DI16C−06

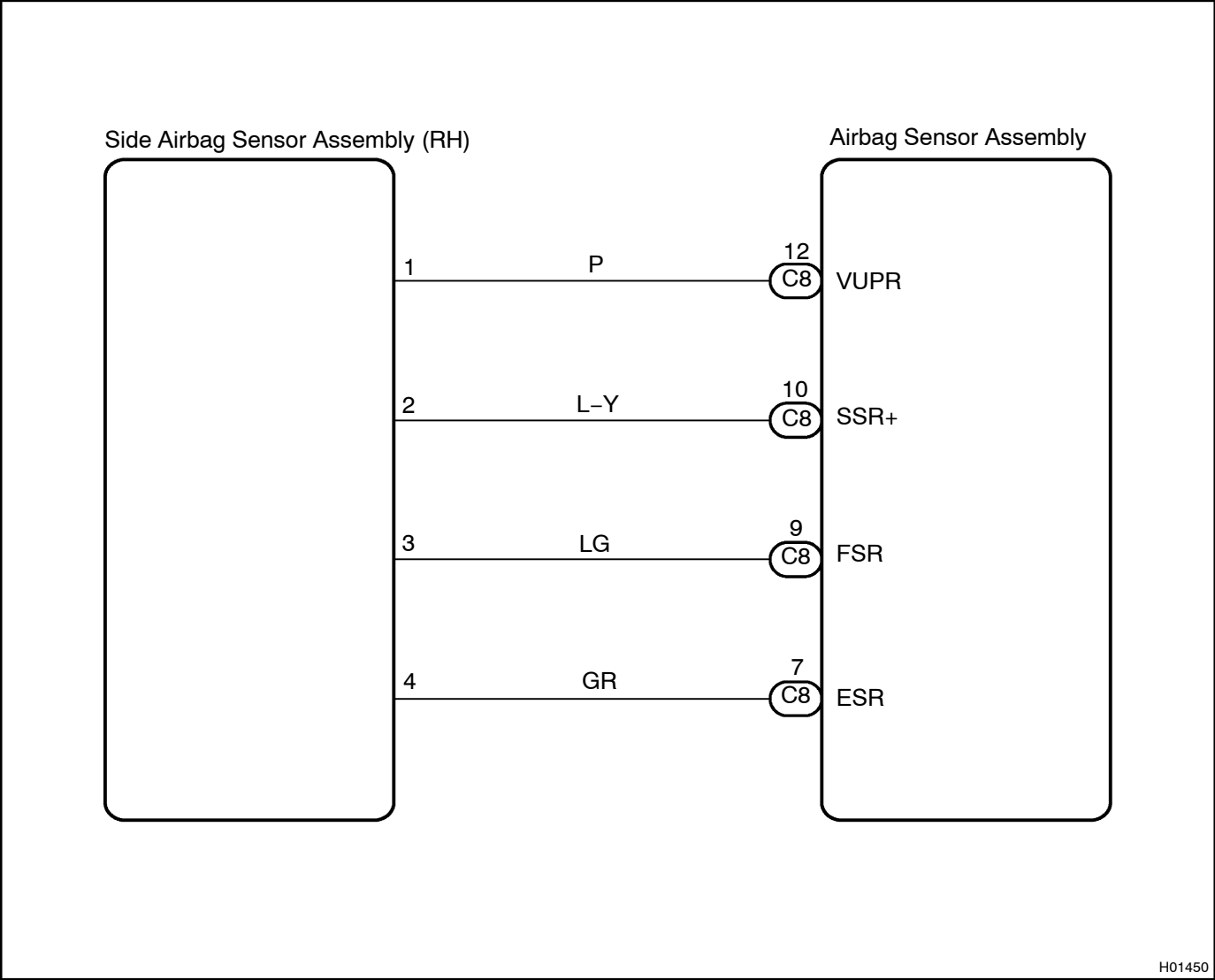| DTC	B1140/32	Side Airbag Sensor Assembly (RH) Malfunction

CIRCUIT DESCRIPTION

The side airbag sensor assembly (RH) consists of the airbag 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 diagnosis system malfunction.

DTC B1140/32 is recorded when occurrence of malfunction in the side airbag sensor assembly (RH) is detected.
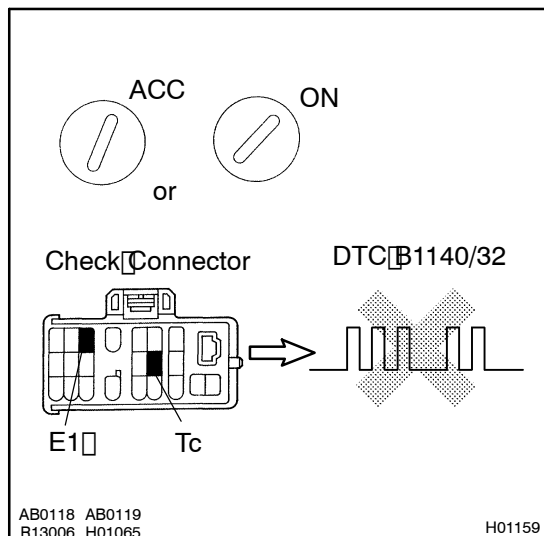
DTC No.	DTC Detecting Condition	Trouble Area
B1140/32	• Side airbag sensor assembly (RH) malfunction	• Side airbag sensor assembly (RH) • Wire harness

