Trouble in Passenger Airbag ON / OFF Indicator

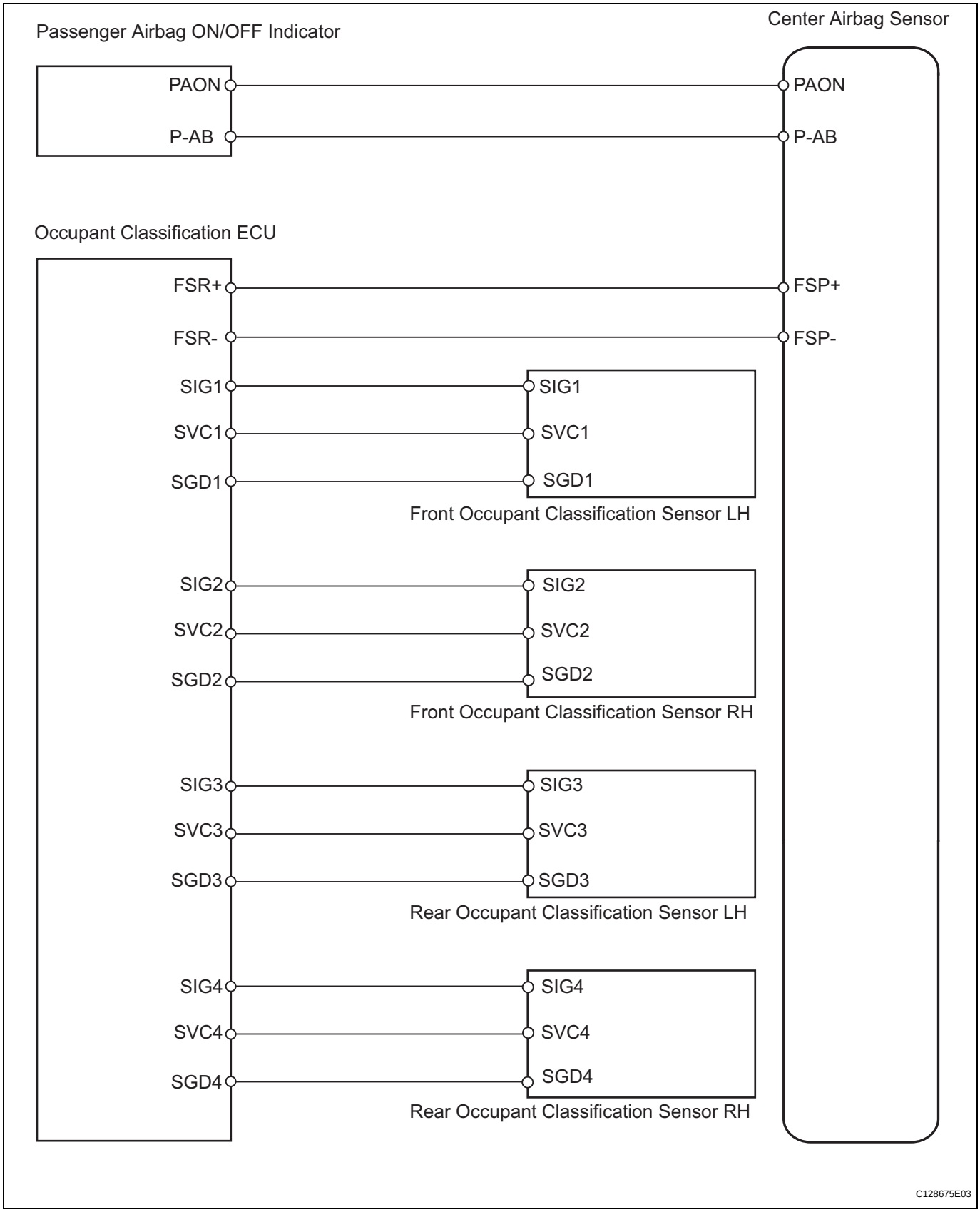
DESCRIPTION

The occupant classification system detects the front passenger seat condition and then indicates whether the front passenger airbag is activated or not through the passenger airbag ON / OFF indicator illumination.

The passenger airbag ON / OFF indicator illumination changes depending on the front passenger seat condition as shown in the table below.

Front Passenger Seat Condition	ON Indicator	OFF Indicator
Adult is seated	ON	OFF
Child is seated	OFF	ON
Vacant	OFF	OFF
Occupant classification system failure	OFF	ON

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1 CHECK SRS WARNING LIGHT

(a) Turn the ignition switch ON, and check the SRS warning light condition.
OK:
The SRS warning light does not come on.

NG → **Go to step 9**

OK

2 CHECK PASSENGER AIRBAG ON/OFF INDICATOR CONDITION

(a) Turn the ignition switch ON.
(b) Check if the passenger airbag ON / OFF indicator correctly indicates the front passenger seat condition.

OK

Front Passenger Seat Condition	ON Indicator	OFF Indicator
Adult is seated	ON	OFF
Child is seated	OFF	ON
Vacant	OFF	OFF
Occupant classification system failure	OFF	ON

OK → **END**

NG

3 PERFORM ZERO POINT CALIBRATION

(a) Turn the ignition switch OFF.
(b) Connect the intelligent tester (with CAN VIM) to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NG → **Go to step 5**

OK

4 PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 5**

RS

OK

END

5	RETIGHTEN FRONT SEAT ASSEMBLY RH BOLT

(a) Turn the ignition switch OFF.
(b) Loosen the 4 installation bolts of the front seat RH.
(c) Tighten the 4 installation bolts of the front seat RH to the specified torque (see page SE-22).
Torque:
37 N*m{ 377 kgf*cm , 27 ft.*lbf }

NG → **Go to step 8**

OK

6	PERFORM ZERO POINT CALIBRATION

(a) Connect the intelligent tester (with CAN VIM) to the DLC3.
(b) Turn the ignition switch ON.
(c) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NG → **Go to step 8**

OK

RS

7	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 8**

OK

8	CHECK CONNECTOR

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Check that 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 that the connectors are not damaged or deformed.

OK:

The connectors are normal.

NG → **REPAIR OR REPLACE WIRE HARNESS AND CONNECTOR**

OK

9	CHECK FOR DTC

(a) Connect the connectors to the occupant classification ECU and the 4 occupant classification sensors.

(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.

(c) Turn the ignition switch ON, and wait for at least 60 seconds.

(d) Turn the ignition switch OFF.

(e) Clear the DTCs (see page RS-249).

(f) Turn the ignition switch ON, and wait for at least 60 seconds.

(g) Check the DTCs (see page RS-249).

OK:

DTC is not output.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

10	REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch OFF.

(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.

(c) Replace the occupant classification ECU (see page RS-392).

HINT:

Perform the inspection using parts from a normal vehicle if possible.

NEXT

11	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.

(b) Connect the intelligent tester (with CAN VIM) to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NEXT

12	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT

END