

DTC	B1140/32	Side and Curtain Shield Airbag Sensor Assembly RH Malfunction
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CIRCUIT DESCRIPTION

The side and curtain shield airbag sensor assembly RH consists of the safing sensor, diagnosis circuit and lateral deceleration sensor, etc.

It receives signals from the lateral deceleration sensor, judges whether or not the SRS must be activated, and detects diagnosis system malfunction.

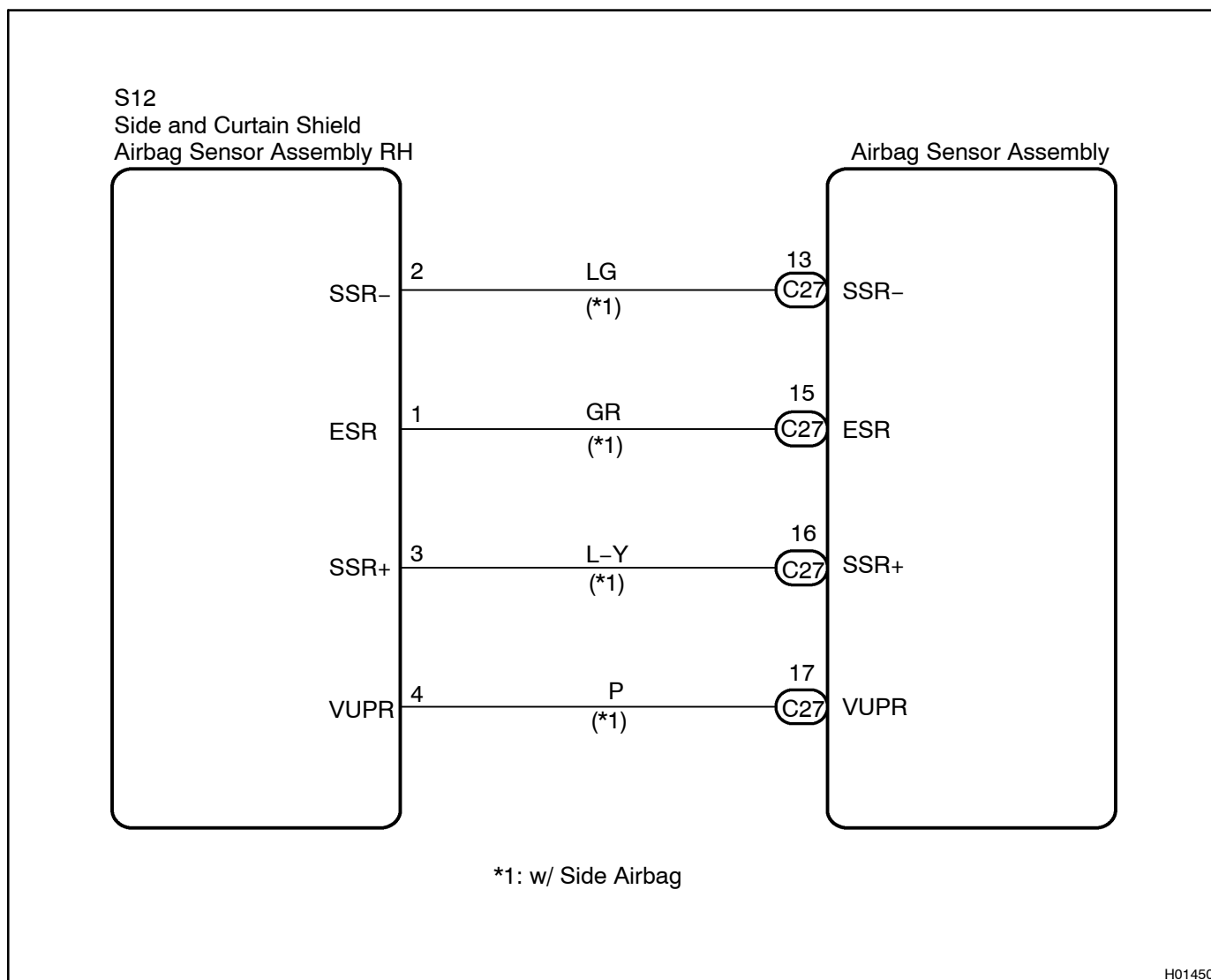
DTC B1140/32 is recorded when occurrence of a malfunction in the side and curtain shield airbag sensor assembly RH is detected.

