

B1025, B1032, B1048 OCS SENSOR

Description

Suppresses the deployment of front passenger air bag when the condition of passenger seat is empty or child and child-seat. And turns on front passenger air bag OFF indicator (Cut-off telltale) lamp when the condition of passenger seat is child-seat and child. In case of malfunction the blinking of the air bag warning lamp reports the malfunction to driver and by the on board self-diagnosis system or electro-diagnosis tester CONSULT-III can detect the cause.

OPERATION

This unit classifies occupant in passenger seat and detects electrical malfunction in Occupant Detection System and transmits malfunction information to air bag control unit.

STRUCTURE

It is integrated into the seat sensor mat and detects the occupants and Occupant Detection System control unit that classifies the occupants.

INSTALLATION

Occupant Detection System control unit is installed in the passenger seat cushion.

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
B1025 B1032 B1048	OCS SENSOR	Malfunction occurs in Occupant Detection System control unit, circuit of Occupant Detection System control unit-Air bag diagnosis sensor unit or Air bag diagnosis sensor unit	<ul style="list-style-type: none"> • Disconnection of wiring harness • Internal breakdown in Occupant Detection System control unit • 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 Result CONSULT-III.

- 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