

DTC	B1628/82	Front Passenger Side - Side Airbag Sensor Assembly Initialization Incomplete
DTC	B1637/82	Lost Communication with Passenger Side Rear Airbag Sensor
DTC	B1638/82	Passenger Side Rear Airbag Sensor Initialization Incomplete
DTC	B1647/82	Lost Communication with Front Passenger Side Satellite Sensor Bus

DESCRIPTION

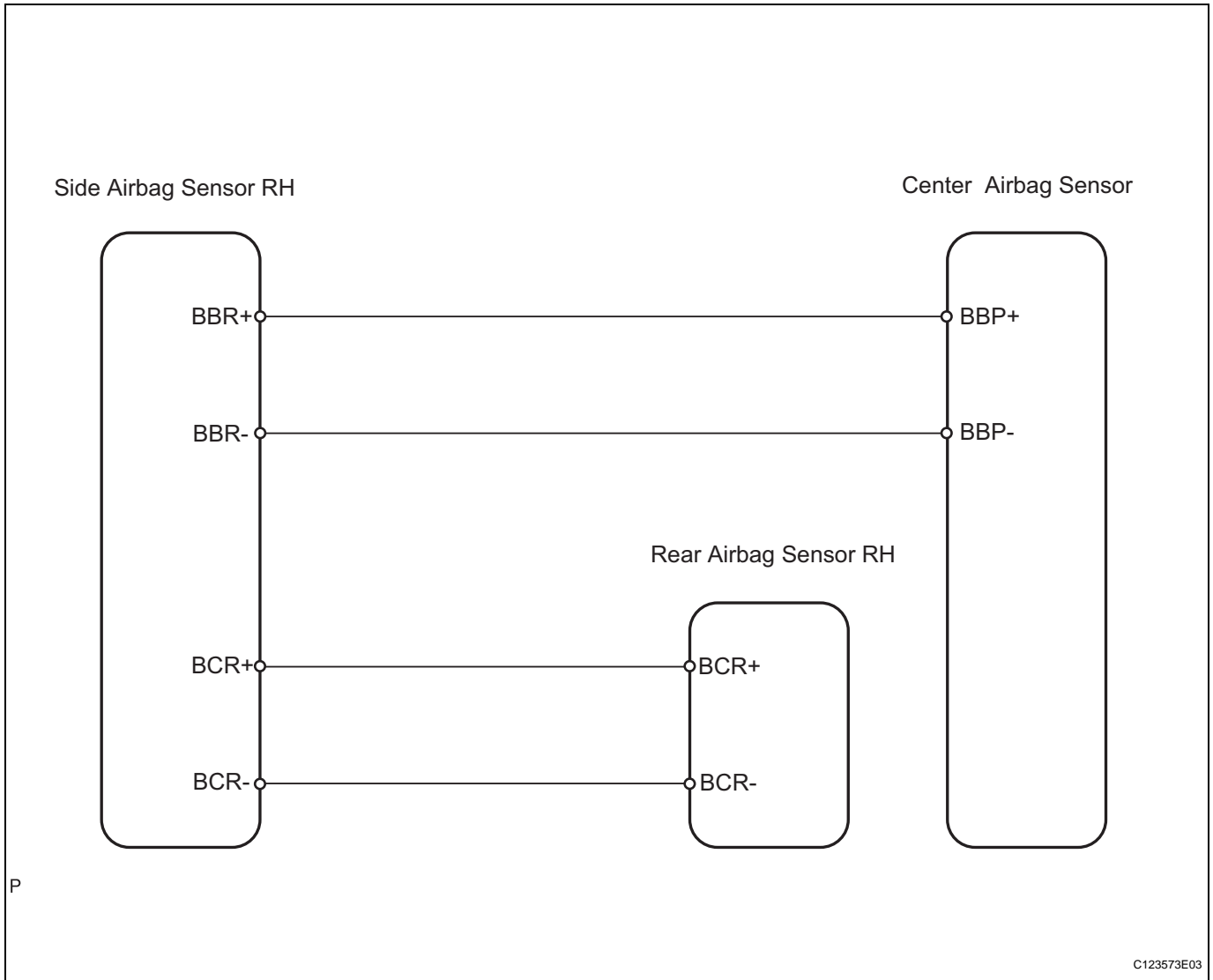
The side airbag sensor RH consists of parts including the diagnostic circuit and the lateral deceleration sensor.

