

DTC

B1000/31

Center Airbag Sensor Assembly Malfunction

DESCRIPTION

The center airbag sensor assembly consists of parts such as the airbag sensor, the safing sensor, the drive circuit, the diagnostic circuit and the ignition control.

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

B1000/31 is set when a malfunction is detected in the center airbag sensor assembly .

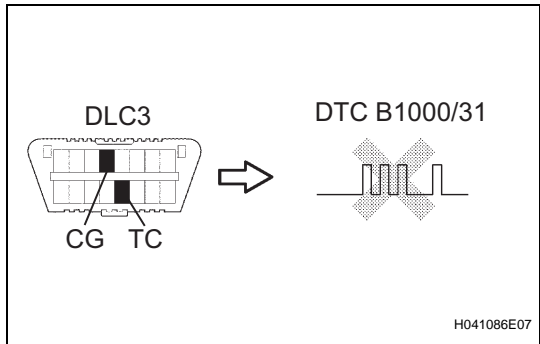
DTC No.	DTC Detecting Condition	Trouble Area
B1000/31	• Center airbag sensor assembly malfunction	• Center airbag sensor assembly

HINT:

When any other DTCs are set simultaneously with B1000/31, repair the malfunctions indicated by those DTCs first.

1

CHECK CENTER AIRBAG SENSOR ASSEMBLY



- (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) 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 any DTCs stored in the memory (See page RS-34).
- (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 for DTCs (See page RS-34).

OK:

DTC B1000/31 is not output.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

<b>DTC</b>	<b>B1610/13</b>	<b>Front Airbag Sensor RH Circuit Malfunction</b>
<b>DTC</b>	<b>B1615/14</b>	<b>Front Airbag Sensor LH Circuit Malfunction</b>

## DESCRIPTION

The front airbag sensor RH consists of parts such as the diagnostic circuit and the frontal detection sensor.

The configuration of the front airbag sensor LH is the same as that of the RH.

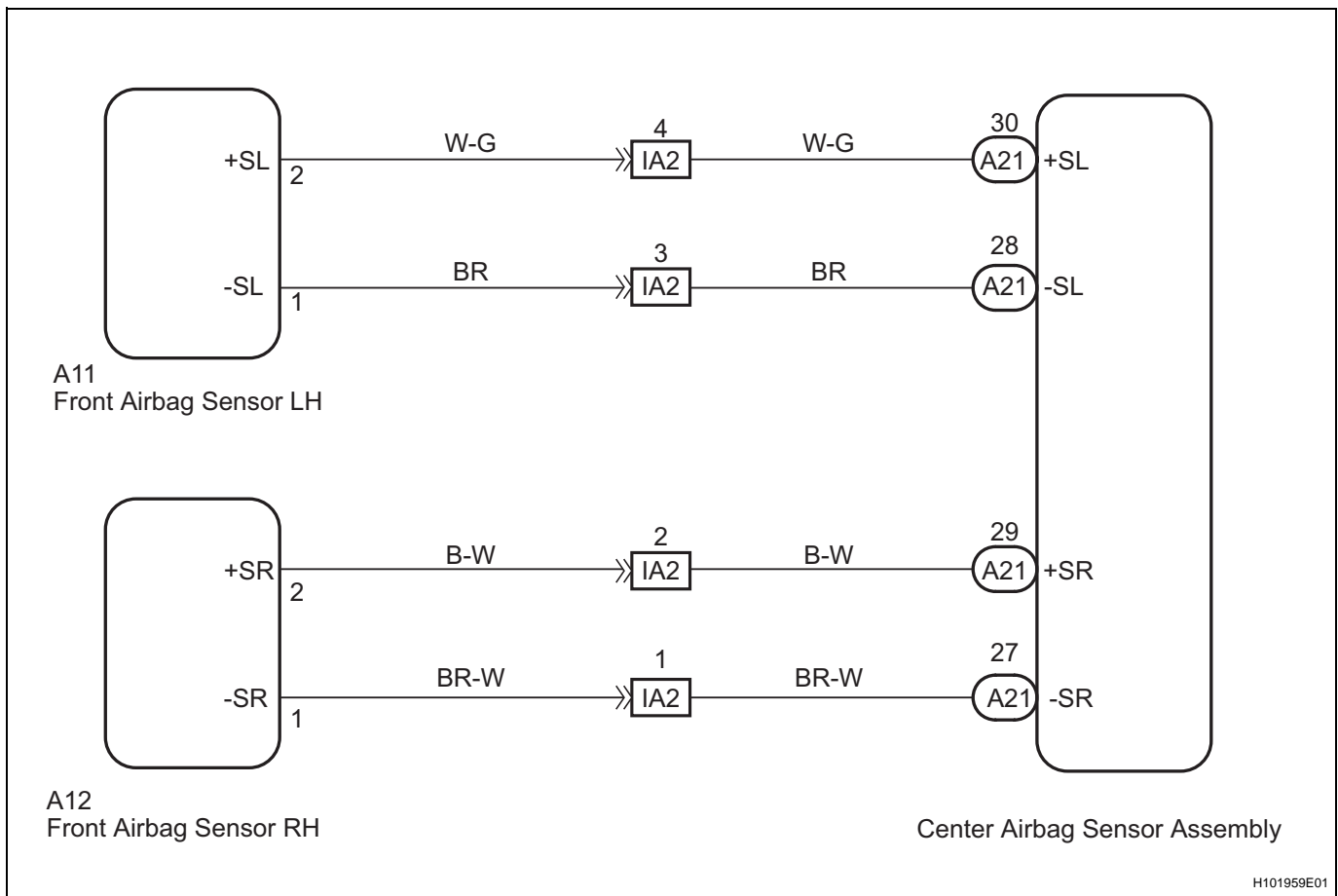
When the center airbag sensor assembly receives signals from the frontal deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1610/13 is set when a malfunction is detected in the front airbag sensor RH circuit.

DTC B1615/14 is set when a malfunction is detected in the front airbag sensor LH circuit.

DTC No.	DTC Detecting Condition	Trouble Areas
B1610/13	<ul style="list-style-type: none"> <li>The center airbag sensor assembly receives a line short signal, an open signal, a short to ground signal or a short to B+ signal in the front airbag sensor RH circuit for 2 seconds</li> <li>Front airbag sensor RH malfunction</li> <li>Center airbag sensor assembly malfunction</li> </ul>	<ul style="list-style-type: none"> <li>Front airbag sensor RH</li> <li>Center airbag sensor assembly</li> <li>Instrument panel wire</li> <li>Engine room main wire</li> </ul>
B1615/14	<ul style="list-style-type: none"> <li>The center airbag sensor assembly receives a line short signal, an open signal, a short to ground signal or a short to B+ signal in the front airbag sensor LH circuit for 2 seconds</li> <li>Front airbag sensor LH malfunction</li> <li>Center airbag sensor assembly malfunction</li> </ul>	<ul style="list-style-type: none"> <li>Front airbag sensor LH</li> <li>Center airbag sensor assembly</li> <li>Instrument panel wire</li> <li>Engine room main wire</li> </ul>

## WIRING DIAGRAM



**CAUTION:**

In order to prevent unexpected airbag deployment, disconnect the following connectors before inspecting parts such as wire harnesses, if the application of tester probes to the center airbag sensor assembly connector is necessary.

- (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 center airbag sensor assembly.
- (d) Disconnect the connectors from the steering pad.
- (e) Disconnect the connector from the front passenger airbag assembly.
- (f) Disconnect the connector from the front seat outer belt assembly LH.
- (g) Disconnect the connector from the front seat outer belt assembly RH.

**HINT:**

Skip the following steps if side and curtain shield airbags are not fitted.

- (h) Disconnect the connector from the front seat airbag assembly LH.
- (i) Disconnect the connector from the front seat airbag assembly RH.
- (j) Disconnect the connector from the curtain shield airbag assembly LH.
- (k) Disconnect the connector from the curtain shield airbag assembly RH.

<b>1</b>	<b>CHECK DTC</b>
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- (a) Proceed to the appropriate step according to DTC readings.

- (1) Check the DTC (See page [RS-34](#)).

**Result**

Result	Proceed to
DTC B1610/13 is output.	A
DTC B1615/14 is output.	B
DTC B1610/13 and B1615/14 are output.	C
Neither DTC B1610/13 nor B1615/14 is output.	D

**B****Go to step 14****C****Go to step 26****D****USE SIMULATION METHOD TO CHECK****A****RS**

<b>2</b>	<b>CHECK CONNECTION OF CONNECTORS</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) Check that the connectors are properly connected to the center airbag sensor assembly and the airbag sensor front RH.

**OK:**

The connectors are properly connected.

**NG****CONNECT CONNECTORS**

OK

**3 CHECK CONNECTOR**

- (a) Check that the connectors (on the center airbag sensor assembly side and airbag sensor front RH side) are not damaged (See page [IN-34](#)).

