

|            |                 |   |
|------------|-----------------|---|
| <b>DTC</b> | <b>B1160/83</b> | <b>Short in Curtain Shield Squib RH Circuit</b> |
|------------|-----------------|---|

**DESCRIPTION**

The curtain shield squib RH circuit consists of the center airbag sensor assembly and the curtain airbag assembly RH.

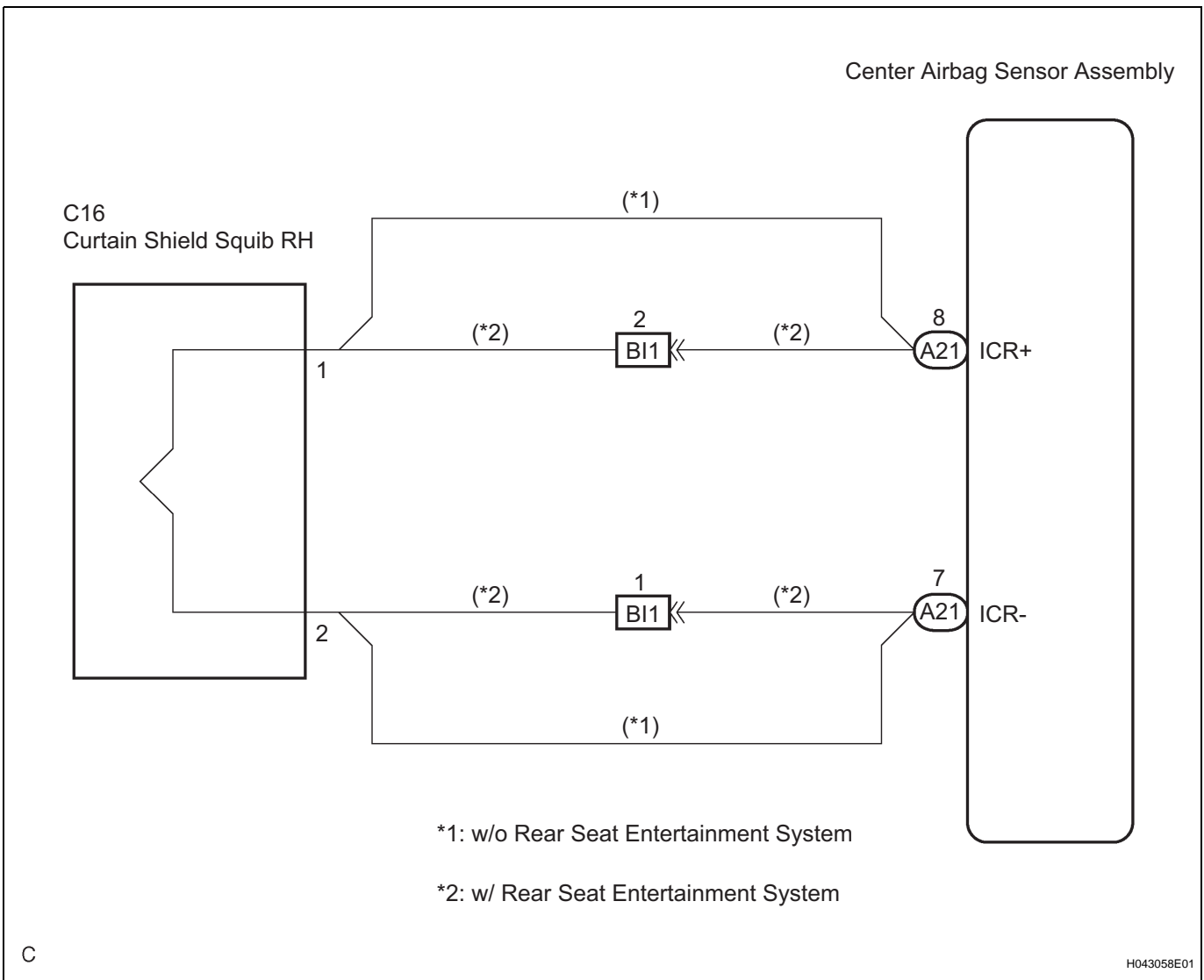
The circuit instructs the SRS to deploy when deployment conditions are met.