DTC No.	DTC Detecting Condition	Trouble Area
B1140/32	• Side and curtain shield airbag sensor assembly RH malfunction	• Side and curtain shield airbag sensor assembly RH • Floor No. 2 wire • Airbag sensor assembly

HINT:

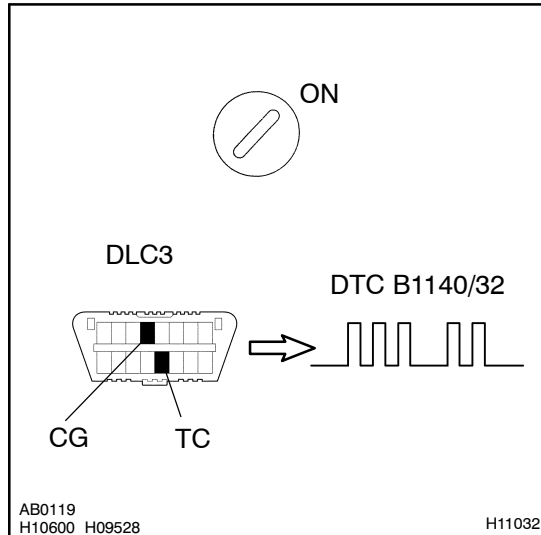
DTC B1140/32 is indicated only for the vehicle equipped with the side airbag.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Is DTC B1140/32 output?

**CHECK:**

- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Clear the DTC stored in memory (See page [DI-699](#)).
- Turn the ignition switch to LOCK, and wait at least for 10 seconds.
- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Check the DTC (See page [DI-699](#)).

OK:

DTC B1140/32 is output.

HINT:

Codes other than code B1140/32 may be output at this time, but they are not relevant to this check.

NO

The malfunctioning part can now be considered normal. To make sure of this, use the simulation method to check.

YES

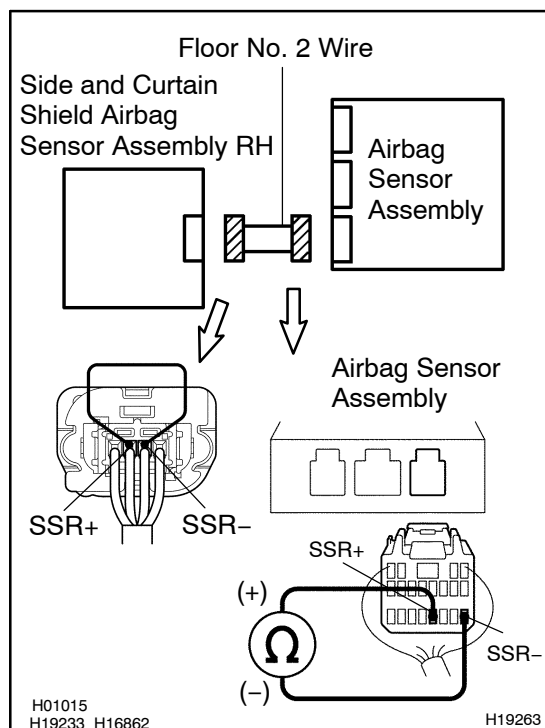
2 Is connector of side and curtain shield airbag sensor assembly RH properly connected?

NO

Connect connector.

YES

3 Prepare for inspection (See step 1 on [DI-930](#)).

4 Check floor No. 2 wire.**PREPARATION:**

Using a service wire, connect SSR+ and SSR- of the floor No. 2 wire connector on the side and curtain shield airbag sensor assembly RH side.

CHECK:

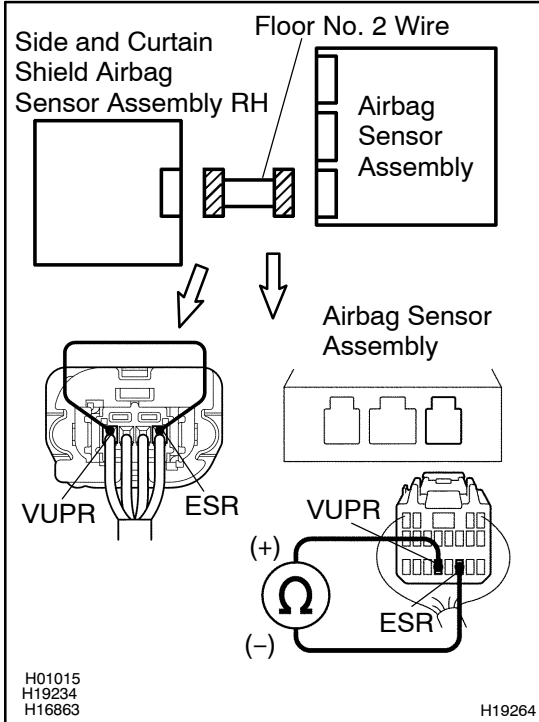
Measure the resistance between SSR+ and SSR- of the floor No. 2 wire connector on the airbag sensor assembly side.

OK:

Resistance: Below 1 Ω

NG**Replace floor No. 2 wire.****OK**

5 Check floor No. 2 wire.



PREPARATION:

Using a service wire, connect VUPR and ESR of the floor No. 2 wire connector on the side and curtain shield airbag sensor assembly RH side.

CHECK:

Measure the resistance between VUPR and ESR of the floor No. 2 wire connector on the airbag sensor assembly side.

