

<b>DTC</b>	<b>B1835/58</b>	<b>SHORT IN CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB CIRCUIT</b>
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<b>DTC</b>	<b>B1836/58</b>	<b>OPEN IN CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB CIRCUIT</b>
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<b>DTC</b>	<b>B1837/58</b>	<b>SHORT IN CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB CIRCUIT (TO GROUND)</b>
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<b>DTC</b>	<b>B1838/58</b>	<b>SHORT IN CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB CIRCUIT (TO B+)</b>
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## CIRCUIT DESCRIPTION

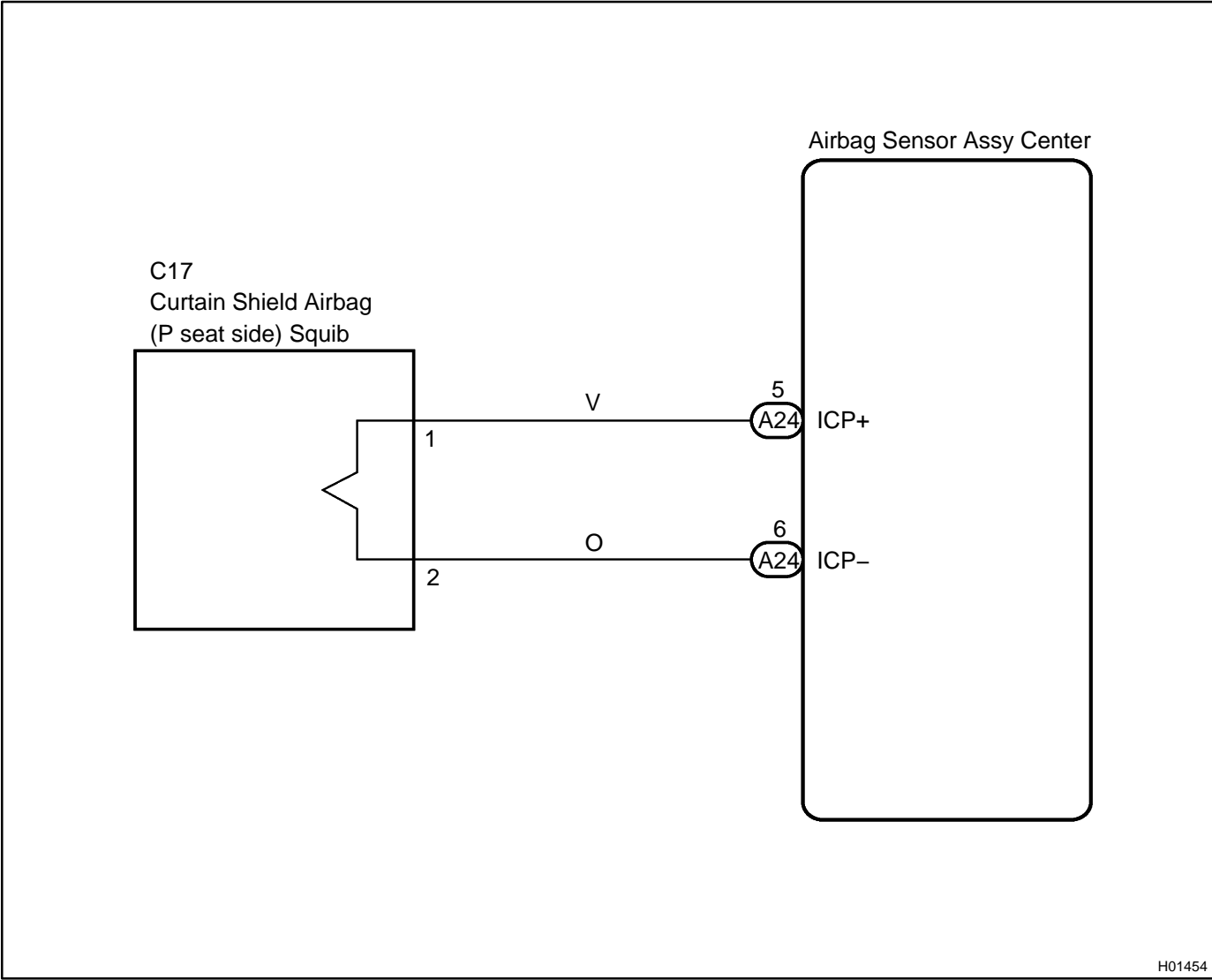
The curtain shield airbag (P seat side) squib circuit consists of the airbag sensor assy center and the curtain shield airbag assy RH.