DTC B1160/83 is recorded when a short circuit is detected in the curtain shield squib RH circuit.

| DTC No.  | DTC Detecting Condition  | Trouble Area   |
|----------|--|--|
| B1160/83 | <ul style="list-style-type: none"> <li>Short circuit between ICR+ wire harness and ICR- wire harness of curtain shield squib RH</li> <li>Curtain shield squib RH malfunction</li> <li>Center airbag sensor assembly malfunction</li> </ul> | <ul style="list-style-type: none"> <li>Curtain shield airbag assembly RH (Curtain shield squib RH)</li> <li>Center airbag sensor assembly</li> <li>Floor wire</li> <li>Roof wire No.2</li> </ul> |

**RS**

**WIRING DIAGRAM**



## 1 CHECK VEHICLE CONDITION

- (a) Check whether or not the vehicle is equipped with the rear seat entertainment system.

**Result:**

**A:**

w/o Rear seat entertainment system

**B:**

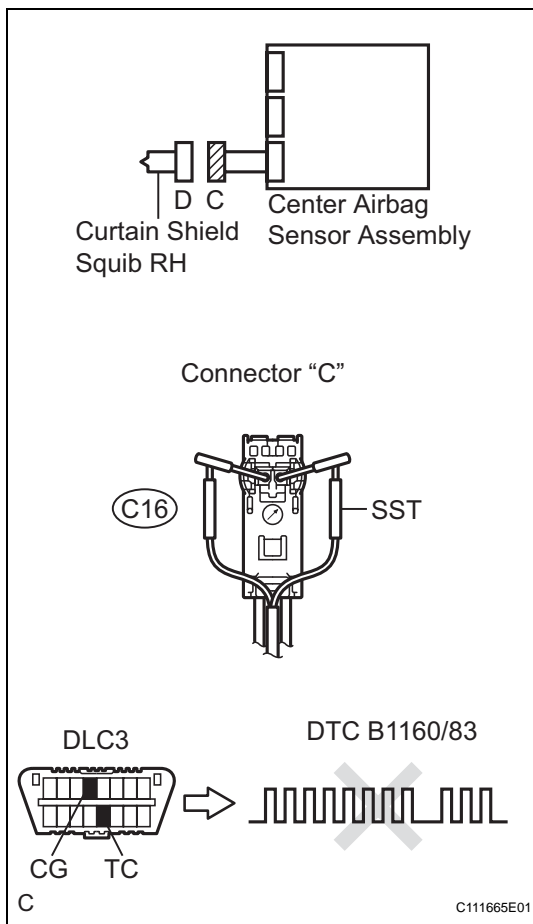
w/ Rear seat entertainment system

**B**

Go to step 6

**A**

## 2 CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH (CURTAIN SHIELD SQUIB RH)



- (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 curtain shield airbag assembly RH.  
 (d) Connect the white wire side of SST (resistance 2.1  $\Omega$ ) to the floor wire.

**CAUTION:**

**Never connect a tester to the curtain shield airbag assembly RH (Curtain shield squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.**

**NOTICE:**

**Do not forcibly insert the SST into the terminals of the connector when connecting. Insert the SST straight into the terminals of the connector.**

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- (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 the DTCs stored in memory (See page RS-32).  
 (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 the DTCs (See page RS-32).

**OK:**

**DTC B1160/83 is not output.**

**HINT:**

Codes other than DTC B1160/83 may be output at this time, but they are not related to this check.

**NG**

Go to step 3

OK

**REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH**

**3 CHECK 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) Disconnect the SST (resistance 2.1 Ω) from the floor wire.
- (d) Check that the floor wire connectors (on the curtain shield airbag assembly RH side) are not damaged.

RS

**OK:**

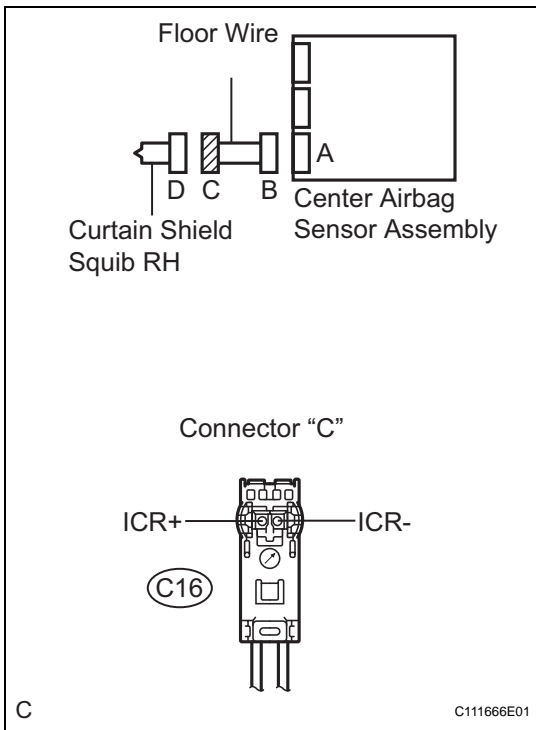
The lock button is not disengaged, and the claw of the lock is not deformed or damaged.

