DIATJ–01

DTC	B1141/33	Side and Curtain Shield Airbag Sensor Assembly LH Malfunction

CIRCUIT DESCRIPTION

The side and curtain shield airbag sensor assembly LH 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.
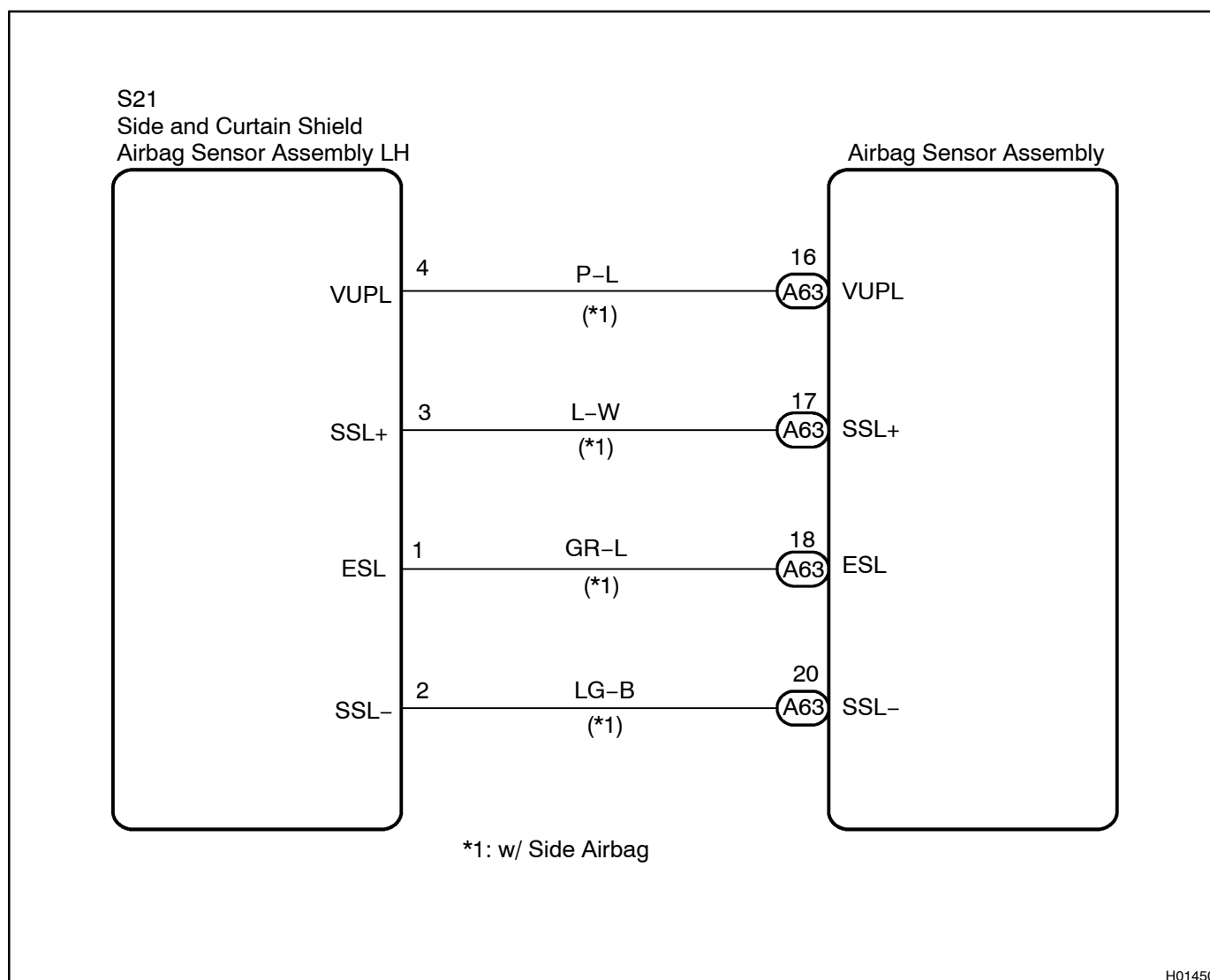
DTC B1141/33 is recorded when occurrence of a malfunction in the side and curtain shield airbag sensor assembly LH is detected.

