

12. Airbag Warning Light Failure

A: AIRBAG WARNING LIGHT REMAINS ON

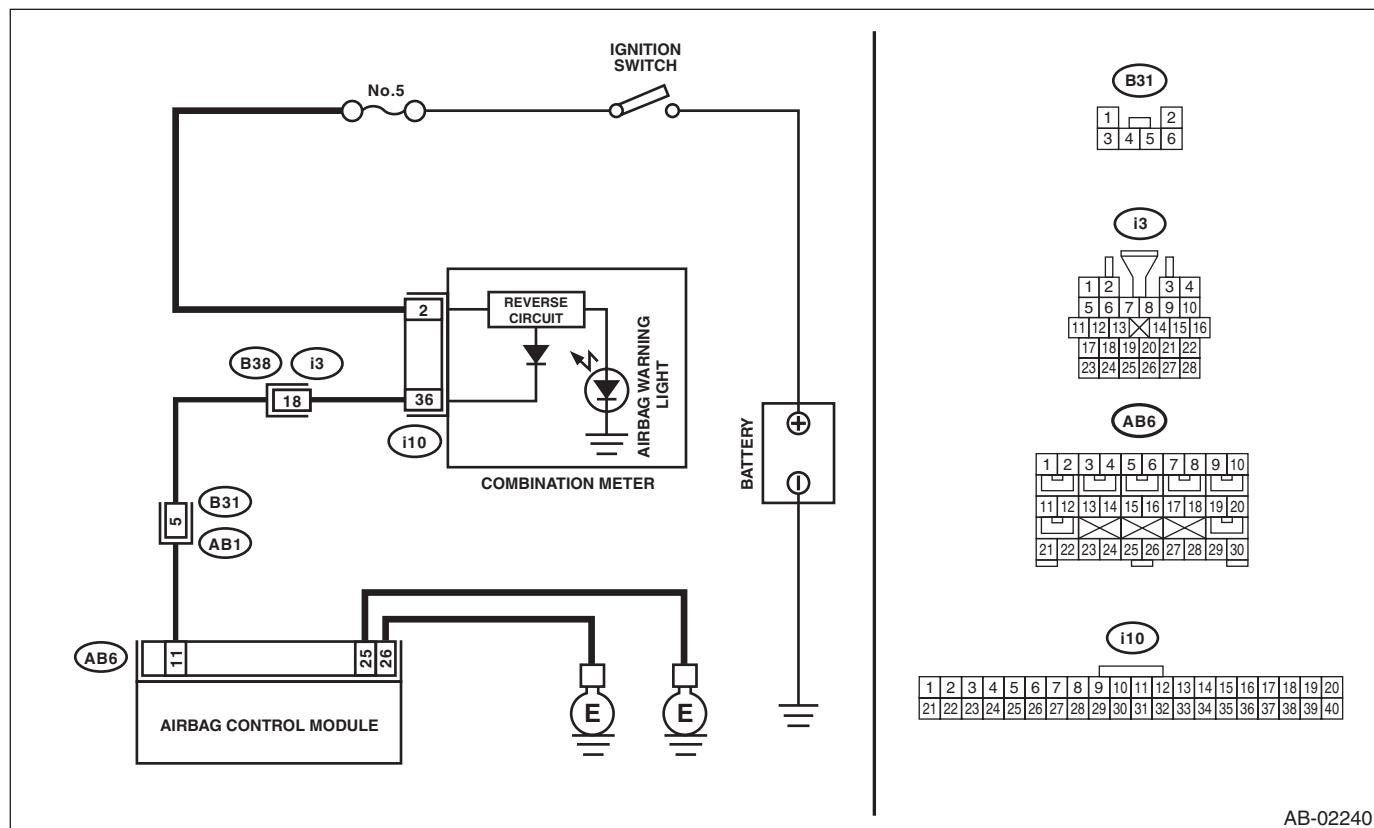
DETECTING CONDITION:

- Airbag warning light is faulty.
- Airbag control module to airbag warning light circuit is shorted or open.
- Grounding circuit is faulty.
- Airbag control module is faulty.
- Connection of (AB1) and (B31) is improper.
- Connection of (AB6, AB17, AB18) to airbag control module is improper

CAUTION:

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait 20 seconds or more before starting to work.
- When replacing the airbag module, seat belt pretensioner, roll connector, control module and sensor, reconnect each part and check that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the airbag module connectors of the driver's and passenger's seats for safety.
- When inspecting the airbag rear harness, disconnect the side airbag module connector, curtain airbag module connector and seat belt pretensioner connector for safety reasons.

