

DTC	B1835/58	Short in Front Passenger Side Curtain Shield Squib Circuit
DTC	B1836/58	Open in Front Passenger Side Curtain Shield Squib Circuit
DTC	B1837/58	Short to GND in Front Passenger Side Curtain Shield Squib Circuit
DTC	B1838/58	Short to B+ in Front Passenger Side Curtain Shield Squib Circuit

DESCRIPTION

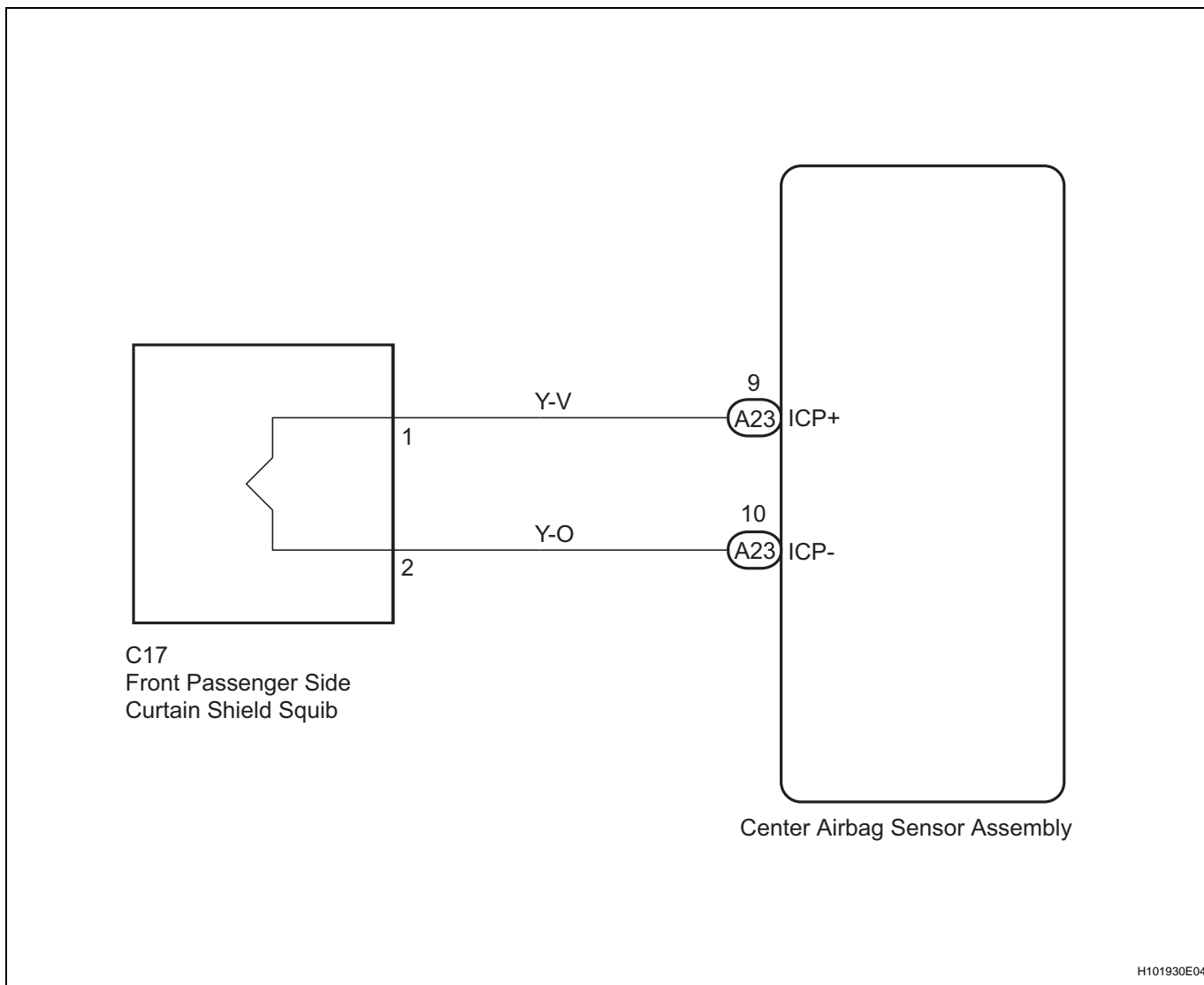
The curtain shield airbag (front passenger seat side) squib circuit consists of the center airbag sensor assembly and the curtain shield airbag assembly RH.