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

These DTCs are recorded when a malfunction is detected in the curtain shield airbag (P seat side) squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1835/58	<ul style="list-style-type: none"> <li>The airbag sensor assy center receives a line short circuit signal 5 times in the curtain shield airbag (P seat side) squib circuit during primary check.</li> <li>Curtain shield airbag (P seat side) squib malfunction</li> <li>Airbag sensor assy center malfunction</li> </ul>	<ul style="list-style-type: none"> <li>Curtain shield airbag assy RH (Curtain shield airbag (P seat side) squib)</li> <li>Airbag sensor assy center</li> <li>Floor wire No.2</li> </ul>
B1836/58	<ul style="list-style-type: none"> <li>The airbag sensor assy center receives an open circuit signal in the curtain shield airbag (P seat side) squib circuit for 2 seconds.</li> <li>Curtain shield airbag (P seat side) squib malfunction</li> <li>Airbag sensor assy center malfunction</li> </ul>	<ul style="list-style-type: none"> <li>Curtain shield airbag assy RH (Curtain shield airbag (P seat side) squib)</li> <li>Airbag sensor assy center</li> <li>Floor wire No.2</li> </ul>
B1837/58	<ul style="list-style-type: none"> <li>The airbag sensor assy center receives a short to ground circuit signal in the curtain shield airbag (P seat side) squib circuit for 0.5 second.</li> <li>Curtain shield airbag (P seat side) squib malfunction</li> <li>Airbag sensor assy center malfunction</li> </ul>	<ul style="list-style-type: none"> <li>Curtain shield airbag assy RH (Curtain shield airbag (P seat side) squib)</li> <li>Airbag sensor assy center</li> <li>Floor wire No.2</li> </ul>
B1838/58	<ul style="list-style-type: none"> <li>The airbag sensor assy center receives a short circuit to B+ signal in the curtain shield airbag (P seat side) squib circuit for 0.5 second.</li> <li>Curtain shield airbag (P seat side) squib malfunction</li> <li>Airbag sensor assy center malfunction</li> </ul>	<ul style="list-style-type: none"> <li>Curtain shield airbag assy RH (Curtain shield airbag (P seat side) squib)</li> <li>Airbag sensor assy center</li> <li>Floor wire No.2</li> </ul>

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 connectors from the front passenger airbag assy.
- (f) w/ Side airbag:  
Disconnect the connector from the front seat airbag assy LH.
- (g) w/ Side airbag:  
Disconnect the connector from the front seat airbag assy RH.
- (h) w/ Curtain shield airbag:  
Disconnect the connector from the curtain shield airbag assy LH.
- (i) w/ Curtain shield airbag:  
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 READ METHOD OF DTC

- (a) Proceed to each step according to DTC readings.
  - (1) If using the hand-held tester (read the 5-digit of DTC):  
Using the hand-held tester, check the DTCs (see page [05-1464](#)).

#### Result:

DTC B1835 is output.	A
DTC B1826 is output.	B
DTC B1837 is output.	C
DTC B1838 is output.	D

- (2) If not using the hand-held tester (read the 2-digit of DTC):  
Check the DTCs (see page [05-1464](#)).

