| DTC | B1140/32 | SIDE AIRBAG SENSOR ASSY (RH) MALFUNCTION |
|---|---|---|

## CIRCUIT DESCRIPTION

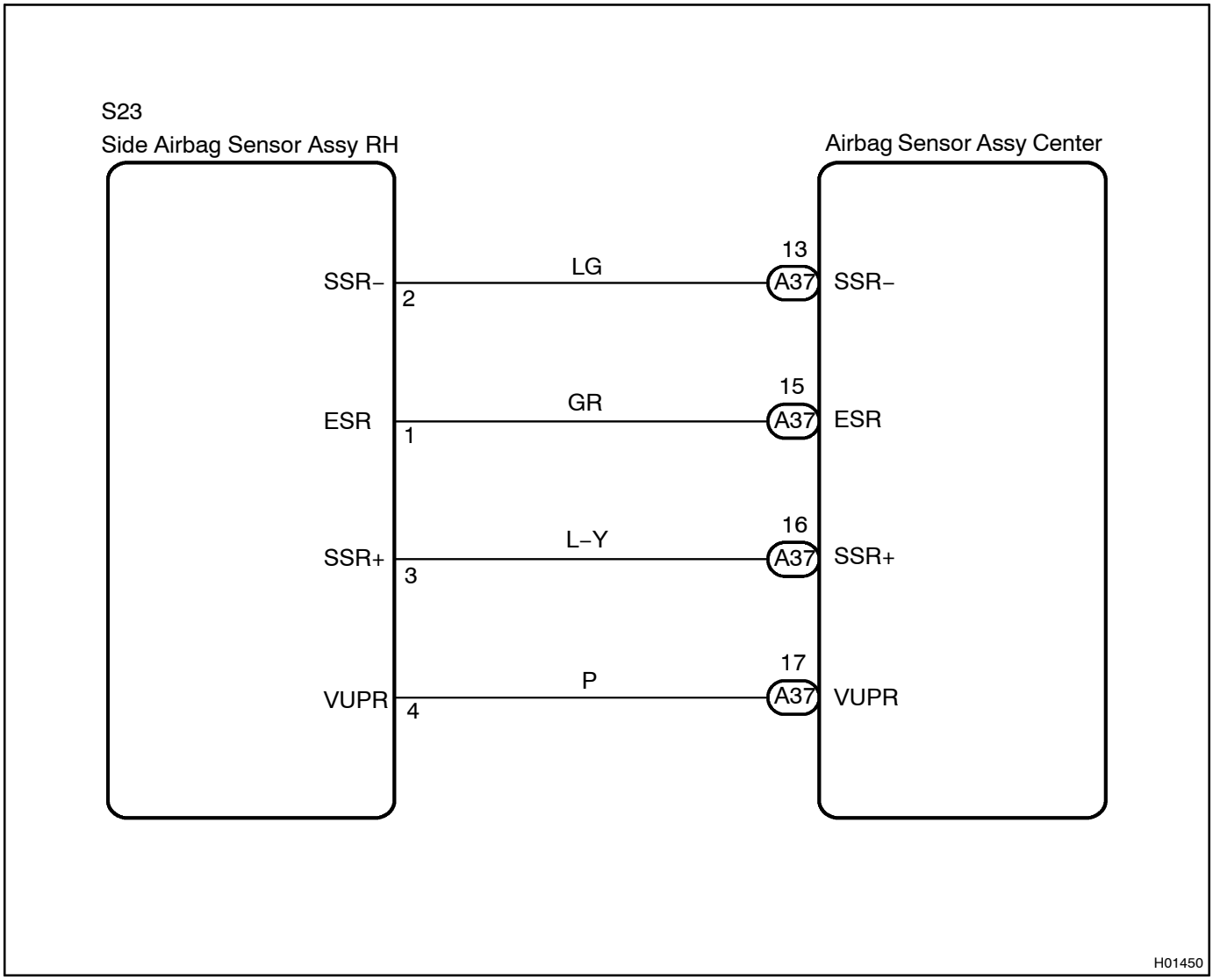
The side airbag sensor assy RH consists of the safing sensor, diagnosis circuit and lateral deceleration sensor, etc.