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

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

DTC No.	DTC Detections Conditions	Trouble Areas
B1835/58	<ul style="list-style-type: none"> The center airbag sensor assembly receives a line short circuit signal in the curtain shield airbag (Front passenger seat side) squib circuit for 2 seconds Curtain shield airbag (Front passenger seat side) squib malfunction Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> Floor wire Curtain shield airbag assembly RH (Curtain shield airbag [Front passenger seat side] squib) Center airbag sensor assembly
B1836/58	<ul style="list-style-type: none"> The center airbag sensor assembly receives an open circuit signal in the curtain shield airbag (Front passenger seat side) squib circuit for 2 seconds Curtain shield airbag (Front passenger seat side) squib malfunction Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> Floor wire Curtain shield airbag assembly RH (Curtain shield airbag [Front passenger seat side] squib) Center airbag sensor assembly
B1837/58	<ul style="list-style-type: none"> The center airbag sensor assembly receives a short circuit to ground signal in the curtain shield airbag (Front passenger seat side) squib circuit for 0.5 seconds Curtain shield airbag (Front passenger seat side) squib malfunction Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> Floor wire Curtain shield airbag assembly RH (Curtain shield airbag [Front passenger seat side] squib) Center airbag sensor assembly
B1838/58	<ul style="list-style-type: none"> The center airbag sensor assembly receives a short circuit to B+ signal in the curtain shield airbag (Front passenger seat side) squib circuit for 0.5 seconds Curtain shield airbag (Front passenger seat side) squib malfunction Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> Floor wire Curtain shield airbag assembly RH (Curtain shield airbag [Front passenger seat side] squib) Center airbag sensor assembly

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 airbag assembly LH.
- (g) Disconnect the connector from the front seat airbag assembly RH.

HINT:

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

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

1	CHECK DTC
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(a) Proceed to the appropriate step according to DTC readings.

- (1) If using the intelligent tester (read the 5-digit DTCs):
Using the intelligent tester, check for DTCs (See page [RS-34](#)).

Result

Result	Proceed to
B1835 is output.	A
B1836 is output.	B
B1837 is output.	C
B1838 is output.	D

- (2) If not using the intelligent tester (read the 2-digit DTCs): Check for DTCs (See page [RS-34](#)).

Result

Result	Proceed to
DTC 58 is output.	E

B	➤	Go to step 4
C	➤	Go to step 5
D	➤	Go to step 6
E	➤	Go to step 7

A

2	CHECK CONNECTOR
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(a) Check that the floor wire connector (on the curtain shield airbag assembly RH side) is not damaged.

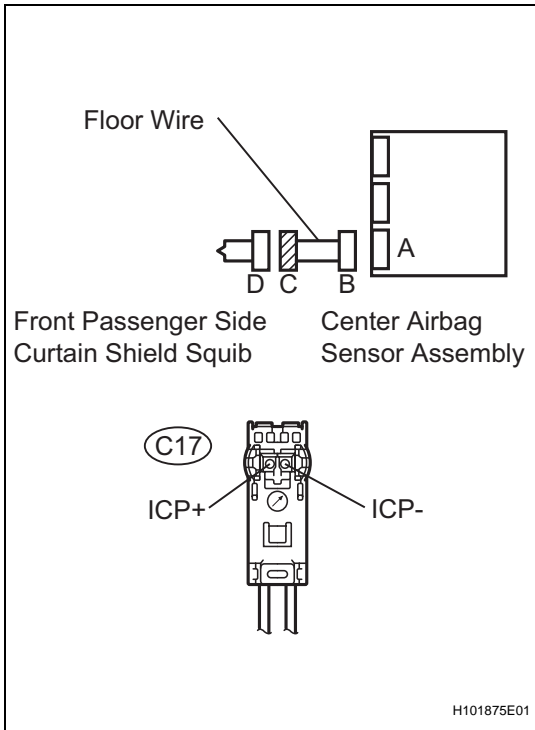
OK:

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

NG	➤	REPAIR OR REPLACE FLOOR WIRE
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OK

3 CHECK FLOOR WIRE (FOR SHORT)



- (a) Release the activation prevention mechanism built into connector B (See page RS-28).
- (b) Measure the resistance.