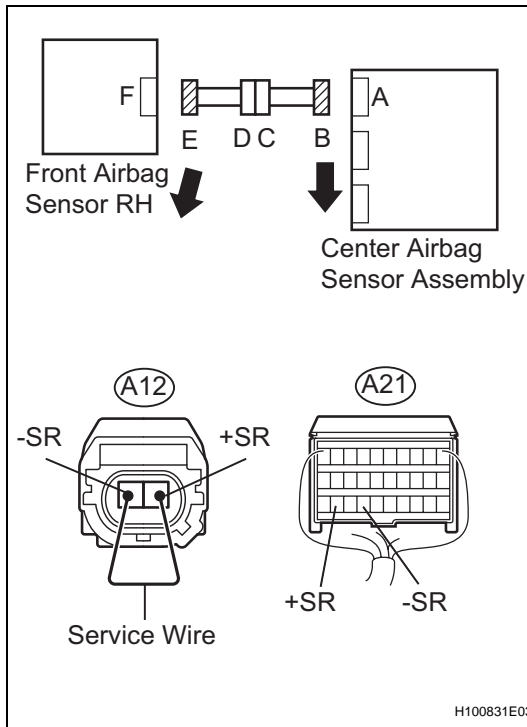
**OK:**

The connectors are not deformed or damaged.

NG

**REPAIR OR REPLACE WIRE HARNESS**

OK

**4 CHECK FRONT AIRBAG SENSOR RH CIRCUIT (FOR OPEN)**

- (a) Disconnect the connectors from the center airbag sensor assembly and the front airbag sensor RH.

- (b) Using a service wire, connect A12-2 (+SR) and A12-1 (-SR) of connector E.

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

- (c) Measure the resistance.

**Standard resistance**

Tester connection	Condition	Specified Condition
A21-29 (+SR) - A21-27 (-SR)	Always	Below 1 $\Omega$

NG

**Go to step 10**

OK

RS

5

CHECK FRONT AIRBAG SENSOR RH CIRCUIT (FOR SHORT)

Front Airbag Sensor RH

Center Airbag Sensor Assembly

A21

+SR

-SR

H

H100832E03

- (a) Disconnect the service wire from connector E.
- (b) Measure the resistance.

Standard resistance

Tester connection	Condition	Specified Condition
A21-29 (+SR) - A21-27 (-SR)	Always	1 MΩ or higher

NG

Go to step 11

OK

6

CHECK FRONT AIRBAG SENSOR RH CIRCUIT (TO B+)

Front Airbag Sensor RH

Center Airbag Sensor Assembly

A21

+SR

-SR

H

H100832E03

- (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.

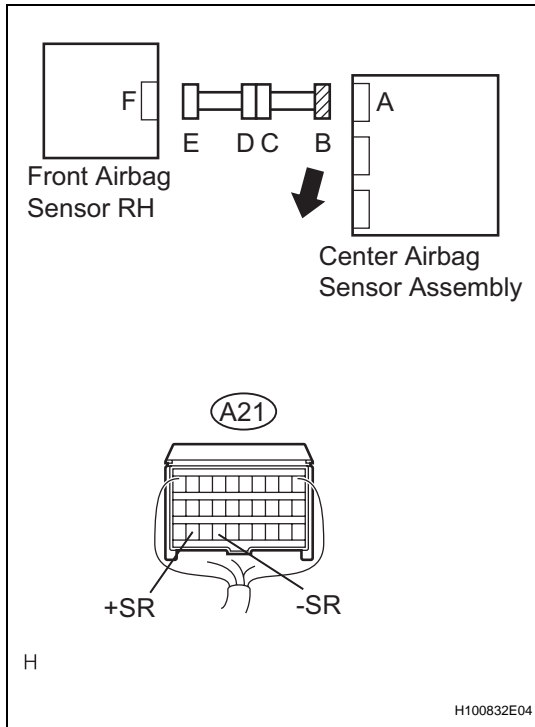
Standard voltage

Tester connection	Condition	Specified Condition
A21-29 (+SR) - Body ground	Ignition switch ON	Below 1 V
A21-27 (-SR) - Body ground	Ignition switch ON	Below 1 V

NG

Go to step 12

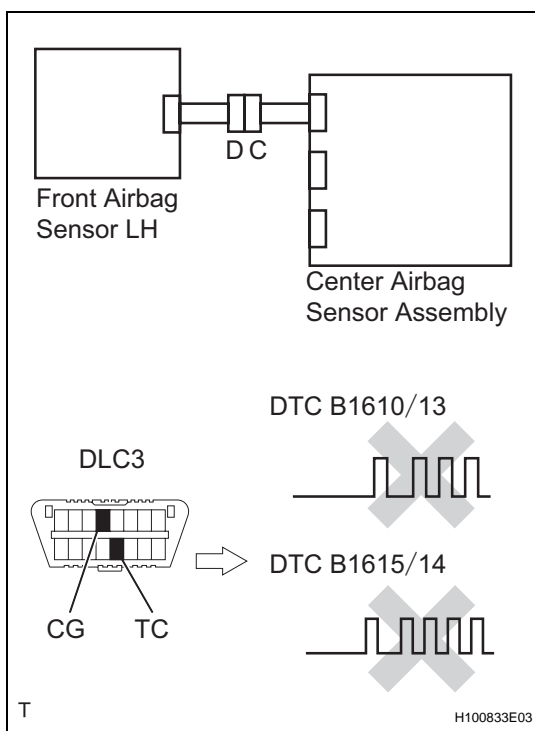
OK

**7 CHECK FRONT AIRBAG SENSOR RH CIRCUIT (TO GROUND)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Measure the resistance.

**Standard resistance**

Tester connection	Condition	Specified Condition
A21-29 (+SR) - Body ground	Always	1 MΩ or higher
A21-27 (-SR) - Body ground	Always	1 MΩ or higher

**NG****Go to step 13****OK****8 CHECK FRONT AIRBAG SENSOR RH**

- Connect the connectors to the center airbag sensor assembly.
- Interchange the airbag sensor front RH with the front airbag sensor LH and connect the connectors to them.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear any DTCs stored in the memory (See page RS-34).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check for DTCs (See page RS-34).

**Result**

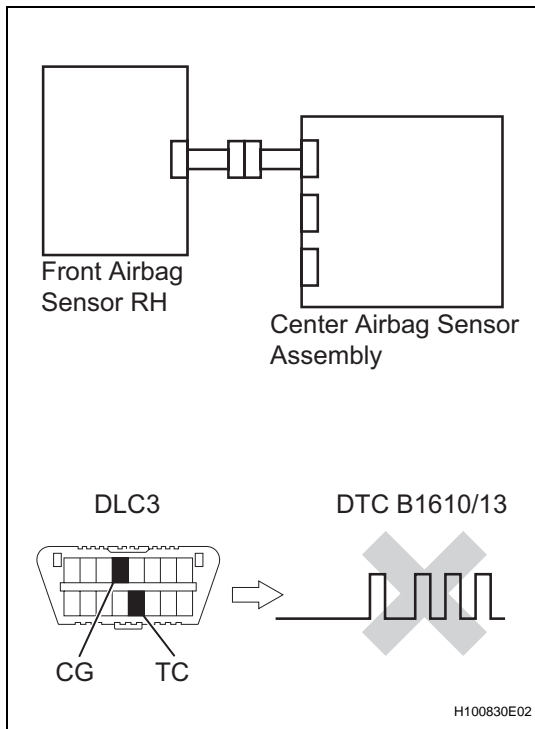
Result	Proceed to
DTC B1610/13 is output.	A
DTC B1615/14 is output.	B
Neither DTC B1610/13 nor B1615/14 is output.	C

**B****REPLACE FRONT AIRBAG SENSOR RH****C****USE SIMULATION METHOD TO CHECK****RS**

A

9

## REPLACE CENTER AIRBAG SENSOR ASSEMBLY



- (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 center airbag sensor assembly (See page [RS-602](#)).

## HINT:

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

- (d) Connect the connectors to the center airbag sensor assembly.
- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (g) Clear any DTCs stored in the memory (See page [RS-34](#)).
- (h) Turn the ignition switch to the LOCK position.
- (i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (j) Check for DTCs (See page [RS-34](#)).

