DI6ZW-03

DTC	B1140/32	Side Airbag Sensor Assembly (RH) Malfunction
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## CIRCUIT DESCRIPTION

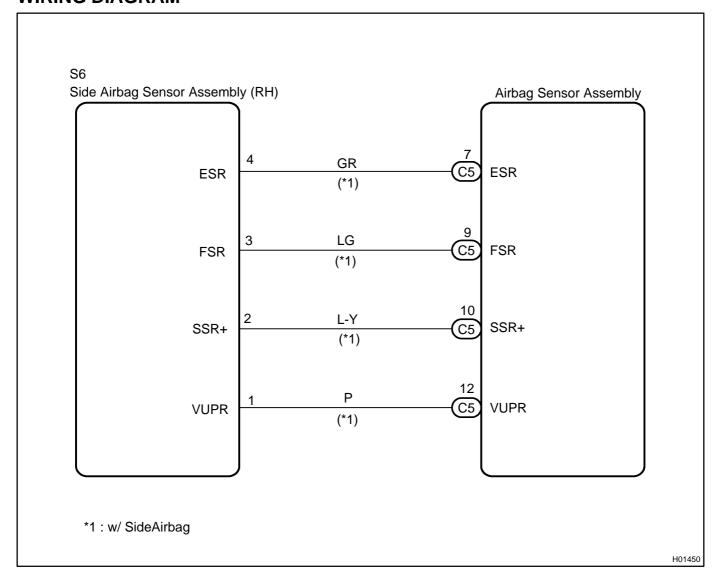
The side airbag sensor assembly (RH) consists of the safing sensor, diagnosis circuit and lateral deceleration sensor, etc.

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

DTC B1140/32 is recorded when occurrence of a 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
		Airbag sensor assembly

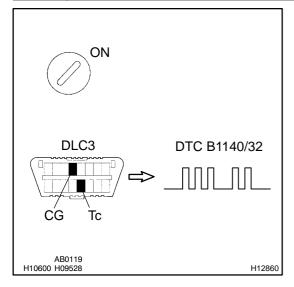
## **WIRING DIAGRAM**



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## **INSPECTION PROCEDURE**

1 Is DTC B1140/32 output?



#### CHECK:

- (a) Turn ignition switch to ON and wait at least for 20 seconds.
- (b) Clear DTC stored in memory (See step 5 on page DI-239).
- (c) Turn ignition switch to LOCK, and wait at least for 20 seconds.
- (d) Turn ignition switch to ON and wait at least for 20 seconds.
- (e) Check DTC (See page DI-239).

#### HINT:

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



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



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



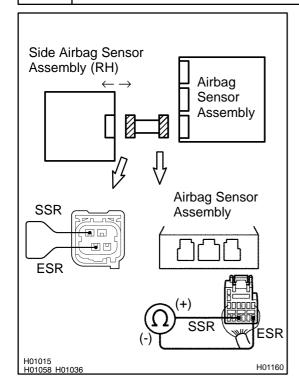
2

Prepare for inspection (See step 1 on DI-390).



3

## 4 Check wire harness.



## **PREPARATION:**

- (a) Disconnect the side airbag sensor assembly (RH) connector.
- (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 the airbag sensor assembly, measure the resistance between SSR and ESR.

## OK:

Resistance: Below 1  $\Omega$ 

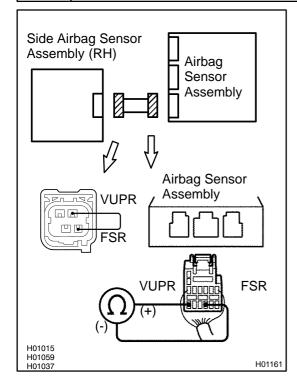


Repair or replace harness or connector between side airbag sensor assembly (RH) and airbag sensor assembly.



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## 5 Check wire harness.



## **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 the airbag sensor assembly, measure the resistance between VUPR and FSR.

## OK:

Resistance: Below 1  $\Omega$ 



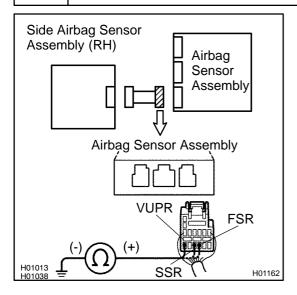
Repair or replace harness or connector between side airbag sensor assembly (RH) and airbag sensor assembly.



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## Check wire harness (to ground).



