

|            |                 |                                                                |
|------------|-----------------|----------------------------------------------------------------|
| <b>DTC</b> | <b>B1608/84</b> | <b>Front Satellite Sensor Bus LH Initialization Incomplete</b> |
| <b>DTC</b> | <b>B1617/84</b> | <b>Lost Communication with Front Airbag Sensor LH</b>          |
| <b>DTC</b> | <b>B1618/84</b> | <b>Front Airbag Sensor LH Initialization Incomplete</b>        |

**DESCRIPTION**

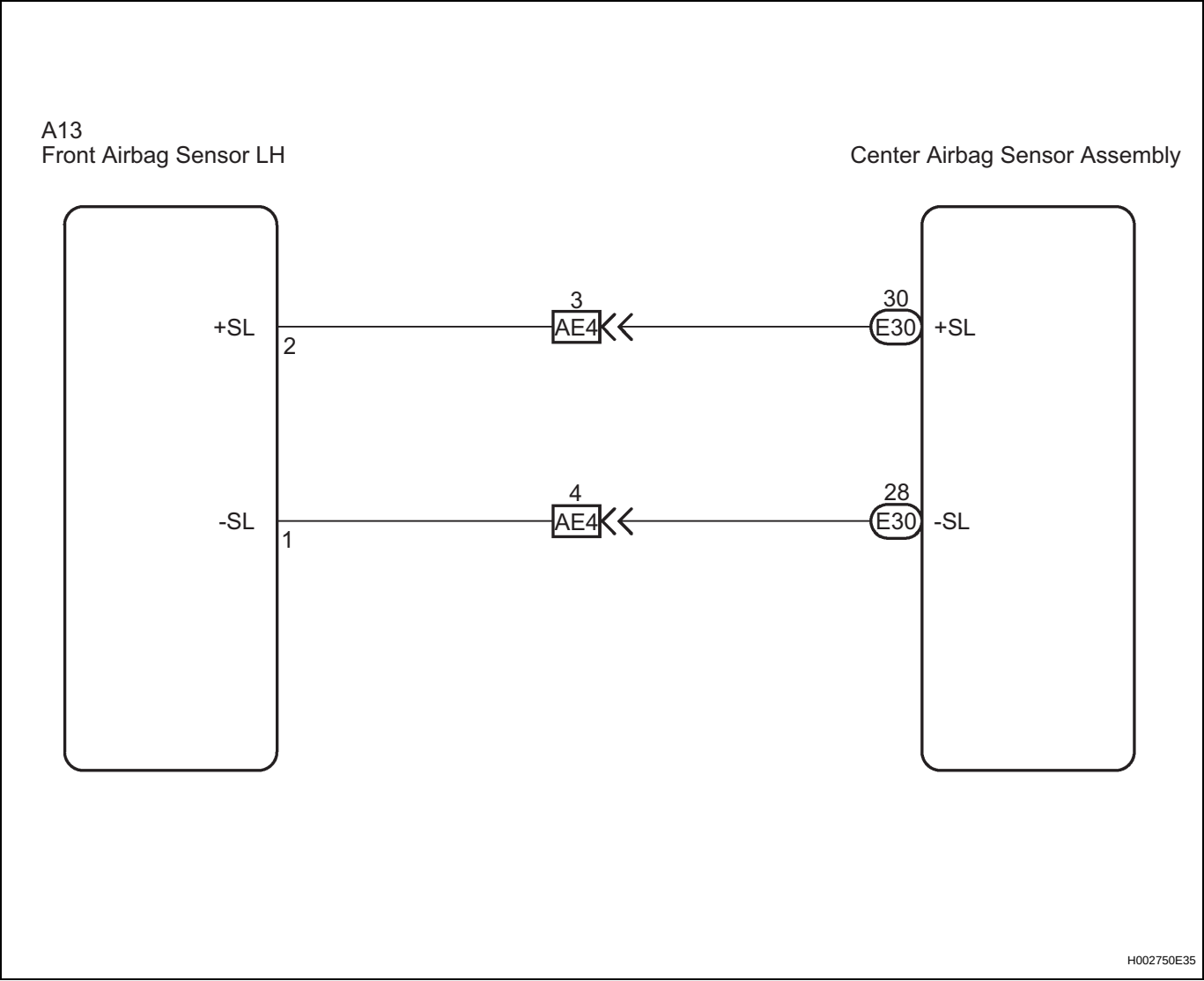
The front airbag sensor LH circuit consists of the center airbag sensor assembly and front airbag sensor LH.