NG

**REPAIR OR REPLACE FLOOR WIRE**

OK

**4 CHECK FLOOR WIRE (CURTAIN SHIELD SQUIB RH CIRCUIT)**



- (a) Disconnect the connector from the center airbag sensor assembly.
- (b) Release the activation prevention mechanism built into connector "B" (See page RS-25).
- (c) Measure the resistance according to the value(s) in the table below.

**Resistance**

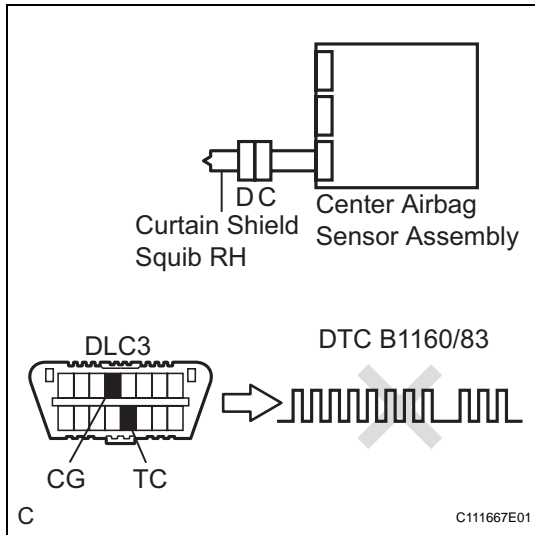
| Tester connection           | Condition | Specified condition |
|-----------------------------|-----------|---------------------|
| C16-1 (ICR+) - C16-2 (ICR-) | Always    | 1 MΩ or higher      |

NG

**REPAIR OR REPLACE FLOOR WIRE**

OK

## 5 CHECK CENTER AIRBAG SENSOR ASSEMBLY



- Connect the connectors to the curtain shield airbag assembly RH and the center airbag sensor assembly.
- 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 the DTCs stored in memory (See page [RS-32](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (See page [RS-32](#)).

**OK:**

**DTC B1160/83 is not output.**

**HINT:**

Codes other than DTC B1160/83 may be output at this time, but they are not related to this check.

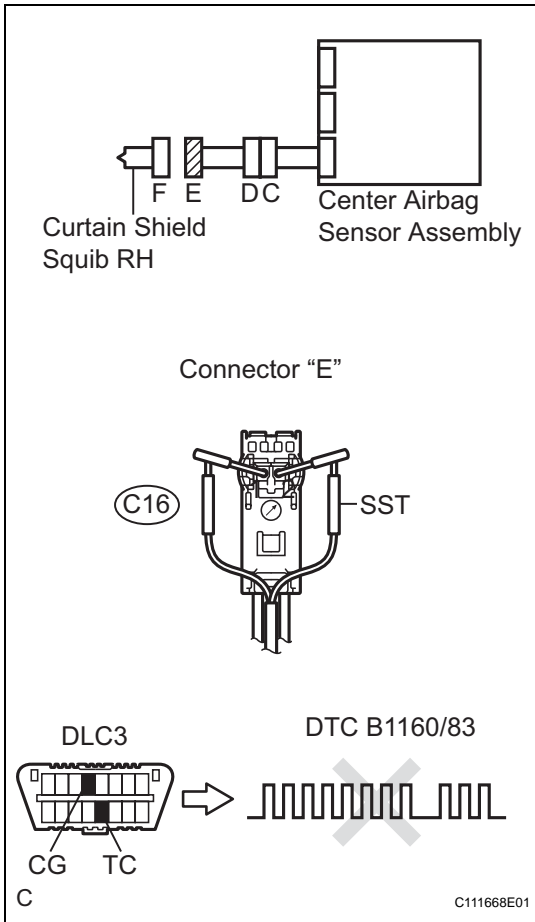
**NG**

**REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

**OK**

**USE SIMULATION METHOD TO CHECK**

**6 CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH (CURTAIN SHIELD SQUIB RH)**



- (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 curtain shield airbag assembly RH.
- (d) Connect the white wire side of SST (resistance 2.1 Ω) to the roof wire No.2.