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

DTC B1628/82, B1637/82, B1638/82 or B1647/82 is set when a malfunction is detected in the side airbag sensor RH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1628/82 B1637/82 B1638/82 B1647/82	When one of following conditions is met: <ul style="list-style-type: none"> Center airbag sensor detects line short signal, open signal, short to ground signal or short to B+ signal in side airbag sensor RH circuit for 2 seconds. Side airbag sensor RH malfunction Center airbag sensor malfunction 	<ul style="list-style-type: none"> Floor wire Side airbag sensor RH Center airbag sensor

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1 CHECK CONNECTION OF CONNECTOR

- (a) Turn the ignition switch OFF.
- (b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
- (c) Check that the connectors are properly connected to the center airbag sensor, rear airbag sensor RH and the side airbag sensor RH.

OK:

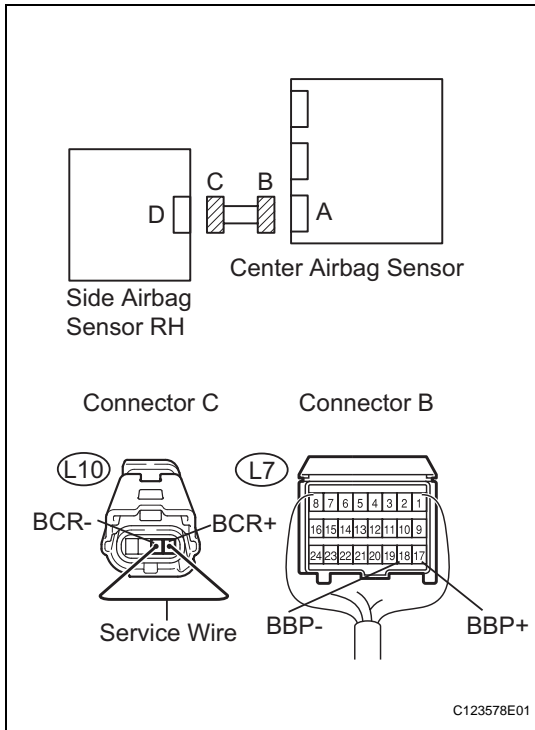
The connectors are properly connected.

NG

CONNECT CONNECTOR

OK

2 CHECK FLOOR WIRE (OPEN)



- (a) Disconnect the connectors from the center airbag sensor and the side airbag sensor RH.
- (b) Using a service wire, connect L10-4 (BBR+) and L10-3 (BBR-) of connector C.

NOTICE:

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

- (c) Measure the resistance of the wire harness side connector.

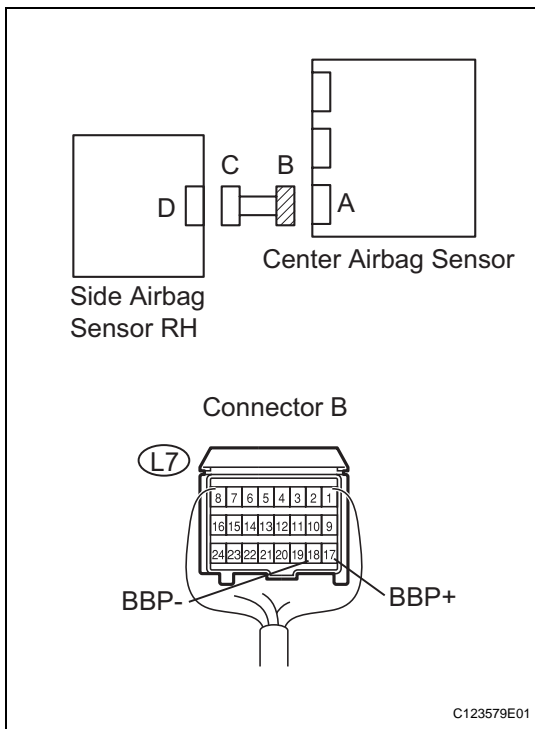
Standard resistance

Tester Connection	Specified Condition
L7-17 (BBP+) - L7-18 (BBP-)	Below 1 Ω

NG REPAIR OR REPLACE FLOOR WIRE

OK

3 CHECK FLOOR WIRE (SHORT)



- (a) Disconnect the service wire from connector C.
- (b) Measure the resistance of the wire harness side connector.