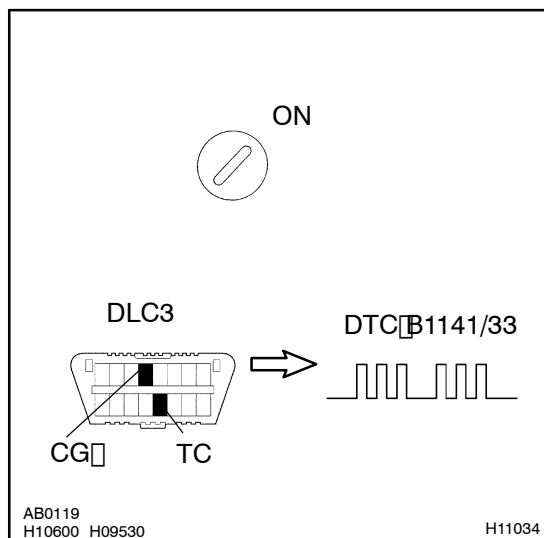| DTC No.	DTC Detecting Condition	Trouble Area
B1141/33	• Side and curtain shield airbag sensor assembly LH malfunction	• Side and curtain shield airbag sensor assembly LH • Floor No. 1 wire • Airbag sensor assembly

HINT:

DTC B1141/33 is indicated only for the vehicle equipped with the side airbag.

WIRING DIAGRAM

S21
Side and Curtain Shield
Airbag Sensor Assembly LH

Airbag Sensor Assembly

*1: w/ Side Airbag

H01450

INSPECTION PROCEDURE

1	Is DTC B1141/33 output?

CHECK:
(a)   Turn the ignition switch to ON, and wait at least for 10 seconds.
(b)   Clear the DTC stored in memory (See page DI–432).
(c)   Turn the ignition switch to LOCK, and wait at least for 10 seconds.
(d)   Turn the ignition switch to ON, and wait at least for 10 seconds.
(e)   Check the DTC (See page DI–432).
OK:
    DTC B1141/33 is output.
HINT:
Codes other than code B1141/33 may be output at this time, but they are not relevant to this check.

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

NO ▽

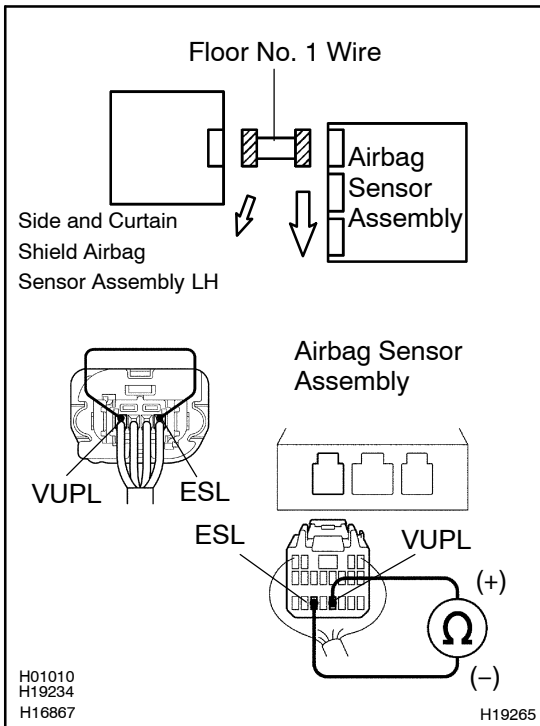| 2	Is connector of side and curtain shield airbag sensor assembly LH properly connected?

NO	Connect connector.