#### Result:

DTC 58 is output.	E
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B

Go to step 5

C

Go to step 6

D

Go to step 7

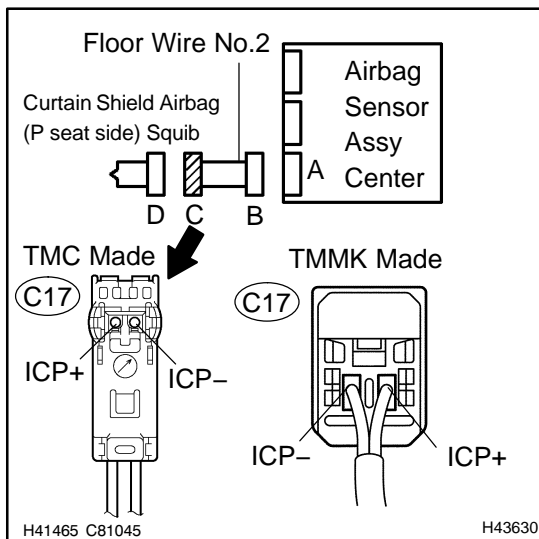
E

Go to step 8

A

**2 CHECK VEHICLE****Result:****A: TMC Made****B: TMMK Made****B****Go to step 4****A****3 CHECK CONNECTOR**

- (a) Check that the floor wire No.2 connector (on the curtain shield airbag assy RH side) is not damaged.

**OK:****The lock button is not disengaged, or the claw of the lock is not deformed or damaged.****NG****REPAIR OR REPLACE FLOOR WIRE NO.2****OK****4 CHECK FLOOR WIRE NO.2 (SHORT)**

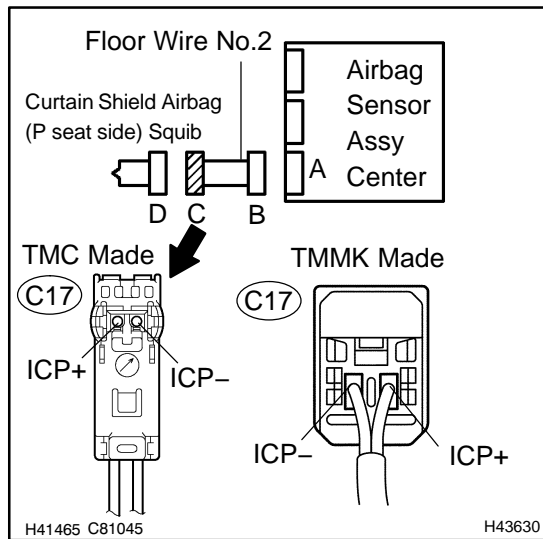
- (a) Release the activation prevention mechanism built into connector "B" (see page 05-1456).

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

**Standard:**

Tester connection	Condition	Specified condition
C17-1 (ICP+) – C17-2 (ICP-)	Always	1 MΩ or Higher

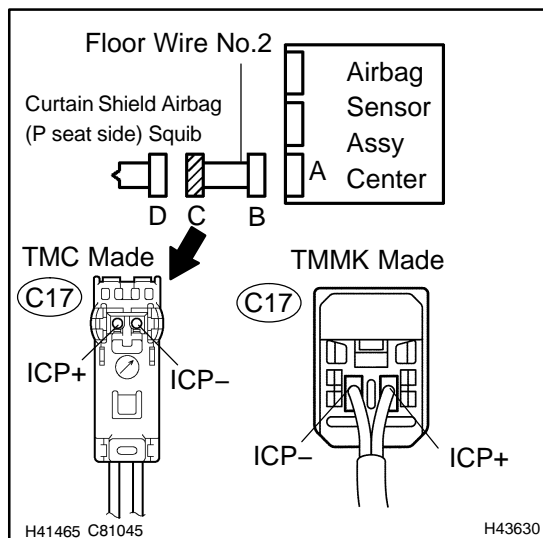
**NG****REPAIR OR REPLACE FLOOR WIRE NO.2****OK****GO TO STEP 12**