WIRING DIAGRAM:



| Step | Check | Yes | No |
|--|--------------------------|---------------|---|
| 1 READ DTC. Read the DTC. <Ref. to AB(diag)-24, READ DIAGNOSTIC TROUBLE CODE (DTC), OPERATION, Subaru Select Monitor.> | Is DTC displayed? | Go to step 2. | Go to step 3. |
| 2 CHECK DTC. | Is the displayed DTC 2D? | Go to step 3. | Perform the diagnosis according to DTC. |

Airbag Warning Light Failure

AIRBAG SYSTEM (DIAGNOSTICS)

| Step | Check | Yes | No |
|--|--|---|------------------------------------|
| 3 CHECK FOR POOR CONTACT. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more. 2) Confirm that the airbag control module and the connectors (AB6, AB17, AB18) are securely connected. | Is there faulty connector contact (AB6, AB17, AB18)? | If the faulty connector contact remains, replace the airbag main harness along with body harness or replace the airbag control module. <Ref. to AB-21, Airbag Control Module.> | Go to step 4. |
| 4 CHECK AIRBAG MAIN HARNESS. 1) Remove the instrument panel lower cover and disconnect the connectors (AB7) and (AB2). 2) Remove the console front panel and disconnect the connectors (AB10) and (AB9). 3) Disconnect the connectors (AB6, AB17, AB18) from the airbag control module, and connect the test harness AG connector (1AG). 4) Connect the battery ground terminal and turn the ignition switch to ON. 5) Connect the connectors (7AG) and (8AG) in the test harness AG. NOTE: After the fault has been cleared, disconnect the connectors (7AG) and (8AG). | Does the airbag warning light go off? | Go to step 5. | Go to step 6. |
| 5 CHECK GROUND CIRCUIT. Measure the resistance between connector (2AG) in the test harness AG and chassis ground. <i>Connector & terminal</i> <i>(2AG) No. 4 — Chassis ground:</i> <i>(2AG) No. 3 — Chassis ground:</i> | Is the resistance less than 10 Ω ? | Replace the airbag control module. <Ref. to AB-21, Airbag Control Module.> | Repair the chassis ground circuit. |
| 6 CHECK AIRBAG MAIN HARNESS AND BULKHEAD HARNESS. 1) Turn the ignition switch to OFF, disconnect the battery ground terminal, and wait 20 seconds or more. 2) Disconnect the connectors (7AG) and (8AG). 3) Remove the combination meter. 4) Measure the resistance between the combination meter connector and test harness AG connector (2AG). <i>Connector & terminal</i> <i>(2AG) No. 5 — (10) No. 36:</i> | Is the resistance less than 10 Ω ? | Check the combination meter. | Go to step 7. |
| 7 CHECK POOR CONTACT OF CONNECTORS (AB1) AND (B31). Confirm that there is a firm contact between connectors (AB1) and (B31). | Is there poor contact of connectors (AB1) and (B31)? | Repair the bulkhead harness or replace the airbag main harness along with body harness. | Go to step 8. |
| 8 CHECK AIRBAG MAIN HARNESS. Check the airbag main harness for defect. | Is there any defect in the airbag main harness? | Replace the airbag main harness along with bulkhead harness. | Repair the bulkhead harness. |