The front airbag sensor LH detects impacts to the vehicle and sends signals to the center airbag sensor assembly to determine if the airbag should be deployed.

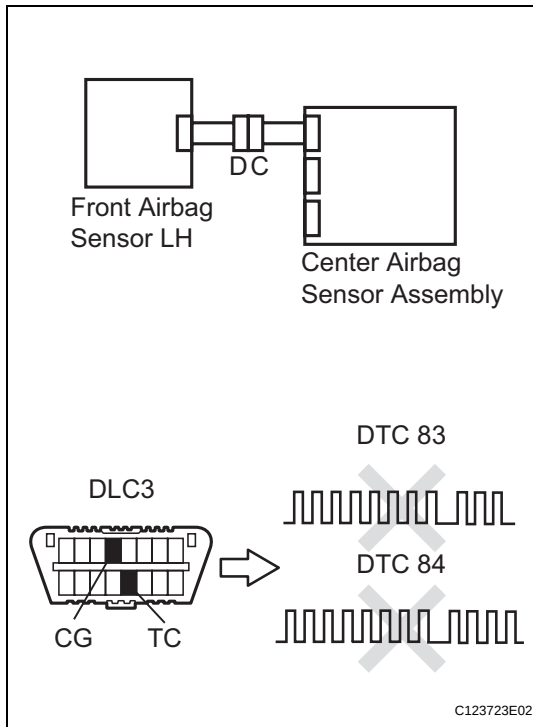
DTC B1608/84, B1617/84, or B1618/84 is recorded when a malfunction is detected in the front airbag sensor LH circuit.

| <b>DTC No.</b>                   | <b>DTC Detecting Condition</b>                                                                                                                                                                                                                                                                                                                                         | <b>Trouble Area</b>                                                                                                                                                           |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B1608/84<br>B1617/84<br>B1618/84 | <ul style="list-style-type: none"> <li>The center airbag sensor assembly 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 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>Instrument panel wire</li> <li>Engine room main wire</li> <li>Front airbag sensor LH</li> <li>Center airbag sensor assembly</li> </ul> |

WIRING DIAGRAM



## INSPECTION PROCEDURE

**1** CHECK DTC

(a) Turn the power switch on (IG), and wait for at least 60 seconds.

(b) Turn the power switch off.

HINT:

If a communication error occurs, DTCs for both the LH and RH sides will be stored simultaneously. To identify the malfunctioning area, turn the power switch off and then on (IG) again.

(c) Turn the power switch on (IG), and wait for at least 60 seconds.

(d) Check the DTCs (See page RS-41).

**Result**

| Result                                               | Proceed to |
|------------------------------------------------------|------------|
| DTC B1608, B1618, or 84 is output.                   | A          |
| DTC B1613/83 is output.                              | B          |
| DTC B1608, B1618, or 84 and B1613/83 are not output. | C          |

HINT:

- DTCs indicating communication errors will be changed to DTCs indicating errors in initialization by turning the power switch off and then on (IG) again.
- Codes other than DTC B1608, B1618, or 84 and B1613/83 may be output at this time, but they are not related to this check.

**B**

**GO TO DTC B1613/83 (See page RS-52)**

**C**

**USE SIMULATION METHOD TO CHECK (See page RS-33)**

**A**

**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 center airbag sensor assembly and the front airbag sensor LH.

**OK:**

**The connectors are properly connected.**

**NG**

**CONNECT CONNECTORS PROPERLY**

**OK**

3

CHECK CONNECTORS

- (a) Disconnect the connectors from the center airbag sensor assembly and front airbag sensor LH.
- (b) Check that the connectors (on the center airbag sensor assembly side and front airbag sensor LH side) are not damaged.

OK:  
The connectors are not deformed or damaged.