Standard resistance

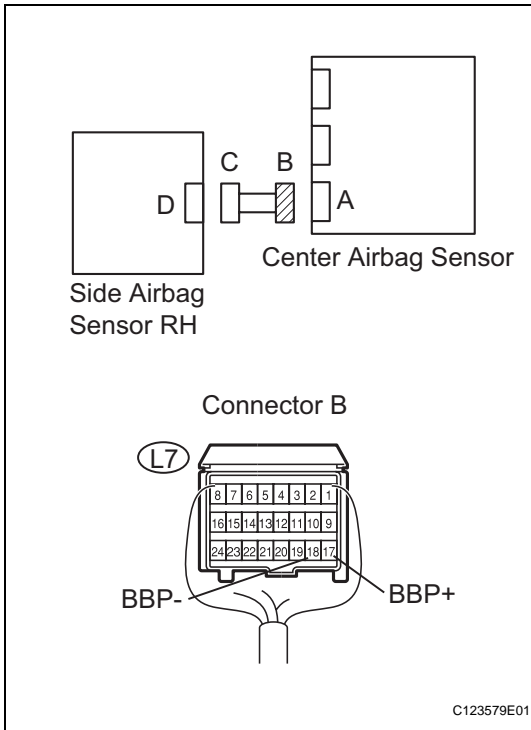
Tester Connection	Specified Condition
L7-17 (BBP+) - L7-18 (BBP-)	1 MΩ or higher

NG REPAIR OR REPLACE FLOOR WIRE

OK

RS

4 CHECK FLOOR WIRE (TO B+)



- (a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
- (b) Turn the ignition switch ON.
- (c) Measure the voltage of the wire harness side connector.

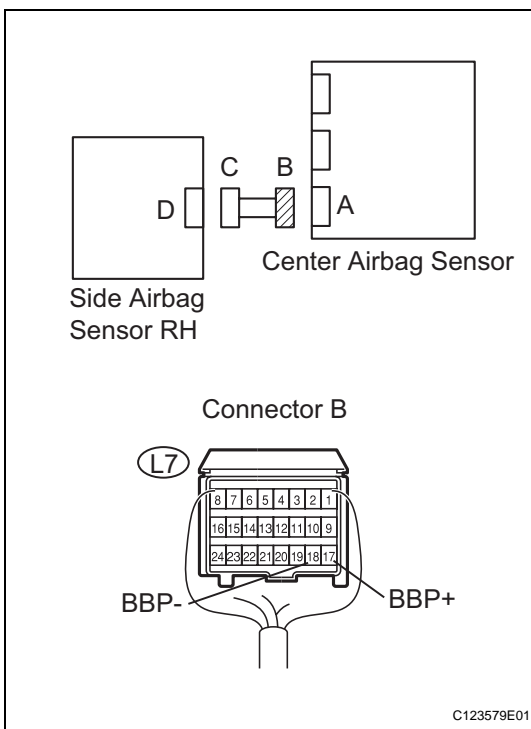
Standard voltage

Tester Connection	Specified Condition
L7-17 (BBP+) - Body ground	Below 1 V
L7-18 (BBP-) - Body ground	Below 1 V

NG REPAIR OR REPLACE FLOOR WIRE

OK

5 CHECK FLOOR WIRE (TO GROUND)



- (a) Turn the ignition switch OFF.
- (b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
- (c) Measure the resistance of the wire harness side connector.