## OK:

**DTC B1610/13 is not output.**

## HINT:

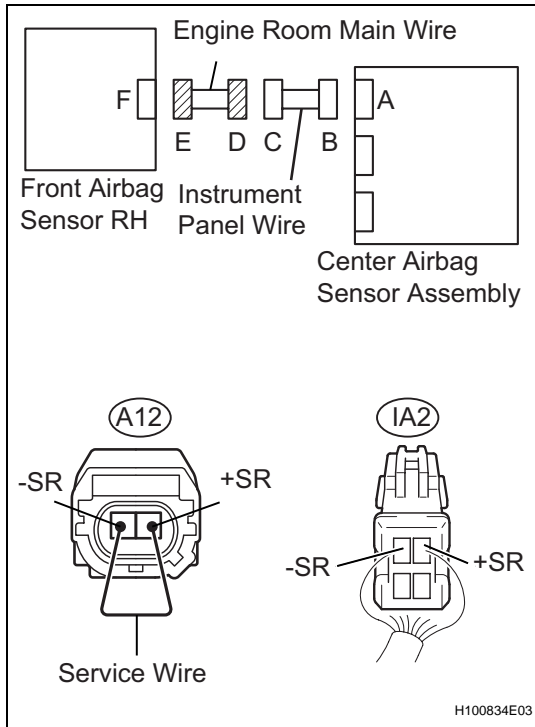
DTCs other than B1610/13 may be output at this time, but they are not related to this check.

NG

REPLACE FRONT AIRBAG SENSOR RH

OK

END

**10 CHECK ENGINE ROOM MAIN WIRE (FOR 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.

**Standard resistance**

Tester Connection	Condition	Specified Condition
IA2 -1 (-SR) - IA2-2 (+SR)	Always	Below 1 $\Omega$

**NG**

**REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

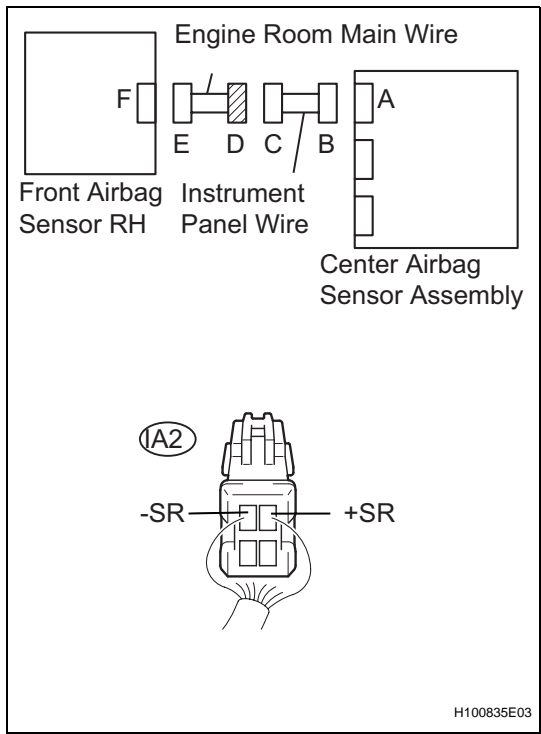
**OK**

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**



11

CHECK ENGINE ROOM MAIN WIRE (FOR SHORT)



- (a) Disconnect the engine room main wire connector from the instrument panel wire.
- (b) Measure the resistance.
- Standard resistance**

Tester Connection	Condition	Specified Condition
IA2 -1 (-SR) - IA2-2 (+SR)	Always	1 MΩ or higher

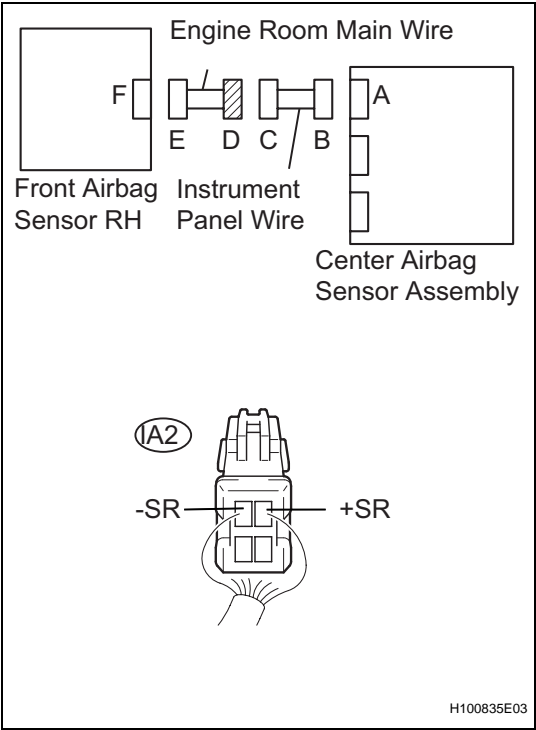
NG

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

12 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.

**Standard voltage**

Tester Connection	Condition	Specified Condition
IA2 -1 (-SR) - Body ground	Ignition switch ON	Below 1 V
IA2-2 (+SR) - Body ground	Ignition switch ON	Below 1 V

NG

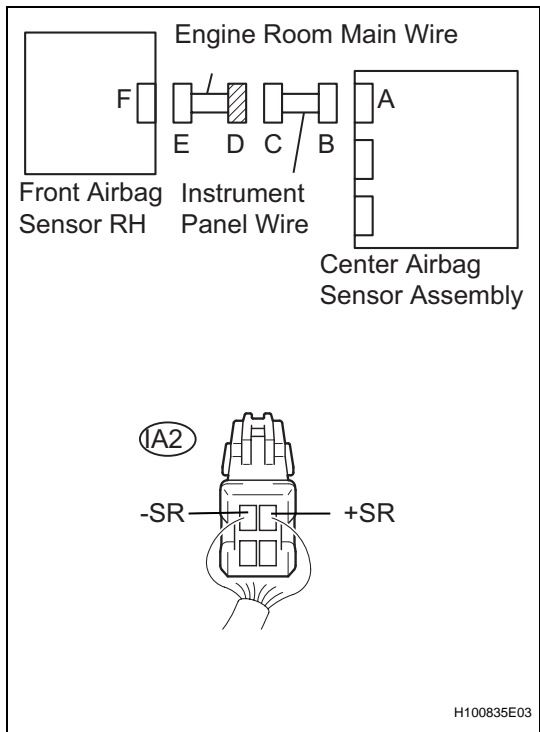
**REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

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.
- Standard resistance**

Tester Connection	Condition	Specified Condition
IA2 -1 (-SR) - Body ground	Always	1 MΩ or higher
IA2-2 (+SR) - Body ground	Always	1 MΩ or higher

NG

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

14

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 center airbag sensor assembly and the front airbag sensor LH.

**OK:**

The connectors are properly connected.

NG

CONNECT CONNECTORS

OK

15

CHECK CONNECTOR

- (a) Check that the connectors (on the center airbag sensor assembly side and front airbag sensor LH side) are not damaged (See page [IN-34](#)).

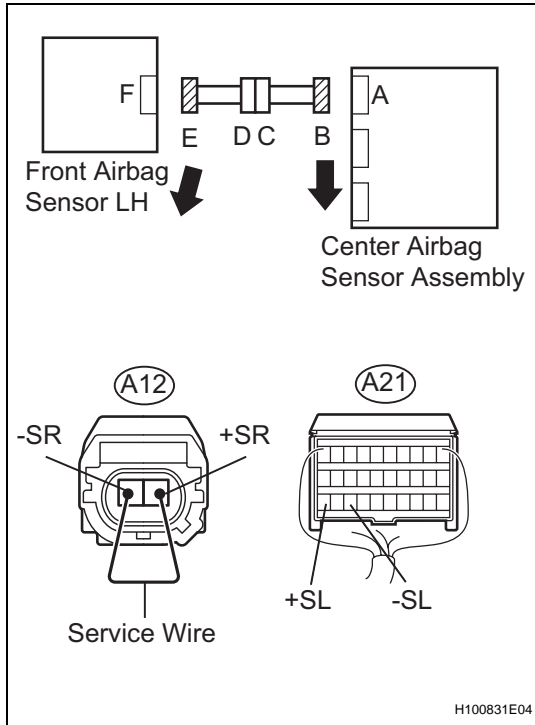
**OK:**

The connectors are not deformed or damaged.

NG

REPAIR OR REPLACE WIRE HARNESS

OK

**16 CHECK FRONT AIRBAG SENSOR LH CIRCUIT (FOR OPEN)**

- (a) Disconnect the connectors from the center airbag sensor assembly and the front airbag sensor LH.
- (b) Using a service wire, connect A11-2 (+SL) and A11-1 (-SL) of connector E.

**NOTICE:**

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

- (c) Measure the resistance.