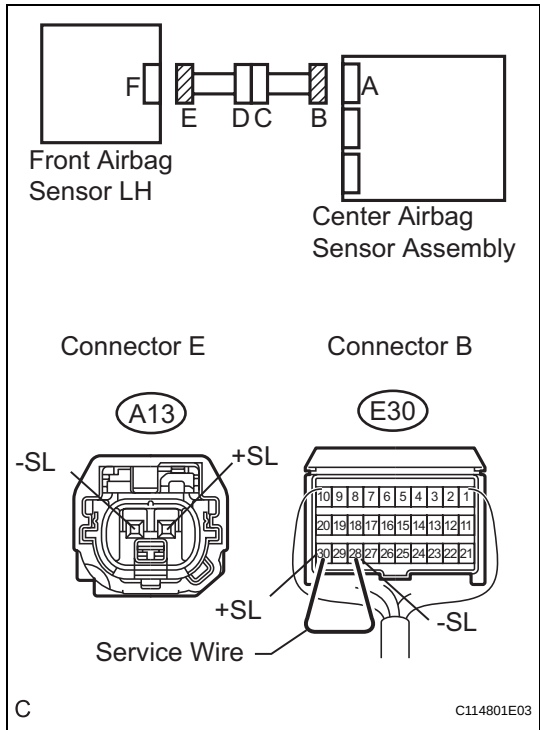
NG

REPAIR OR REPLACE WIRE HARNESS

OK

4

CHECK FRONT AIRBAG SENSOR LH (OPEN)



- (a) Using a service wire, connect terminals 30 (+SL) and 28 (-SL) of connector B.

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

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

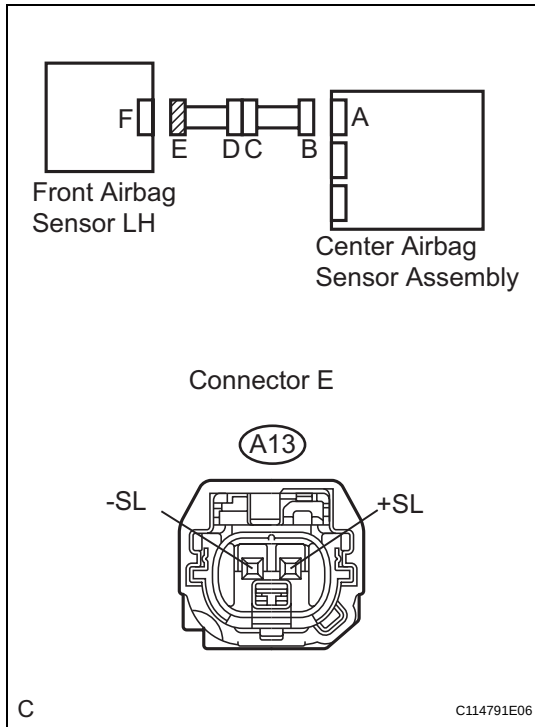
Standard resistance

| Tester Connection         | Condition | Specified Condition |
|---------------------------|-----------|---------------------|
| A13-2 (+SL) - A13-1 (-SL) | Always    | Below 1 Ω           |

NG

Go to step 9

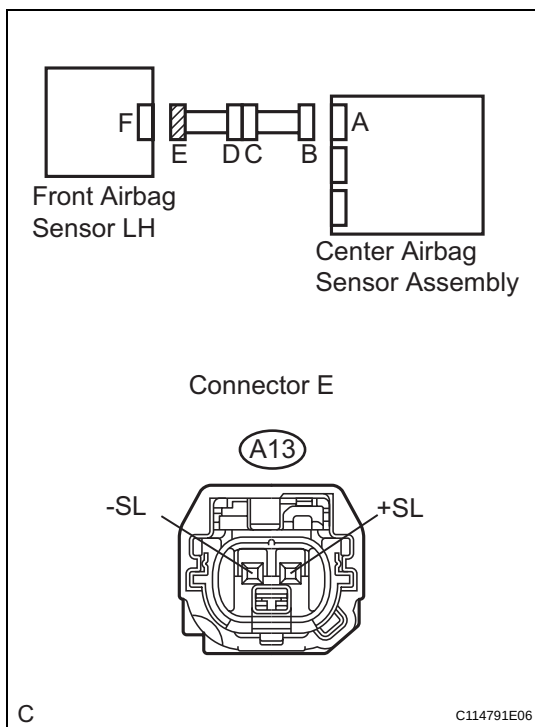
OK

**5 CHECK FRONT AIRBAG SENSOR LH (SHORT)**

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

**Standard resistance**

| Tester Connection         | Condition | Specified Condition |
|---------------------------|-----------|---------------------|
| A13-2 (+SL) - A13-1 (-SL) | Always    | 1 MΩ or higher      |

