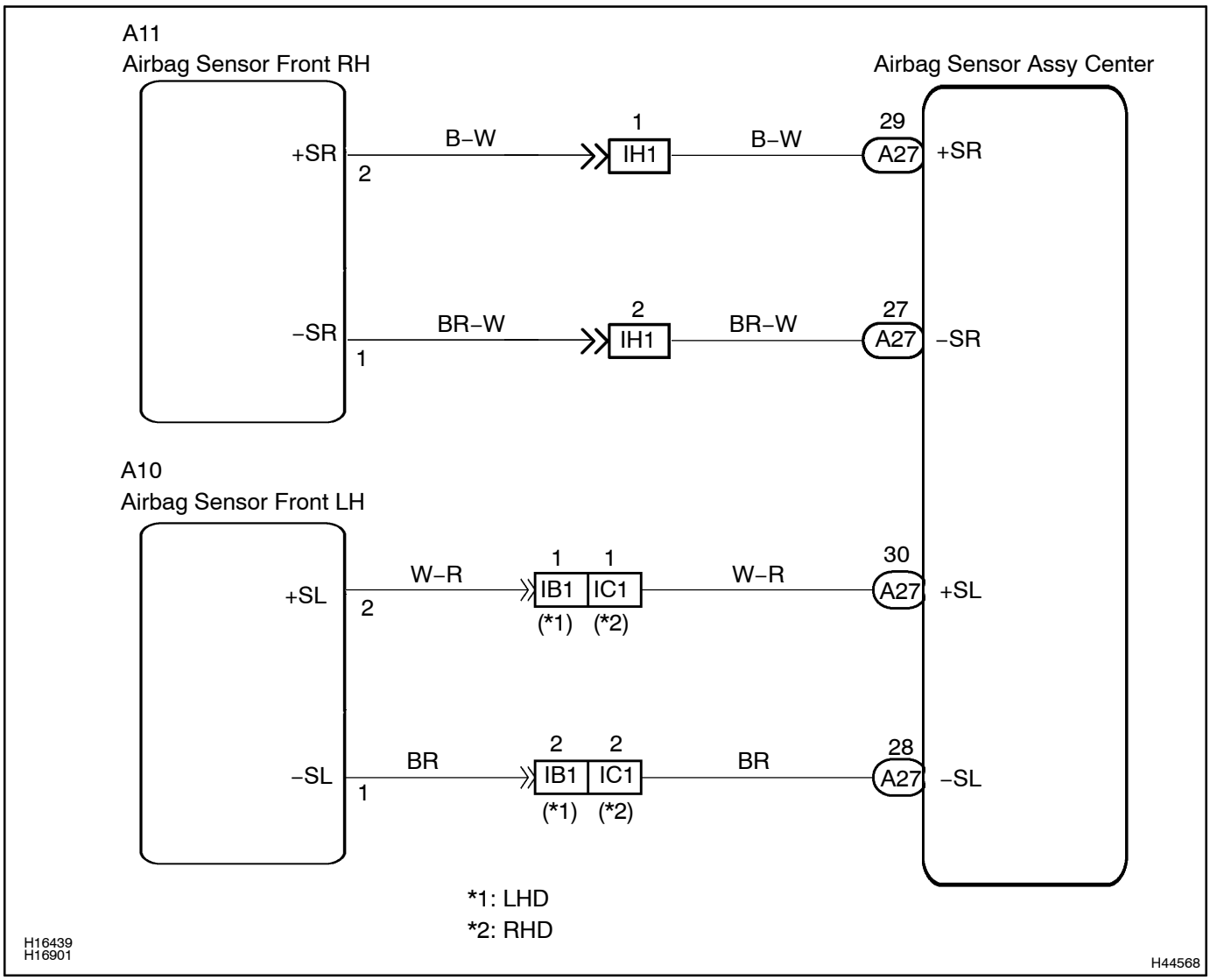
B1000 is recorded when a malfunction is detected in the airbag sensor assy center.

DTC No.	DTC Detecting Condition	Trouble Area
B1000	• Airbag sensor assy center malfunction • When the airbag sensor assy center receives a line short signal, short to ground signal or B+ short signal in the front airbag sensor LH circuit for 2 seconds. • When the airbag sensor assy center receives a line short signal, short to ground signal or B+ short signal in the front airbag sensor RH circuit for 2 seconds.	• Instrument panel wire • Engine room main wire • Airbag sensor front LH • Airbag sensor front RH • Airbag sensor assy center

HINT:

When a trouble code is displayed simultaneously with B1000, repair the malfunction indicated by this code (except B1000) first.