B: AIRBAG WARNING LIGHT REMAINS OFF

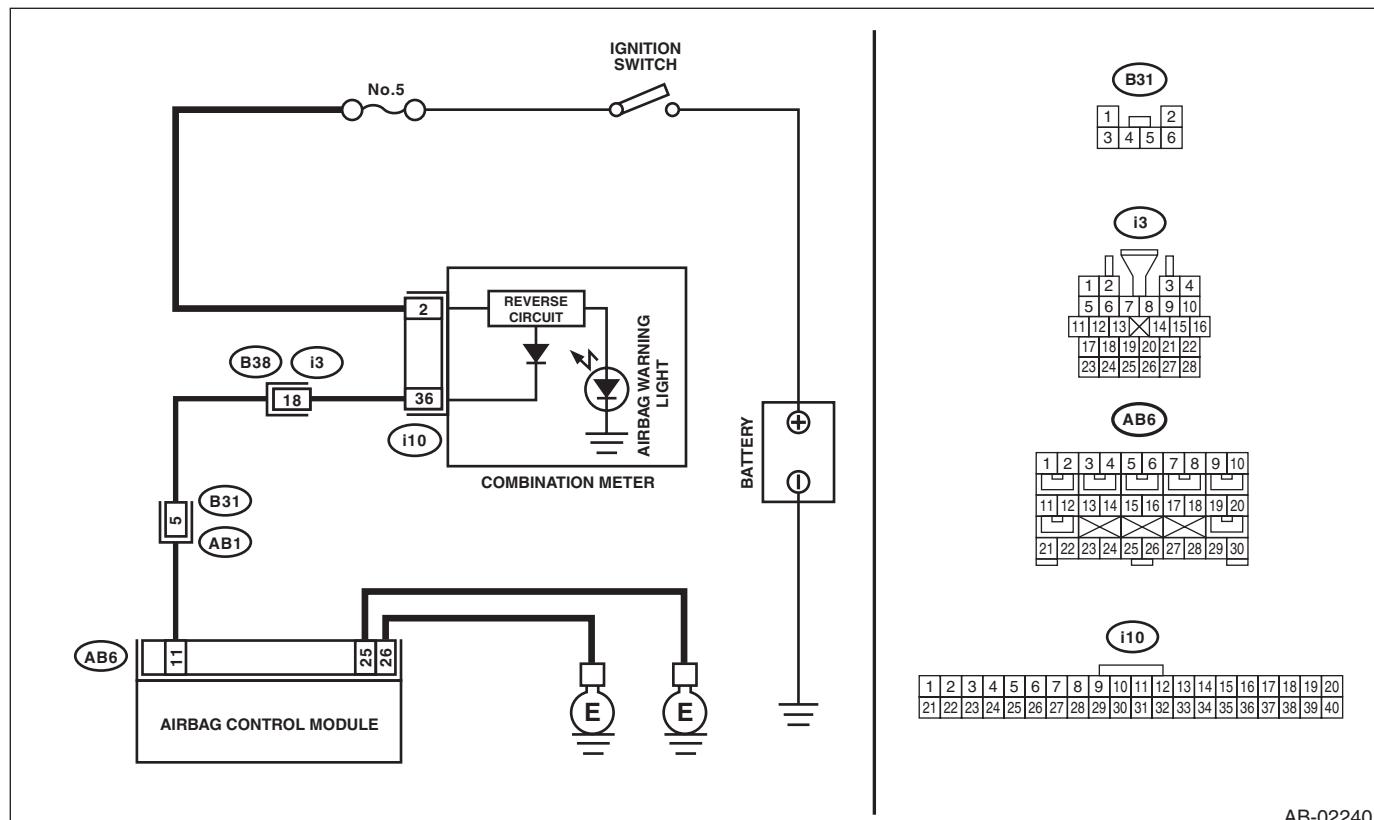
DETECTING CONDITION:

- Fuse No. 5 (in fuse box) is blown out.
- Body harness circuit is open.
- Airbag warning light is faulty.
- Airbag main harness is faulty.
- Airbag control module is faulty.

CAUTION:

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait 20 seconds or more before starting to work.
- When replacing the airbag module, seat belt pretensioner, roll connector, control module and sensor, reconnect each part and check that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the airbag module connectors of the driver's and passenger's seats for safety.
- When inspecting the airbag rear harness, disconnect the side airbag module connector, curtain airbag module connector and seat belt pretensioner connector for safety reasons.

WIRING DIAGRAM:



AB-02240

| Step | Check | Yes | No |
|---|---|---|------------------------------|
| 1 CHECK COMBINATION METER. Turn the ignition switch to ON, and confirm that warning lights of combination meter illuminate. | Do warning lights except for airbag illuminate? | Go to step 2. | Check the combination meter. |
| 2 CHECK DTC. Read the DTC. <Ref. to AB(diag)-24, READ DIAGNOSTIC TROUBLE CODE (DTC), OPERATION, Subaru Select Monitor.> | Is DTC displayed? | Perform the diagnosis according to DTC. | Go to step 3. |
| 3 CHECK FUSE NO. 5 (IN MAIN FUSE BOX). Remove the fuse No. 5 and perform visual inspection. | Is the fuse No. 5 (in main fuse box) blown out? | Replace the fuse No. 5. If the fuse No. 5 is blown out again, go to step 4. | Go to step 4. |

Airbag Warning Light Failure

AIRBAG SYSTEM (DIAGNOSTICS)

| Step | Check | Yes | No |
|---|---------------------------------------|---|---|
| 4 CHECK AIRBAG WARNING LIGHT CIRCUIT (IN COMBINATION METER). 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more. 2) Disconnect the connectors (AB1) and (B31). 3) Connect the battery ground terminal and turn the ignition switch to ON. | Does airbag warning light illuminate? | Go to step 5. | Check the combination meter. |
| 5 CHECK AIRBAG MAIN HARNESS. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more. 2) Connect the connector (AB1) and (B31). 3) Disconnect the connectors (AB6, AB17, AB18) from airbag control module. 4) Connect the battery ground terminal and turn the ignition switch to ON. | Does airbag warning light illuminate? | Replace the airbag control module. <Ref. to AB-21, Airbag Control Module.> | Replace the airbag main harness along with bulk-head harness. |