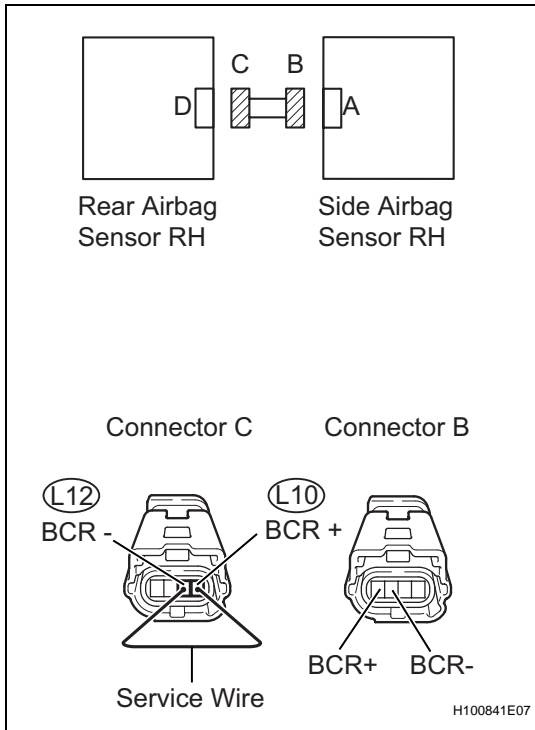
Standard resistance

Tester Connection	Specified Condition
L7-17 (BBP+) - Body ground	1 MΩ or higher
L7-18 (BBP-) - Body ground	1 MΩ or higher

NG REPAIR OR REPLACE FLOOR WIRE

OK

6 CHECK FLOOR WIRE (OPEN)



- (a) Disconnect the connectors from the side airbag sensor RH and the rear airbag sensor RH.
- (b) Using a service wire, connect L12-1 (BCR-) and L12-2 (BCR+) of connector C.

NOTICE:

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

- (c) Measure the resistance of the wire harness side connector.

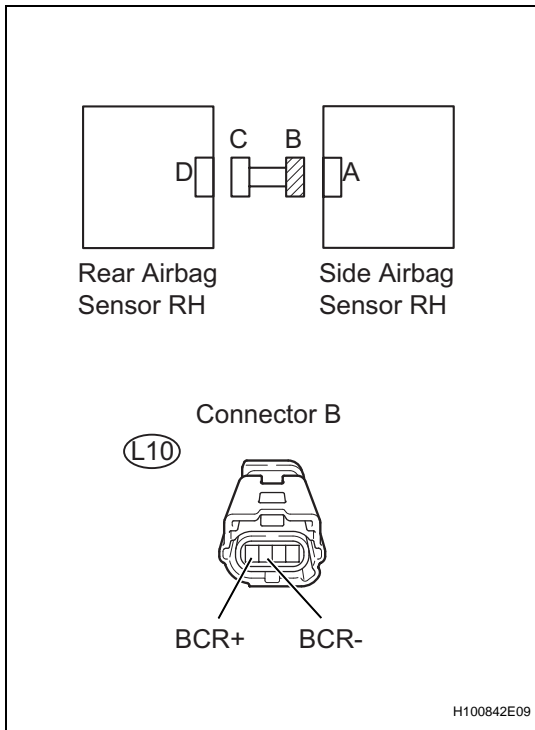
Standard resistance

Tester Connection	Specified Condition
L10-1 (BCR+) - L10-2 (BCR-)	Below 1 Ω

NG REPAIR OR REPLACE FLOOR WIRE

OK

7 CHECK FLOOR WIRE (SHORT)



- (a) Disconnect the service wire from connector C.
- (b) Measure the resistance of the wire harness side connectors.