#### **CHECK:**

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

## OK:

Resistance: Below 1  $\Omega$ 

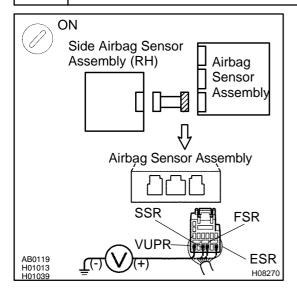


Repair or replace harness or connector between side airbag sensor assembly (RH) and airbag sensor assembly.

ОК

7

# Check wire harness (to B+).



#### **CHECK:**

- (a) Turn ignition switch to ON.
- (b) For the connector (on the airbag sensor assembly side) between the side airbag sensor assembly (RH) and the airbag sensor assembly, measure the voltage between the body ground and each of SSR, VUPR, ESR and FSR.

OK:

Voltage: 0 V

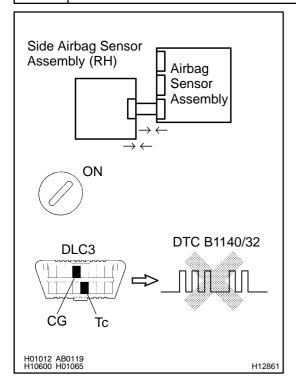


Repair or replace harness or connector between side airbag sensor assembly (RH) and airbag sensor assembly.

ОК

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## 8 Is DTC B1140/32 output again?



#### PREPARATION:

- (a) Connect the connector to 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 ON and wait at least for 20 seconds
- (b) Clear DTC stored in memory (See step 5 on page DI-239).
- (c) Turn ignition switch to LOCK, and wait at least for 20 seconds.
- (d) Turn ignition switch to ON and wait at least for 20 seconds.
- (e) Check DTC (See page DI-239).

#### 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.



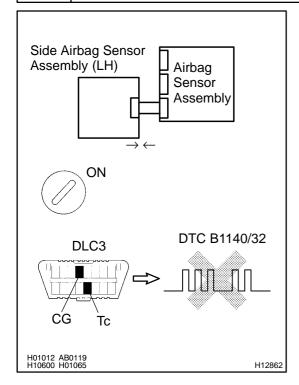


From the results of the above inspection, the malfunctioning part can now be considered normal. To make sure of this, use the simulation method to check.

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## Check airbag sensor assembly.



## **PREPARATION:**

- (a) Turn ignition switch to LOCK.
- (b) Disconnect negative (-) terminal cable from the battery, and wait at least for 90 seconds.
- (c) Disconnect the side airbag sensor (RH) from the connector and connect the side airbag sensor (LH) to the connector.
- (d) Connect negative (-) terminal cable to the battery, and wait at least for 2 seconds.

#### CHECK:

- (a) Turn ignition switch to ON and wait at least for 20 seconds.
- (b) Clear DTC stored in memory (See step 5 on page DI-239).
- (c) Turn ignition switch to LOCK, and wait at least for 20 seconds.
- (d) Turn ignition switch to ON and wait at least for 20 seconds.
- (e) Check DTC (See page DI-239).

## 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.

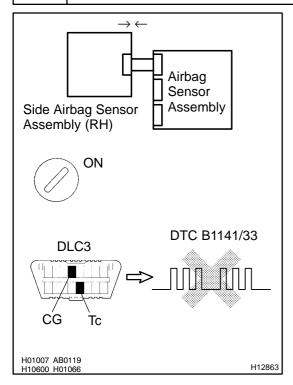
NG

Replace airbag sensor assembly.

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## 10 Check side airbag sensor assembly (RH).



#### **PREPARATION:**

- (a) Turn ignition switch to LOCK.
- (b) Disconnect negative (-) terminal cable from the battery, and wait at least for 90 seconds.
- (c) Connect the side airbag sensor (RH) to the connector that the side airbag sensor (LH) was connected to.
- (d) Connect negative (-) terminal cable to the battery, and wait at least for 2 seconds.

#### CHECK:

- (a) Turn ignition switch to ON and wait at least for 20 seconds.
- (b) Clear DTC stored in memory (See page DI-239).
- (c) Turn ignition switch to LOCK, and wait at least for 20 seconds.
- (d) Turn ignition switch to ON and wait at least for 20 seconds.
- (e) Check DTC (See page DI-239).

#### OK:

## DTC B1141/33 is not output.

## HINT:

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

NG Replace side airbag sensor assembly (RH).



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.

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