WIRING DIAGRAM



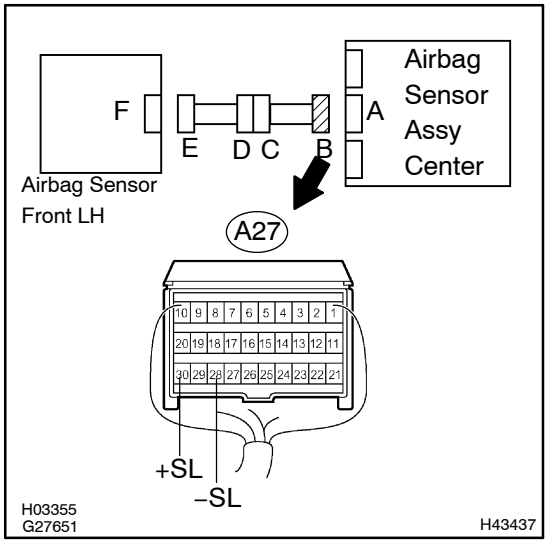
INSPECTION PROCEDURE

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 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 lower No.2.
(h) Disconnect the connector from the front seat airbag assy LH.
(i) Disconnect the connector from the front seat airbag assy RH.
(j) Disconnect the connector from the curtain shield airbag assy LH.
(k) Disconnect the connector from the curtain shield airbag assy RH.
(l) Disconnect the connector from the front seat outer belt assy LH.
(m) Disconnect the connector from the front seat outer belt assy RH.
(n) Disconnect the connectors from the rear seat 3 point type outer belt assy.

1	CHECK FRONT AIRBAG SENSOR (LH) CIRCUIT(TO B+)



(a) Disconnect the connector from the airbag sensor front LH.
(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.

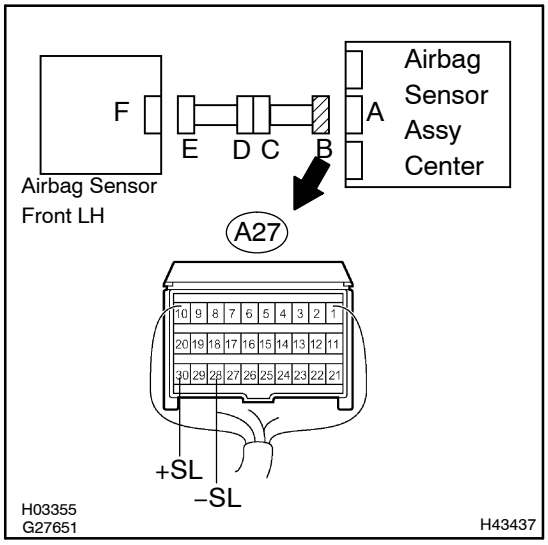
Standard:

Tester connection	Condition	Specified condition
A27–30 (+SL) – Body ground	Ignition switch ON	Below 1 V
A27–28 (–SL) – Body ground	Ignition switch ON	Below 1 V

NG → **Go to step 8**

OK

2 CHECK FRONT AIRBAG SENSOR (LH) CIRCUIT(SHORT)



(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.

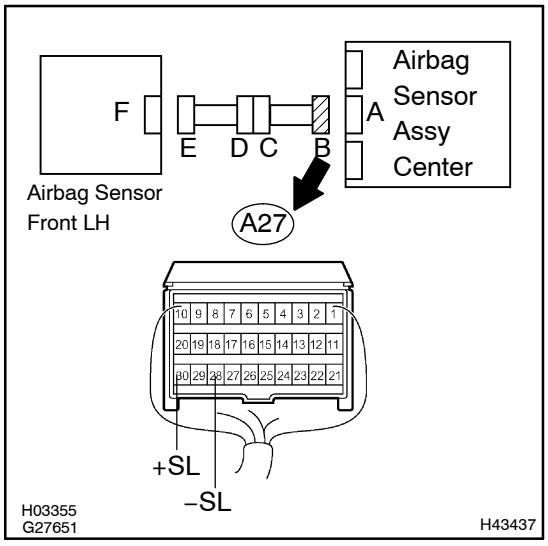
Standard:

Tester connection	Condition	Specified condition
A27–30 (+SL) – A27–28 (–SL)	Always	1 MΩ or Higher