**Standard resistance**

Tester Connection	Condition	Specified Condition
A21 -30 (+SL) - A21-28 (-SL)	Always	Below 1 $\Omega$

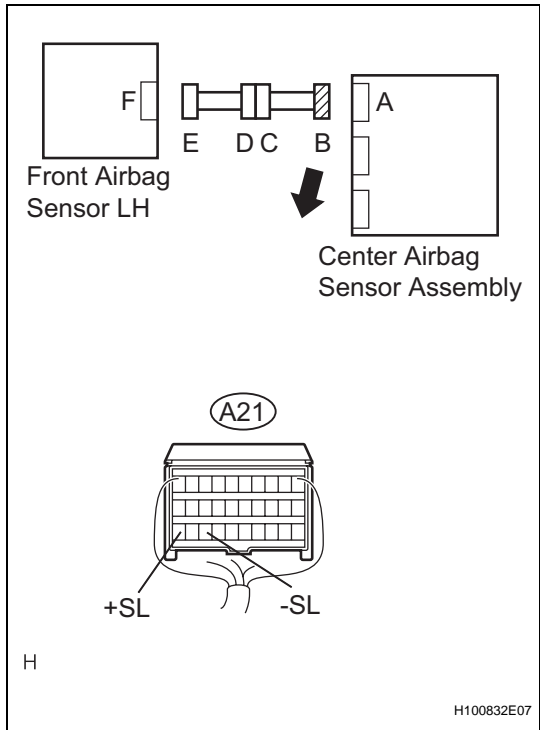
NG

Go to step 22

OK

17

CHECK FRONT AIRBAG SENSOR LH CIRCUIT (FOR SHORT)



- (a) Disconnect the service wire from connector E.  
(b) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
A21 -30 (+SL) - A21-28 (-SL)	Always	1 MΩ or Higher

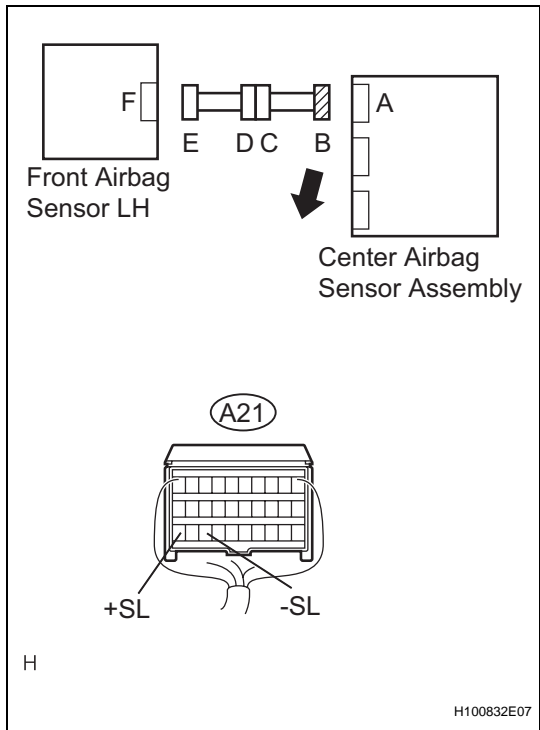
NG

Go to step 23

OK

18

CHECK FRONT AIRBAG SENSOR LH CIRCUIT (TO B+)



- (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.

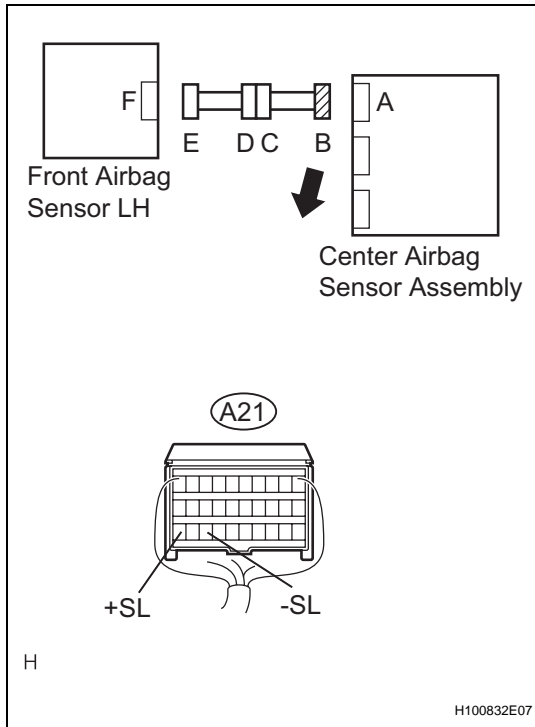
Standard voltage

Tester Connection	Condition	Specified Condition
A21 -30 (+SL) - Body ground	Ignition switch ON	Below 1V
A21-28 (-SL) - Body ground	Ignition switch ON	Below 1V

NG

Go to step 24

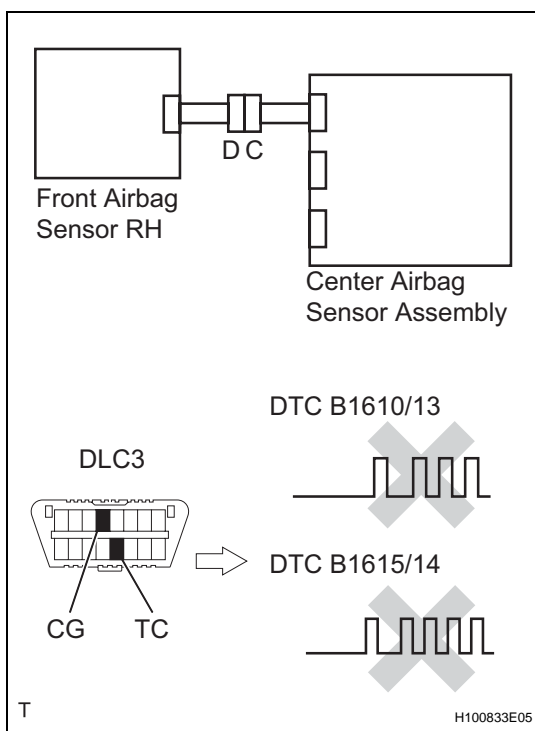
OK

**19 CHECK FRONT AIRBAG SENSOR LH CIRCUIT (TO GROUND)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Measure the resistance.

**Standard resistance**

Tester Connection	Condition	Specified Condition
A21 -30 (+SL) - Body ground	Always	1 MΩ or Higher
A21-28 (-SL) - Body ground	Always	1 MΩ or Higher

**NG****Go to step 25****OK****20 CHECK FRONT AIRBAG SENSOR LH**

- Connect the connectors to the center airbag sensor assembly.
- Interchange the front airbag sensor RH with the front airbag sensor LH and connect the connectors to them.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear any DTCs stored in the memory (See page RS-34).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check for DTCs (See page RS-34).

**Result**

Result	Proceed to
DTC B1615/14 is output.	A
DTC B1610/13 is output.	B
Neither DTC B1610/13 nor B1615/14 is output.	C

**B****REPLACE CENTER AIRBAG SENSOR ASSEMBLY****RS**

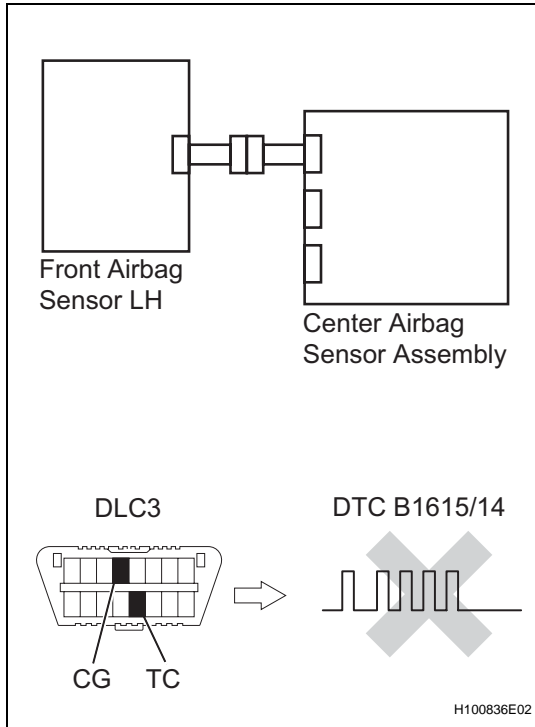
C

USE SIMULATION METHOD TO CHECK

A

21

## REPLACE CENTER AIRBAG SENSOR ASSEMBLY



- (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 center airbag sensor assembly (See page [RS-602](#)).

## HINT:

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

- (d) Connect the connectors to the center airbag sensor assembly .
- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (g) Clear any DTCs stored in the memory (See page [RS-34](#)).
- (h) Turn the ignition switch to the LOCK position.
- (i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (j) Check for DTCs (See page [RS-34](#)).

## OK:

**DTC B1615/14 is not output.**

## HINT:

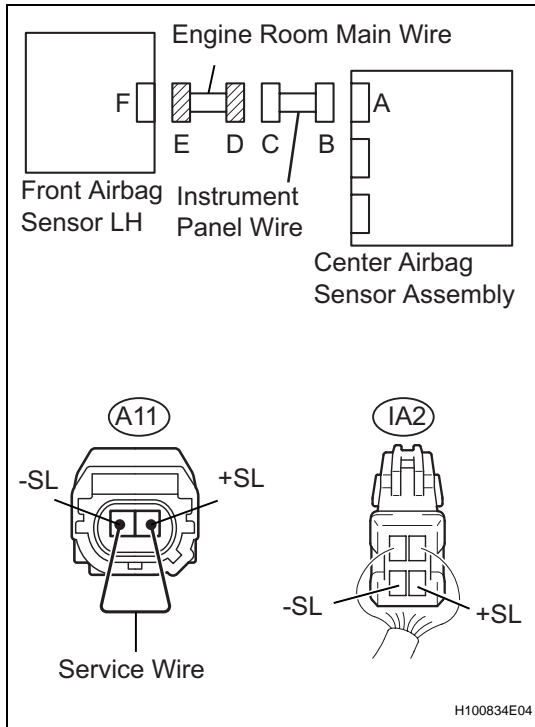
DTCs other than B1615/14 may be output at this time, but they are not related to this check.