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 airbag sensor assy RH is detected.

| DTC No. | DTC Detecting Condition | Trouble Area |
|---|---|---|
| B1140/32 | • Short in side airbag sensor RH circuit (to ground)<br>• Short in side airbag sensor RH circuit (to B+)<br>• Open in side airbag sensor RH circuit<br>• Side airbag sensor assy RH malfunction<br>• Airbag sensor assy center malfunction | • Side airbag sensor assy RH<br>• Airbag sensor assy center<br>• Floor wire |

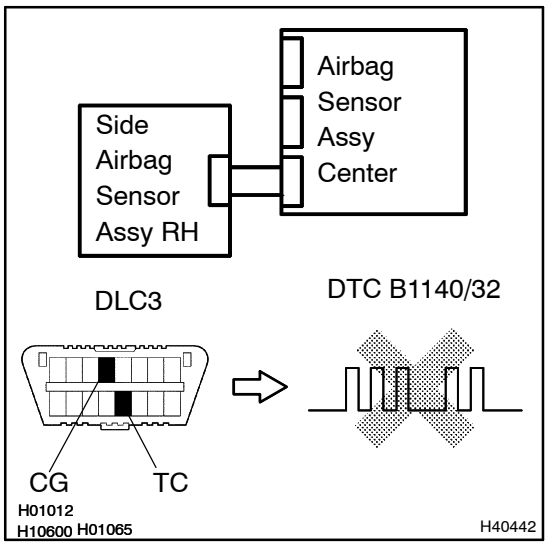
## WIRING DIAGRAM



# INSPECTION PROCEDURE

## 1 CHECK SIDE AIR BAG SENSOR ASSY RH

SST 09843–18040




(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON and wait at least for 10 seconds.
(d) Clear the DTC stored in memory (See page 05–1122).
(e) Turn the ignition switch to LOCK, and wait at least for 10 seconds.
(f) Turn the ignition switch to ON, and wait at least for 10 seconds.
(g) Check the DTC (See page 05–1122).
**OK:**
**DTC B1140/32 is not output.**

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

**OK** → **USE SIMULATION METHOD TO CHECK**

**NG**

## 2 CHECK AIRBAG SENSOR ASSY CENTER CONNECTOR

(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Check that the connector is properly connected to the airbag sensor assy center.
**OK:**
**The connectors are connected.**

**NG** → **CONNECT CONNECTORS**

**OK**

## 3 CHECK SIDE AIRBAG SENSOR ASSY CONNECTOR

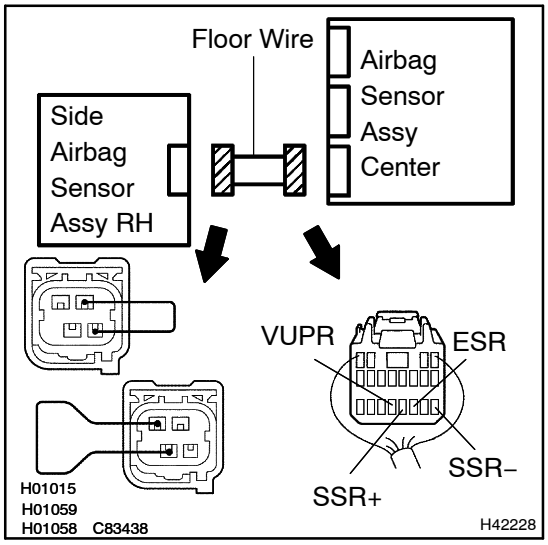
(a) Check that the connector is properly connected to the side airbag sensor assy RH.
**OK:**
**The connector is connected.**

**NG** → **CONNECT CONNECTORS**

**OK**

## 4 CHECK FLOOR WIRE(OPEN)

SST 09843–18040




(a) Disconnect the connectors between the airbag sensor assy center and the side airbag sensor assy RH.

(b) Using a service wire, connect the terminals of the floor wire connector, between VUPR and SSR–, and between ESR and SSR+.

(c) Measure the resistance between VUPR and SSR–, and between ESR and SSR+ of the floor wire connector on the airbag sensor assy center side.

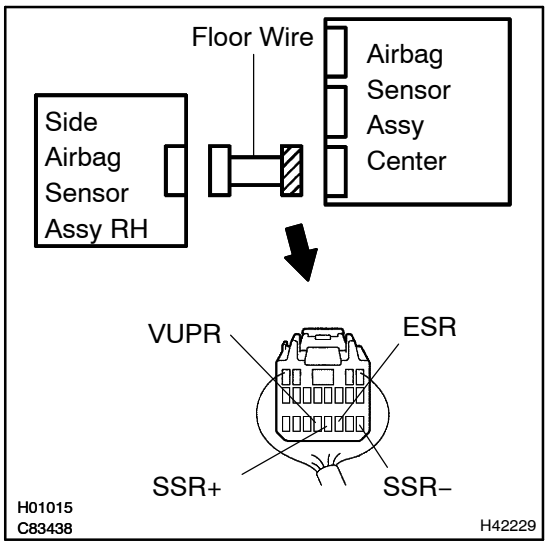
**OK:**

**Resistance: Below 1 Ω**

**NG** → **REPAIR OR REPLACE FLOOR WIRE**

**OK**

## 5 CHECK FLOOR WIRE(TO GROUND)




(a) Disconnect the connection between VUPR and SSR–, and between ESR and SSR+.

(b) Measure the resistance between the body ground and each of terminal VUPR, SSR+ and SSR– of the floor wire connector on the airbag sensor assy center side.