Standard resistance

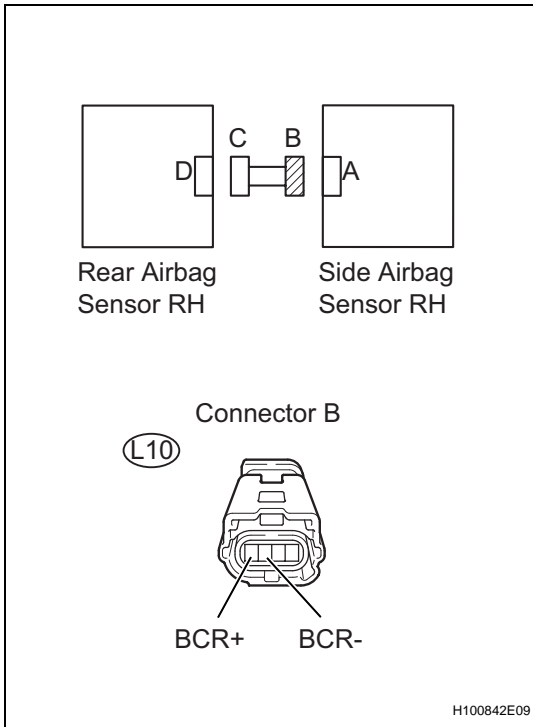
Tester Connection	Specified Condition
L10-1 (BCR+) - L10-2 (BCR-)	1 MΩ or higher

NG REPAIR OR REPLACE FLOOR WIRE

OK

RS

8 CHECK FLOOR WIRE (TO B+)



- (a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
- (b) Turn the ignition switch ON.
- (c) Measure the voltage of the wire harness side connector.

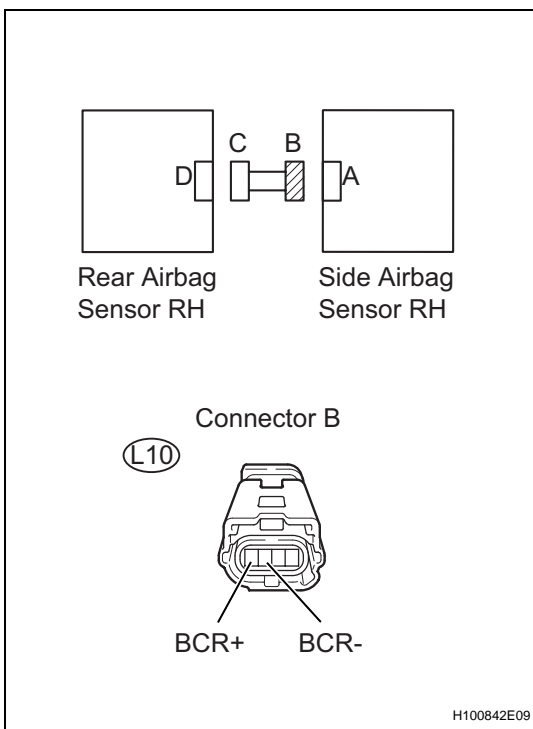
Standard voltage

Tester Connection	Specified Condition
L10-1 (BCR+) - Body ground	Below 1 V
L10-2 (BCR-) - Body ground	Below 1 V

NG REPAIR OR REPLACE FLOOR WIRE

OK

9 CHECK FLOOR WIRE (TO GROUND)



- (a) Turn the ignition switch OFF.
- (b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
- (c) Measure the resistance of the wire harness side connector.

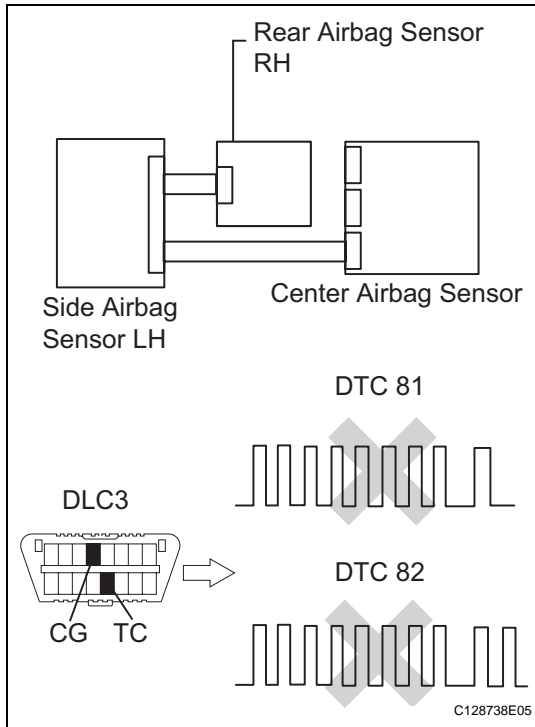
Standard resistance

Tester Connection	Specified Condition
L10-1 (BCR+) - Body ground	1 MΩ or higher
L10-2 (BCR-) - Body ground	1 MΩ or higher

NG REPAIR OR REPLACE FLOOR WIRE

OK

RS

10 CHECK SIDE AIRBAG SENSOR RH

- Connect the connectors to the center airbag sensor .
- Interchange the side airbag sensor LH with the side airbag sensor RH and connect the connectors to them.
- Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
- Turn the ignition switch ON, and wait for at least 60 seconds.
- Clear the DTCs (see page [RS-49](#)).
- Turn the ignition switch OFF.
- Turn the ignition switch ON, and wait for at least 60 seconds.
- Check for DTCs (see page [RS-49](#)).

Result

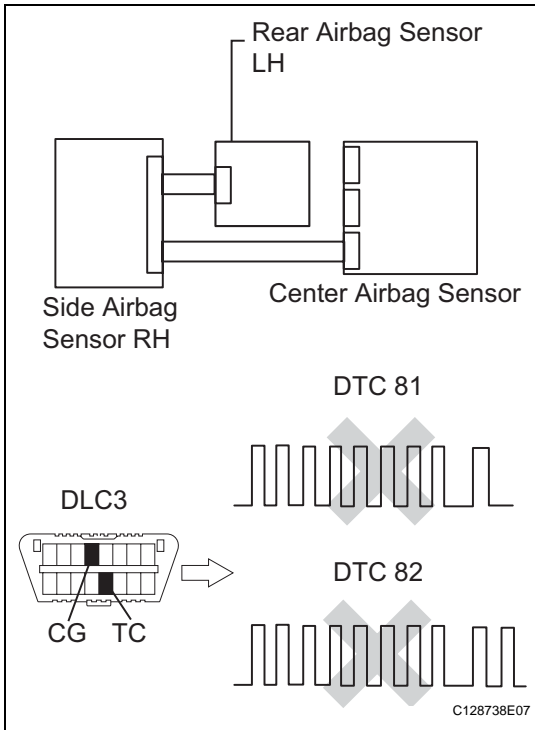
Result	Proceed to
DTC B1623/81, B1632/81, B1633/81, B1642/81, B1628/82, B1637/82, B1638/82 and B1647/82 are not output	A
DTC B1628/82, B1637/82, B1638/82 and B1647/82 are output	B
DTC B1623/81, B1632/81, B1633/81 and B1642/81 are output	C

HINT:

DTCs other than DTC B1623/81, B1632/81, B1633/81, B1642/81, B1628/82, B1637/82, B1638/82 and B1647/82 may be output at this time, but they are not related to this check.

B**REPLACE CENTER AIRBAG SENSOR ASSEMBLY****C****REPLACE SIDE AIRBAG SENSOR RH****A**

11 CHECK REAR AIRBAG SENSOR RH



- (a) Turn the ignition switch OFF.
- (b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
- (c) Interchange the rear airbag sensor RH with the rear airbag sensor LH and connect the connectors to them.
- (d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
- (e) Turn the ignition switch ON, and wait for at least 60 seconds.
- (f) Clear the DTCs (see page RS-49).
- (g) Turn the ignition switch ON, and wait for at least 60 seconds.
- (h) Check the DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1623/81, B1632/81, B1633/81, B1642/81, B1628/82, B1637/82, B1638/82 and B1647/82 are not output	A
DTC B1628/82, B1637/82, B1638/82 and B1647/82 are output	B
DTC B1623/81, B1632/81, B1633/81 and B1642/81 are output	C

HINT:

DTCs other than DTC B1623/81, B1632/81, B1633/81, B1642/81, B1628/82, B1637/82, B1638/82 and B1647/82 may be output at this time, but they are not related to this check.

B	REPLACE CENTER AIRBAG SENSOR ASSEMBLY
C	REPLACE REAR AIRBAG SENSOR RH

A

USE SIMULATION METHOD TO CHECK