NG

REPLACE FRONT AIRBAG SENSOR LH (LH)

OK

END

**22 CHECK ENGINE ROOM MAIN WIRE (FOR 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.

**Standard resistance**

Tester Connection	Condition	Specified Condition
IA2-3 (-SL) - IA2-4 (+SL)	Always	Below 1 $\Omega$

**NG**

**REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

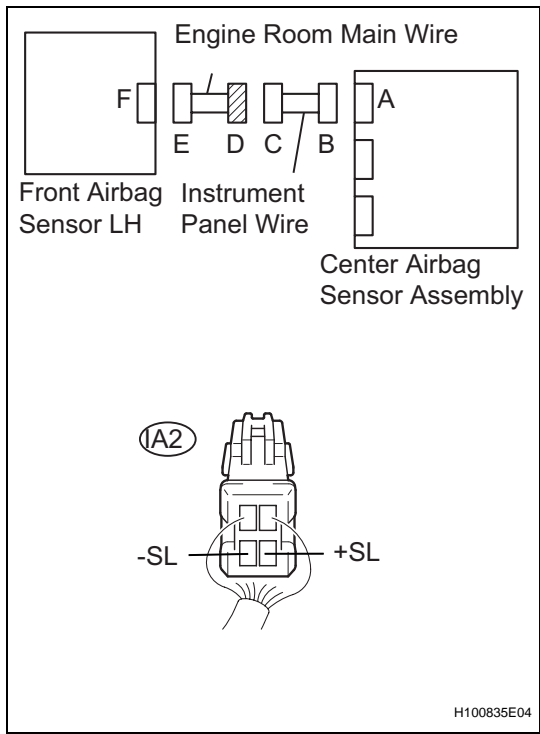
**OK**

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**



23

CHECK ENGINE ROOM MAIN WIRE (FOR SHORT)



- (a) Disconnect the engine room main wire connector from the instrument panel wire.
- (b) Measure the resistance.
- Standard resistance**

Tester Connection	Condition	Specified Condition
IA2-3 (-SL) - IA2-4 (+SL)	Always	1 MΩ or Higher

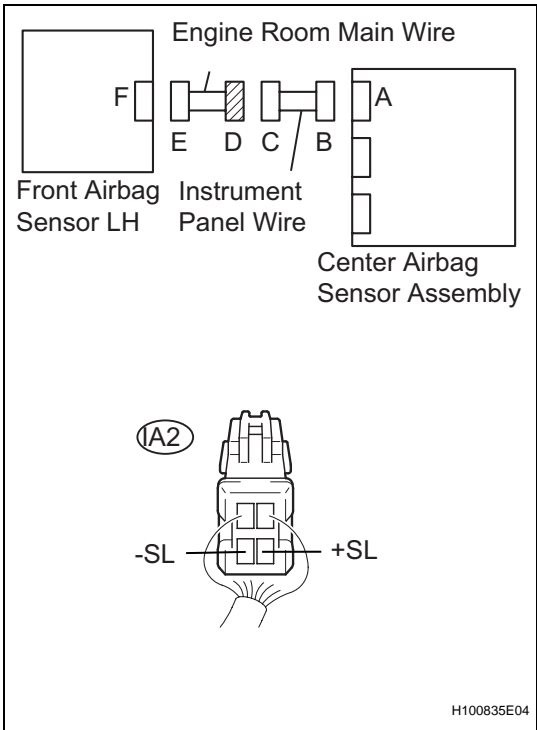
NG

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

24 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.

**Standard voltage**

Tester Connection	Condition	Specified Condition
IA2-3 (-SL) - Body ground	Ignition switch ON	Below 1 V
IA2-4 (+SL) - Body ground	Ignition switch ON	Below 1 V

NG

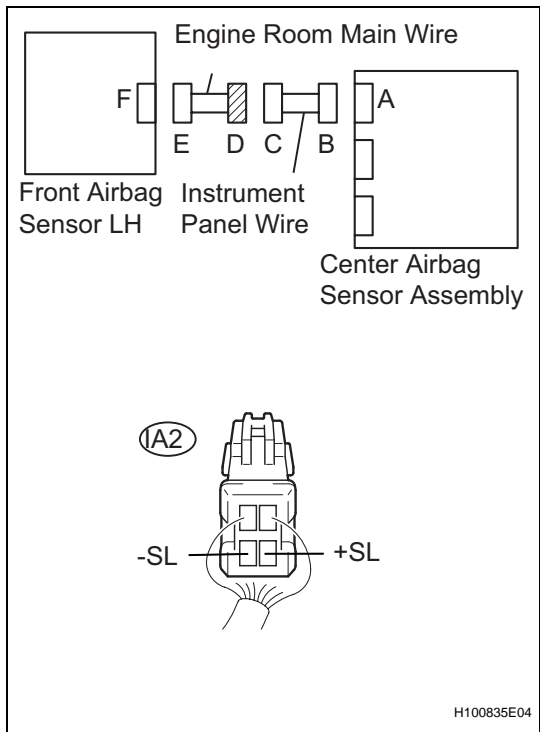
**REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

25

CHECK ENGINE ROOM MAIN WIRE (TO GROUND)



- (a) Disconnect the engine room main wire connector from the instrument panel wire.
- (b) Measure the resistance.
- Standard resistance**

Tester Connection	Condition	Specified Condition
IA2-3 (-SL) - Body ground	Always	1 MΩ or Higher
IA2-4 (+SL) - Body ground	Always	1 MΩ or Higher

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

**OK**

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

26

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 center airbag sensor assembly, the front airbag sensor LH and the front airbag sensor RH.

**OK:**  
The connectors are properly connected.

**NG** **CONNECT CONNECTORS**

**OK**

27

CHECK CONNECTOR

- (a) Check that the connectors (on the center airbag sensor assembly side, front airbag sensor LH side and front airbag sensor RH side) are not damaged (See page [IN-34](#)).

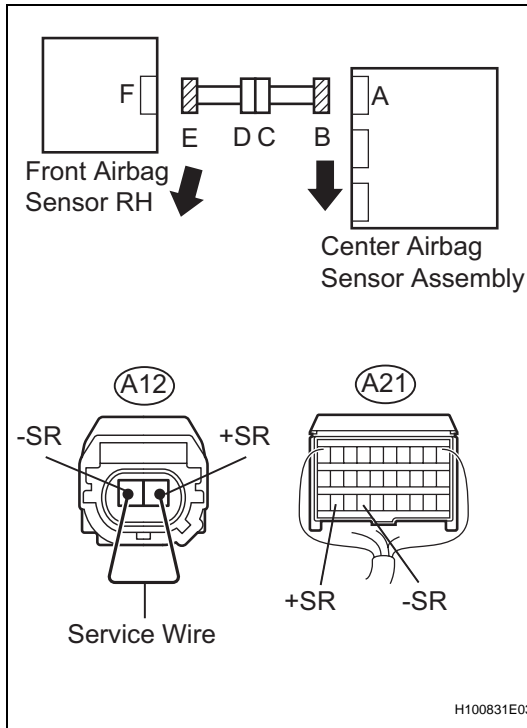
OK:

The connectors are not deformed or damaged.

NG

REPAIR OR REPLACE WIRE HARNESS

OK

**28 CHECK FRONT AIRBAG SENSOR RH CIRCUIT (FOR OPEN)**

OK

(a) Disconnect the connectors from the center airbag sensor assembly and the front airbag sensor RH.

(b) Using a service wire, connect A12-2 (+SR) and A12-1 (-SR) of connector E.

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

(c) Measure the resistance.