WIRING DIAGRAM

INSPECTION PROCEDURE

1	Is DTC B1140/32 out put?

ACC ON or

Check Connector   DTC B1140/32

E1   Tc

AB0118 AB0119
R13006 H01065   H01159

CHECK:
(a) Turn ignition switch to ACC or ON, and wait at least for 20 seconds.
(b) Clear DTC stored in memory.
(See page DI−386)
(c) Turn ignition switch to LOCK, and wait at least for 20 seconds.
(d) Turn ignition switch to ACC or ON, and wait at least for 20 seconds.
(e) Check DTC.
(See page DI−386)

OK:
DTC B1140/32 is not output.

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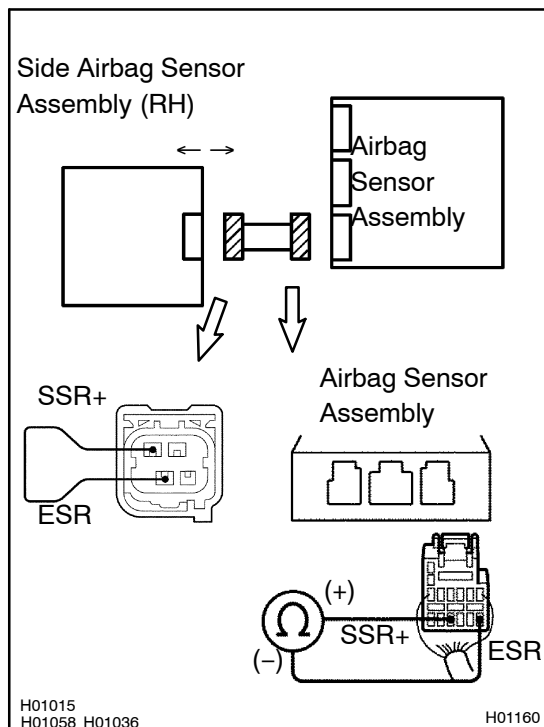Codes other than DTC B1140/32 may be output at this time, but they are not relevant to this check.

OK	Go to step 8.

NG

2	Is connector of side airbag sensor assembly (RH) properly connected?

3	Prepare for inspection. (See step 1 on DI−503).

4	Check wire harness.

Side Airbag Sensor
Assembly (RH)

← →

Airbag
Sensor
Assembly

SSR+

ESR

Airbag Sensor
Assembly

(+)
SSR+
(−)   ESR

H01015
H01058 H01036   H01160

PREPARATION:
(a) Disconnect side airbag sensor assembly (RH).
(b) Using a service wire, connect SSR+ and ESR of the connector (on the side airbag sensor assembly side) between the side airbag sensor assembly (RH) and airbag sensor assembly.

CHECK:
For the connector (on the airbag sensor assembly side) between the side airbag sensor assembly (RH) and airbag sensor assembly, measure the resistance between SSR+ and ESR.
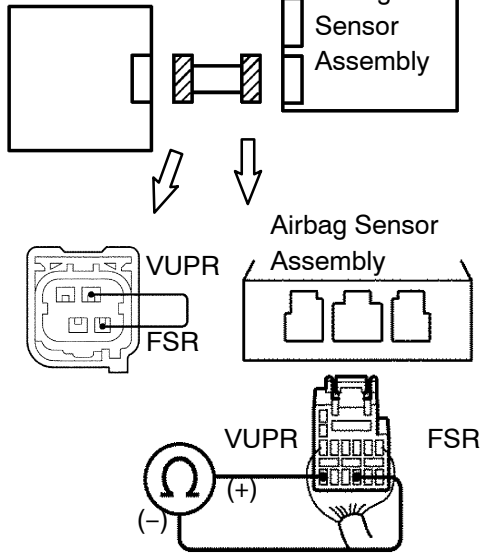
OK:

 Resistance: Below 1 Ω

NG ⟩ **Repair or replace harness or connector between the side airbag sensor assembly (RH) and airbag sensor assembly.**

OK

5	Check wire harness.

Side Airbag Sensor Assembly (RH)

Airbag Sensor Assembly

Airbag Sensor Assembly

VUPR
FSR

VUPR   FSR

(+)
(−)

