

## 16. Diagnostic Procedure with Diagnostic Trouble Code (DTC)

### A: DTC 27 ODS COMMUNICATION ERROR

Perform the diagnosis following diagnostic procedures for the airbag system. <Ref. to AB(diag)-65, DTC 27 ODS COMMUNICATION ERROR, Diagnostic Chart with Trouble Code.>

### B: DTC 29 ODS FAILURE

#### DTC DETECTING CONDITION:

- Occupant detection sensor is faulty.
- Occupant detection control module is faulty.
- Occupant detection harness is faulty.
- Rear airbag harness (RH) is faulty.
- Fuse No. 25 (in fuse box) is blown out.

Step	Check	Yes	No
1 <b>CHECK POOR CONTACT OF CONNECTORS.</b> Check for poor contact of the connectors between the occupant detection control module and the airbag control module.	Is there poor contact?	Reconnect the connectors. If the fault is not fixed, replace the airbag harness.	Go to step 2.
2 <b>CHECK DIAGNOSTIC TROUBLE CODE (DTC).</b> Read DTC of the airbag system.	Is another DTC displayed?	Perform the diagnosis according to DTC.	Check the seat harness, and if any fault is found, replace the seat harness. If the fault is not fixed, replace the occupant detection system. <Ref. to SE-21, DRIVER SEAT (POWER SEAT), DISASSEMBLY, Front Seat.>

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## OCCUPANT DETECTION SYSTEM (DIAGNOSTICS)

### C: DTC 2A ODS CALIBRATION ERROR

#### DTC DETECTING CONDITION:

- Calibration of occupant detection control module is initial setting or faulty.
- Occupant detection control module is faulty.

Step	Check	Yes	No
1 <b>CHECK DIAGNOSTIC TROUBLE CODE (DTC).</b> Read the DTC of the airbag system using the Subaru Select Monitor.	Is DTC other than 2A displayed?	Perform the diagnosis according to the displayed DTC.	Go to step 2.
2 <b>PERFORM RE-ZEROING.</b> Perform system calibration using the Subaru Select Monitor. <Ref. to OD(diag)-15, System Calibration (Rezeroing).>	Did the system calibration complete properly?	Go to step 3.	Replace the occupant detection system. <Ref. to SE-21, DRIVER SEAT (POWER SEAT), DISASSEMBLY, Front Seat. >
3 <b>CHECK DIAGNOSTIC TROUBLE CODE (DTC).</b> 1) Turn the ignition switch to OFF and wait for at least 60 seconds. 2) Turn the ignition switch to ON, and then read the DTC of the airbag system.	Is DTC other than DTC 2A displayed?	Perform the diagnosis according to the displayed DTC.	When DTC is 2A, replace the occupant detection system. <Ref. to SE-21, DRIVER SEAT (POWER SEAT), DISASSEMBLY, Front Seat. > When DTC is not displayed, end the diagnosis.

#### CAUTION:

When DTC other than DTC 2A is present, system calibration (re-zeroing) cannot be completed normally.

When occupant detection system DTC other than DTC 2A is present (27, 29, 2B, 37), perform the diagnosis of the DTCs other than 2A first.

### D: DTC 2B ODS SYSTEM WRONG PARTS

#### DTC DETECTING CONDITION:

- Wrong occupant detection control module is installed.
- Occupant detection control module is faulty.

When DTC 2B is displayed, the occupant detection control module is faulty.

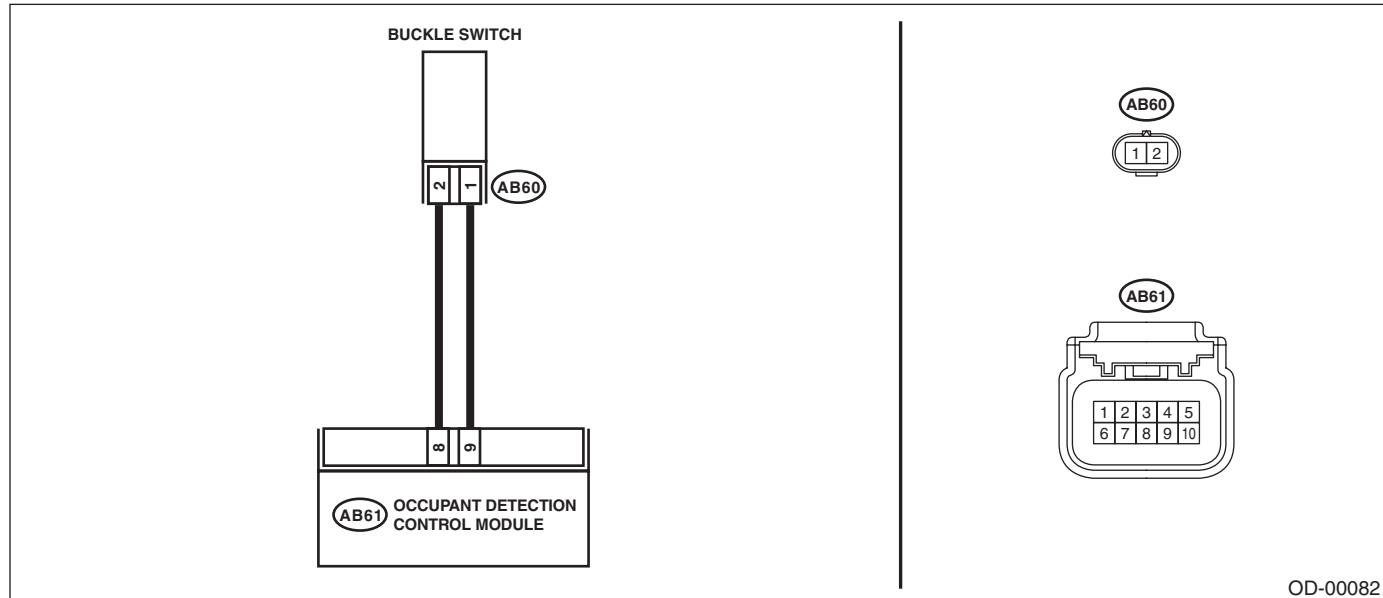
Replace the occupant detection control module with a genuine occupant detection control module.

### E: DTC 37 BUCKLE SWITCH RH FAILURE

#### DTC DETECTING CONDITION:

- Passenger's buckle switch circuit is open, shorted or shorted to ground.
- Seat harness circuit is open, shorted or shorted to ground.
- Occupant detection control module is faulty.

#### WIRING DIAGRAM:



Step	Check	Yes	No
1 <b>CHECK POOR CONTACT OF CONNECTORS.</b> Check for poor contact of the connectors between the occupant detection control module and buckle switch.	Is there poor contact?	Reconnect the connectors. If the fault is not fixed, replace the airbag harness.	Go to step 2.
2 <b>CHECK BUCKLE SWITCH.</b> 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds. 2) Disconnect the buckle switch connector (AB60). 3) Connect the test harness AE and test harness connector Y to buckle switch connector (AB60). 4) Connect the battery ground terminal and turn the ignition switch to ON.	Does the airbag warning light illuminate for 6 seconds and go off?	Replace the buckle switch. <Ref. to SB-17, OUTER BELT ASSY, REMOVAL, Front Seat Belt.>	Check the seat harness, and if any fault is found, replace the seat harness. If the fault is not fixed, replace the occupant detection system.

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OCCUPANT DETECTION SYSTEM (DIAGNOSTICS)

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