**Standard resistance**

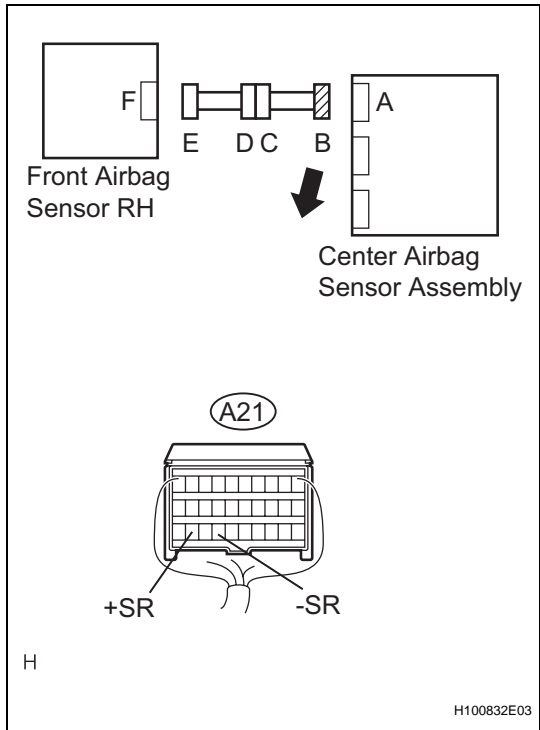
Tester Connection	Condition	Specified Condition
A21-29 (+SR) - A21-27 (-SR)	Always	Below 1 $\Omega$

NG

Go to step 32

29

CHECK FRONT AIRBAG SENSOR RH CIRCUIT (FOR SHORT)



- (a) Disconnect the service wire from connector E.  
(b) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
A21-29 (+SR) - A21-27 (-SR)	Always	1 MΩ or Higher

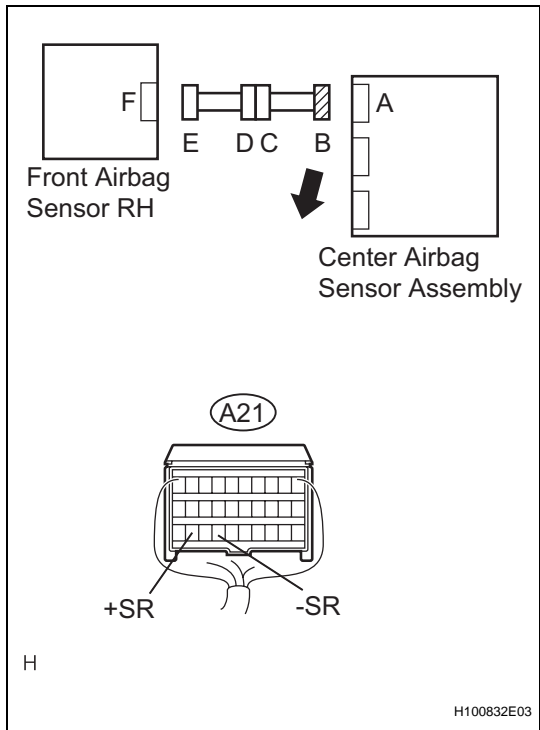
NG

Go to step 33

OK

30

CHECK FRONT AIRBAG SENSOR RH CIRCUIT (TO B+)



- (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.

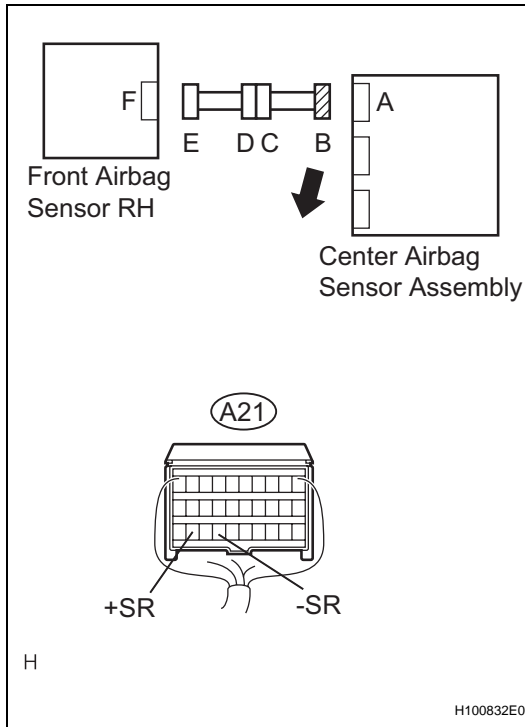
Standard voltage

Tester Connection	Condition	Specified Condition
A21-29 (+SR) - Body ground	Ignition switch ON	Below 1 V
A21-27 (-SR) - Body ground	Ignition switch ON	Below 1 V

NG

Go to step 34

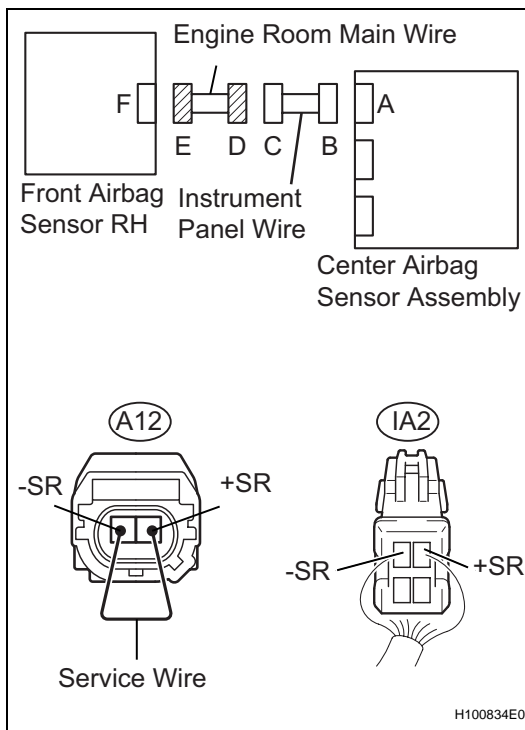
OK

**31 CHECK FRONT AIRBAG SENSOR RH CIRCUIT (TO GROUND)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Measure the resistance.

**Standard resistance**

Tester Connection	Condition	Specified Condition
A21-29 (+SR) - Body ground	Always	1 MΩ or Higher
A21-27 (+SR) - Body ground	Always	1 MΩ or Higher

**NG****Go to step 35****OK****Go to step 36****32 CHECK ENGINE ROOM MAIN WIRE (FOR OPEN)**

- Disconnect the engine room main wire connector from the instrument panel wire.

**HINT:**

The service wire has already been inserted into connector E.

- Measure the resistance.

**Standard resistance**

Tester Connection	Condition	Specified Condition
IA2-1 (-SR) - IA2-2 (+SR)	Always	Below 1 Ω

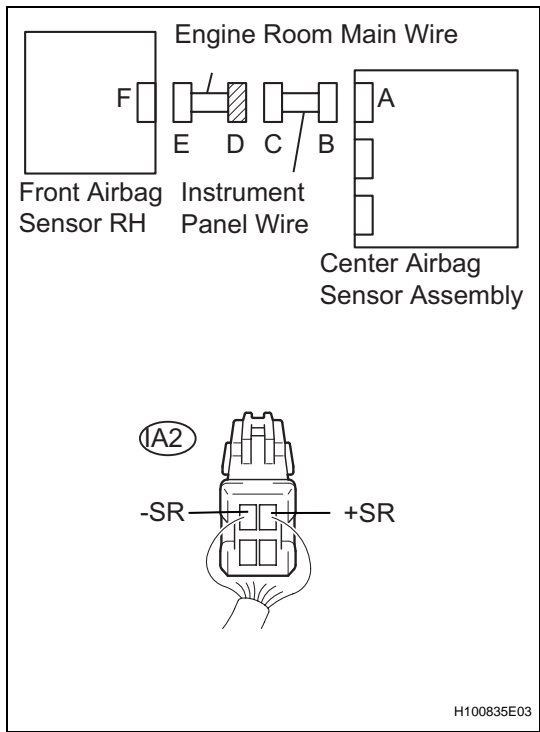
**NG****REPAIR OR REPLACE ENGINE ROOM MAIN WIRE****RS**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

33

CHECK ENGINE ROOM MAIN WIRE (FOR SHORT)



- (a) Disconnect the engine room main wire connector from the instrument panel wire.
- (b) Measure the resistance.

Standard resistance

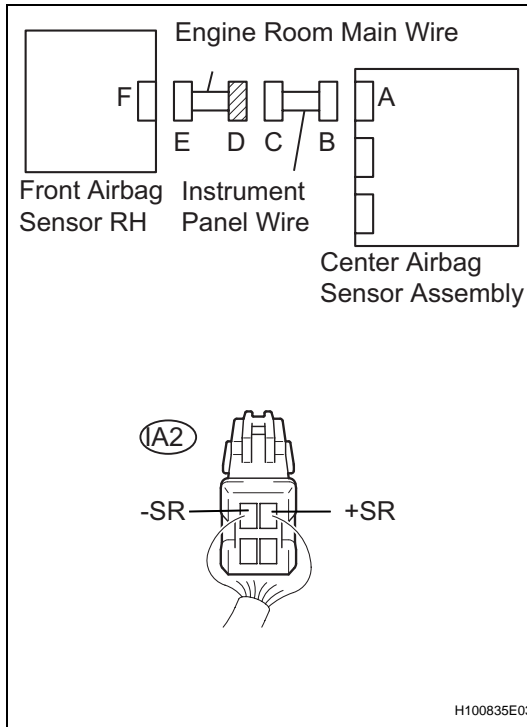
Tester Connection	Condition	Specified Condition
IA2-1 (-SR) - IA2-2 (+SR)	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

**34 CHECK ENGINE ROOM MAIN WIRE (TO B+)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the engine room main wire connector from the instrument panel wire.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- Measure the voltage.