NG → **Go to step 9**

OK

3 CHECK FRONT AIRBAG SENSOR (LH) CIRCUIT(TO GROUND)



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

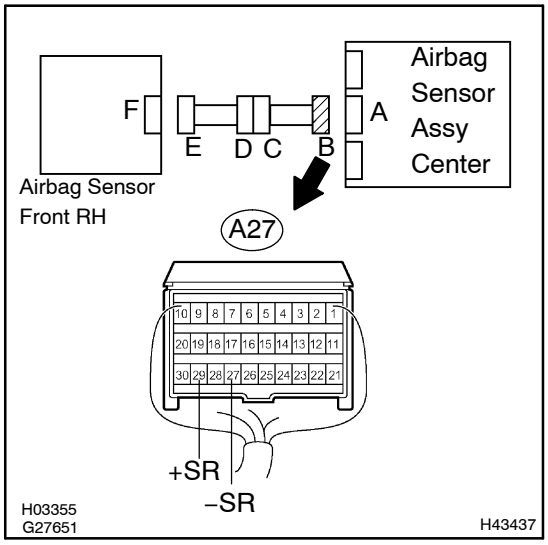
Standard:

Tester connection	Condition	Specified condition
A27–30 (+SL) – Body ground	Always	1 MΩ or Higher
A27–28 (–SL) – Body ground	Always	1 MΩ or Higher

NG → **Go to step 10**

OK

4 CHECK FRONT AIRBAG SENSOR (RH) CIRCUIT(TO B+)



(a) Disconnect the connector from the airbag sensor front RH.
(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.

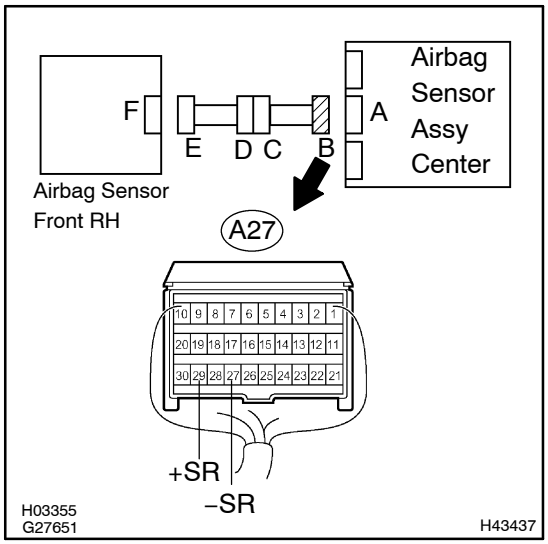
Standard:

Tester connection	Condition	Specified condition
A27–29 (+SR) – Body ground	Ignition switch ON	Below 1 V
A27–27 (–SR) – Body ground	Ignition switch ON	Below 1 V

NG → **Go to step 11**

OK

5 CHECK FRONT AIRBAG SENSOR (RH) CIRCUIT(SHORT)



(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.

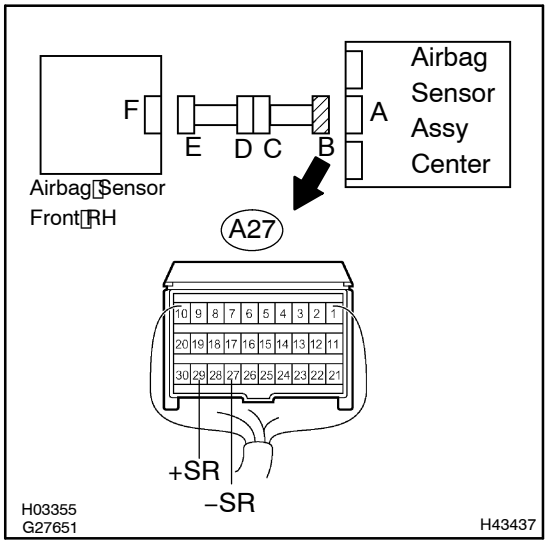
Standard:

Tester connection	Condition	Specified condition
A27–29 (+SR) – A27–27 (–SR)	Always	1 MΩ or Higher

NG → **Go to step 12**

OK

6 CHECK FRONT AIRBAG SENSOR (RH) CIRCUIT (TO GROUND)



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

Standard:

Tester connection	Condition	Specified condition
A27–29 (+SR) – Body ground	Always	1 MΩ or Higher
A27–27 (–SR) – Body ground	Always	1 MΩ or Higher

NG → **Go to step 13**

OK

7 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 05–959).
(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 05–959).