**5 CHECK FLOOR WIRE NO.2 (OPEN)**

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

**Standard:**

Tester connection	Condition	Specified condition
C17-1 (ICP+) – C17-2 (ICP-)	Always	Below 1 $\Omega$

**NG****REPAIR OR REPLACE FLOOR WIRE NO.2****OK****GO TO STEP 13****6 CHECK FLOOR WIRE NO.2 (TO GROUND)**

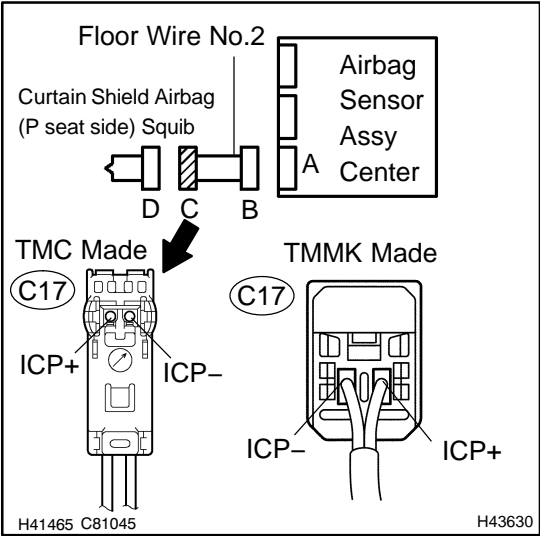
- (a) Measure the resistance according to the value(s) in the table below.

**Standard:**

Tester connection	Condition	Specified condition
C17-1 (ICP+) – Body ground	Always	1 M $\Omega$ or Higher
C17-2 (ICP-) – Body ground	Always	1 M $\Omega$ or Higher

**NG****REPAIR OR REPLACE FLOOR WIRE NO.2****OK****GO TO STEP 13**

**7** | **CHECK FLOOR WIRE NO.2 (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 according to the value(s) in the table below.

**Standard:**

Tester connection	Condition	Specified condition
C17-1 (ICP+) – Body ground	Ignition switch ON	Below 1 V
C17-2 (ICP-) – Body ground	Ignition switch ON	Below 1 V

**NG** → **REPAIR OR REPLACE FLOOR WIRE NO.2**

**OK**

**GO TO STEP 13**

**8** | **CHECK VEHICLE**

**Result:**  
**A: TMC Made**  
**B: TMMK Made**

**B** → **Go to step 10**

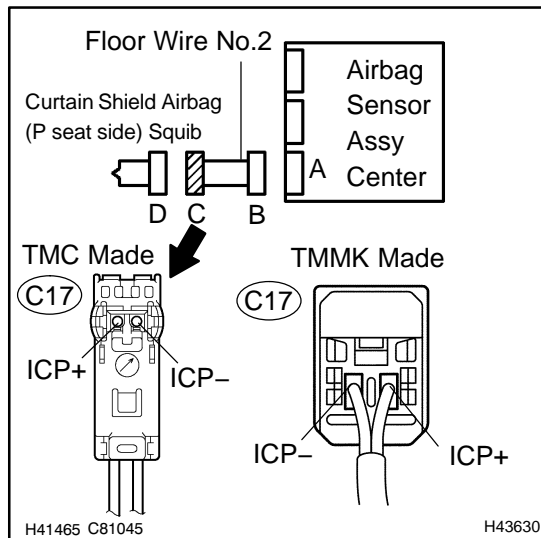
**A**

**9** | **CHECK CONNECTOR**

- (a) Check that the floor wire No.2 connector (on the curtain shield airbag assy RH side) is not damaged.  
**OK:**  
**The lock button is not disengaged, or the claw of the lock is not deformed or damaged.**

**NG** → **REPAIR OR REPLACE FLOOR WIRE NO.2**

**OK**

**10****CHECK FLOOR WIRE NO.2 (CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB CIRCUIT)**

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

**Standard:**

Tester connection	Condition	Specified condition
C17-1 (ICP+) – Body ground	Ignition switch ON	Below 1 V
C17-2 (ICP-) – Body ground	Ignition switch ON	Below 1 V

- (d) Turn the ignition switch to the LOCK position.
- (e) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- (f) Measure the resistance according to the value(s) in the table below.