Standard resistance

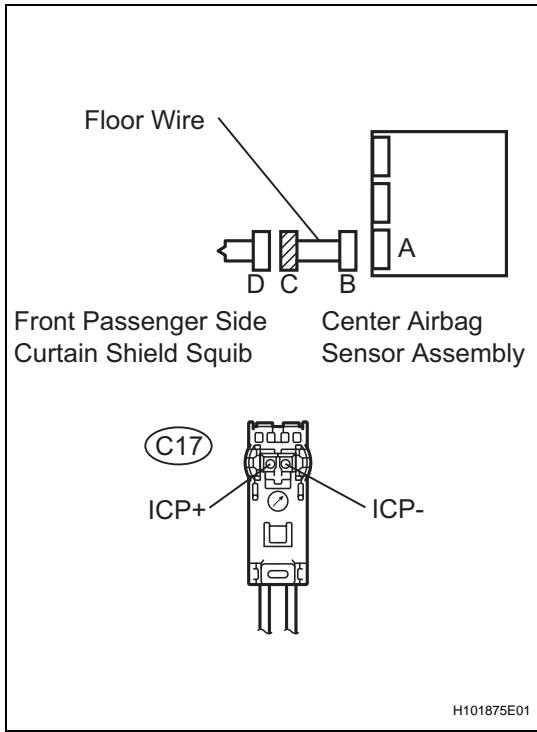
Tester Connection	Condition	Specified Condition
C17-1 (ICP+) - C17-2 (ICP-)	Always	1 MΩ or higher

OK → **Go to step 10**

NG

REPAIR OR REPLACE FLOOR WIRE

4 CHECK FLOOR WIRE (FOR OPEN)



(a) Measure the resistance.
Standard resistance

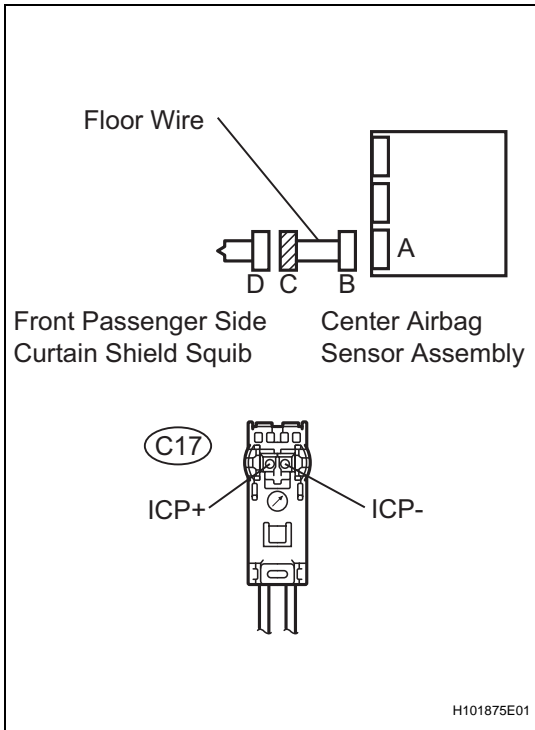
Tester Connection	Condition	Specified Condition
C17-1 (ICP+) - C17-2 (ICP-)	Always	Below 1 Ω