**Standard voltage**

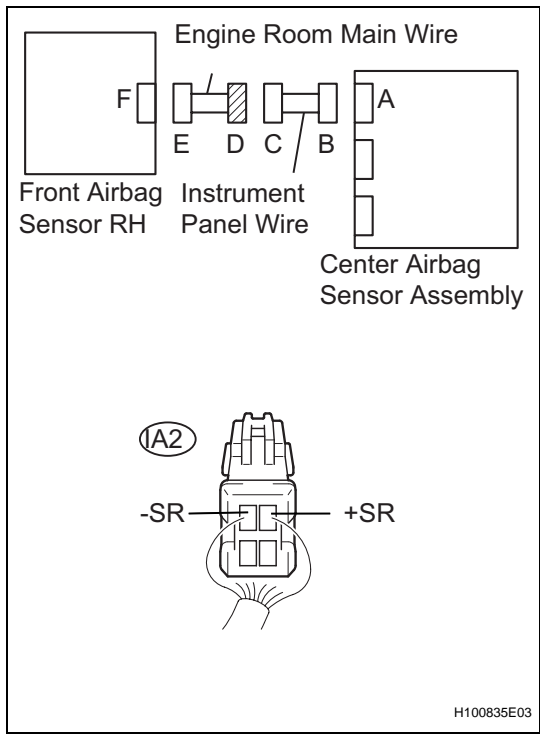
Tester Connection	Condition	Specified Condition
IA2-1 (-SR) - Body ground	Ignition switch ON	Below 1 V
IA2-2 (+SR) - Body ground	Ignition switch ON	Below 1 V

**NG****REPAIR OR REPLACE ENGINE ROOM MAIN WIRE****OK****REPAIR OR REPLACE INSTRUMENT PANEL WIRE**



35

CHECK ENGINE ROOM MAIN WIRE (TO GROUND)



- (a) Disconnect the engine room main wire connector from the instrument panel wire.
- (b) Measure the resistance.
- Standard resistance**

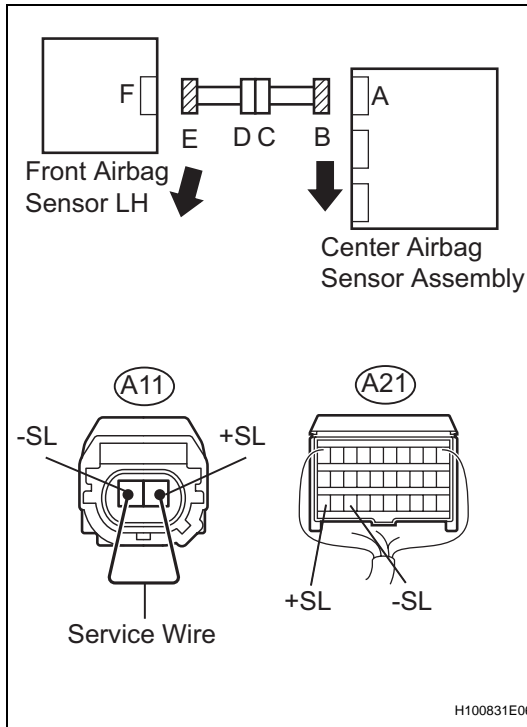
Tester Connection	Condition	Specified Condition
IA2-1 (-SR) - Body ground	Always	1 MΩ or Higher
IA2-2 (+SR) - Body ground	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

**36 CHECK FRONT AIRBAG SENSOR LH CIRCUIT (FOR OPEN)**

- (a) Disconnect the connectors from the center airbag sensor assembly and the front airbag sensor LH.  
 (b) Using a service wire, connect A11-2 (+SL) and A11-1 (-SL) of connector E.

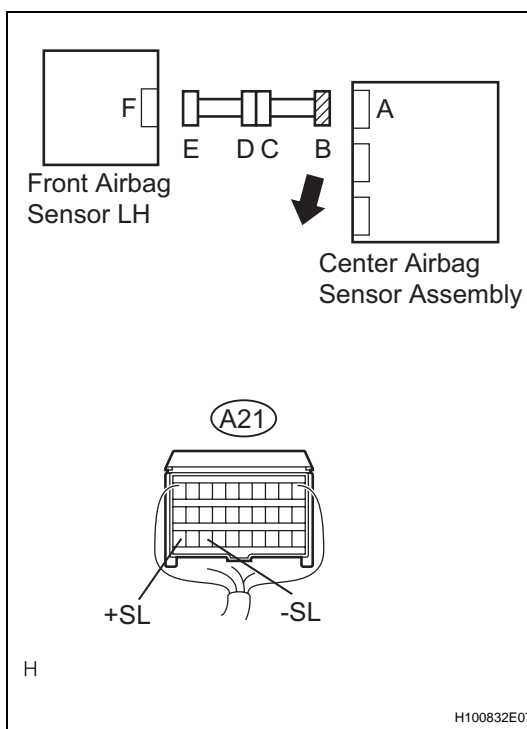
**NOTICE:**

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

- (c) Measure the resistance.

**Standard resistance**

Tester Connection	Condition	Specified Condition
A21-30 (+SR) - A21-28 (-SR)	Always	Below 1 $\Omega$

**NG****Go to step 40****OK****37 CHECK FRONT AIRBAG SENSOR LH CIRCUIT (FOR SHORT)**

- (a) Disconnect the service wire from connector E.  
 (b) Measure the resistance.

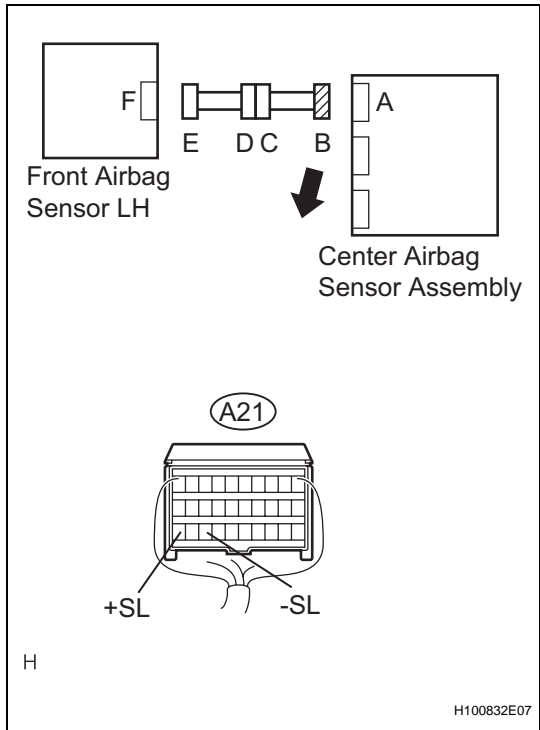
**Standard resistance**

Tester Connection	Condition	Specified Condition
A21-30 (+SL) - A21-28 (-SL)	Always	1 M $\Omega$ or Higher

**NG****Go to step 41****OK****RS**

38

CHECK FRONT AIRBAG SENSOR LH CIRCUIT (TO B+)



- (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.

Standard voltage

Tester Connection	Condition	Specified Condition
A21-30 (+SL) - Body ground	Ignition switch ON	Below 1 V
A21-28 (-SL) - Body ground	Ignition switch ON	Below 1 V

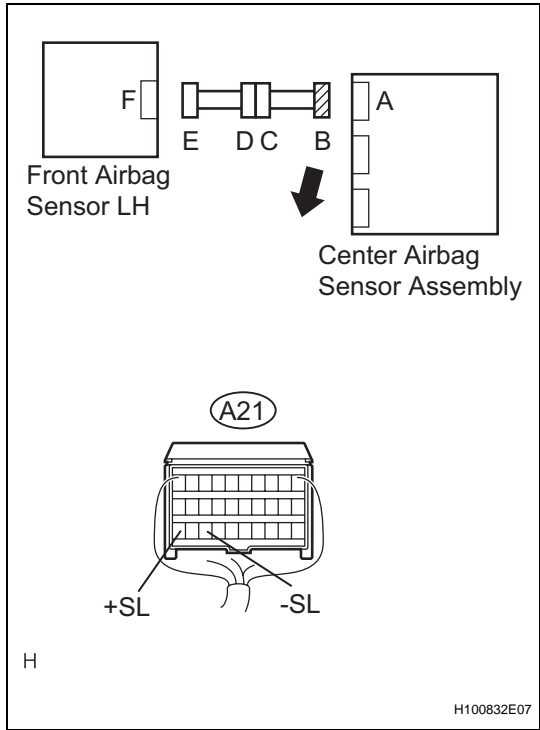
NG

Go to step 42

OK

39

CHECK FRONT AIRBAG SENSOR LH CIRCUIT (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.