**Standard:**

Tester connection	Condition	Specified condition
C17-1 (ICP+) – C17-2 (ICP-)	Always	Below 1 Ω
C17-1 (ICP+) – Body ground	Always	1 MΩ or Higher
C17-2 (ICP-) – Body ground	Always	1 MΩ or Higher

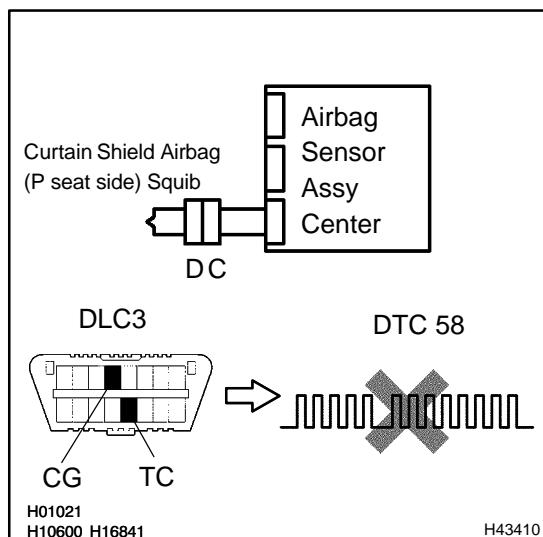
- (g) Release the activation prevention mechanism built into connector "B" (see page 05-1456).
- (h) Measure the resistance according to the value(s) in the table below.

**Standard:**

Tester connection	Condition	Specified condition
C17-1 (ICP+) – C17-2 (ICP-)	Always	1 MΩ or Higher

**NG****REPAIR OR REPLACE FLOOR WIRE NO.2****OK**

# 11 REPLACE CURTAIN SHIELD AIR BAG ASSY RH (CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB)



- (a) Replace the curtain shield airbag assy RH (see page 60-46).

## HINT:

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

- (b) Connect the connectors to the airbag sensor assy center.
- (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 the DTCs stored in memory (see page 05-1464).
- (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 the DTCs (see page 05-1464).

## OK:

**DTC 58 is not output.**

## HINT:

Codes other than code 58 may be output at this time, but they are not related to this check.

