

B1049, B1054 DRIVER AIRBAG MODULE

Description

For driver air bag module, crash is judged by main "G" sensor output signal and Safing algorithm in front direction.

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns and introduces the chemical reaction of gas generating materials to generate hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Driver air bag module mainly consists of air bag and inflator which inflates air bag.

INSTALLATION

Driver air bag module is installed on the center of steering wheel with fixed bolts.

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
B1049 B1054	DRIVER AIRBAG MODULE [OPEN]	Driver air bag module circuit is open (including the spiral cable)	<ul style="list-style-type: none"> • Disconnection of wiring harness and open • Internal breakdown in driver air bag module • Internal breakdown in spiral cable • Internal breakdown in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

- 1).INSPECTION START
Turn ignition switch ON.
- 2).CHECK SELF-DIAG RESULT
 - A).Check the screen of CONSULT-III.
 - B).Is malfunctioning part detected?
YES >> Refer to SRC-49, "Diagnosis Procedure".
NO >> INSPECTION END.
- 3).INSPECTION START
Turn ignition switch ON.
- 4).CHECK AIR BAG WARNING LAMP
 - A).Check the air bag warning lamp status.
 - B).Is malfunctioning part detected?
YES >> Refer to warning lamp flash code chart.
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 SPIRAL CABLE CIRCUIT
 - A).Turn ignition switch OFF.
 - B).Disconnect driver side air bag module harness connector and body side harness connector.
 - C).Check continuity between driver side air bag module harness connector and body side harness connector.
 - D).Check continuity between driver side air bag module harness connector and ground.

E).Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace spiral cable.

4).CHECK DRIVER AIR BAG MODULE

A).Replace driver air bag module.

B).Check the screen of CONSULT-III.

C).Is the inspection result normal?

YES >> INSPECTION END.

NO >> GO TO 1.