OK:

DTC B1000 is not output.

HINT:

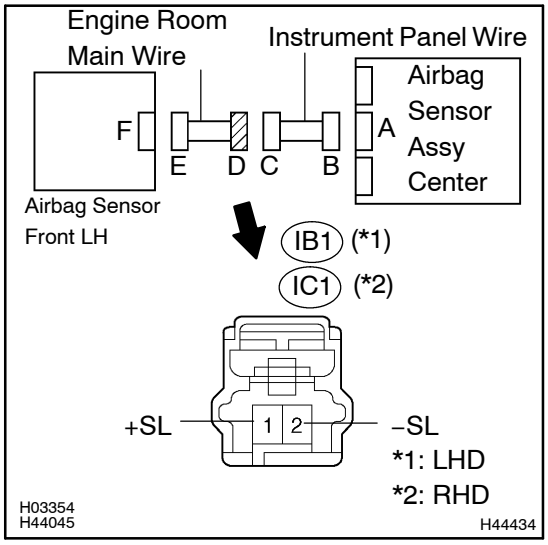
Codes other than code B1000 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60–74)**

OK

USE SIMULATION METHOD TO CHECK (SEE PAGE 05–954)

8 CHECK ENGINE ROOM MAIN WIRE(TO B+)



(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 engine room main wire connector from the instrument panel wire.
(d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position.
(f) Measure the voltage according to the value(s) in the table below.

Standard:

LHD:

Tester connection	Condition	Specified condition
IB1–1 (+SL) – Body ground	Ignition switch ON	Below 1 V
IB1–2 (–SL) – Body ground	Ignition switch ON	Below 1 V

RHD:

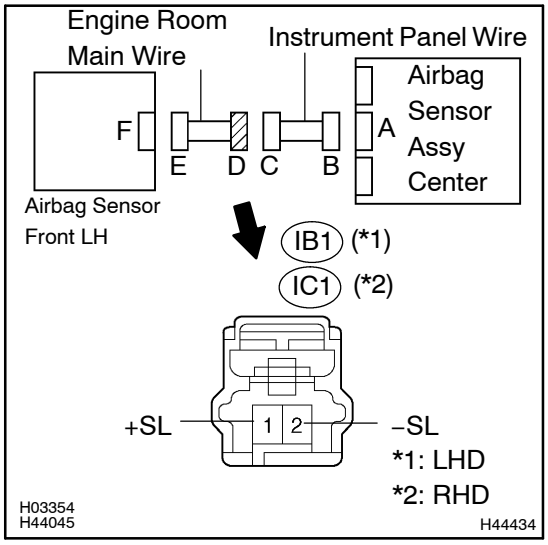
Tester connection	Condition	Specified condition
IC1–1 (+SL) – Body ground	Ignition switch ON	Below 1 V
IC1–2 (–SL) – Body ground	Ignition switch ON	Below 1 V

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

9 CHECK ENGINE ROOM MAIN WIRE(SHORT)



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

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

Standard:

LHD:

Tester connection	Condition	Specified condition
IB1–1 (+SL) – IB1–2 (–SL)	Always	1 MΩ or Higher

RHD:

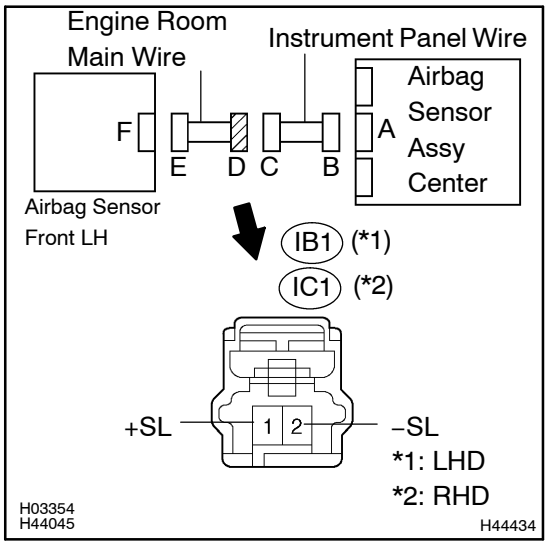
Tester connection	Condition	Specified condition
IC1–1 (+SL) – IC1–2 (–SL)	Always	1 MΩ or Higher

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

10 CHECK ENGINE ROOM MAIN WIRE(TO GROUND)



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

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

Standard:

LHD:

