

B1209 FRONTAL COLLISION DETECTION

Description

When detect a component damage resulting from a front collision, blinks or illuminates the air bag warning lamp to inform the driver. Malfunctioning can be detected by the CONSULT-III.

OPERATION

The air bags and seat belt pre-tensioners for driver and front passenger are operated by the decision of the air bag diagnosis sensor unit out signal transmitted because of the frontal collision.

STRUCTURE

It consists of crash zone sensor, air bag diagnosis sensor unit, air bags and seat belt pre-tensioners for driver and front passenger.

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
B1209	FRONTAL COLLISION DETECTION	Front seat belt pre-tensioner, front air bag is deployed	—

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-130, "Diagnosis Procedure".

NO >> INSPECTION END.

Diagnosis Procedure

- 1).CHECK FRONT AIR BAG MODULE
 - A).Check front air bag modules. (driver air bag module and/or front passenger air bag module.)
 - B).the front air bag module deployed?
YES >> Replace front air bag modules.
NO >> GO TO 2.

- 2).CHECK FRONT SEAT BELT PRE-TENSIONER
 - A).Check front seat belt pre-tensioner.
 - B).Is the front seat belt pre-tensioner activated?
YES >> Replace front seat belt pre-tensioner.
NO >> GO TO 3.

- 3).CHECK AIR BAG DIAGNOSIS SENSOR UNIT
 - A).Check air bag diagnosis sensor unit.
 - B).Is the front air bag module and/or front seat belt pre-tensioner activated?
YES >> Replace air bag diagnosis sensor unit.
NO >> GO TO 4.

- 4).CHECK STEERING WHEEL
 - A).Check steering wheel.
 - B).Is the steering wheel normal?
YES >> GO TO 5.
NO >> Replace steering wheel.

- 5).CHECK SPIRAL CABLE
 - A).Check the continuity of spiral cable.
 - B).Operate the steering wheel to check excessive heavy operation force, abnormal noise or damage.
 - C).Is the inspection result normal?
YES >> GO TO 6.
NO >> Replace spiral cable.

- 6).CHECK WIRING HARNESS/HARNESS CONNECTOR
 - A).Check wiring harness/harness connector.
 - B).Is the wiring harness/harness connector normal?
YES >> GO TO 7.
NO >> Repair or replace wiring harness/harness connector.

7).FINAL CHECK

- A).Check the screen of CONSULT-III and/or Air bag warning lamp status.
- B).Is the inspection result normal?
 - YES >> INSPECTION END.
 - NO >> Check the intermittent incident.