Standard resistance

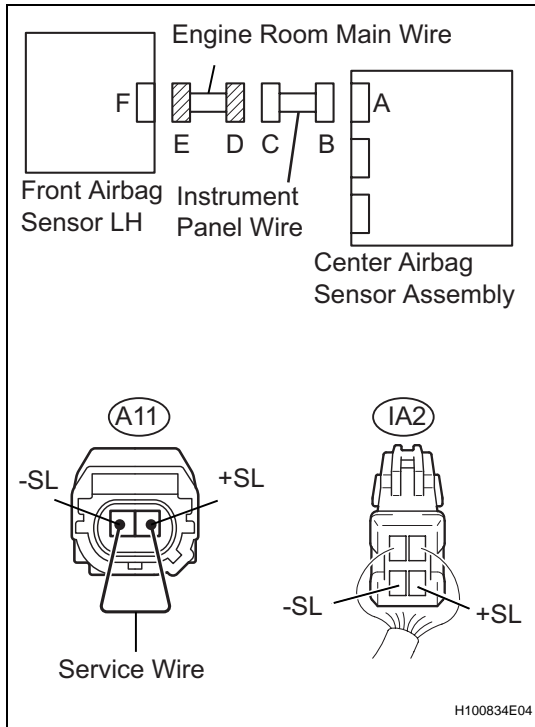
Tester Connection	Condition	Specified Condition
A21-30 (+SL) - Body ground	Always	1 MΩ or Higher
A21-28 (-SL) - Body ground	Always	1 MΩ or Higher

NG

Go to step 43

OK

Go to step 44

**40 CHECK ENGINE ROOM MAIN WIRE (FOR 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.

**Standard resistance**

Tester Connection	Condition	Specified Condition
IA2-3 (-SL) - IA2-4 (+SL)	Always	Below 1 $\Omega$

**NG**

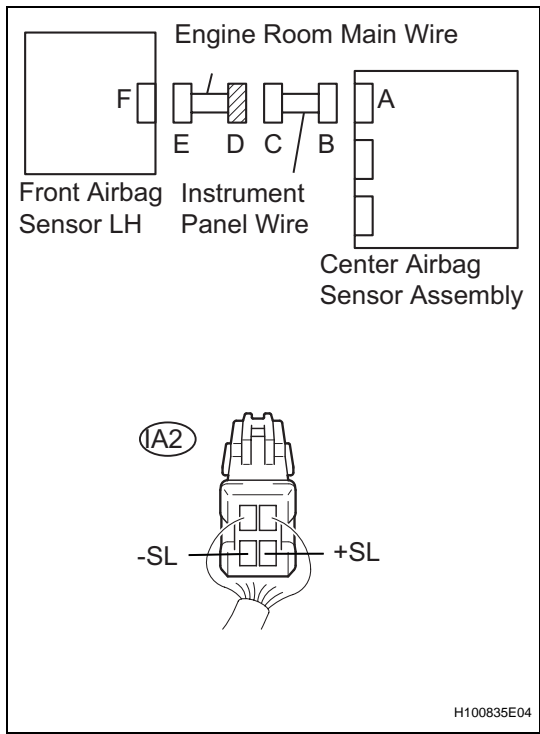
**REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

**OK**

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

41

CHECK ENGINE ROOM MAIN WIRE (FOR SHORT)



- (a) Disconnect the engine room main wire connector from the instrument panel wire.
- (b) Measure the resistance.
- Standard resistance**

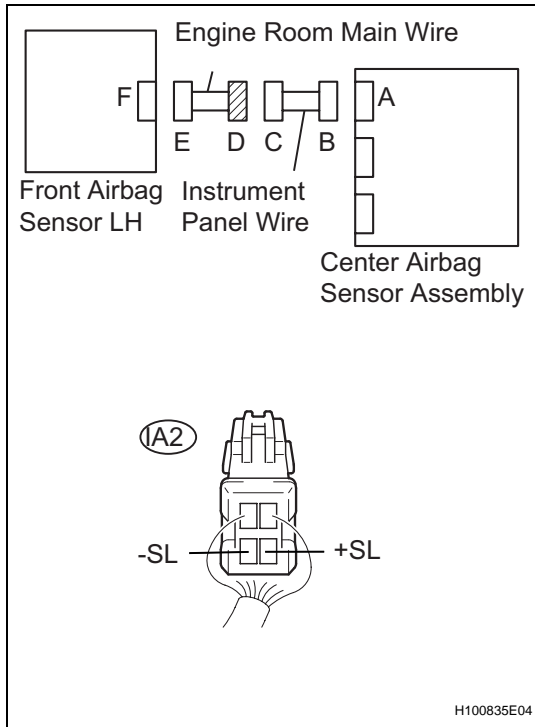
Tester Connection	Condition	Specified Condition
IA2-3 (-SL) - IA2-4 (+SL)	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

**42 CHECK ENGINE ROOM MAIN WIRE (TO B+)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the engine room main wire connector from the instrument panel wire.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- Measure the voltage.

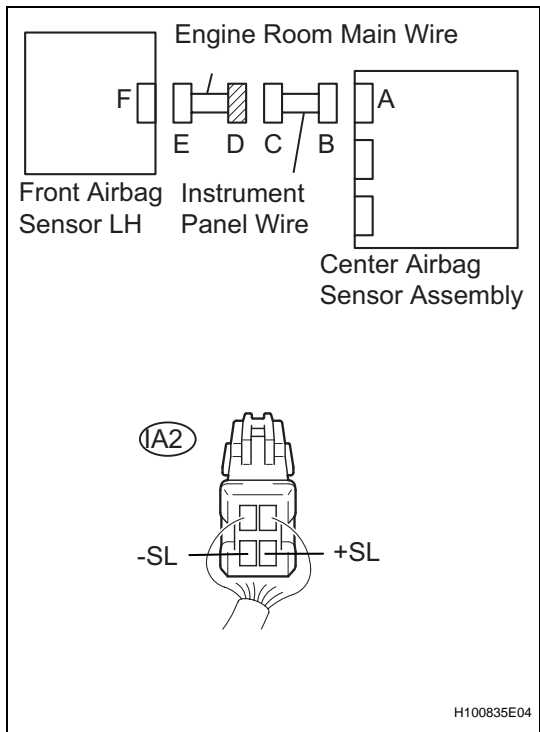
**Standard voltage**

Tester Connection	Condition	Specified Condition
IA2-3 (-SL) - Body ground	Ignition switch ON	Below 1 V
IA2-4 (+SL) - Body ground	Ignition switch ON	Below 1 V

**NG****REPAIR OR REPLACE ENGINE ROOM MAIN WIRE****OK****REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

43

CHECK ENGINE ROOM MAIN WIRE (TO GROUND)



OK

- (a) Disconnect the engine room main wire connector from the instrument panel wire.
- (b) Measure the resistance.
- Standard resistance

Tester Connection	Condition	Specified Condition
IA2-3 (-SL) - Body ground	Always	1 MΩ or Higher
IA2-4 (+SL) - Body ground	Always	1 MΩ or Higher

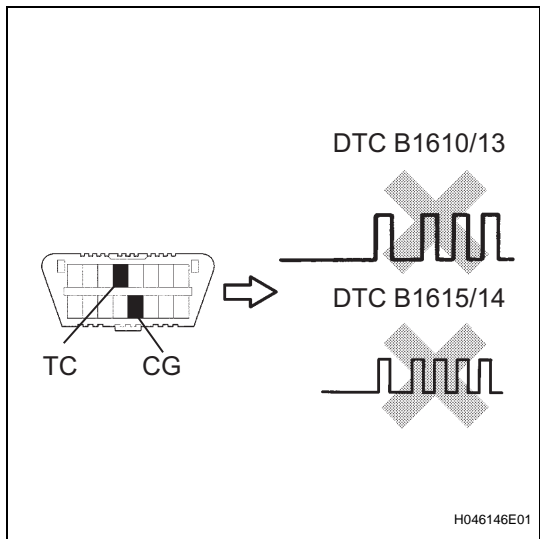
NG

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

44

REPAIR OR REPLACE INSTRUMENT PANEL WIRE



- (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 center airbag sensor assembly (See page RS-602).
- HINT:  
Perform the inspection using parts from a normal vehicle when possible.
- (d) Connect the connectors to the center airbag sensor assembly , front airbag sensor RH and front airbag sensor LH .
- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (g) Clear any DTCs stored in the memory (See page RS-34).
- (h) Turn the ignition switch to the LOCK position.
- (i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (j) Check for DTCs (See page RS-34).

**OK:****DTC B1610/13 and B1615/14 are not output.****HINT:**

DTCs other than B1610/13 and B1615/14 may be output at this time, but they are not related to this check.

**NG****REPLACE FRONT AIRBAG SENSOR RH  
AND LH****OK****END**