OK:

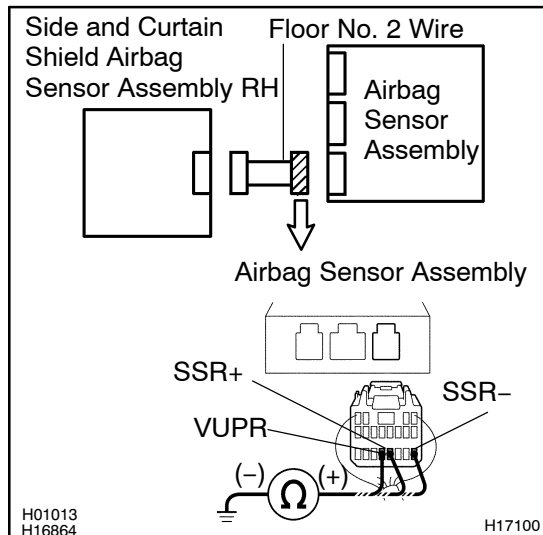
Resistance: Below 1 Ω

NG

Replace floor No. 2 wire.

OK

6 Check floor No. 2 wire (to ground).

**CHECK:**

Measure the resistance between the body ground and each of VUPR, SSR+ and SSR- of the floor No. 2 wire connector on the airbag sensor assembly side.

OK:

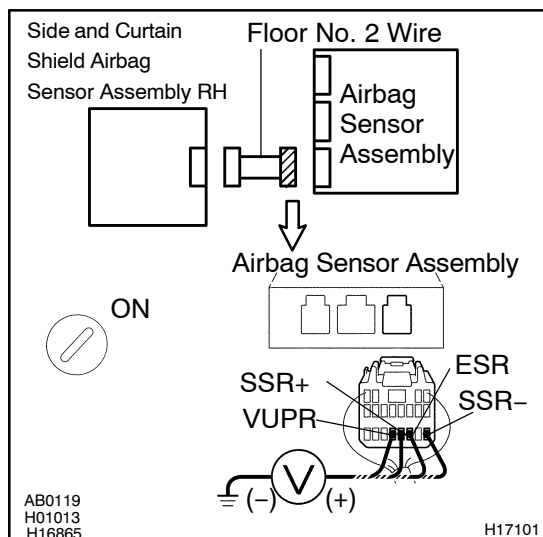
Resistance: 1 MΩ or Higher

NG

Replace floor No. 2 wire.

OK

7 Check floor No. 2 wire (to B+).

**PREPARATION:**

Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:

- Turn the ignition switch to ON.
- Measure the voltage between the body ground and each of VUPR, SSR+, SSR- and ESR of the floor No. 2 wire connector on the airbag sensor assembly side.

OK:

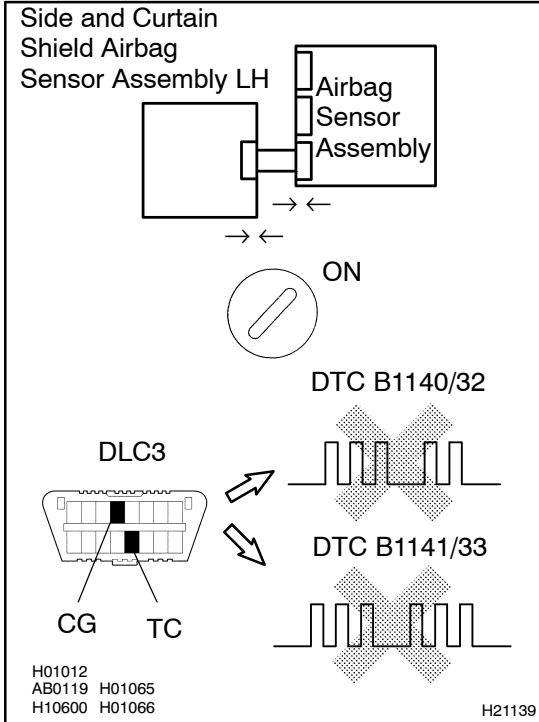
Voltage: Below 1 V

NG

Replace floor No. 2 wire.

OK

8 Check airbag sensor assembly.



PREPARATION:

- Turn the ignition switch to LOCK.
- Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
- Connect the connector to the airbag sensor assembly.
- Change the side and curtain shield airbag sensor assembly LH position with RH position.
- Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:

- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Clear the DTC stored in memory (See page [DI-699](#)).
- Turn the ignition switch to LOCK, and wait at least for 10 seconds.
- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Check the DTC (See page [DI-699](#)).

OK:

Neither DTC B1140/32 nor B1141/33 are not output.

HINT:

Codes other than code B1140/32 or B1141/33 may be output at this time, but they are not relevant to this check.

NG

Replace airbag sensor assembly (DTC B1140/32 is output).

NG

Replace side and curtain shield airbag sensor assembly RH (DTC B1141/33 is output).

OK

From the results of the above inspection, the malfunctioning part can now be considered normal. To make sure of this, use the simulation method to check.