

B1037, B1039, B1041 CRASH ZONE SENS1

Description

Main "G" sensor generates signal voltage, when it detects deceleration beyond the specified level caused by vehicle frontal collision.

OPERATION

When air bag diagnosis sensor unit define the both signal voltage of the "G" sensor and the safing algorithm to be that of collision which exceeds specified level, the driving circuit switches on and feeds the electric ignitor of both driver and passenger air bags and pre-tensioner seat belt.

STRUCTURE

Integrated type of the "G" sensor element for frontal collision with output terminals for signal voltage.

INSTALLATION

Crash zone sensor is installed on the radiator core support assembly with fixed nuts.

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
B1037 B1039 B1041	CRASH ZONE SENSOR1	Crash zone sensor is malfunctioning	<ul style="list-style-type: none"> • Disconnection of wiring harness • Malfunction in crash zone sensor • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

- 1).CHECK SELF-DIAG RESULT
 - A).With CONSULT-III
 - B).Turn ignition switch ON.
 - C). Perform "AIR BAG" Self Diagnostic.

- 2).Without CONSULT-III
 - A).Turn ignition switch ON.
 - B).Check the air bag warning lamp status.
 - C).Is malfunctioning part detected?
 - YES >> Refer to SRC-36, "Diagnosis Procedure".
 - NO >> INSPECTION END

Diagnosis Procedure

- 1).CHECK HARNESS CONNECTOR
 - A).Check the connection of harness connector.
 - B).Is the inspection result normal?
 - YES >> GO TO 2.
 - NO >> Repair or replace harness connectors.

- 2).CHECK WIRING HARNESS
 - A).Check the wiring harness externals.
 - B).Is the inspection result normal?
 - YES >> GO TO 3.
 - NO >> Repair or replace wiring harness.

- 3).CHECK OCCUPANT DETECTION SYSTEM CONTROL UNIT
 - A). Replace seat cushion frame.
 - B). Perform DTC confirmation procedure..
 - C).Is DTC detected?
 - YES >> GO TO 4.
 - NO >> INSPECTION END

- 4).REPLACE AIR BAG DIAGNOSIS SENSOR UNIT
 - A). Replace air bag diagnosis sensor unit.
 - B). Perform DTC confirmation procedure..
 - C).Is DTC detected?
 - YES >> GO TO 1.
 - NO >> INSPECTION END