YES ▽

3	Prepare for inspection (See step 1 on page DI–764).

▽

4	Check floor No. 1 wire.

Floor No. 1 Wire

Airbag Sensor Assembly

Side and Curtain Shield Airbag Sensor Assembly LH

Airbag Sensor Assembly

VUPL   ESL

ESL   VUPL

(+)

Ω

(−)

H01010
H19234
H16867

H19265

PREPARATION:
Using a service wire, connect VUPL and ESL of the floor No. 1 wire connector on the side and curtain shield airbag sensor assembly LH side.

CHECK:
Measure the resistance between VUPL and ESL of the floor No. 1 wire connector on the airbag sensor assembly side.

OK:

Resistance: Below 1 Ω

NG	Repair or replace floor No. 1 wire.

OK

5	Check floor No. 1 wire.

Side and Curtain Shield Airbag Sensor Assembly LH
Floor No. 1 Wire
Airbag Sensor Assembly

Airbag Sensor Assembly

SSL+   SSL–

SSL+

SSL–

(+)

Ω

(–)

H01010
H19233
H16866

H19266

PREPARATION:
Using a service wire, connect SSL+ and SSL– of the floor No. 1 wire connector on the side and curtain shield airbag sensor assembly LH side.
CHECK:
Measure the resistance between SSL+ and SSL– of the floor No. 1 wire connector on the airbag sensor assembly side.
OK:
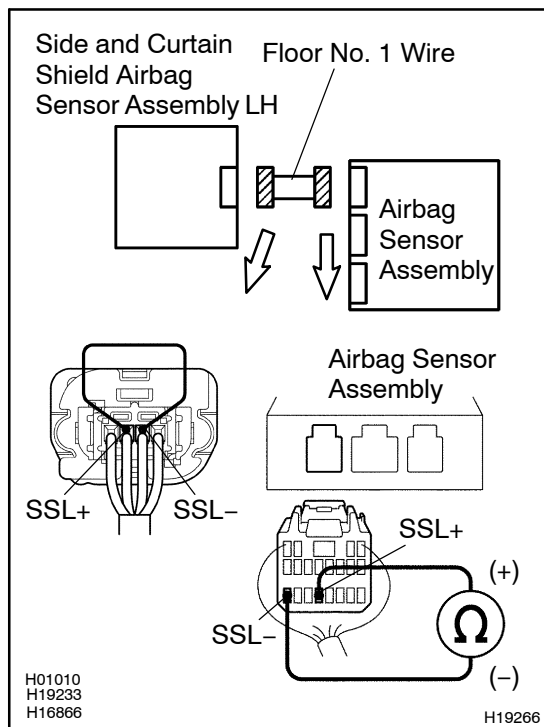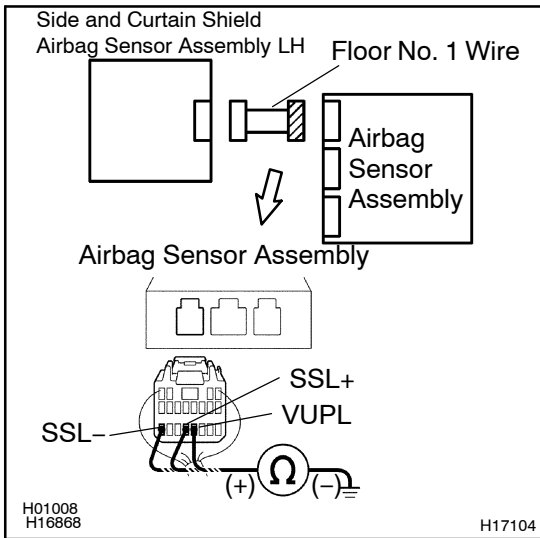
Resistance: Below 1 Ω

NG	Repair or replace floor No. 1 wire.