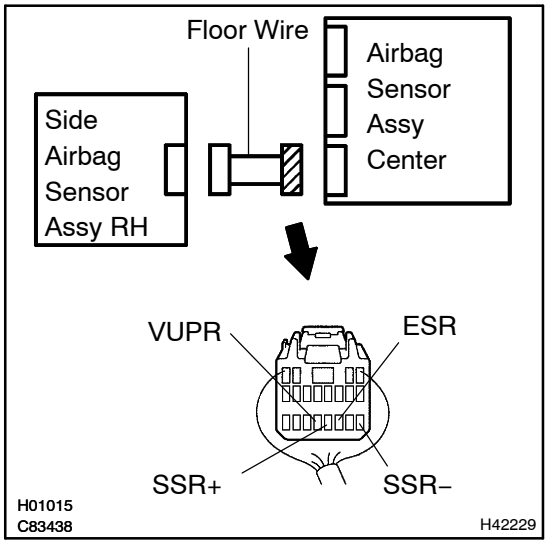
**OK:**

**Resistance: 1 MΩ or Higher**

**NG** → **REPAIR OR REPLACE FLOOR WIRE**

**OK**

| 6 | CHECK FLOOR WIRE |
|---|---|

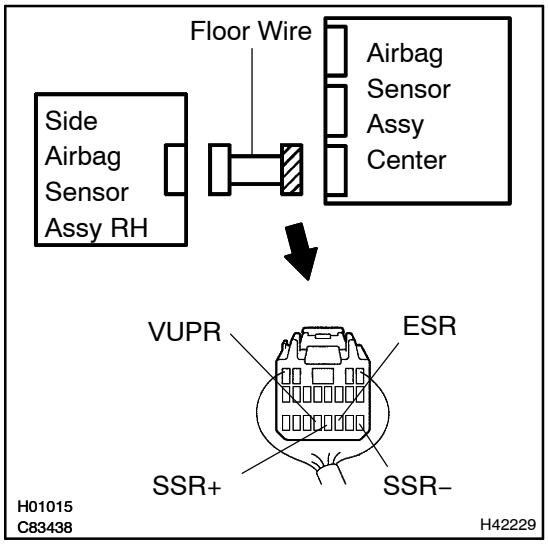



(a) Measure the resistance between VUPR and ESR of the floor wire connector on the airbag sensor assy center side.
**OK:**
**Resistance: 1MΩ or Higher**

**NG** → **REPAIR OR REPLACE FLOOR WIRE**

**OK**

| 7 | CHECK FLOOR WIRE(TO B+) |
|---|---|



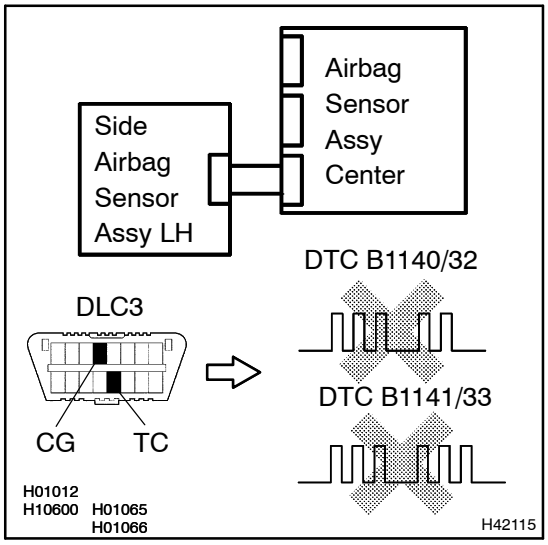

(a) Connect the negative (–) terminal cable to the battery.
(b) Turn the ignition switch to ON.
(c) Measure the voltage between the body ground and each of terminal VUPR, SSR+ and SSR– of the floor wire connector on the airbag sensor assy center side.
**OK:**
**Voltage: Below 1 V**

**NG** → **REPAIR OR REPLACE FLOOR WIRE**

**OK**

## 8 CHECK SIDE AIR BAG SENSOR ASSY RH

SST 09843–18040




(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 airbag sensor assy center connector.
(d) Interchange the side airbag sensor assy RH and LH and connect the connectors to them.
(e) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 10 seconds.
(g) Clear the DTC stored in memory (See page 05–1122).
(h) Turn the ignition switch to LOCK, and wait at least for 10 seconds.
(i) Turn the ignition switch to ON, and wait at least for 10 seconds.
(j) Check the DTC (See page 05–1122).

**OK:**
**(A): DTC B1140/32 is not output.**
**(B): DTC B1141/33 is not output.**

**NG(A) → REPLACE AIR BAG SENSOR ASSY CENTER**

**NG(B) → REPLACE SIDE AIR BAG SENSOR ASSY RH**

**OK**

## 9 USE SIMULATION METHOD TO CHECK

**NG → Go to step 1**

**OK**

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**