**CAUTION:**

**Never connect a tester to the curtain shield airbag assembly RH (Curtain shield squib RH) for measurement, as this may lead to a serious injury due to airbag deployment.**

**NOTICE:**

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

**Insert the SST straight into the terminals of the connector.**

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- (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 the DTCs stored in memory (See page RS-32).
- (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 the DTCs (See page RS-32).

**OK:**

**DTC B1160/83 is not output.**

**HINT:**

Codes other than DTC B1160/83 may be output at this time, but they are not related to this check.

**NG**

**Go to step 7**

**OK**

**REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH**

**7 CHECK 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) Disconnect the SST (resistance 2.1 Ω) from the roof wire No.2.
- (d) Check that the roof wire No.2 connectors (on the curtain shield airbag assembly RH side) are not damaged.

**RS**

**OK:**

The lock button is not disengaged, and the claw of the lock is not deformed or damaged.

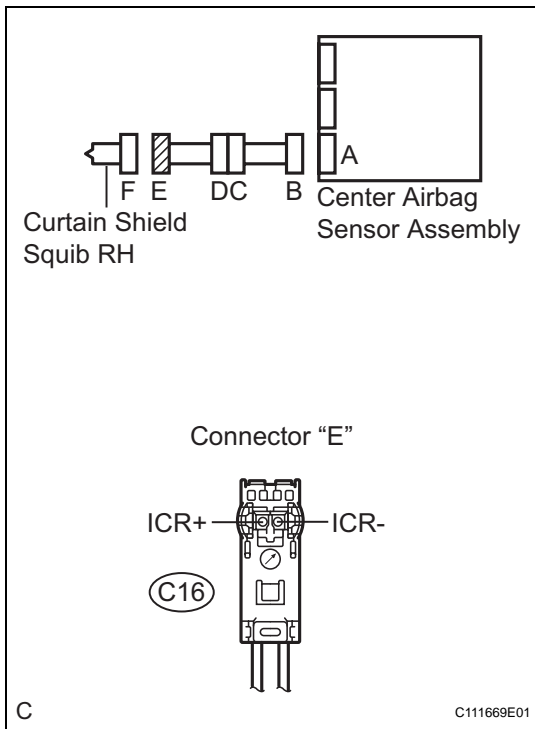
**NG**

**REPAIR OR REPLACE ROOF WIRE NO.2**

**OK**

**8 CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH CIRCUIT**

**RS**



- (a) Disconnect the connector from the center airbag sensor assembly.
- (b) Release the activation prevention mechanism built into connector "B" (See page RS-25).
- (c) Measure the resistance according to the value(s) in the table below.

**Resistance**

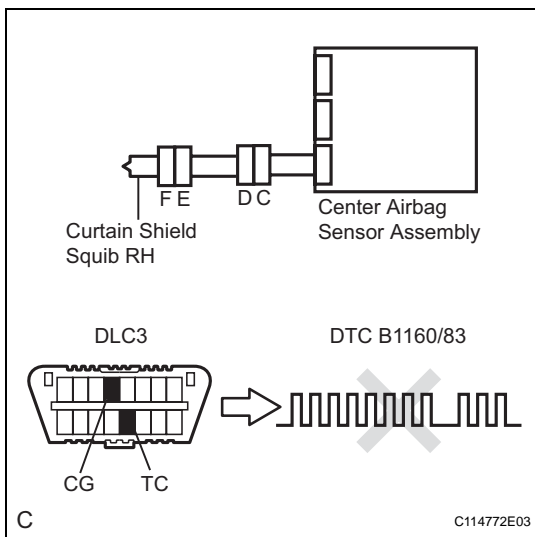
| Tester connection           | Condition | Specified condition |
|-----------------------------|-----------|---------------------|
| C16-1 (ICR+) - C16-2 (ICR-) | Always    | 1 MΩ or higher      |

**NG**

**Go to step 10**

**OK**

**9 CHECK CENTER AIRBAG SENSOR ASSEMBLY**



- (a) Connect the connectors to the curtain shield airbag assembly RH and the center airbag sensor assembly.
- (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, and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (See page RS-32).
- (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 the DTCs (See page RS-32).

**OK:**

**DTC B1160/83 is not output.**

**HINT:**

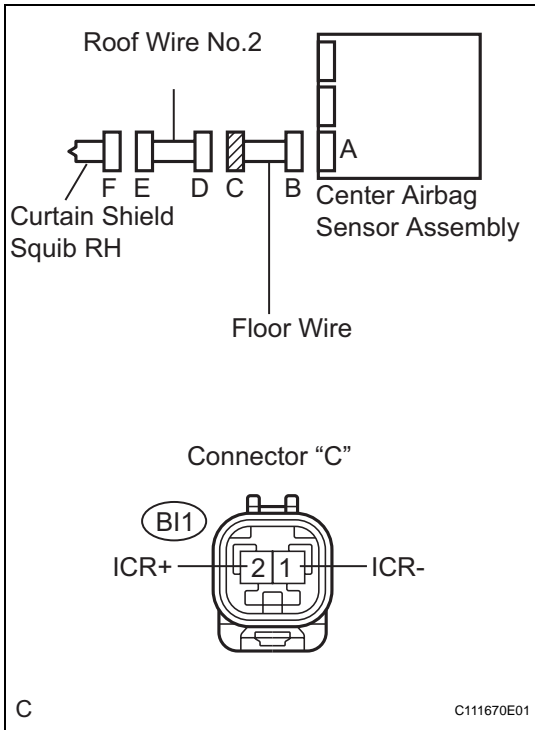
Codes other than DTC B1160/83 may be output at this time, but they are not related to this check.

**NG** **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

**OK**

**USE SIMULATION METHOD TO CHECK**

**10 CHECK FLOOR WIRE**



- (a) Disconnect the floor wire connector from the roof wire No.2.  
HINT:  
The activation prevention mechanism of connector "B" has already been released.
- (b) Measure the resistance according to the value(s) in the table below.  
**Resistance**

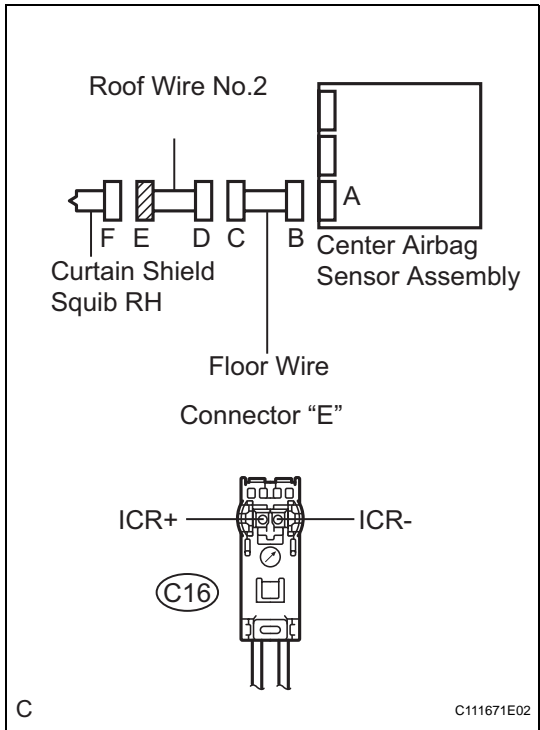
| Tester connection           | Condition | Specified condition |
|-----------------------------|-----------|---------------------|
| BI1-2 (ICR+) - BI1-1 (ICR-) | Always    | 1 MΩ or higher      |

**RS**

**NG** **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

**OK**

**11 CHECK ROOF WIRE NO.2**



- (a) Release the activation prevention mechanism built into connector "D" (See page RS-25).
- (b) Measure the resistance according to the value(s) in the table below.

**Resistance**

| Tester connection           | Condition | Specified condition |
|-----------------------------|-----------|---------------------|
| C16-1 (ICR+) - C16-2 (ICR-) | Always    | 1 MΩ or higher      |

**NG REPAIR OR REPLACE ROOF WIRE NO.2**

**OK**

**USE SIMULATION METHOD TO CHECK**

**RS**