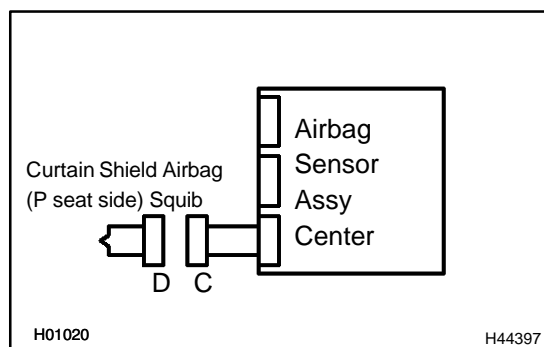
**NG**

**REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60-59)**

**OK**

**END**



**12 CHECK AIR BAG SENSOR ASSY CENTER**

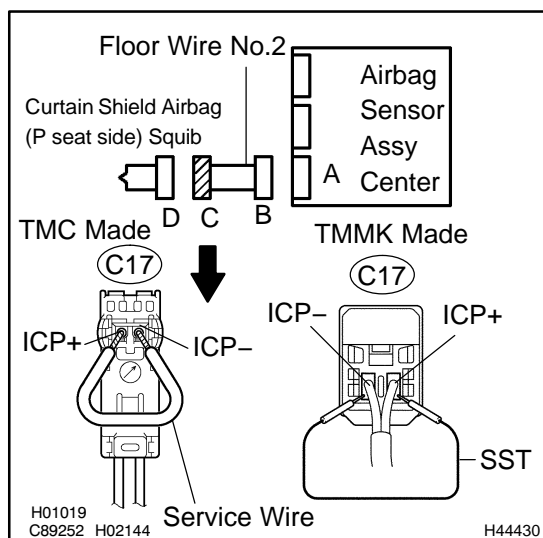
- (a) Connect the connectors to the airbag sensor assy center.
- (b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05-1464).
- (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 05-1464).

**OK:****DTC B1835 is not output.****HINT:**

Codes other than code B1835 may be output at this time, but they are not related to this check.

**NG****REPLACE AIR BAG SENSOR ASSY CENTER  
(SEE PAGE 60-59)****OK****GO TO STEP 14**

# 13 CHECK AIR BAG SENSOR ASSY CENTER



- (a) From the step 7:  
Turn the ignition switch to the LOCK position.
- (b) From the step 7:  
Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Connect the connectors to the airbag sensor assy center.
- (d) TMC Made:  
Using a service wire, connect C17–1 (ICP+) and C17–2 (ICP–) of connector "C".

## NOTICE:

- **Twist the end of the service wire in order to insert it into the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

- (e) TMMK Made:  
Using SST, connect C17–1 (ICP+) and C17–2 (ICP–) of connector "C".  
SST 09843–18040
- (f) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (h) Clear the DTCs stored in memory (see page 05-1464).
- (i) Turn the ignition switch to the LOCK position.
- (j) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (k) Check the DTCs (see page 05-1464).

## OK:

**DTC B1836, B1837 or B1838 is not output.**

## HINT:

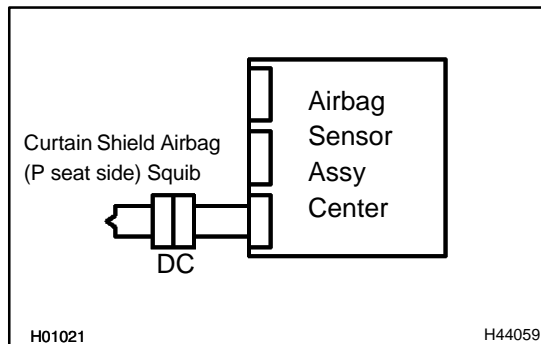
Codes other than code B1836, B1837 and B1838 may be output at this time, but they are not related to this check.

**NG**

**REPLACE AIR BAG SENSOR ASSY CENTER  
(SEE PAGE 60-59)**

**OK**

<b>14</b>	<b>CHECK CURTAIN SHIELD AIR BAG ASSY RH (CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB)</b>
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- (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) From step 13 (TMC Made):  
Disconnect the service wire from connector "C".
- (d) From step 13 (TMMK Made):  
Disconnect the SST from connector "C".
- (e) Connect the connector to the curtain shield airbag assy RH.
- (f) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (h) Clear the DTCs stored in memory (see page 05-1464).
- (i) Turn the ignition switch to the LOCK position.
- (j) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (k) Check the DTCs (see page 05-1464).

**OK:**

**DTC B1835, B1836, B1837 or B1838 is not output.**

**HINT:**

Codes other than code B1835, B1836, B1837 and B1838 may be output at this time, but they are not related to this check.

**NG**

**REPLACE CURTAIN SHIELD AIR BAG ASSY RH (SEE PAGE 60-46)**

**OK**

**USE SIMULATION METHOD TO CHECK (SEE PAGE 05-1456)**

**HINT:**

- Perform the simulation method by selecting the check mode with the hand-held tester (see page 05-1452).
- After selecting the check mode, perform the simulation method by wiggling each connector of the air-bag system or driving the vehicle on a city or rough road (see page 05-1452).