OK → **Go to step 11**

NG

REPAIR OR REPLACE FLOOR WIRE

5 CHECK FLOOR WIRE (TO GROUND)



(a) Measure the resistance.
Standard resistance

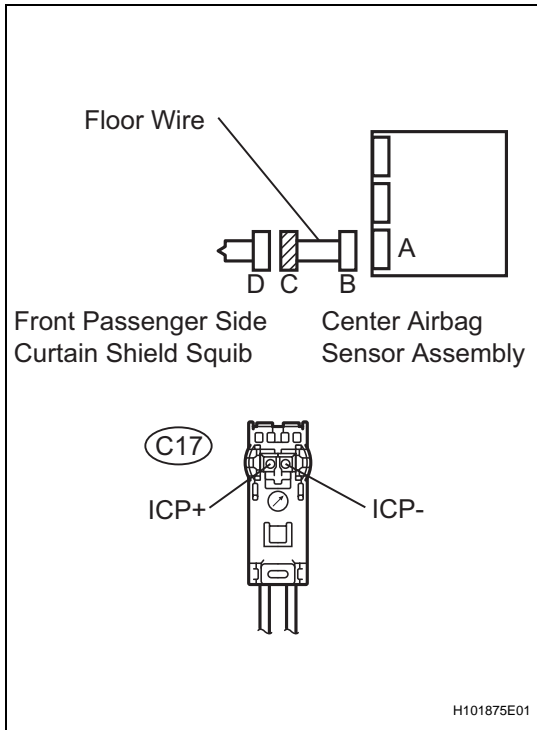
Tester Connection	Condition	Specified Condition
C17-1 (ICP+) - Body ground	Always	1 MΩ or higher
C17-2 (ICP-) - Body ground	Always	1 MΩ or higher

OK → **Go to step 11**

NG

REPAIR OR REPLACE FLOOR WIRE

6 CHECK FLOOR WIRE (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
C17-1 (ICP+) - Body ground	Ignition switch ON	Below 1 V
C17-2 (ICP-) - Body ground	Ignition switch ON	Below 1 V

OK → **Go to step 11**

NG

REPAIR OR REPLACE FLOOR WIRE

7 CHECK CONNECTOR

- (a) Check that the floor wire connector (on the curtain shield airbag assembly RH side) is not damaged.

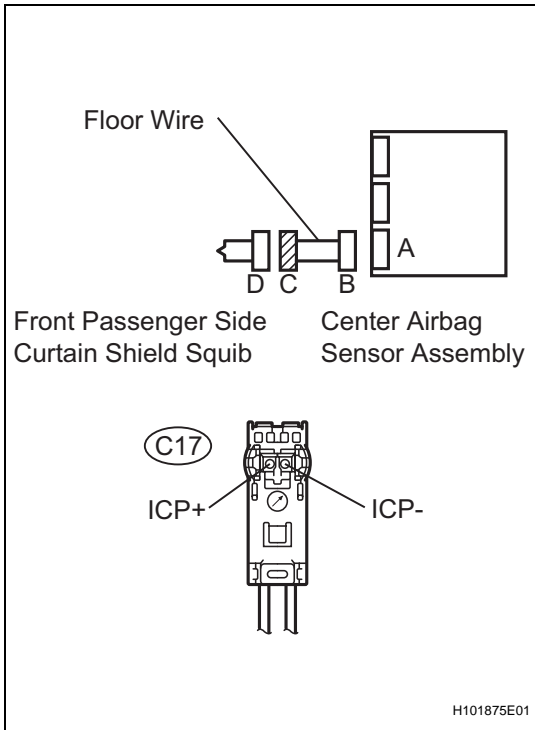
OK:

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

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

8 CHECK FLOOR WIRE



- (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
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.

Standard resistance

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 RS-28).

- (h) Measure the resistance.

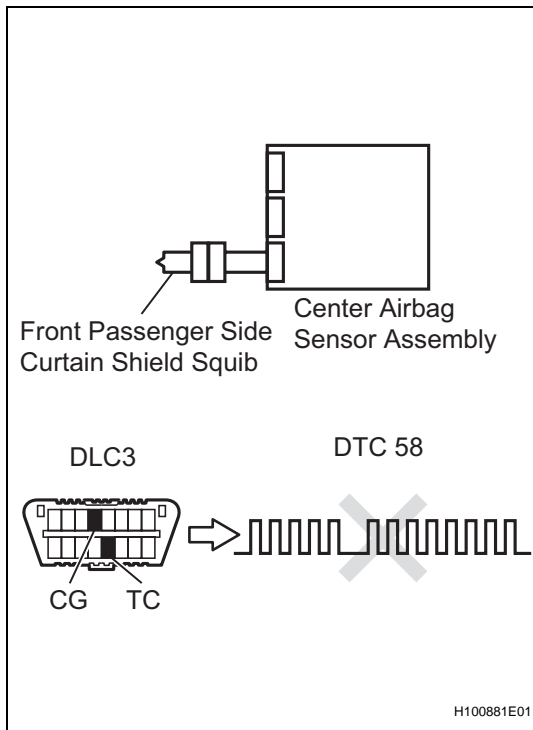
Standard resistance

Tester Connection	Condition	Specified Condition
C17-1 (ICP+) - C17-2 (ICP-)	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

9 REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH (CURTAIN SHIELD AIRBAG (FRONT PASSENGER SEAT SIDE) SQUIB)



(a) Replace the curtain shield airbag assembly RH (See page [RS-587](#)).