Tester connection	Condition	Specified condition
IB1–1 (+SL) – Body ground	Always	1 MΩ or Higher
IB1–2 (–SL) – Body ground	Always	1 MΩ or Higher

RHD:

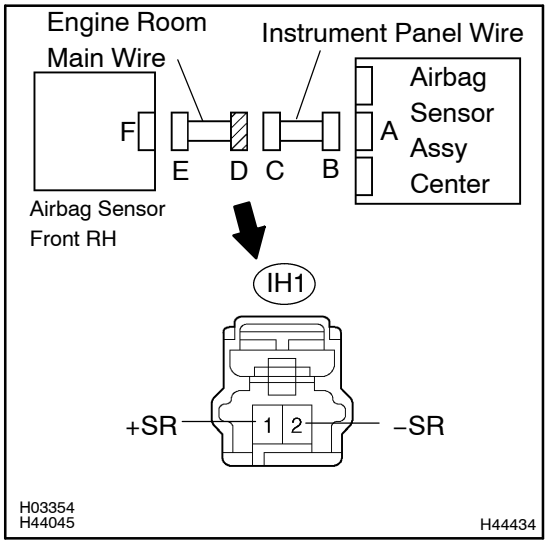
Tester connection	Condition	Specified condition
IC1–1 (+SL) – Body ground	Always	1 MΩ or Higher
IC1–2 (–SL) – Body ground	Always	1 MΩ or Higher

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

11 CHECK ENGINE ROOM MAIN WIRE(TO B+)



(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 engine room main wire connector from the instrument panel wire.
(d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position.
(f) Measure the voltage according to the value(s) in the table below.

Standard:

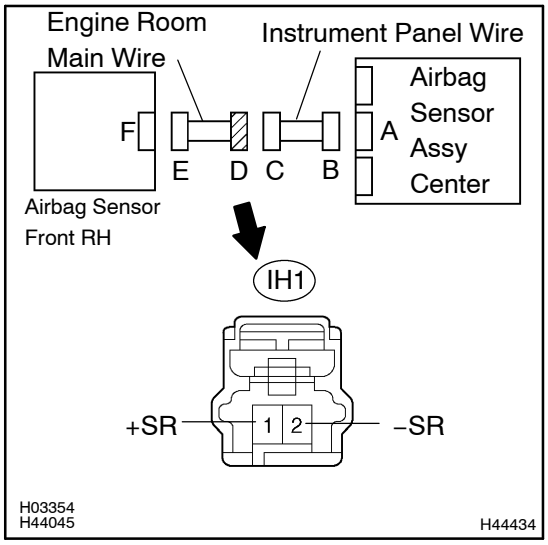
Tester connection	Condition	Specified condition
IH1–1 (+SR) – Body ground	Ignition switch ON	Below 1 V
IH1–2 (–SR) – Body ground	Ignition switch ON	Below 1 V

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

12 CHECK ENGINE ROOM MAIN WIRE(SHORT)



(a) Disconnect the engine room main wire connector from the instrument panel wire.
(b) Measure the resistance according to the value(s) in the table below.

Standard:

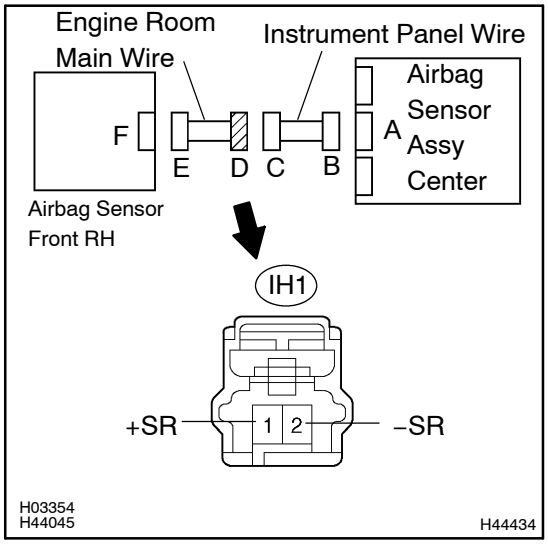
Tester connection	Condition	Specified condition
IH1–1 (+SR) – IH1–2 (–SR)	Always	1 MΩ or Higher

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

13 CHECK ENGINE ROOM MAIN WIRE(TO GROUND)



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

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

Standard:

Tester connection	Condition	Specified condition
IH1–1 (+SR) – Body ground	Always	1 MΩ or Higher
IH1–2 (–SR) – Body ground	Always	1 MΩ or Higher

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE