DTC	B1632/81	Lost Communication with Driver Side Rear Airbag Sensor

DTC	B1633/81	Driver Side Rear Airbag Sensor Initialization Incomplete

DESCRIPTION

The side airbag sensor LH and the rear airbag sensor LH consist of parts including the diagnostic circuit and the lateral deceleration sensor.

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

DTC B1632/81 and B1633/81 are set when a malfunction is detected in the side airbag sensor LH or rear airbag sensor LH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1632/81 B1633/81	• Center airbag sensor assembly detects open circuit signal in side airbag sensor LH circuit or rear airbag sensor LH circuit for 2 seconds, • Side airbag sensor LH malfunction • Rear airbag sensor LH malfunction • Center airbag sensor assembly malfunction	• Floor wire No.2 • Side airbag sensor LH • Rear airbag sensor LH • Center airbag sensor assembly

RS

WIRING DIAGRAM

RS-72

INSPECTION PROCEDURE

NOTICE:

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.

1. Turn the ignition switch off.
2. Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
3. Disconnect the connector from the center airbag sensor assembly.
4. Disconnect the connectors from the steering pad.
5. Disconnect the connectors from the front passenger airbag assembly.
6. Disconnect the connector from the front seat outer belt assembly LH.
7. Disconnect the connector from the front seat outer belt assembly RH.
   HINT:
   Skip the following steps if side airbags and curtain shield airbags are not fitted.
8. Disconnect the connector from the front seat side airbag assembly LH.
9. Disconnect the connector from the front seat side airbag assembly RH.
10. Disconnect the connector from the curtain shield airbag assembly LH.
11. Disconnect the connector from the curtain shield airbag assembly RH.

1	CHECK CONNECTORS (SIDE AIRBAG SENSOR LH - REAR AIRBAG SENSOR LH)

(a) Turn the ignition switch off.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the floor wire No.2 connectors from the side airbag sensor LH and the rear airbag sensor LH.

(d) Check the floor wire No.2 connectors and terminals (on the side airbag sensor LH and the rear airbag sensor LH sides) and check that the connectors are properly connected.

Result

Result	Proceed to
No problem.	A
Connectors or terminals incorrect.	B
Connectors connected improperly.	C

B	REPAIR OR REPLACE FLOOR WIRE NO.2

C	CONNECT CONNECTORS PROPERLY

A

2	CHECK SIDE AIRBAG SENSOR LH
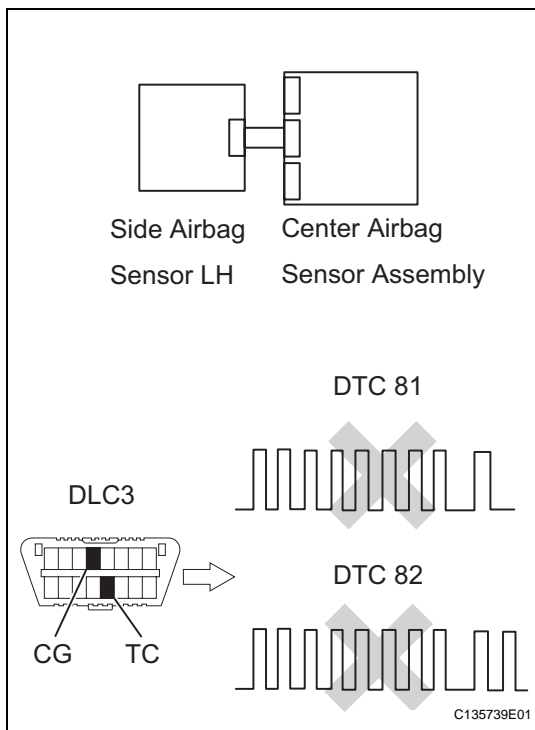
(a) Connect the connector to the center airbag sensor assembly.

(b) Interchange the side airbag sensor LH with the side airbag sensor RH and connect the connectors to them.

(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 the memory (See page RS-36).

(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-36).

Side Airbag Sensor LH   Center Airbag Sensor Assembly

DTC 81

DLC3

DTC 82

CG   TC

C135739E01

Result

Result	Proceed to
DTC B1632/81 or B1633/81 is output.	A
DTC B1637/82 or B1638/82 is output.	B
DTCs B1632/81, B1633/81, B1637/82 and B1638/82 are not output.	C

HINT:
DTCs other than DTC B1632/81, B1633/81, B1637/82 and B1638/82 may be output at this time, but they are not related to this check.
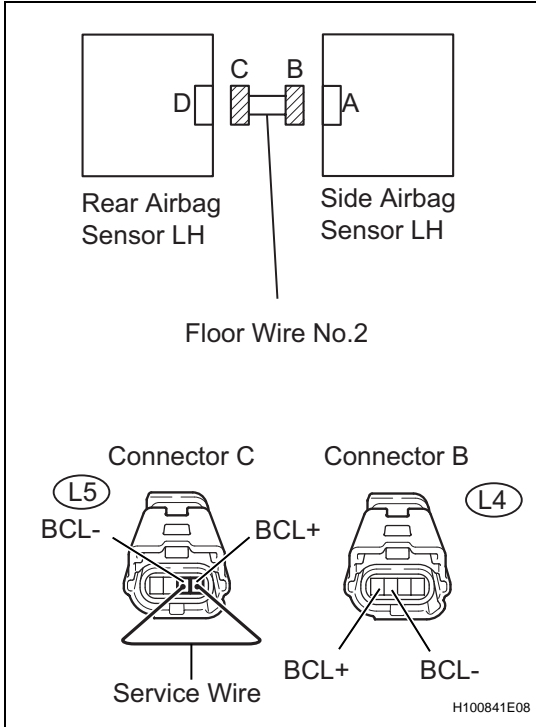
B	REPLACE SIDE AIRBAG SENSOR LH