HINT:

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

- (b) Connect the connectors to the center airbag sensor assembly.
- (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 58 is not output.

HINT:

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

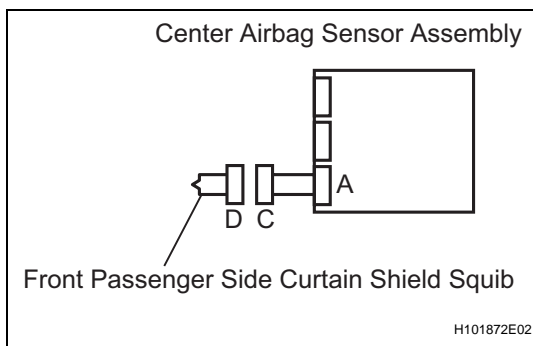
NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

END

10 CHECK CENTER AIRBAG SENSOR ASSEMBLY



- (a) Connect the connectors to 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 any DTCs stored in the memory (See page [RS-34](#)).
- (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 for DTCs (See page [RS-34](#)).

OK:

DTC B1835 is not output.

HINT:

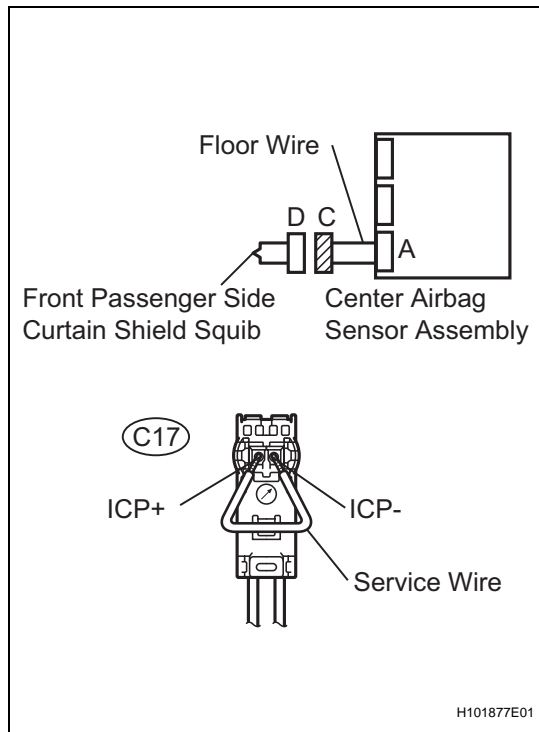
DTCs other than B1835 may be output at this time, but they are not related to this check.

OK Go to step 12

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

11 CHECK CENTER AIRBAG SENSOR ASSEMBLY



HINT:

If continuing from step 6, begin from (a). If continuing from any other step, begin from (c).

- (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 connectors to the center airbag sensor assembly.
- (d) 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) 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 B1836, B1837 and B1838 are not output.

HINT:

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

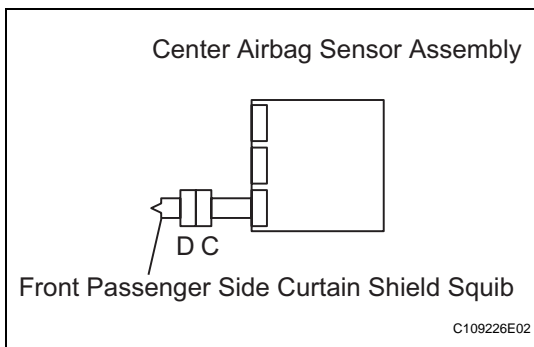
NG REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

12 CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH

HINT:

If continuing from step 11, begin from (c). If continuing from any other step, being from (a).



- (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 service wire from connector C.
- (d) Connect the connector to the curtain shield airbag assembly RH.
- (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 B1835, B1836, B1837 and B1838 are not output.

HINT:

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

NG

REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH

OK

USE SIMULATION METHOD TO CHECK