H01015
H01059
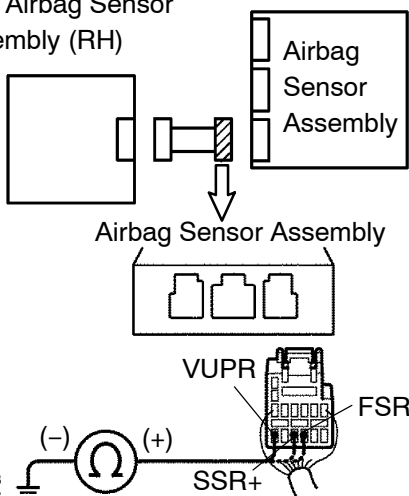H01037   H01161

PREPARATION:
Using a service wire, connect VUPR and FSR of the connector (on the side airbag sensor assembly side) between the side airbag sensor assembly (RH) and airbag sensor assembly.
CHECK:
For the connector (on the airbag sensor assembly side) between the side airbag sensor assembly (RH) and airbag sensor assembly, measure the resistance between VUPR and FSR.
OK:

Resistance: Below 1 Ω

NG ⟩ **Repair or replace harness or connector between the side airbag sensor assembly (RH) and airbag sensor assembly.**

OK

6	Check wire harness (to ground).

Side Airbag Sensor Assembly (RH)

Airbag Sensor Assembly

Airbag Sensor Assembly

VUPR
FSR

(−)   (+)
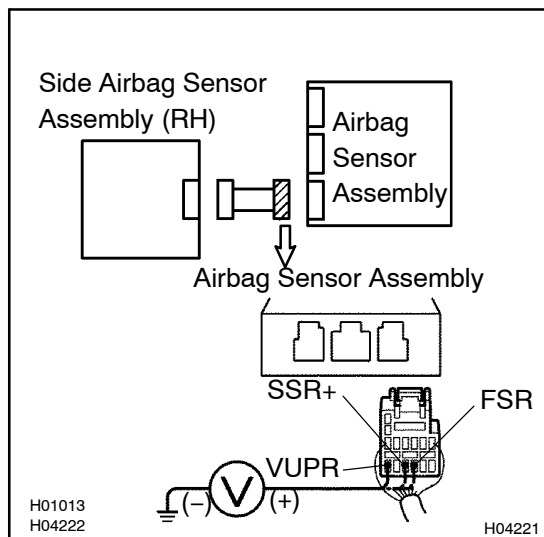SSR+

H01013
H01038   H01162

CHECK:
For the connector (on the airbag sensor assembly side) between the side airbag sensor assembly (RH) and airbag sensor assembly, measure the resistance between the body ground and each of SSR+, VUPR and FSR.
OK:

Resistance: 10 kΩ or Higher

NG ⟩ **Repair or replace harness or connector between the side airbag sensor assembly (RH) and airbag sensor assembly.**

OK

7	Check wire harness (to B+).

CHECK:
For the connector (on the airbag sensor assembly side) between the side airbag sensor assembly (RH) and airbag sensor assembly, measure the voltage between the body ground and each of SSR+, VUPR and FSR.
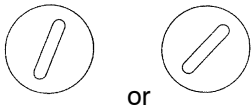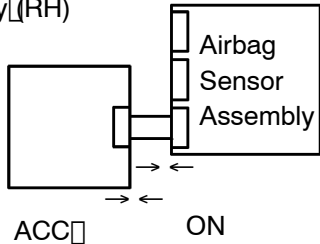
OK:

    Voltage: Below 1 V

Side Airbag Sensor Assembly (RH)

Airbag Sensor Assembly

Airbag Sensor Assembly

SSR+ FSR

VUPR

(−) V (+)

H01013
H04222

H04221

NG	Repair or replace harness or connector between the side airbag sensor assembly (RH) and airbag sensor assembly.

OK

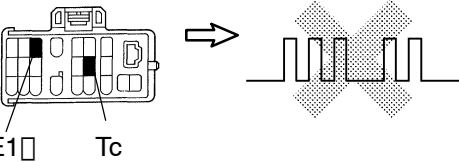| 8	Is DTC B1140/32 out put again?

Side Airbag Sensor Assembly (RH)

Airbag Sensor Assembly

ACC   ON

or

Check Connector   DTC B1140/32

E1   Tc

H01012
AB0118 AB0119
R13006 H01065   H01164

PREPARATION:
(a)   Connect the side airbag sensor assembly (RH).
(b)   Connect the connector to the airbag sensor assembly.
(c)   Connect negative (−) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:
(a)   Turn ignition switch to ACC or ON, and wait at least for 20 seconds.
(b)   Clear DTC stored in memory.
       (See step 5 on page DI–386)
(c)   Turn ignition switch to LOCK, and wait at least for 20 seconds.
(d)   Turn ignition switch to ACC or ON, and wait at least for 20 seconds.
(e)   Check DTC.
       (See page DI–386)

OK:
    DTC B1140/32 is not output.

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

NG	**Replace side airbag sensor assembly (RH).**

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. If the malfunctioning part can not be detected by the simulation method, replace all SRS components including the wire harness.