| C | USE SIMULATION METHOD TO CHECK |

| A |

| **3** | **CHECK FLOOR WIRE NO.2 (SIDE AIRBAG SENSOR LH - REAR AIRBAG SENSOR LH)** |

Rear Airbag Sensor LH

Side Airbag Sensor LH

Floor Wire No.2

Connector C   Connector B

L5

BCL-   BCL+   L4

BCL+   BCL-

Service Wire

H100841E08

(a) Turn the ignition switch off.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check for open in the circuit.
 (1) Using a service wire, connect L5-1 (BCL-) and L5-2 (BCL+) of connector C.
  NOTICE:
  Do not forcibly insert the service wire into the terminals of the connector when connecting.
  (2) Measure the resistance.
  Standard resistance

Tester Connection	Condition	Specified Condition
L4-1 (BCL+) - L4-2 (BCL-)	Always	Below 1Ω

RS

Floor wire No.2

Rear Airbag Sensor LH

Side Airbag Sensor LH

Connector B

L4

BCL+   BCL-

H100842E10
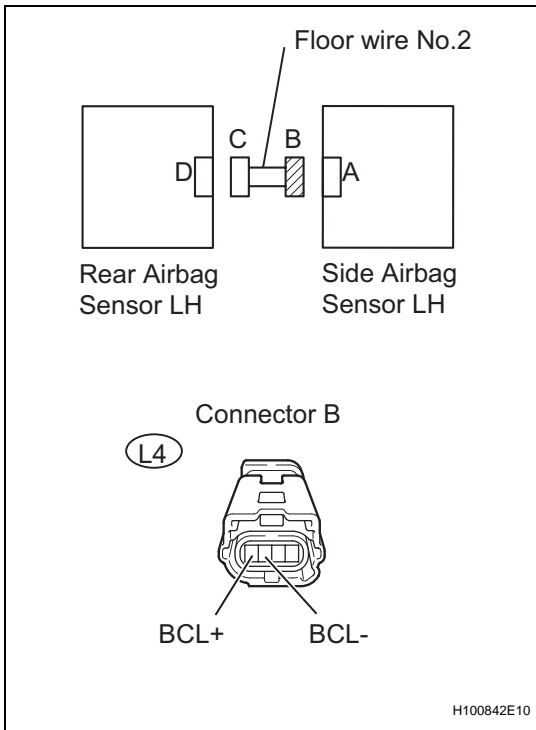
(d) Check for short in the circuit.
  (1) Disconnect the service wire from connector C.
  (2) Measure the resistance.
  Standard resistance

Tester Connection	Condition	Specified Condition
L4-1 (BCL+) - L4-2 (BCL-)	Always	1 MΩ or higher

(e) Check for short to ground in the circuit.
  (1) Measure the resistance.
  Standard resistance

Tester Connection	Condition	Specified Condition
L4-1 (BCL+) - Body ground	Always	1 MΩ or higher
L4-2 (BCL-) - Body ground	Always	1 MΩ or higher

(f) Check for short to B+ in the circuit.
  (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
  (2) Turn the ignition switch to the on position.
  (3) Measure the voltage.
  Standard voltage

Tester Connection	Condition	Specified Condition
L4-1 (BCL+) - Body ground	Ignition switch on	Below 1 V

| Tester Connection	Condition	Specified Condition
L4-2 (BCL-) - Body ground	Ignition switch on	Below 1 V

(4) Turn the ignition switch off.
(5) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

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

OK

4	**CHECK REAR AIRBAG SENSOR LH**

Rear Airbag Sensor LH

Side Airbag Sensor LH

DTC 81

DLC3

DTC 82

CG   TC

C135743E01
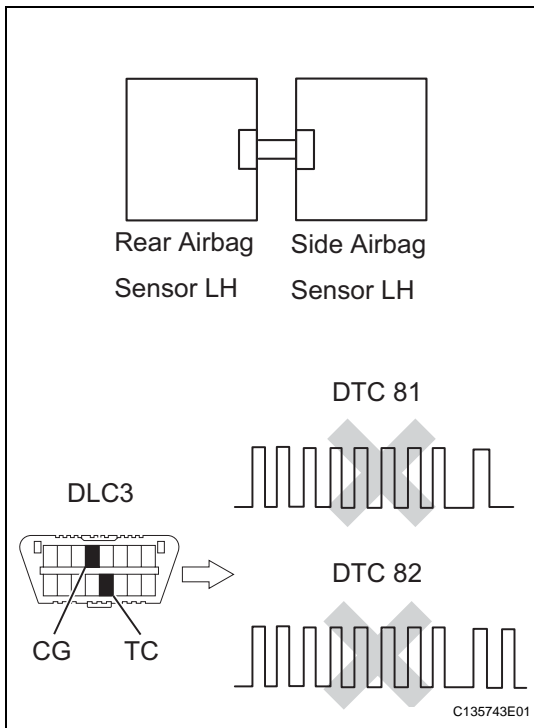
(a) Connect the connector to the side airbag sensor LH.
(b) Interchange the rear airbag sensor LH with the rear airbag sensor RH and connect the connectors to them.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the on position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in the memory (See page RS-36).
(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-36).

Result

Result	Proceed to
DTC B1632/81, B1633/81, B1637/82 and B1638/82 are not output.	A
DTC B1632/81 or B1633/81 is output.	B
DTC B1637/82 or B1638/82 is output.	C

HINT:
DTCs other than DTC B1632/81, B1633/81, B1637/82 and B1638/82 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 LH**

A

USE SIMULATION METHOD TO CHECK