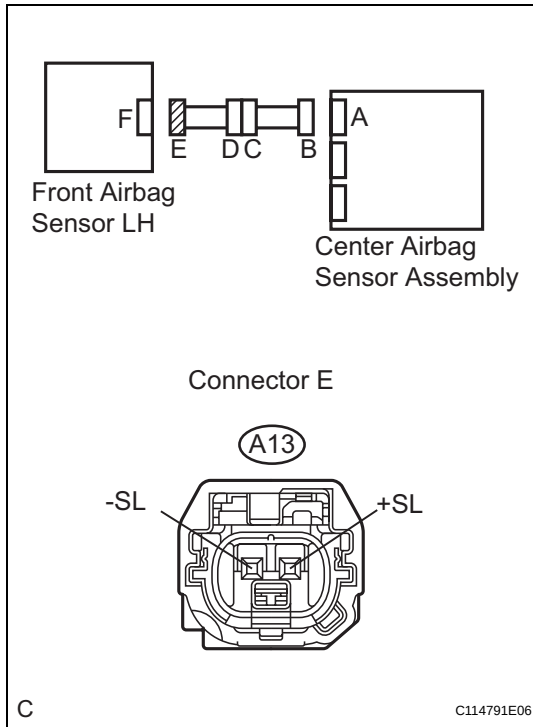
**NG****Go to step 10****OK****6 CHECK FRONT AIRBAG SENSOR LH (SHORT TO B+)**

- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.  
 (b) Turn the power switch on (IG).  
 (c) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

| Tester Connection         | Condition            | Specified Condition |
|---------------------------|----------------------|---------------------|
| A13-2 (+SL) - Body ground | Power switch on (IG) | Below 1 V           |
| A13-1 (-SL) - Body ground | Power switch on (IG) | Below 1 V           |

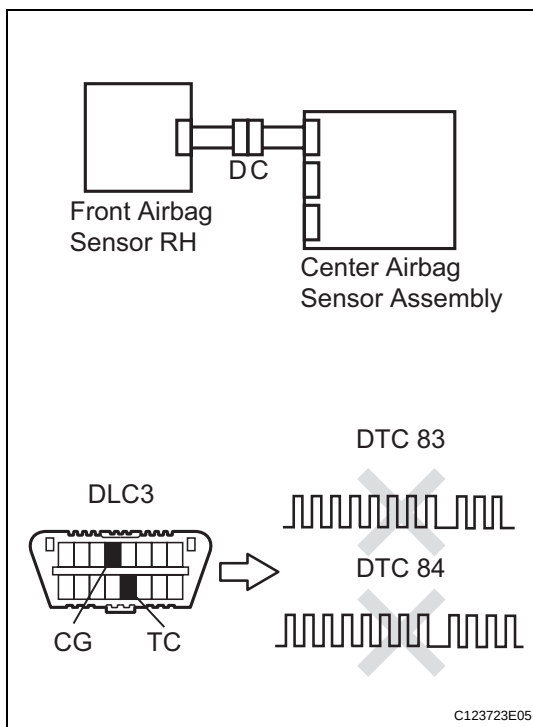
**NG****Go to step 11****OK**

**7 CHECK FRONT AIRBAG SENSOR LH (SHORT TO GROUND)**

- Turn the power switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Measure the resistance according to the value(s) in the table below.

