Trouble in Passenger Airbag ON / OFF Indicator

DESCRIPTION

The occupant classification system detects the front passenger seat condition. It then informs a passenger of the front passenger airbag, the front seat side airbag RH and front seat belt pretensioner RH condition (activated/not activated) by the passenger airbag ON/OFF indicator.
HINT:
Approximately 6 seconds after the ignition switch is turned to the ON position, the passenger airbag ON/OFF indicator will be ON/OFF depending on the conditions listed below.

Front passenger seat condition	Passenger Airbag ON/OFF Indicator		SRS Warning Light
	ON Indicator	OFF Indicator	
Adult is seated.	ON	OFF	OFF
Child is seated.	OFF	ON	OFF
Vacant	OFF	OFF	OFF
Occupant classification system failure	OFF	ON	ON

INSPECTION PROCEDURE

1 CHECK SRS WARNING LIGHT

(a) Turn the ignition switch to the ON position, and check the SRS warning light condition.
HINT:
If this trouble occurs, the SRS warning light is off. If it is on, a DTC is output. Troubleshoot for the output DTC.
OK:
After the primary check period, SRS warning light goes off.
HINT:
The primary check period is approximately 6 seconds after the ignition switch is turned to the ON position.

NG → **REPAIR CIRCUITS INDICATED BY OUTPUT DTCS**

OK

2 PERFORM ZERO POINT CALIBRATION

(a) Turn the ignition switch to the LOCK position.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch to the ON position.
(d) Using the intelligent tester, perform "Zero point calibration" (See page RS-328).
OK:
"COMPLETE" is displayed.

NG → **Go to step 4**

OK

3	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform "Sensitivity check" (See page RS-328).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 4**

OK

END

4	RETIGHTEN FRONT SEAT ASSEMBLY RH BOLT

(a) Turn the ignition switch to the LOCK position.
(b) Loosen the 4 installation bolts of the front seat assembly RH.
(c) Tighten the 4 installation bolts of the front seat assembly RH to the specified torque.
Torque: 37 N*m (375 kgf*cm, 27 ft.*lbf)

NEXT

5	PERFORM ZERO POINT CALIBRATION

(a) Connect the intelligent tester to the DLC3.
(b) Turn the ignition switch to the ON position.
(c) Using the intelligent tester, perform "Zero point calibration" (See page RS-328).
OK:
"COMPLETE" is displayed.

NG → **Go to step 7**

OK

6	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform "Sensitivity check" (See page RS-328).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 7**

OK

END

7	CHECK CONNECTORS

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check the connectors are properly connected to the occupant classification ECU and the 4 occupant classification sensors.
OK:
The connectors are connected.
(d) Disconnect the connectors from the occupant classification ECU and the 4 occupant classification sensors.
(e) Check the connectors are not damaged or deformed.
OK:
The connectors are properly normal.

NG → **REPAIR OR REPLACE CONNECTOR, THEN GO TO STEP 1**

OK

8	CHECK DTC

(a) Connect the connectors to the occupant classification ECU and the 4 occupant classification sensors.
(b) Connect the negative (-) terminal cable to the battery.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Turn the ignition switch to the LOCK position.
(e) Clear the DTCs stored in the memory (See page RS-335).
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-335).
OK:
DTC is not output.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

9	REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (See page RS-487).

NEXT

10	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (-) terminal cable to the battery.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch to the ON position.
(d) Using the intelligent tester, perform "Zero point calibration" (See page RS-328).
OK:
"COMPLETE" is displayed.

NEXT

11	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform "Sensitivity check" (See page RS-328).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT

END