OK

6	Check floor No. 1 wire (to ground).

CHECK:
Measure the resistance between the body ground and each of VUPL, SSL+ and SSL− of the floor No. 1 wire connector on the airbag sensor assembly side.
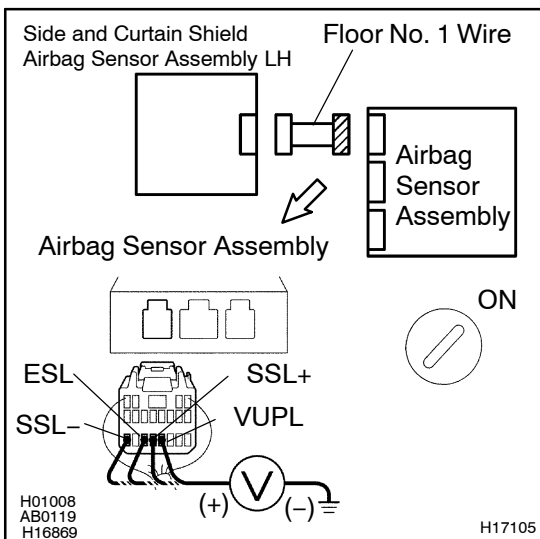
OK:

Resistance: 10 kΩ or Higher

Side and Curtain Shield
Airbag Sensor Assembly LH   Floor No. 1 Wire

Airbag
Sensor
Assembly

Airbag Sensor Assembly

SSL+
VUPL
SSL−

(+) Ω (−)

H01008
H16868   H17104

NG	Repair or replace floor No. 1 wire.

OK

7	Check floor No. 1 wire (to B+).

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

CHECK:
(a)   Turn the ignition switch to ON.
(b)   Measure the voltage between the body ground and each of VUPL, SSL+, SSL− and ESL of the floor No. 1 wire connector on the airbag sensor assembly side.
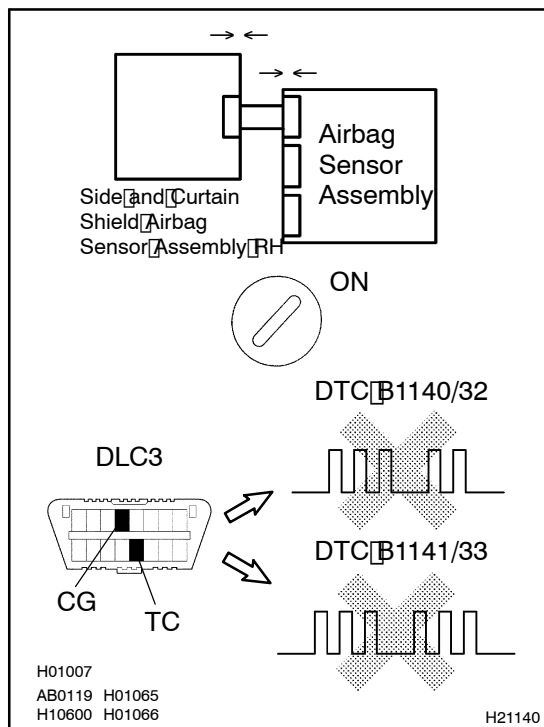
OK:

Voltage: Below 1 V

Side and Curtain Shield
Airbag Sensor Assembly LH   Floor No. 1 Wire

Airbag
Sensor
Assembly

Airbag Sensor Assembly

ON

ESL   SSL+
SSL−   VUPL

(+) V (−)

H01008
AB0119
H16869   H17105

NG	Repair or replace floor No. 1 wire.

OK

8	Check airbag sensor assembly.

PREPARATION:
(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (−) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the airbag sensor assembly.
(d) Change the side and curtain shield airbag sensor assembly RH position with LH position.
(e) Connect the negative (−) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:
(a) Turn the ignition switch to ON, and wait at least for 10 seconds.
(b) Clear the DTC stored in memory (See page DI–432).
(c) Turn the ignition switch to LOCK, and wait at least for 10 seconds.
(d) Turn the ignition switch to ON, and wait at least for 10 seconds.
(e) Check the DTC (See page DI–432).

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

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

NG	**Replace airbag sensor assembly (DTC B1141/33 is output).**

NG	**Replace side and curtain shield airbag sensor assembly LH (DTC B1140/32 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.