**Standard resistance**

| Tester Connection         | Condition | Specified Condition |
|---------------------------|-----------|---------------------|
| A13-2 (+SL) - Body ground | Always    | 1 MΩ or higher      |
| A13-1 (-SL) - Body ground | Always    | 1 MΩ or higher      |

**NG****Go to step 12****OK****8 CHECK FRONT AIRBAG SENSOR LH**

- Connect the connectors to the center airbag sensor assembly.
- Interchange the front airbag sensor RH with LH and connect the connectors to them.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-41).
- Turn the power switch off.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page RS-41).

**Result**

| Result                                                                        | Proceed to |
|-------------------------------------------------------------------------------|------------|
| DTC B1608, B1617, B1618, or 84 is output.                                     | A          |
| DTC B1603, B1612, B1613, or 83 is output.                                     | B          |
| DTC B1603, B1612, B1613, or 83 and B1608, B1617, B1618, or 84 are not output. | C          |

**HINT:**

Codes other than DTC B1608, B1617, B1618, or 84 and B1603, B1612, B1613, or 83 may be output at this time, but they are not related to this check.

A

**REPLACE CENTER AIRBAG SENSOR ASSEMBLY** (See page [RS-423](#))

B

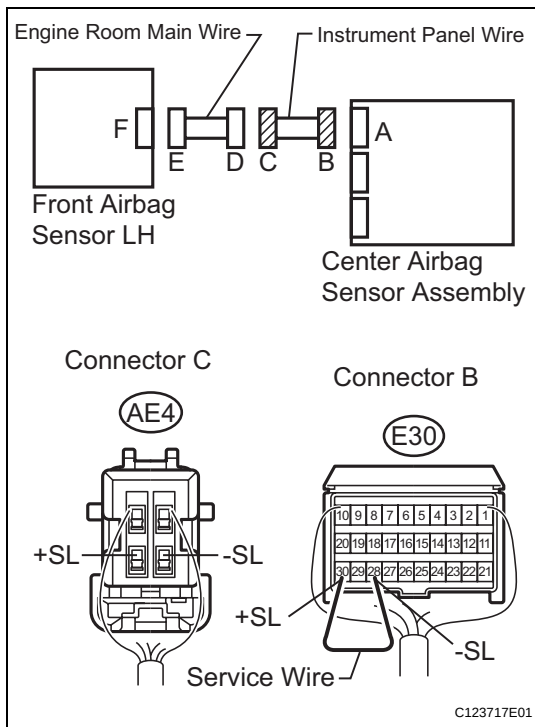
**REPLACE FRONT AIRBAG SENSOR LH** (See page [RS-428](#))

C

**USE SIMULATION METHOD TO CHECK** (See page [RS-33](#))

9

## CHECK INSTRUMENT PANEL WIRE (OPEN)



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

HINT:

The service wire has already been inserted into connector B.

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

### Standard resistance

| Tester Connection         | Condition | Specified Condition |
|---------------------------|-----------|---------------------|
| AE4-3 (+SL) - AE4-4 (-SL) | Always    | Below 1 $\Omega$    |

NG

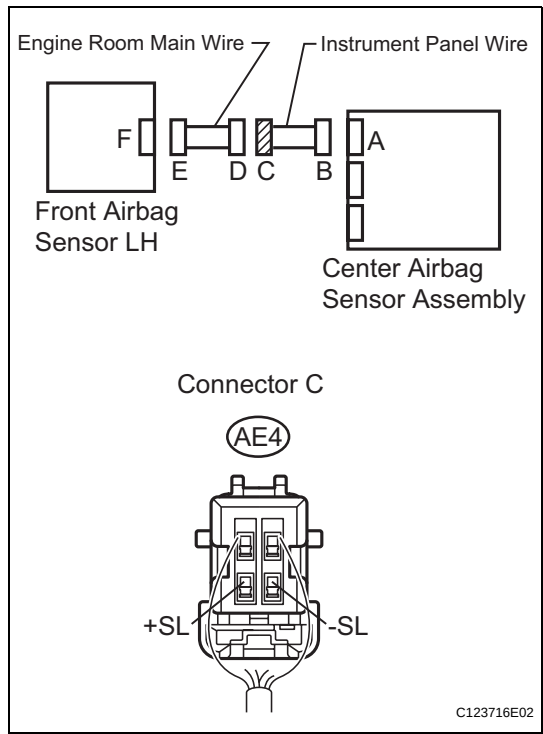
**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

**REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

10

CHECK INSTRUMENT PANEL WIRE (SHORT)



OK

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

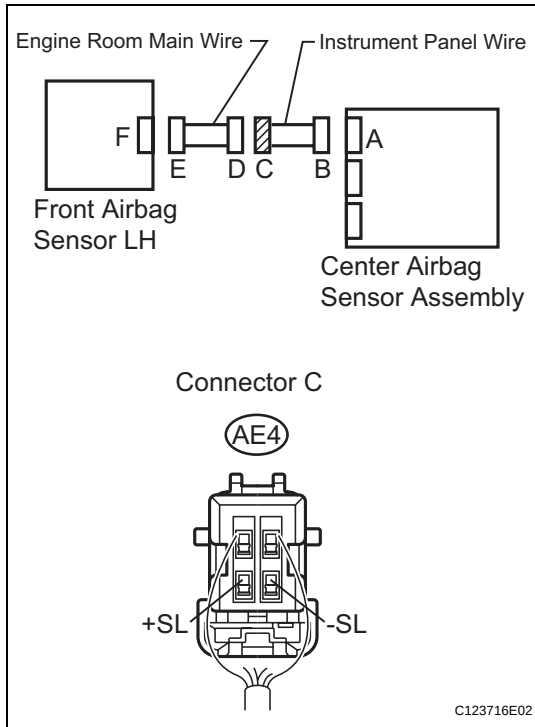
Standard resistance

| Tester Connection         | Condition | Specified Condition |
|---------------------------|-----------|---------------------|
| AE4-3 (+SL) - AE4-4 (-SL) | Always    | 1 MΩ or higher      |

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

**11 CHECK INSTRUMENT PANEL WIRE (SHORT TO B+)**

- Turn the power switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the instrument panel wire connector from the engine room main wire.
- Connect the negative (-) terminal cable to battery, and wait for at least 2 seconds.
- Turn the power switch on (IG).
- Measure the voltage according to the value(s) in the table below.

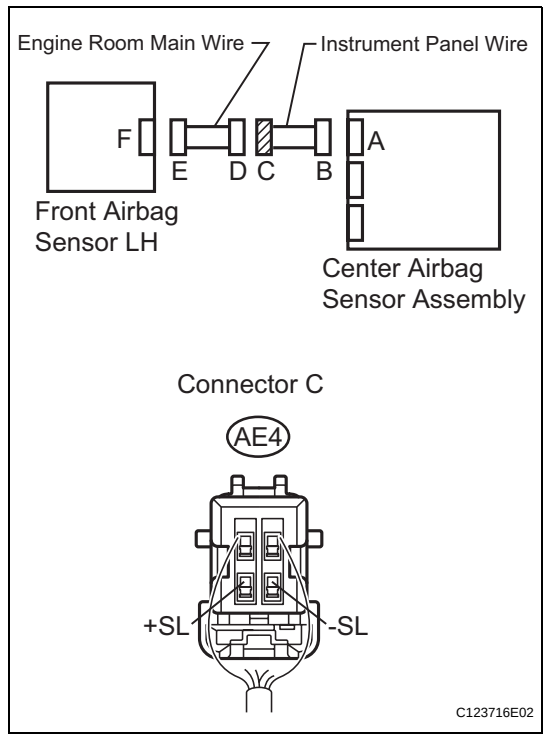
**Standard voltage**

| Tester Connection         | Condition            | Specified Condition |
|---------------------------|----------------------|---------------------|
| AE4-3 (+SL) - Body ground | Power switch on (IG) | Below 1 V           |
| AE4-4 (-SL) - Body ground | Power switch on (IG) | Below 1 V           |

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

12

CHECK INSTRUMENT PANEL WIRE (SHORT TO GROUND)



OK

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

Standard resistance

| Tester Connection         | Condition | Specified Condition |
|---------------------------|-----------|---------------------|
| AE4-3 (+SL) - Body ground | Always    | 1 MΩ or higher      |
| AE4-4 (-SL) - Body ground | Always    | 1 MΩ or higher      |

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE