

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### 14.Diagnostic Chart with Trouble Code

#### A: DTC 11 DRIVER'S AIRBAG FAILURE

##### DTC DETECTING CONDITION:

- Airbag main harness circuit is open, shorted or shorted to ground.
- Airbag module harness (driver's side) circuit is open, shorted or shorted to ground.
- Roll connector circuit is open, shorted or shorted to ground.
- Driver's airbag module is faulty.
- Airbag control module is faulty.

##### CAUTION:

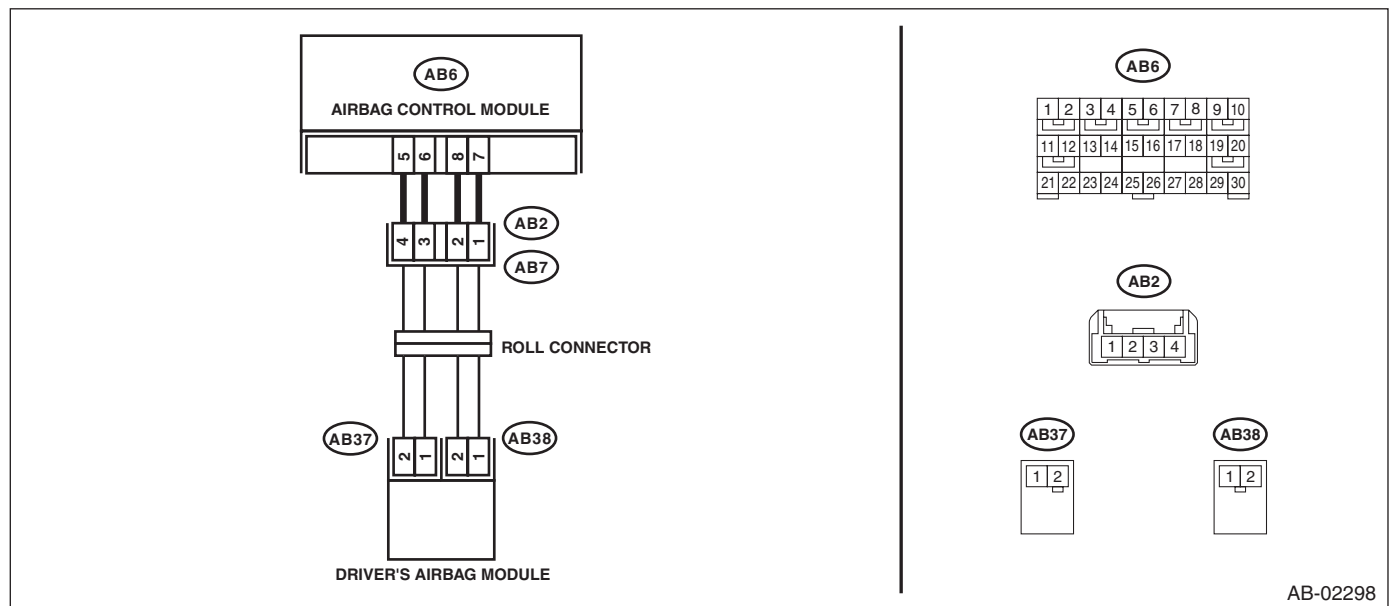
Before performing diagnosis, refer to "CAUTION" in "General Description". <Ref. to AB(diag)-4, CAUTION, General Description.>

##### NOTE:

Prior to starting work, prepare two AIRBAG RESISTORS (98299PA040).

##### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step  | Check  | Yes  | No            |
|---|--|--|---------------|
| 1<br><b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module and the driver's airbag module.   | Is there poor contact?   | Replace the airbag harness.  | Go to step 2. |
| 2<br><b>CHECK DRIVER'S AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Remove the driver's airbag module.<br>3) Connect the connector (1N) in the test harness N to the connector (AB38).<br>4) Connect the airbag resistor to the connector (2N) of test harness N.<br>5) Connect the connector (1Q) in the test harness Q to connector (AB37).<br>6) Connect the airbag resistor to the connector (2Q) in the test harness Q.<br>7) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the driver's airbag module. <Ref. to AB-14, Driver's Airbag Module.> | Go to step 3. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check  | Yes  | No   |
|--|--|--|--|
| <b>3</b><br><b>CHECK ROLL CONNECTOR.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the test harness N from connector (AB38).<br>3) Disconnect the test harness Q from connector (AB37).<br>4) Remove the instrument panel lower cover and disconnect the connector (AB7) from (AB2).<br>5) Connect the connector (1P) in the test harness P to connector (AB2).<br>6) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P.<br>7) Connect the battery ground terminal and turn the ignition switch to ON.   | Does the airbag warning light illuminate for six seconds and go off? | Replace the roll connector. <Ref. to AB-25, Roll Connector.>               | Go to step 4.  |
| <b>4</b><br><b>CHECK AIRBAG MAIN HARNESS (DRIVER'S AIRBAG HARNESS).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P.<br>3) Remove the console side panel lower RH and disconnect the connector (AB9).<br>4) Disconnect the connectors (AB6, AB17, AB18) from the airbag control module, and connect the connector (1AG) in the test harness AG.<br>5) Measure the resistance between connector (3AG) of test harness AG and connector (3P) of test harness P.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 1 — (2P) No. 1:</b><br><b>(3AG) No. 3 — (2P) No. 2:</b> | Is the resistance less than 10 $\Omega$ ?                            | Go to step 5.  | Replace the airbag main harness along with body harness. |
| <b>5</b><br><b>CHECK AIRBAG MAIN HARNESS (DRIVER'S AIRBAG HARNESS).</b><br>Measure the resistance between connector (3AG) terminals in the test harness AG.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 1 — (3AG) No. 2:</b><br><b>(3AG) No. 1 — (3AG) No. 4:</b><br><b>(3AG) No. 2 — (3AG) No. 3:</b><br><b>(3AG) No. 3 — (3AG) No. 4:</b><br><b>(3AG) No. 1 — (3AG) No. 3:</b><br><b>(3AG) No. 3 — Chassis ground:</b><br><b>(3AG) No. 1 — Chassis ground:</b><br><b>(3AG) No. 2 — (3AG) No. 4:</b><br><b>(3AG) No. 2 — Chassis ground:</b><br><b>(3AG) No. 4 — Chassis ground:</b>   | Is the resistance 1 M $\Omega$ or more?                              | Go to step 6.  | Replace the airbag main harness along with body harness. |
| <b>6</b><br><b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.   | Is the same DTC displayed?   | Replace the airbag control module. <Ref. to AB-20, Airbag Control Module.> | Go to step 7.  |

## Diagnostic Chart with Trouble Code

### AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                       | Yes  | No                         |
|---|-----------------------------|--|----------------------------|
| 7<br><b>CHECK FOR ANY OTHER DTC ON DISPLAY.</b> | Is any other DTC displayed? | Check DTC using<br>“List of Diagnostic<br>Trouble Code<br>(DTC)”. <Ref. to<br>AB(diag)-35, List<br>of Diagnostic Trou-<br>ble Code (DTC).> | Finish the diagno-<br>sis. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## B: DTC 12 PASSENGER'S AIRBAG FAILURE

### DTC DETECTING CONDITION:

- Airbag main harness circuit is open, shorted or shorted to ground.
- Airbag module harness (Passenger's side) circuit is open, shorted or shorted to ground.
- Passenger's airbag module is faulty.
- Airbag control module is faulty.

### CAUTION:

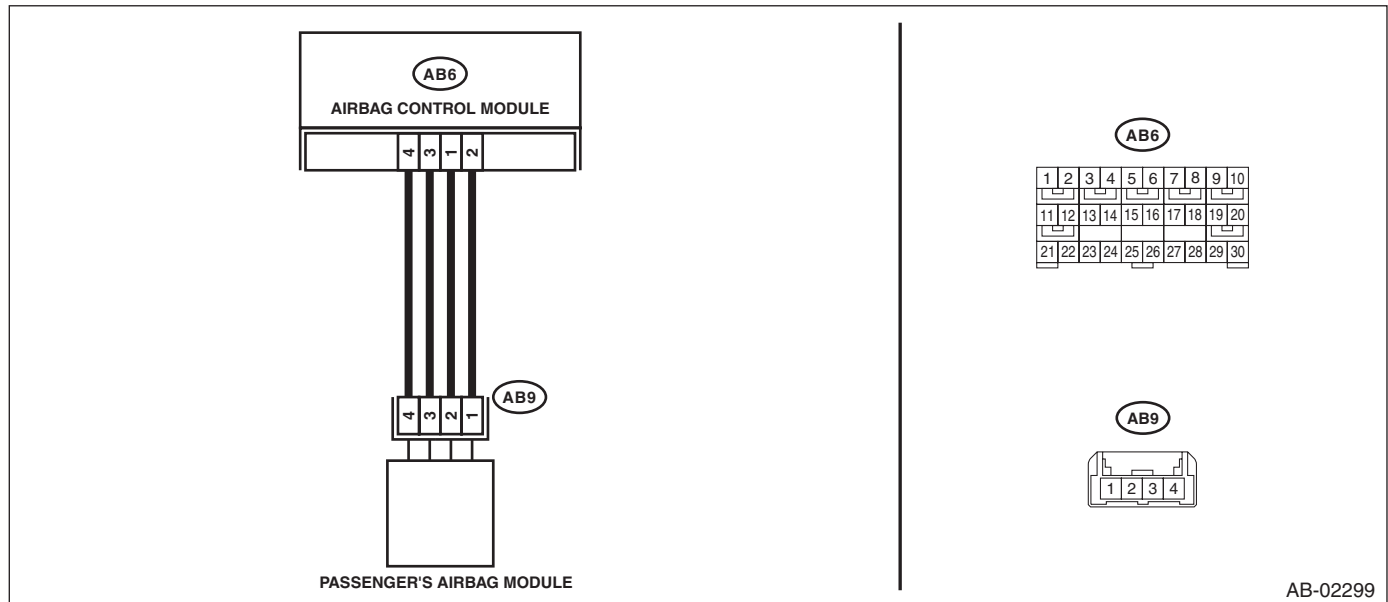
Before performing diagnosis, refer to "CAUTION" in "General Description". <Ref. to AB(diag)-4, CAUTION, General Description.>

### NOTE:

Prior to starting work, prepare two AIRBAG RESISTORS (98299PA040).

### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step   | Check  | Yes  | No            |
|--|--|--|---------------|
| 1<br><b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module and the passenger's airbag module.   | Is there poor contact?   | Replace the airbag harness.  | Go to step 2. |
| 2<br><b>CHECK PASSENGER'S AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Remove the console side panel lower RH and disconnect the connector (AB9).<br>3) Connect the connector (1P) in the test harness P to connector (AB9).<br>4) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P.<br>5) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the passenger's airbag module. <Ref. to AB-15, Passenger's Airbag Module.> | Go to step 3. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                                     | Yes  | No   |
|---|---|--|--|
| <b>3 CHECK AIRBAG MAIN HARNESS (PASSENGER'S AIRBAG HARNESS).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P.<br>3) Remove the instrument panel lower cover and disconnect the connector (AB7) from (AB2).<br>4) Disconnect the connectors (AB6, AB17, AB18) from the airbag control module, and connect the connector (1AG) in the test harness AG.<br>5) Measure the resistance between connector (3AG) in the test harness AG and connectors (2P) and (3P) in the test harness P.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 9 — (2P) No. 1:</b><br><b>(3AG) No. 7 — (2P) No. 2:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 4.  | Replace the airbag main harness along with body harness. |
| <b>4 CHECK AIRBAG MAIN HARNESS (PASSENGER'S AIRBAG HARNESS).</b><br>Measure the resistance between connectors (3AG) in the test harness AG, and between connector (3AG) and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 9 — (3AG) No. 7:</b><br><b>(3AG) No. 9 — Chassis ground:</b><br><b>(3AG) No. 7 — Chassis ground:</b><br><b>(3AG) No. 8 — (3AG) No. 6:</b><br><b>(3AG) No. 8 — Chassis ground:</b><br><b>(3AG) No. 6 — Chassis ground:</b><br><b>(3AG) No. 9 — (3AG) No. 6:</b><br><b>(3AG) No. 9 — (3AG) No. 8:</b><br><b>(3AG) No. 7 — (3AG) No. 8:</b><br><b>(3AG) No. 6 — (3AG) No. 7:</b>  | Is the resistance 1 M $\Omega$ or more?   | Go to step 5.  | Replace the airbag main harness along with body harness. |
| <b>5 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.  | Is the same DTC displayed?                | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.>  | Go to step 6.  |
| <b>6 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>  | Is any other DTC displayed?               | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## C: DTC 15 DRIVER'S AIRBAG FAILURE

### DTC DETECTING CONDITION:

- Airbag main harness circuit (driver's side) is shorted to power supply.
- Airbag module harness circuit (driver's side) is shorted to power supply.
- Roll connector is shorted to power supply.
- Driver's airbag module is faulty.
- Airbag control module is faulty.

### CAUTION:

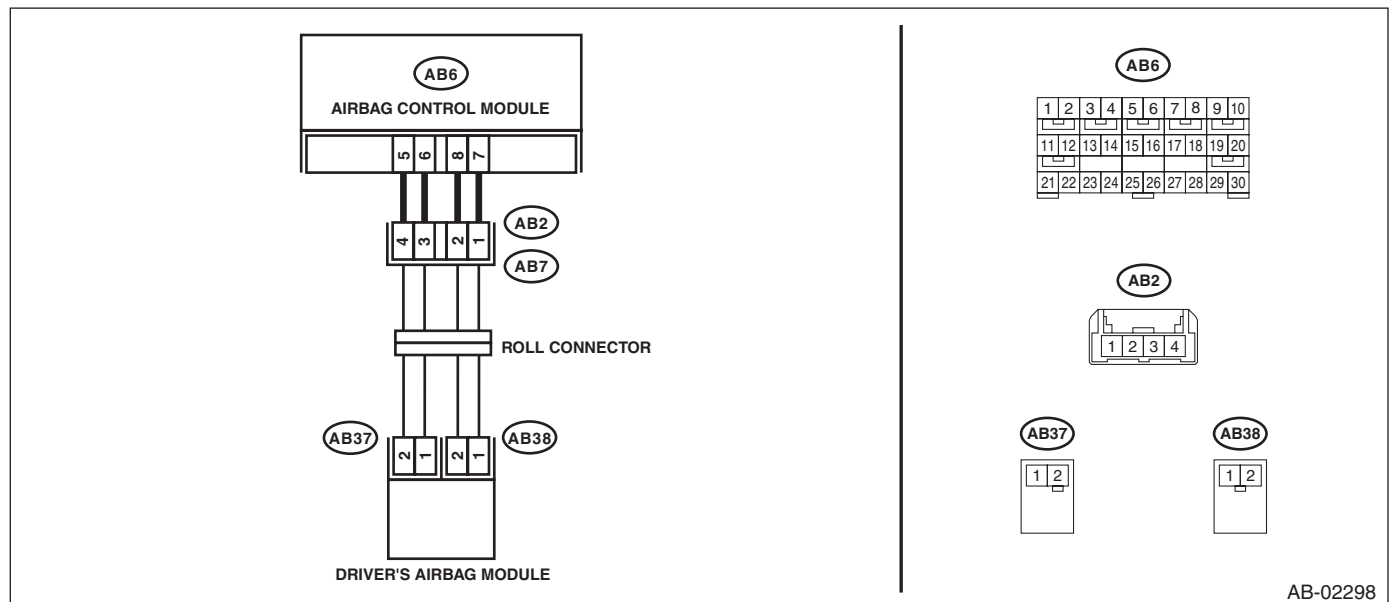
Before performing diagnosis, refer to "CAUTION" in "General Description". <Ref. to AB(diag)-4, CAUTION, General Description.>

### NOTE:

Prior to starting work, prepare two AIRBAG RESISTORS (98299PA040).

### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step | Check  | Yes  | No            |
|------|--|--|---------------|
| 1    | <b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module and the driver's airbag module.   | Replace the airbag harness.  | Go to step 2. |
| 2    | <b>CHECK DRIVER'S AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Remove the driver's airbag module.<br>3) Connect the connector (AB38) to the connector (1N) in the test harness N.<br>4) Connect the airbag resistor to the connector (2N) of test harness N.<br>5) Connect the connector (1Q) in the test harness Q to connector (AB37).<br>6) Connect the airbag resistor to the connector (2Q) in the test harness Q.<br>7) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off?<br><br>Replace the driver's airbag module. <Ref. to AB-14, Driver's Airbag Module.> | Go to step 3. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check  | Yes  | No   |
|---|--|--|--|
| <b>3</b><br><b>CHECK ROLL CONNECTOR.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the test harness N from connector (AB38).<br>3) Disconnect the test harness Q from connector (AB37).<br>4) Remove the instrument panel lower cover and disconnect the connector (AB7) from (AB2).<br>5) Connect the connector (1P) in the test harness P to connector (AB2).<br>6) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P.<br>7) Connect the battery ground terminal and turn the ignition switch to ON.  | Does the airbag warning light illuminate for six seconds and go off? | Replace the roll connector. <Ref. to AB-25, Roll Connector.>   | Go to step 4.  |
| <b>4</b><br><b>CHECK AIRBAG MAIN HARNESS (DRIVER'S AIRBAG HARNESS).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P.<br>3) Remove the console side panel lower RH and disconnect the connector (AB9).<br>4) Disconnect the connectors (AB6, AB17, AB18) from the airbag control module, and connect the connector (1AG) in the test harness AG.<br>5) Connect the battery ground terminal and turn the ignition switch to ON.<br>6) Measure the voltage between connector (3AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 3 (+) — Chassis ground (-):</b><br><b>(3AG) No. 1 (+) — Chassis ground (-):</b> | Is the voltage less than 1 V?  | Go to step 5.  | Replace the airbag main harness along with body harness. |
| <b>5</b><br><b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.  | Is the same DTC displayed?   | Replace the airbag control module. <Ref. to AB-20, Airbag Control Module.>   | Go to step 6.  |
| <b>6</b><br><b>CHECK FOR ANY OTHER DTC ON DISPLAY.</b>  | Is any other DTC displayed?  | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## D: DTC 16 PASSENGER'S AIRBAG FAILURE

### DTC DETECTING CONDITION:

- Airbag main harness circuit (passenger's side) is shorted to power supply.
- Airbag module harness circuit (passenger's side) is shorted to power supply.
- Passenger's airbag module is faulty.
- Airbag control module is faulty.

### CAUTION:

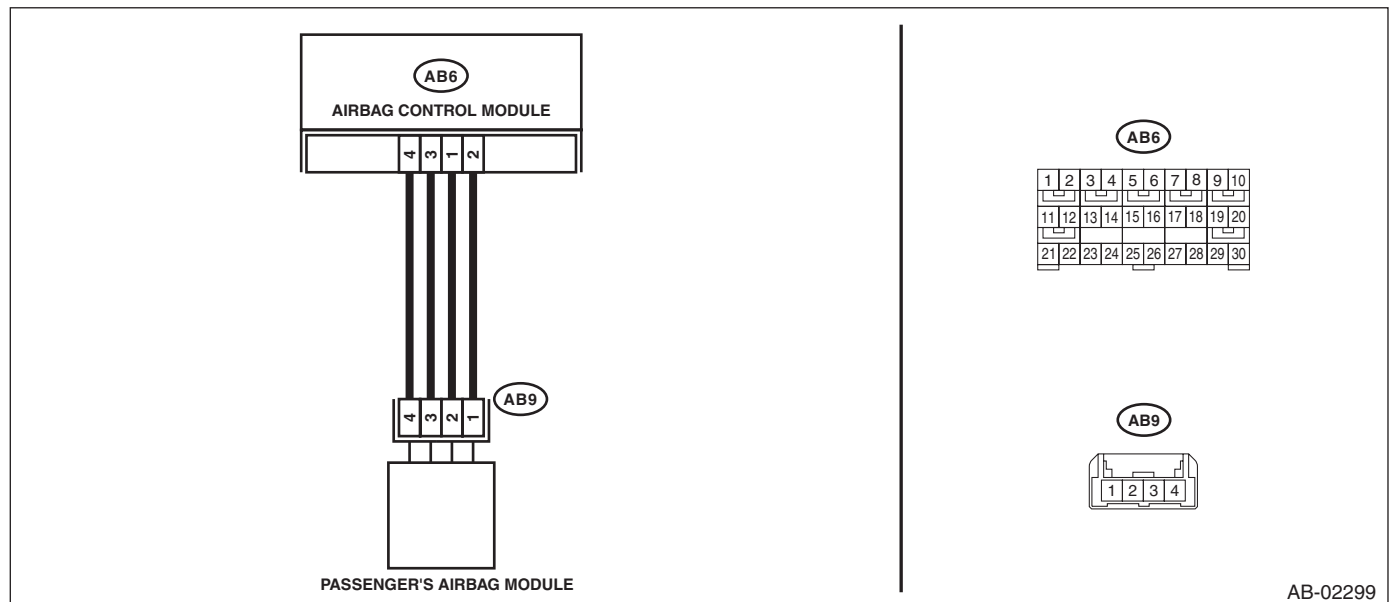
Before performing diagnosis, refer to "CAUTION" in "General Description". <Ref. to AB(diag)-4, CAUTION, General Description.>

### NOTE:

Prior to starting work, prepare two AIRBAG RESISTORS (98299PA040).

### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step   | Check  | Yes  | No            |
|--|--|--|---------------|
| 1<br><b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module and the passenger's airbag module.   | Is there poor contact?   | Replace the airbag harness along with chassis harness.                             | Go to step 2. |
| 2<br><b>CHECK PASSENGER'S AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Remove the console side panel lower RH and disconnect the connector (AB9).<br>3) Connect the connector (1P) in the test harness P to connector (AB9).<br>4) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P.<br>5) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the passenger's airbag module. <Ref. to AB-15, Passenger's Airbag Module.> | Go to step 3. |



# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                         | Yes  | No   |
|--|-------------------------------|--|--|
| <b>3 CHECK AIRBAG MAIN HARNESS (PASSENGER'S AIRBAG HARNESS).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P.<br>3) Remove the instrument panel lower cover and disconnect the connector (AB7) from (AB2).<br>4) Disconnect the connectors (AB6, AB17, AB18) from the airbag control module, and connect the connector (1AG) in the test harness AG.<br>5) Connect the battery ground terminal and turn the ignition switch to ON.<br>6) Measure the voltage between connector (3AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 9 (+) — Chassis ground (-):</b><br><b>(3AG) No. 7 (+) — Chassis ground (-):</b> | Is the voltage less than 1 V? | Go to step 4.  | Replace the airbag main harness along with body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.   | Is the same DTC displayed?    | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.>  | Go to step 5.  |
| <b>5 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?   | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |

### E: DTC 21 AIRBAG ECM FAILURE

#### DTC DETECTING CONDITION:

Airbag control module is faulty.

#### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

| Step  | Check   | Yes   | No  |
|---|---|---|---|
| 1<br><b>CHECK IF DTC 21 IS INDICATED.</b><br>Read the DTC. <Ref. to AB(diag)-22, READ DIAGNOSTIC TROUBLE CODE (DTC), OPERATION, Subaru Select Monitor.> | Does the Subaru Select Monitor display DTC21? | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.> | Perform the Clear Memory Mode.<br><Ref. to AB(diag)-23, CLEAR MEMORY MODE, OPERATION, Subaru Select Monitor.> |

### F: DTC 22 FRONT AIRBAG FIRING OUTPUT

#### DTC DETECTING CONDITION:

This DTC is indicated when the front airbag module and the pretensioner are deployed.

Once this DTC is displayed, the memory cannot be cleared. Therefore replace the following parts.

- Airbag control module <Ref. to AB-20, Airbag Control Module.>
- Driver's airbag module <Ref. to AB-14, Driver's Airbag Module.>
- Passenger's airbag module <Ref. to AB-15, Passenger's Airbag Module.>
- Front sub sensor of both sides. <Ref. to AB-21, Front Sub Sensor.>
- Front outer seat belt with pretensioner of both sides. <Ref. to SB-18, Front Seat Belt.>
- Steering roll connector <Ref. to AB-25, Roll Connector.>
- Occupant detection system (passenger's seat cushion & frame assembly.) <Ref. to SE-7, Front Seat.>
- Inner seat belt assembly of both side <Ref. to SB-18, INNER SEAT BELT ASSEMBLY, REMOVAL, Front Seat Belt.>

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### G: DTC 26 PASSENGER'S AIRBAG INDICATOR FAILURE

#### DTC DETECTING CONDITION:

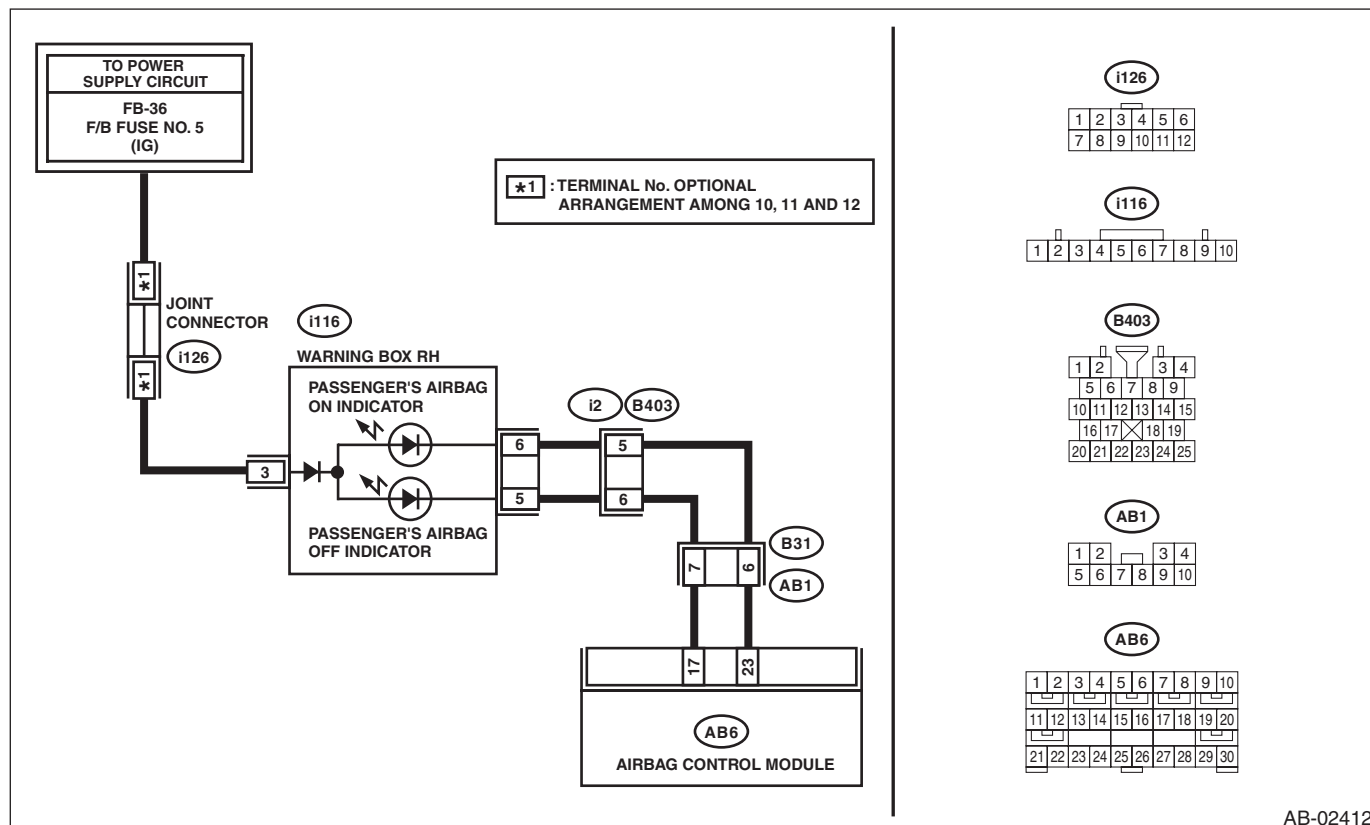
- Passenger's airbag indicator is faulty.
- Airbag control module is faulty.
- Airbag main harness circuit is open.
- Body harness circuit is open.

#### CAUTION:

Before performing diagnosis, refer to "CAUTION" in "General Description". <Ref. to AB(diag)-4, CAUTION, General Description.>

#### WIRING DIAGRAM:

Occupant detection system <Ref. to WI-73, WIRING DIAGRAM, Occupant Detection System.>



AB-02412

| Step | Check  | Yes                                   | No            |
|------|--|---------------------------------------|---------------|
| 1    | <b>CHECK FOR POOR CONTACT.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Confirm that the connector between the airbag control module and the warning box RH is securely connected. | Replace the airbag harness connector. | Go to step 2. |
| 2    | <b>CHECK AIRBAG MAIN HARNESS.</b><br>1) Disconnect the connectors (AB6, AB17, AB18) from airbag control module.<br>2) Connect the battery ground terminal and turn the ignition switch to ON.<br>NOTE:<br>Neither of ON/OFF illuminates when it is normal.   | Go to step 3.                         | Go to step 4. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check   | Yes  | No  |
|--|---|--|---|
| <b>3 CHECK AIRBAG MAIN HARNESS.</b><br>1) Turn the ignition switch to OFF.<br>2) Remove the warning box RH and disconnect the connector (i116).<br>3) Connect the test harness AG connector (1AG) to the connectors (AB6, AB17, AB18).<br>4) Measure the resistance between connector (2AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(2AG) No. 9 — (2AG) No. 8:</b><br><b>(2AG) No. 9 — Chassis ground:</b><br><b>(2AG) No. 8 — Chassis ground:</b> | Is the resistance 1 MΩ or more?                   | Replace the warning box RH. <Ref. to AC-52, REMOVAL, Air Vent Grille.>     | Repair the bulk-head harness. Or replace the airbag main harness along with body harness. |
| <b>4 CHECK AIRBAG HARNESS.</b><br>1) Connect the connectors (7AG) and (8AG) in the test harness AG.<br>2) Connect the battery ground terminal and turn the ignition switch to ON.  | Does the passenger's airbag indicator illuminate? | Replace the airbag control module. <Ref. to AB-20, Airbag Control Module.> | Go to step 5.   |
| <b>5 CHECK AIRBAG HARNESS.</b><br>1) Turn the ignition switch to OFF.<br>2) Connect the test harness AG connector (1AG) to the connectors (AB6, AB17, AB18).<br>3) Measure the resistance between connector (2AG) in the test harness AG and connector (i116).<br><b>Connector &amp; terminal</b><br><b>(2AG) No. 9 — (i116) No. 5:</b><br><b>(2AG) No. 8 — (i116) No. 6:</b>  | Is the resistance less than 10 Ω?                 | Go to step 6.  | Repair the bulk-head harness. Or replace the airbag main harness along with body harness. |
| <b>6 CHECK BODY HARNESS.</b><br>1) Turn the ignition switch to ON.<br>2) Measure the voltage between connector (i116) and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(i116) No. 3 (+) — Chassis ground (-):</b>  | Is the voltage 10 V or more?                      | Replace the warning box RH. <Ref. to AC-52, REMOVAL, Air Vent Grille.>     | Repair the power supply line to the warning box RH.                                       |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### H: DTC 27 ODS COMMUNICATION ERROR

#### DTC DETECTING CONDITION:

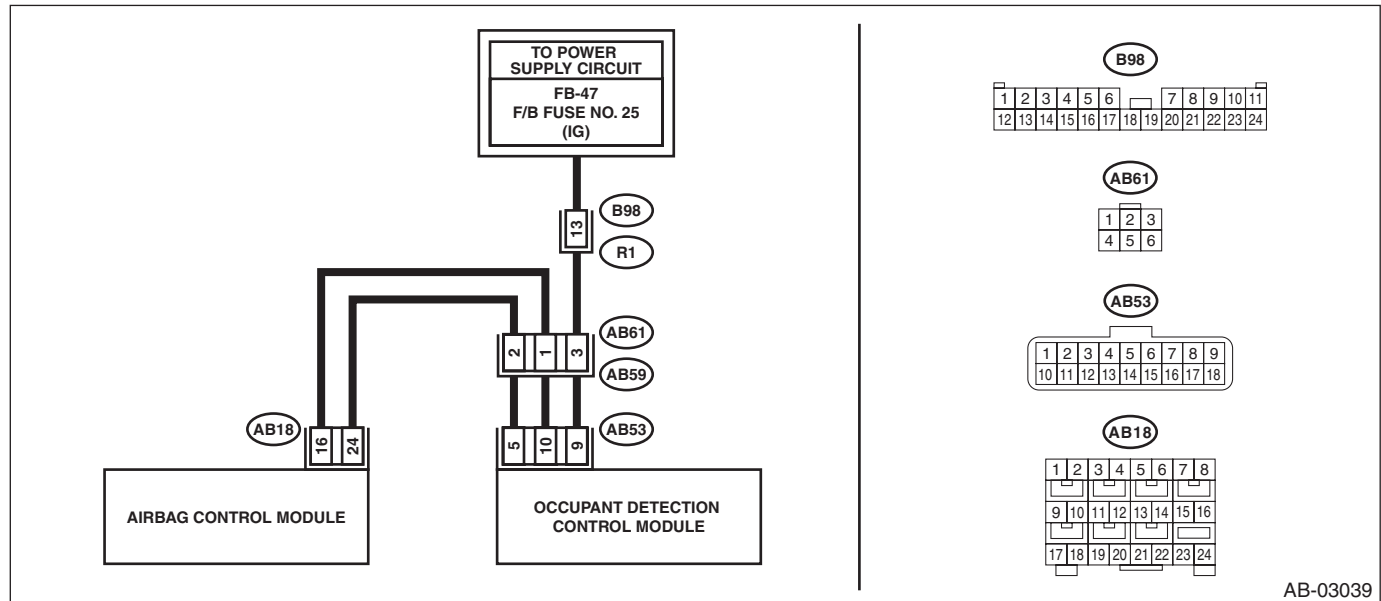
- Communication to the occupant detection control module is faulty.
- Airbag rear harness circuit is open, shorted, shorted to ground or shorted to power supply.
- Occupant detection harness (seat harness) is faulty.
- Occupant detection system is faulty.
- Airbag control module is faulty.

#### CAUTION:

<Ref. to OD(diag)-4, CAUTION, General Description.>

#### WIRING DIAGRAM:

Occupant detection system <Ref. to WI-73, WIRING DIAGRAM, Occupant Detection System.>



| Step | Check   | Yes  | No            |
|------|---|--|---------------|
| 1    | <b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module and the occupant detection control module. | Reconnect the connector. If defective is not improved, replace the airbag rear harness along with the body harness or the occupant detection harness (seat harness). | Go to step 2. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                                     | Yes   | No   |
|--|---|---|--|
| <b>2</b><br><b>CHECK AIRBAG HARNESS.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connectors (AB6, AB17, AB18) from airbag control module.<br>3) Disconnect the connectors (AB59) and (AB53) under the passenger's seat.<br>4) Connect the test harness AG connector (1AG) to the connectors (AB6, AB17, AB18).<br>5) Connect the connector (1AB) in the test harness AB to the connector (AB53).<br>6) Measure the resistance between connector (6AG) in the test harness AG and connector (2AB) in the test harness AB.<br><b>Connector &amp; terminal</b><br><b>(6AG) No. 9 — (2AB) No. 1:</b><br><b>(6AG) No. 11 — (2AB) No. 2:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 3.   | Replace the airbag rear harness along with body harness.   |
| <b>3</b><br><b>CHECK AIRBAG HARNESS.</b><br>Measure the resistance between connector (6AG) in the test harness AG and chassis ground, and between connector terminals (6AG).<br><b>Connector &amp; terminal</b><br><b>(6AG) No. 9 — Chassis ground:</b><br><b>(6AG) No. 9 — (6AG) No. 11:</b>  | Is the resistance less than 10 $\Omega$ ? | Go to step 4.   | Replace the airbag rear harness along with body harness.   |
| <b>4</b><br><b>CHECK AIRBAG HARNESS.</b><br>1) Turn the ignition switch to ON.<br>2) Measure the voltage between connector (2AB) in the test harness AB and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(2AB) No. 3 (+) — Chassis ground (-):</b>   | Is the voltage 9 V or more?               | Replace the occupant detection harness (seat harness). If defective is not improved, replace the occupant detection system (seat cushion & frame assembly), and then the airbag control module in this order. | Check the battery voltage and fuse. If there is no fault, replace the airbag rear harness along with body harness or replace the body harness. |

## Diagnostic Chart with Trouble Code

### AIRBAG SYSTEM (DIAGNOSTICS)

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#### **I: DTC 29 ODS FAILURE**

**NOTE:**

Refer to “Occupant Detection System” for details on DTC 29. <Ref. to OD(diag)-25, DTC 29 ODS FAILURE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

#### **J: DTC 2A ODS CALIBRATION ERROR**

**NOTE:**

Refer to “Occupant Detection System” for details on DTC 2A. <Ref. to OD(diag)-22, DTC 2A ODS CALIBRATION ERROR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

#### **K: DTC 2B ODS SYSTEM WRONG PARTS**

**NOTE:**

Refer to “Occupant Detection System” for details on DTC 2B. <Ref. to OD(diag)-22, DTC 2B ODS SYSTEM WRONG PARTS, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

#### **L: DTC 2C BELT TENSION SENSOR FAILURE**

**NOTE:**

Refer to “Occupant Detection System” for details on DTC 2C. <Ref. to OD(diag)-23, DTC 2C BELT TENSION SENSOR FAILURE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

#### **M: DTC 33 FRONT SUB SENSOR RH FAILURE**

**DTC DETECTING CONDITION:**

Front sub sensor (RH) is faulty.

If DTC 33 is displayed, the circuit within the front sub sensor (RH) is faulty.

Replace the front sub sensor (RH). <Ref. to AB-21, Front Sub Sensor.>

#### **N: DTC 34 FRONT SUB SENSOR LH FAILURE**

**DTC DETECTING CONDITION:**

Front sub sensor (LH) is faulty.

If DTC 34 is displayed, the circuit within the front sub sensor (LH) is faulty.

Replace the front sub sensor (LH). <Ref. to AB-21, Front Sub Sensor.>

#### **O: DTC 37 BUCKLE SWITCH RH FAILURE**

**NOTE:**

Refer to “Occupant Detection System” for details on DTC 37. <Ref. to OD(diag)-26, DTC 37 BUCKLE SWITCH RH FAILURE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

## P: DTC 39 SEAT BELT WARNING FAILURE

### DTC DETECTING CONDITION:

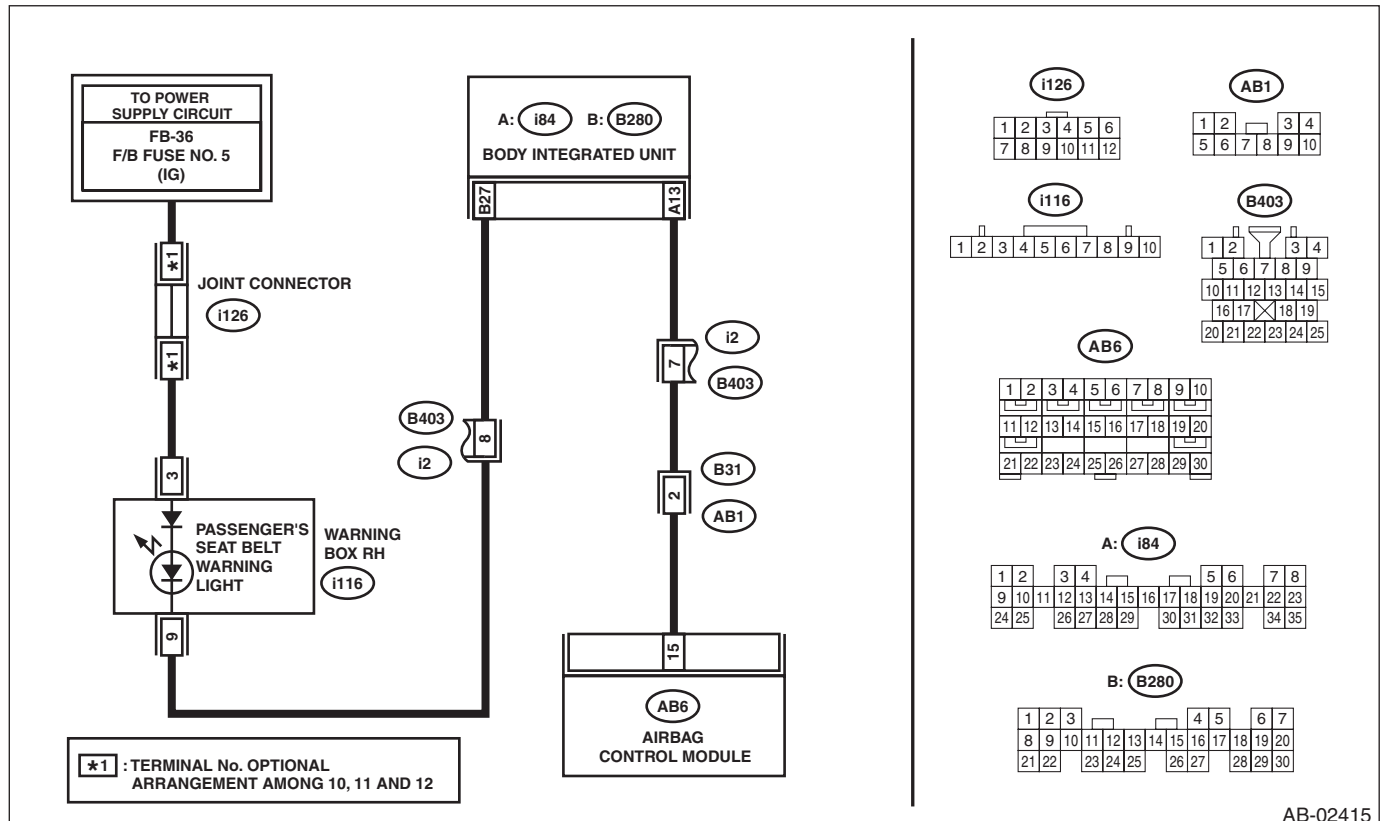
- Airbag control module is faulty.
- Body integrated unit is faulty.
- Harness circuits between body integrated unit and airbag control module are open, shorted or shorted to ground.

### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

### WIRING DIAGRAM:

Seat belt warning system <Ref. to WI-89, WIRING DIAGRAM, Seat Belt Warning System.>



AB-02415

| Step   | Check  | Yes                               | No  |
|--|--|-----------------------------------|---|
| <b>1 CHECK AIRBAG HARNESS.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connectors (AB6, AB17, AB18) from airbag control module.<br>3) Connect the battery ground terminal and turn the ignition switch to ON.                        | Does the passenger's seat belt warning light blink for 6 seconds and go off? | Go to step 3.                     | Go to step 2.   |
| <b>2 CHECK AIRBAG HARNESS.</b><br>1) Turn the ignition switch to OFF.<br>2) Connect the test harness AG connector (1AG) to the connectors (AB6, AB17, AB18).<br>3) Measure the resistance between connector (2AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal (2AG) No. 10 — Chassis ground:</b> | Is the resistance 1 MΩ or more?  | Replace the body integrated unit. | Repair the bulk-head harness. Or replace the airbag main harness along with body harness. |



## Diagnostic Chart with Trouble Code

### AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check   | Yes   | No  |
|--|---|---|---|
| <b>3</b><br><b>CHECK AIRBAG HARNESS.</b><br>1) Connect the connectors (7AG) and (8AG) in the test harness AG in the condition of step 2.<br>2) Turn the ignition switch to ON.   | Does the passenger's seat belt warning light blink for 6 seconds, then repeatedly light and go off? | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.> | Go to step 4.   |
| <b>4</b><br><b>CHECK AIRBAG HARNESS.</b><br>1) Disconnect the connectors (7AG) and (8AG) in the test harness AG in the condition of step 3.<br>2) Measure the resistance between connector (2AG) in the test harness AG and connector (i84).<br><b>Connector &amp; terminal</b><br><b>(2AG) No. 10 — (i84) No. 13:</b> | Is the resistance less than 10 $\Omega$ ?   | Replace the body integrated unit.   | Repair the bulk-head harness. Or replace the airbag main harness along with body harness. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## Q: DTC 41 SIDE AIRBAG RH FAILURE

### DTC DETECTING CONDITION:

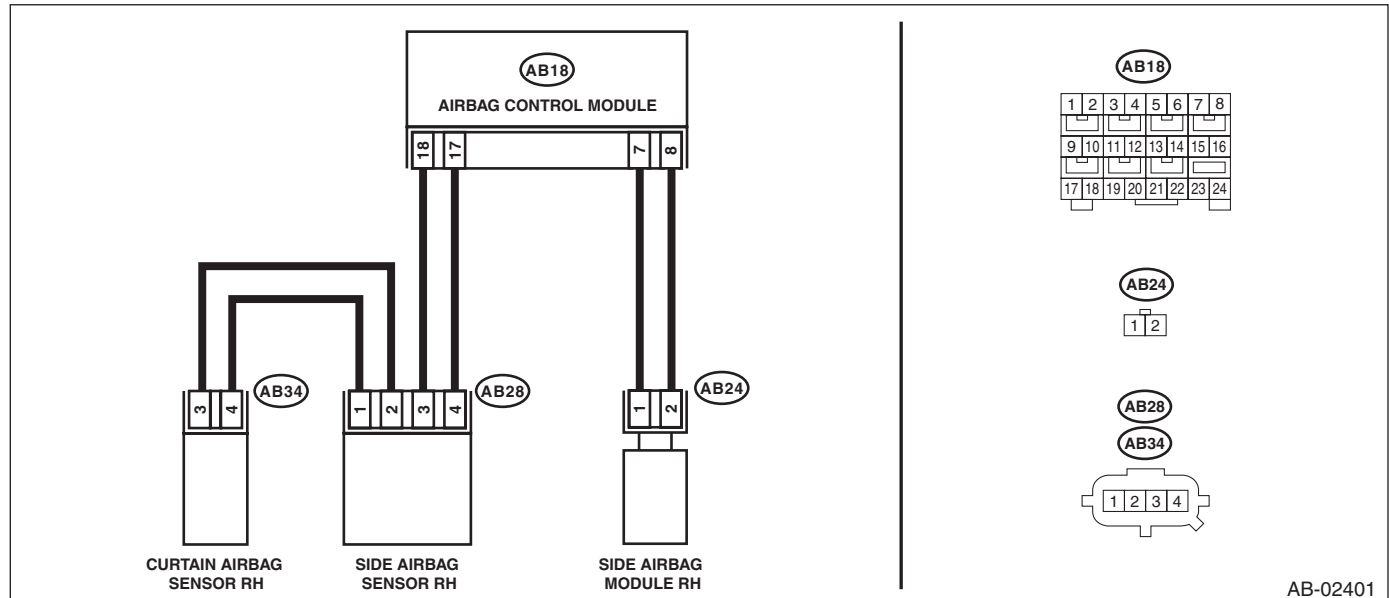
- Side airbag harness (RH) is faulty.
- Side airbag module (RH) is faulty.
- Airbag control module is faulty.

### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step  | Check  | Yes  | No            |
|---|--|--|---------------|
| <b>1</b><br><b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module, side airbag module RH and the side airbag sensor RH.  | Is there poor contact?   | Replace the airbag rear harness along with body harness.                           | Go to step 2. |
| <b>2</b><br><b>CHECK SIDE AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB24), and connect the connector (1F) in test harness F to connector (AB24).<br>3) Connect the airbag resistor to the connector (3F) of test harness F.<br>4) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the side airbag module (RH). <Ref. to AB-16, REMOVAL, Side Airbag Module.> | Go to step 3. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                                     | Yes  | No   |
|--|---|--|--|
| <b>3</b><br><b>CHECK AIRBAG REAR HARNESS (SIDE AIRBAG MODULE HARNESS RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB26) from seat belt pretensioner (RH).<br>3) Disconnect the connector (AB33) from curtain airbag module (RH).<br>4) Disconnect the airbag resistor from test harness F.<br>5) Disconnect the connectors (AB6, AB17, AB18) from airbag control module.<br>6) Connect the connector (1AG) in the test harness AG to the connectors (AB6, AB17, AB18).<br>7) Measure the resistance between connector (5AG) in the test harness AG and connector (3F) in the test harness F.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 5 — (3F) No. 4:</b><br><b>(5AG) No. 7 — (3F) No. 3:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 4.  | Replace the airbag rear harness along with body harness. |
| <b>4</b><br><b>CHECK AIRBAG REAR HARNESS (SIDE AIRBAG MODULE HARNESS RH).</b><br>Measure the resistance between connector (5AG) terminals in the test harness AG.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 5 — (5AG) No. 7:</b>  | Is the resistance 1 M $\Omega$ or more?   | Go to step 5.  | Replace the airbag rear harness along with body harness. |
| <b>5</b><br><b>CHECK AIRBAG REAR HARNESS (SIDE AIRBAG MODULE HARNESS RH).</b><br>Measure the resistance between connector (5AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 5 — Chassis ground:</b><br><b>(5AG) No. 7 — Chassis ground:</b>  | Is the resistance 1 M $\Omega$ or more?   | Go to step 6.  | Replace the airbag rear harness along with body harness. |
| <b>6</b><br><b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.   | Is the same DTC displayed?                | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.>  | Go to step 7.  |
| <b>7</b><br><b>CHECK FOR ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?               | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## R: DTC 42 SIDE AIRBAG LH FAILURE

### DTC DETECTING CONDITION:

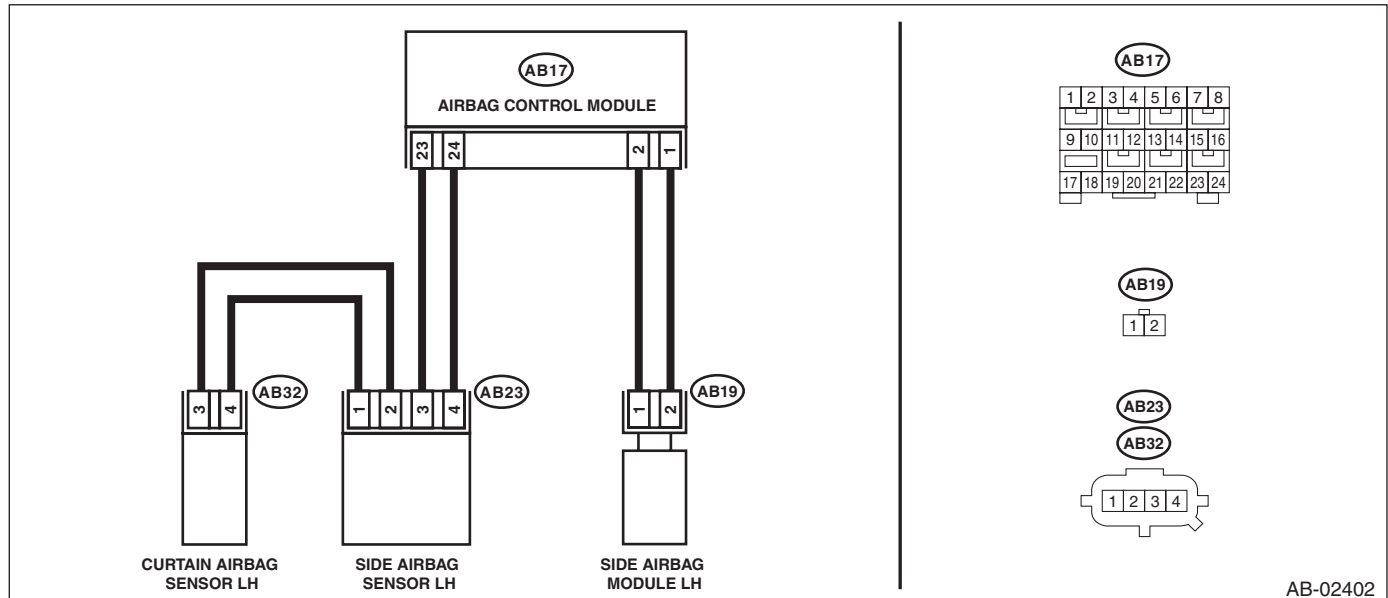
- Side airbag harness (LH) is faulty.
- Side airbag module (LH) is faulty.
- Airbag control module is faulty.

### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step  | Check  | Yes  | No            |
|---|--|--|---------------|
| <b>1</b><br><b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module, side airbag module LH and the side airbag sensor LH.  | Is there poor contact?   | Replace the airbag rear harness along with body harness.                           | Go to step 2. |
| <b>2</b><br><b>CHECK SIDE AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB19), and connect the connector (1F) in test harness F to connector (AB19).<br>3) Connect the airbag resistor to the connector (3F) of test harness F.<br>4) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the side airbag module (LH). <Ref. to AB-16, REMOVAL, Side Airbag Module.> | Go to step 3. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                                     | Yes  | No   |
|--|---|--|--|
| <b>3 CHECK AIRBAG REAR HARNESS (SIDE AIRBAG MODULE HARNESS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB21) from seat belt pretensioner (LH).<br>3) Disconnect the connector (AB31) from curtain airbag module (LH).<br>4) Disconnect the airbag resistor from test harness.<br>5) Disconnect the connectors (AB6, AB17, AB18) from airbag control module.<br>6) Connect the connector (1AG) in the test harness AG to the connectors (AB6, AB17, AB18).<br>7) Measure the resistance between connector (5AG) in the test harness AG and connector (3F) in the test harness F.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 1 — (3F) No. 3:</b><br><b>(5AG) No. 3 — (3F) No. 4:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 4.  | Replace the airbag rear harness along with body harness. |
| <b>4 CHECK AIRBAG REAR HARNESS (SIDE AIRBAG MODULE HARNESS LH).</b><br>Measure the resistance between connector (5AG) terminals in the test harness AG.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 1 — (5AG) No. 3:</b>  | Is the resistance 1 M $\Omega$ or more?   | Go to step 5.  | Replace the airbag rear harness along with body harness. |
| <b>5 CHECK AIRBAG REAR HARNESS (SIDE AIRBAG MODULE HARNESS LH).</b><br>Measure the resistance between connector (5AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 1 — Chassis ground:</b><br><b>(5AG) No. 3 — Chassis ground:</b>  | Is the resistance 1 M $\Omega$ or more?   | Go to step 6.  | Replace the airbag rear harness along with body harness. |
| <b>6 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.   | Is the same DTC displayed?                | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.>  | Go to step 7.  |
| <b>7 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?               | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## S: DTC 45 SIDE AIRBAG RH FAILURE

### DTC DETECTING CONDITION:

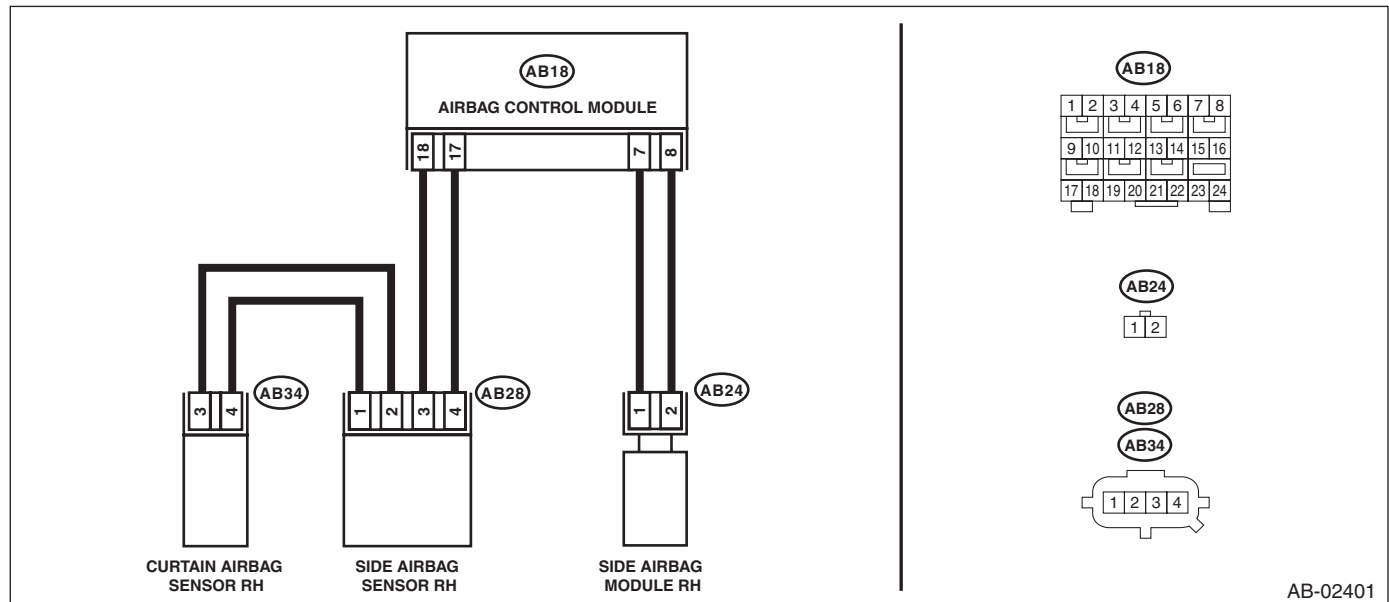
- Side airbag harness (RH) is shorted to power supply.
- Airbag control module is faulty.

### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step   | Check  | Yes  | No            |
|--|--|--|---------------|
| 1<br><b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module, side airbag module RH and the side airbag sensor RH.  | Is there poor contact?   | Replace the airbag rear harness along with body harness.                           | Go to step 2. |
| 2<br><b>CHECK SIDE AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB24), and connect the connector (1F) in test harness F to connector (AB24).<br>3) Connect the airbag resistor to the connector (3F) of test harness F.<br>4) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the side airbag module (RH). <Ref. to AB-16, REMOVAL, Side Airbag Module.> | Go to step 3. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                         | Yes  | No   |
|---|-------------------------------|--|--|
| <b>3</b><br><b>CHECK AIRBAG REAR HARNESS (SIDE AIRBAG MODULE HARNESS RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB26) from seat belt pretensioner (RH).<br>3) Disconnect the connector (AB33) from curtain airbag module (RH).<br>4) Disconnect the airbag resistor from test harness.<br>5) Disconnect the connectors (AB6, AB17, AB18) from airbag control module.<br>6) Connect the connector (1AG) in the test harness AG to the connectors (AB6, AB17, AB18).<br>7) Connect the battery ground terminal and turn the ignition switch to ON.<br>8) Measure the voltage between connector (5AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 5 (+) — Chassis ground (-):</b><br><b>(5AG) No. 7 (+) — Chassis ground (-):</b> | Is the voltage less than 1 V? | Go to step 4.  | Replace the airbag rear harness along with body harness. |
| <b>4</b><br><b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.  | Is the same DTC displayed?    | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.>  | Go to step 5.  |
| <b>5</b><br><b>CHECK FOR ANY OTHER DTC ON DISPLAY.</b>  | Is any other DTC displayed?   | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |

## Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

## T: DTC 46 SIDE AIRBAG LH FAILURE

**DTC DETECTING CONDITION:**

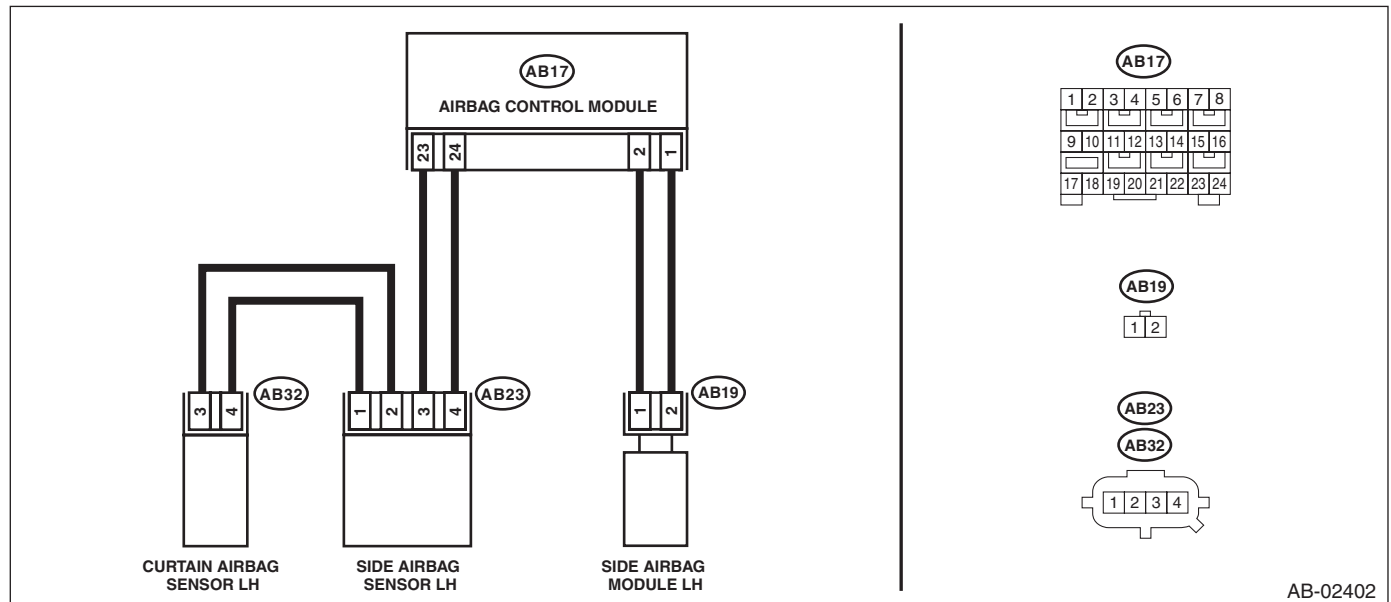
- Side airbag harness (LH) is shorted to power supply.
- Airbag control module is faulty.

**CAUTION:**

**Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>**

### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



|   | Step  | Check  | Yes  | No            |
|---|---|--|--|---------------|
| 1 | <b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module, side airbag module LH and the side airbag sensor LH.  | Is there poor contact?   | Replace the airbag rear harness along with body harness.                           | Go to step 2. |
| 2 | <b>CHECK SIDE AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB19), and connect the connector (1F) in test harness F to connector (AB19).<br>3) Connect the airbag resistor to the connector (3F) of test harness F.<br>4) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the side airbag module (LH). <Ref. to AB-16, REMOVAL, Side Airbag Module.> | Go to step 3. |



# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                         | Yes  | No   |
|---|-------------------------------|--|--|
| <b>3 CHECK AIRBAG REAR HARNESS (SIDE AIRBAG MODULE HARNESS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB21) from seat belt pretensioner (LH).<br>3) Disconnect the connector (AB31) from curtain airbag module (LH).<br>4) Disconnect the airbag resistor from test harness.<br>5) Disconnect the connectors (AB6, AB17, AB18) from airbag control module.<br>6) Connect the connector (1AG) in the test harness AG to the connectors (AB6, AB17, AB18).<br>7) Connect the battery ground terminal and turn the ignition switch to ON.<br>8) Measure the voltage between connector (5AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 3 (+) — Chassis ground (-):</b><br><b>(5AG) No. 1 (+) — Chassis ground (-):</b> | Is the voltage less than 1 V? | Go to step 4.  | Replace the airbag rear harness along with body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.  | Is the same DTC displayed?    | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.>  | Go to step 5.  |
| <b>5 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>  | Is any other DTC displayed?   | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |

## **U: DTC 53 SIDE AIRBAG SENSOR RH FAILURE**

### **DTC DETECTING CONDITION:**

Side airbag sensor (RH) is faulty.

When DTC 53 is displayed, the circuit within the side airbag sensor (RH) is faulty.

Replace the side airbag sensor (RH). <Ref. to AB-22, Side Airbag Sensor.>

## **V: DTC 54 SIDE AIRBAG SENSOR LH FAILURE**

### **DTC DETECTING CONDITION:**

Side airbag sensor (LH) is faulty.

When DTC 54 is displayed, the circuit within the side airbag sensor (LH) is faulty.

Replace the side airbag sensor (LH). <Ref. to AB-22, Side Airbag Sensor.>

## **W: DTC 55 SIDE CURTAIN AIRBAG FIRING OUTPUT**

This DTC is displayed when the side airbag module and curtain airbag module are deployed.

Once this DTC is displayed, the memory cannot be cleared. Replace the following parts.

- Airbag control module <Ref. to AB-20, Airbag Control Module.>
- Front seat with side airbag module (operating side) <Ref. to SE-7, Front Seat.>
- Side airbag sensor (operating side) <Ref. to AB-22, Side Airbag Sensor.>
- Curtain airbag module (operating side) <Ref. to AB-18, Curtain Airbag Module.>
- Curtain airbag sensor (operating side) <Ref. to AB-23, Curtain Airbag Sensor.>
- Satellite safing sensor

## **X: DTC 58 CURTAIN AIRBAG SENSOR RH FAILURE**

### **DTC DETECTING CONDITION:**

Curtain airbag sensor (RH) is faulty.

If DTC 58 is displayed, the circuit within the curtain airbag sensor (RH) is faulty.

Replace the curtain airbag sensor (RH). <Ref. to AB-23, Curtain Airbag Sensor.>

## **Y: DTC 59 CURTAIN AIRBAG SENSOR LH FAILURE**

### **DTC DETECTING CONDITION:**

Curtain airbag sensor (LH) is faulty.

If DTC 59 is displayed, the circuit within the curtain airbag sensor (LH) is faulty.

Replace the curtain airbag sensor (LH). <Ref. to AB-23, Curtain Airbag Sensor.>

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### Z: DTC 61 BELT PRETENSIONER RH FAILURE

#### DTC DETECTING CONDITION:

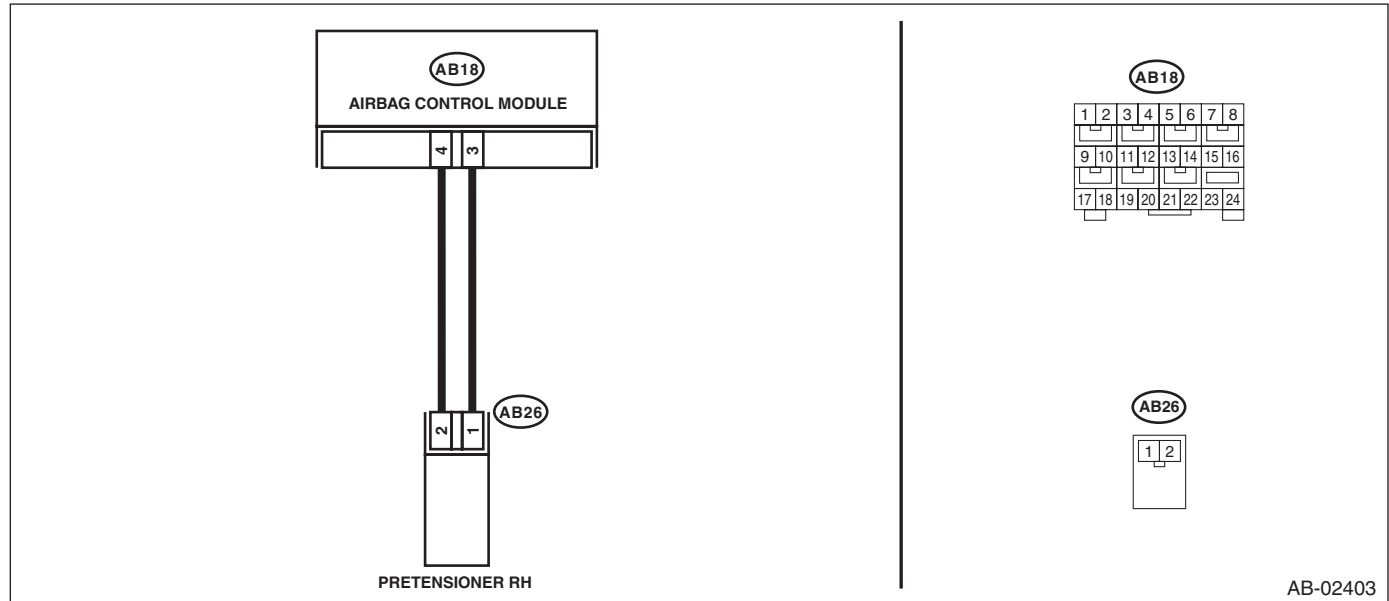
- Seat belt pretensioner (RH) circuit is open, shorted or shorted to ground.
- Airbag control module is faulty.
- Pretensioner is faulty.
- Pretensioner harness is faulty.

#### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

#### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step  | Check  | Yes  | No            |
|---|--|--|---------------|
| 1<br><b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module and the seat belt pretensioner RH.  | Is there poor contact?   | Replace the airbag rear harness along with body harness.                   | Go to step 2. |
| 2<br><b>CHECK SEAT BELT PRETENSIONER.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB26) from seat belt pretensioner (RH).<br>3) Connect the connector (1N) in the test harness N to the connector (AB26).<br>4) Connect the airbag resistor to the connector (2N) of test harness N.<br>5) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the seat belt pretensioner (RH). <Ref. to SB-18, Front Seat Belt.> | Go to step 3. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                                     | Yes  | No   |
|--|---|--|--|
| <b>3</b><br><b>CHECK AIRBAG REAR HARNESS (PRE-TENSIONER HARNESS RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the airbag resistor from the connector (2N) of test harness N.<br>3) Disconnect connector (AB24) from side airbag module (RH).<br>4) Disconnect the connector (AB33) from curtain airbag module (RH).<br>5) Disconnect the connectors (AB6, AB17, AB18) from airbag control module.<br>6) Connect the test harness AG connector (1AG) to connectors (AB18, AB17, AB6).<br>7) Measure the resistance between connector (3AG) in the test harness AG and connector (2N) in the test harness N.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 18 — (2N) No. 2:</b><br><b>(3AG) No. 20 — (2N) No. 1:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 4.  | Replace the airbag rear harness along with body harness. |
| <b>4</b><br><b>CHECK AIRBAG REAR HARNESS (PRE-TENSIONER HARNESS RH).</b><br>Measure the resistance between connector (3AG) terminals in the test harness AG.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 18 — (3AG) No. 20:</b>   | Is the resistance 1 M $\Omega$ or more?   | Go to step 5.  | Replace the airbag rear harness along with body harness. |
| <b>5</b><br><b>CHECK AIRBAG REAR HARNESS (PRE-TENSIONER HARNESS RH).</b><br>Measure the resistance between connector (3AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 18 — Chassis ground:</b><br><b>(3AG) No. 20 — Chassis ground:</b>   | Is the resistance 1 M $\Omega$ or more?   | Go to step 6.  | Replace the airbag rear harness along with body harness. |
| <b>6</b><br><b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.   | Is the same DTC displayed?                | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.>  | Go to step 7.  |
| <b>7</b><br><b>CHECK FOR ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?               | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### AA:DTC 62 BELT PRETENSIONER LH FAILURE

#### DTC DETECTING CONDITION:

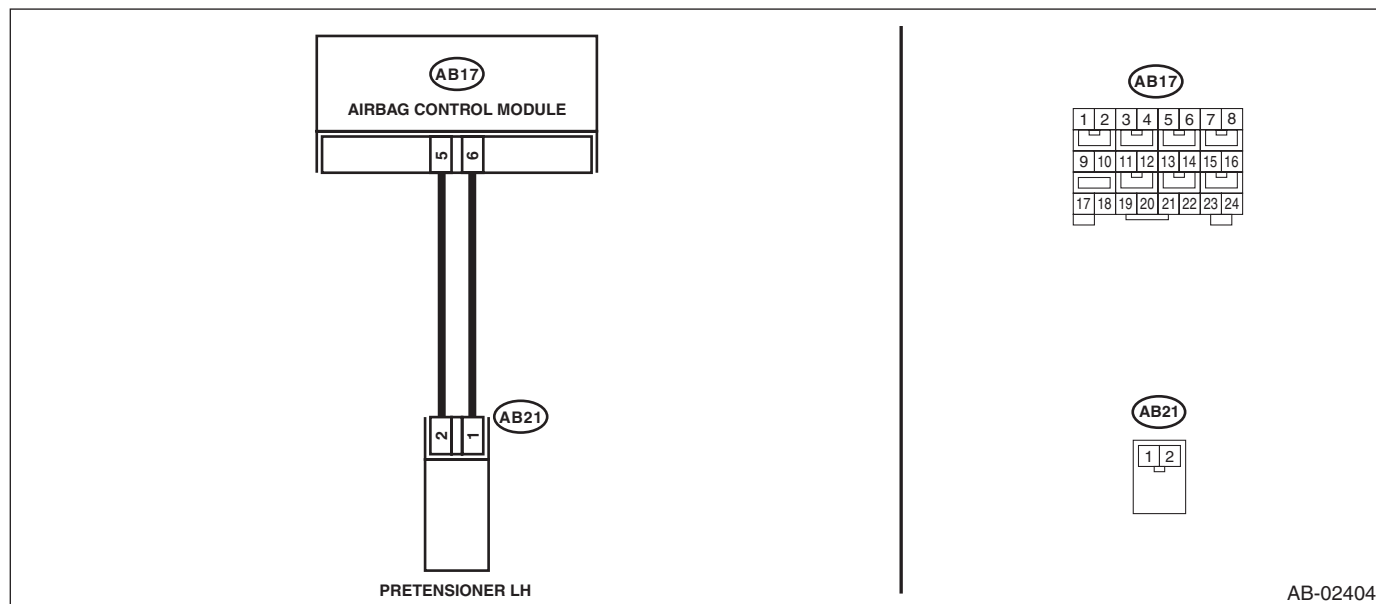
- Seat belt pretensioner (LH) circuit is open, shorted or shorted to ground.
- Airbag control module is faulty.
- Pretensioner is faulty.
- Pretensioner harness is faulty.

#### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

#### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step  | Check  | Yes  | No            |
|---|--|--|---------------|
| 1<br><b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module and the seat belt pretensioner LH.  | Is there poor contact?   | Replace the airbag rear harness along with body harness.                   | Go to step 2. |
| 2<br><b>CHECK SEAT BELT PRETENSIONER.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB21) from seat belt pretensioner (LH).<br>3) Connect the connector (1N) in the test harness N to the connector (AB21).<br>4) Connect the airbag resistor to the connector (2N) of test harness N.<br>5) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the seat belt pretensioner (LH). <Ref. to SB-18, Front Seat Belt.> | Go to step 3. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                                     | Yes  | No   |
|---|---|--|--|
| <b>3 CHECK AIRBAG REAR HARNESS (PRE-TENSIONER HARNESS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the airbag resistor from the connector (2N) of test harness N.<br>3) Disconnect connector (AB19) from side airbag module (LH).<br>4) Disconnect the connector (AB31) from curtain airbag module (LH).<br>5) Disconnect the connectors (AB6, AB17, AB18) from airbag control module.<br>6) Connect the connector (1AG) in the test harness AG to the connectors (AB6, AB17, AB18).<br>7) Measure the resistance between connector (3AG) in the test harness AG and connector (2N) in the test harness N.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 12 — (2N) No. 2:</b><br><b>(3AG) No. 10 — (2N) No. 1:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 4.  | Replace the airbag rear harness along with body harness. |
| <b>4 CHECK AIRBAG REAR HARNESS (PRE-TENSIONER HARNESS LH).</b><br>Measure the resistance between connector (3AG) terminals in the test harness AG.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 10 — (3AG) No. 12:</b>  | Is the resistance 1 M $\Omega$ or more?   | Go to step 5.  | Replace the airbag rear harness along with body harness. |
| <b>5 CHECK AIRBAG REAR HARNESS (PRE-TENSIONER HARNESS LH).</b><br>Measure the resistance between connector (3AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 10 — Chassis ground:</b><br><b>(3AG) No. 12 — Chassis ground:</b>  | Is the resistance 1 M $\Omega$ or more?   | Go to step 6.  | Replace the airbag rear harness along with body harness. |
| <b>6 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.  | Is the same DTC displayed?                | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.>  | Go to step 7.  |
| <b>7 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>  | Is any other DTC displayed?               | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### AB:DTC 65 BELT PRETENSIONER RH FAILURE

#### DTC DETECTING CONDITION:

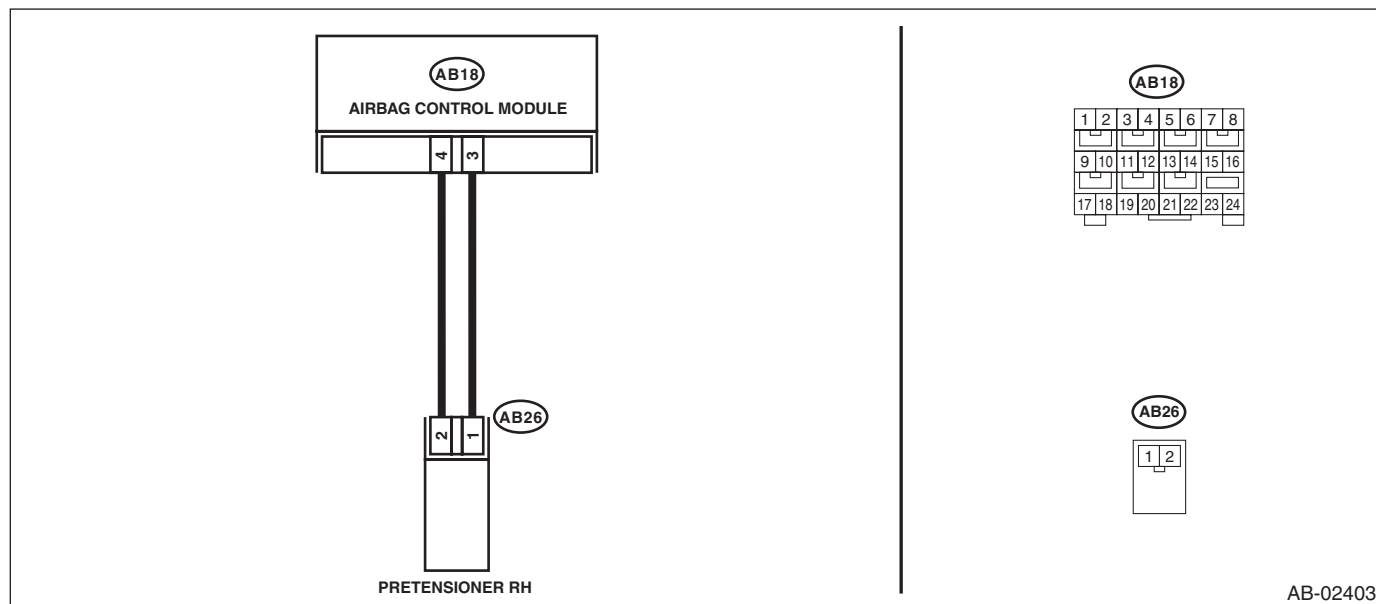
- Seat belt pretensioner (RH) circuit is shorted to power supply.
- Pretensioner is faulty.
- Pretensioner harness is faulty.
- Airbag control module is faulty.

#### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

#### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step  | Check  | Yes  | No            |
|---|--|--|---------------|
| 1<br><b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module and the seat belt pretensioner RH.  | Is there poor contact?   | Replace the airbag rear harness along with body harness.                   | Go to step 2. |
| 2<br><b>CHECK SEAT BELT PRETENSIONER.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB26) from seat belt pretensioner (RH).<br>3) Connect the connector (1N) in the test harness N to the connector (AB26).<br>4) Connect the airbag resistor to the connector (2N) of test harness N.<br>5) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the seat belt pretensioner (RH). <Ref. to SB-18, Front Seat Belt.> | Go to step 3. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                         | Yes  | No   |
|--|-------------------------------|--|--|
| <b>3 CHECK AIRBAG REAR HARNESS (PRE-TENSIONER HARNESS RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the airbag resistor from the connector (2N) of test harness N.<br>3) Disconnect connector (AB24) from side airbag module (RH).<br>4) Disconnect the connector (AB33) from curtain airbag module (RH).<br>5) Disconnect the connectors (AB6, AB17, AB18) from airbag control module.<br>6) Connect the connector (1AG) in the test harness AG to the connectors (AB6, AB17, AB18).<br>7) Connect the battery ground terminal and turn the ignition switch to ON.<br>8) Measure the voltage between connector (3AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 20 (+) — Chassis ground (-):</b><br><b>(3AG) No. 18 (+) — Chassis ground (-):</b> | Is the voltage less than 1 V? | Go to step 4.  | Replace the airbag rear harness along with body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.   | Is the same DTC displayed?    | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.>  | Go to step 5.  |
| <b>5 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?   | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |



# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### AC:DTC 66 BELT PRETENSIONER LH FAILURE

#### DTC DETECTING CONDITION:

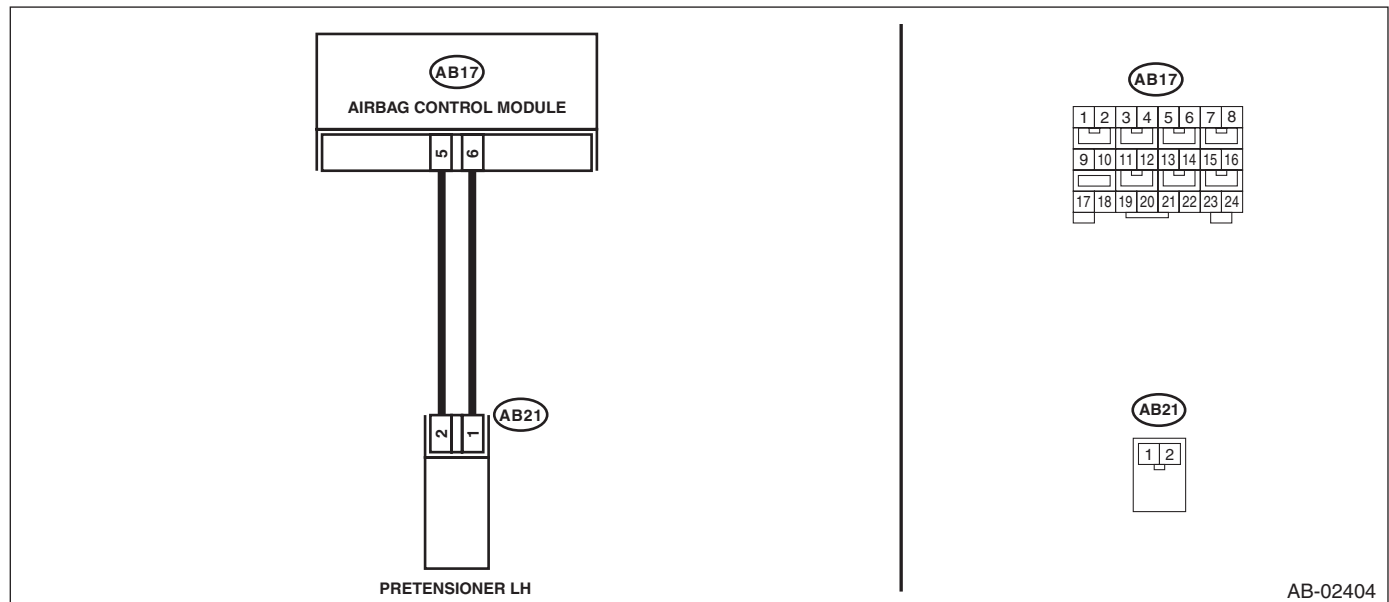
- Seat belt pretensioner (LH) circuit is shorted to power supply.
- Pretensioner is faulty.
- Pretensioner harness is faulty.
- Airbag control module is faulty.

#### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

#### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step  | Check  | Yes  | No            |
|---|--|--|---------------|
| 1<br><b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module and the seat belt pretensioner LH.  | Is there poor contact?   | Replace the airbag rear harness along with body harness.                   | Go to step 2. |
| 2<br><b>CHECK SEAT BELT PRETENSIONER.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB21) from seat belt pretensioner (LH).<br>3) Connect the connector (1N) in the test harness N to the connector (AB21).<br>4) Connect the airbag resistor to the connector (2N) of test harness N.<br>5) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the seat belt pretensioner (LH). <Ref. to SB-18, Front Seat Belt.> | Go to step 3. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                         | Yes  | No   |
|--|-------------------------------|--|--|
| <b>3 CHECK AIRBAG REAR HARNESS (PRE-TENSIONER HARNESS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the airbag resistor from the connector (2N) of test harness N.<br>3) Disconnect connector (AB19) from side airbag module (LH).<br>4) Disconnect the connector (AB31) from curtain airbag module (LH).<br>5) Disconnect the connectors (AB6, AB17, AB18) from airbag control module.<br>6) Connect the connector (1AG) in the test harness AG to the connectors (AB6, AB17, AB18).<br>7) Connect the battery ground terminal and turn the ignition switch to ON.<br>8) Measure the voltage between connector (3AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 10 (+) — Chassis ground (-):</b><br><b>(3AG) No. 12 (+) — Chassis ground (-):</b> | Is the voltage less than 1 V? | Go to step 4.  | Replace the airbag rear harness along with body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.   | Is the same DTC displayed?    | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.>  | Go to step 5.  |
| <b>5 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?   | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### AD:DTC 71 DRIVER'S AIRBAG FAILURE

#### DTC DETECTING CONDITION:

- Airbag main harness circuit is open, shorted or shorted to ground.
- Airbag module harness (driver's side) circuit is open, shorted or shorted to ground.
- Roll connector circuit is open, shorted or shorted to ground.
- Driver's airbag module is faulty.
- Airbag control module is faulty.

#### CAUTION:

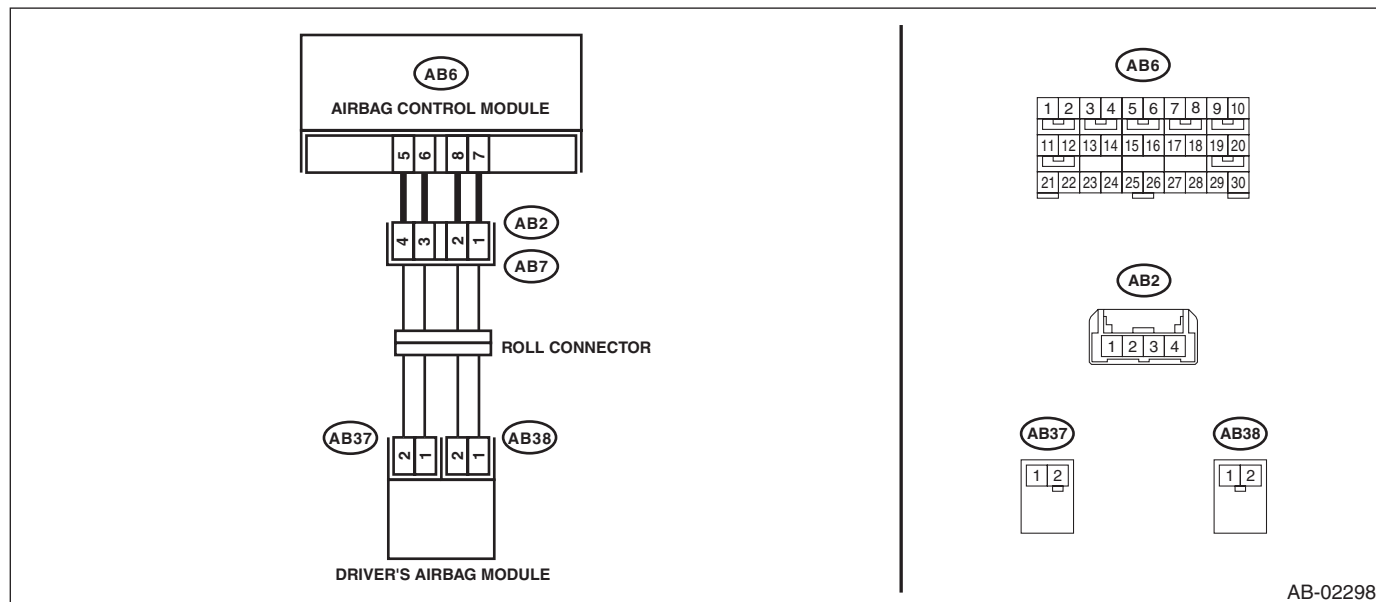
Before performing diagnosis, refer to "CAUTION" in "General Description". <Ref. to AB(diag)-4, CAUTION, General Description.>

#### NOTE:

Prior to starting work, prepare two AIRBAG RESISTORS (98299PA040).

#### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step   | Check  | Yes  | No            |
|--|--|--|---------------|
| <b>1</b><br><b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module and the driver's airbag module.   | Is there poor contact?   | Replace the airbag main harness along with body harness.                     | Go to step 2. |
| <b>2</b><br><b>CHECK DRIVER'S AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Remove the driver's airbag module.<br>3) Connect the connector (1N) in the test harness N to the connector (AB38).<br>4) Connect the airbag resistor to the connector (2N) of test harness N.<br>5) Connect the connector (1Q) in the test harness Q to connector (AB37).<br>6) Connect the airbag resistor to the connector (2Q) in the test harness Q.<br>7) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the driver's airbag module. <Ref. to AB-14, Driver's Airbag Module.> | Go to step 3. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check  | Yes  | No   |
|---|--|--|--|
| <b>3</b><br><b>CHECK ROLL CONNECTOR.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the test harness N from connector (AB38).<br>3) Disconnect the test harness Q from connector (AB37).<br>4) Remove the instrument panel lower cover and disconnect the connector (AB7) from (AB2).<br>5) Connect the connector (1P) in the test harness P to connector (AB2).<br>6) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P.<br>7) Connect the battery ground terminal and turn the ignition switch to ON.  | Does the airbag warning light illuminate for six seconds and go off? | Replace the roll connector. <Ref. to AB-25, Roll Connector.>               | Go to step 4.  |
| <b>4</b><br><b>CHECK AIRBAG MAIN HARNESS (DRIVER'S AIRBAG HARNESS).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P.<br>3) Remove the console side panel lower RH and disconnect the connector (AB9).<br>4) Disconnect the connectors (AB6, AB17, AB18) from the airbag control module, and connect the test harness AG connector (1AG).<br>5) Measure the resistance between connector (3AG) in the test harness AG and connectors (2P) and (3P) in the test harness P.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 2 — (3P) No. 3:</b><br><b>(3AG) No. 4 — (3P) No. 4:</b> | Is the resistance less than 10 $\Omega$ ?                            | Go to step 5.  | Replace the airbag main harness along with body harness. |
| <b>5</b><br><b>CHECK AIRBAG MAIN HARNESS (DRIVER'S AIRBAG HARNESS).</b><br>Measure the resistance between connectors (3AG) in the test harness AG, and between connector (3AG) and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 1 — (3AG) No. 2:</b><br><b>(3AG) No. 1 — (3AG) No. 4:</b><br><b>(3AG) No. 2 — (3AG) No. 3:</b><br><b>(3AG) No. 3 — (3AG) No. 4:</b><br><b>(3AG) No. 1 — (3AG) No. 3:</b><br><b>(3AG) No. 3 — Chassis ground:</b><br><b>(3AG) No. 1 — Chassis ground:</b><br><b>(3AG) No. 2 — (3AG) No. 4:</b><br><b>(3AG) No. 2 — Chassis ground:</b><br><b>(3AG) No. 4 — Chassis ground:</b>   | Is the resistance 1 M $\Omega$ or more?                              | Go to step 6.  | Replace the airbag main harness along with body harness. |
| <b>6</b><br><b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.  | Is the same DTC displayed?   | Replace the airbag control module. <Ref. to AB-20, Airbag Control Module.> | Go to step 7.  |

## Diagnostic Chart with Trouble Code

### AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                       | Yes  | No                         |
|---|-----------------------------|--|----------------------------|
| 7<br><b>CHECK FOR ANY OTHER DTC ON DISPLAY.</b> | Is any other DTC displayed? | Check DTC using<br>“List of Diagnostic<br>Trouble Code<br>(DTC)”. <Ref. to<br>AB(diag)-35, List<br>of Diagnostic Trou-<br>ble Code (DTC).> | Finish the diagno-<br>sis. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## AE:DTC 72 PASSENGER'S AIRBAG FAILURE

### DTC DETECTING CONDITION:

- Airbag main harness circuit is open, shorted or shorted to ground.
- Airbag module harness (Passenger's side) circuit is open, shorted or shorted to ground.
- Passenger's airbag module is faulty.
- Airbag control module is faulty.

### CAUTION:

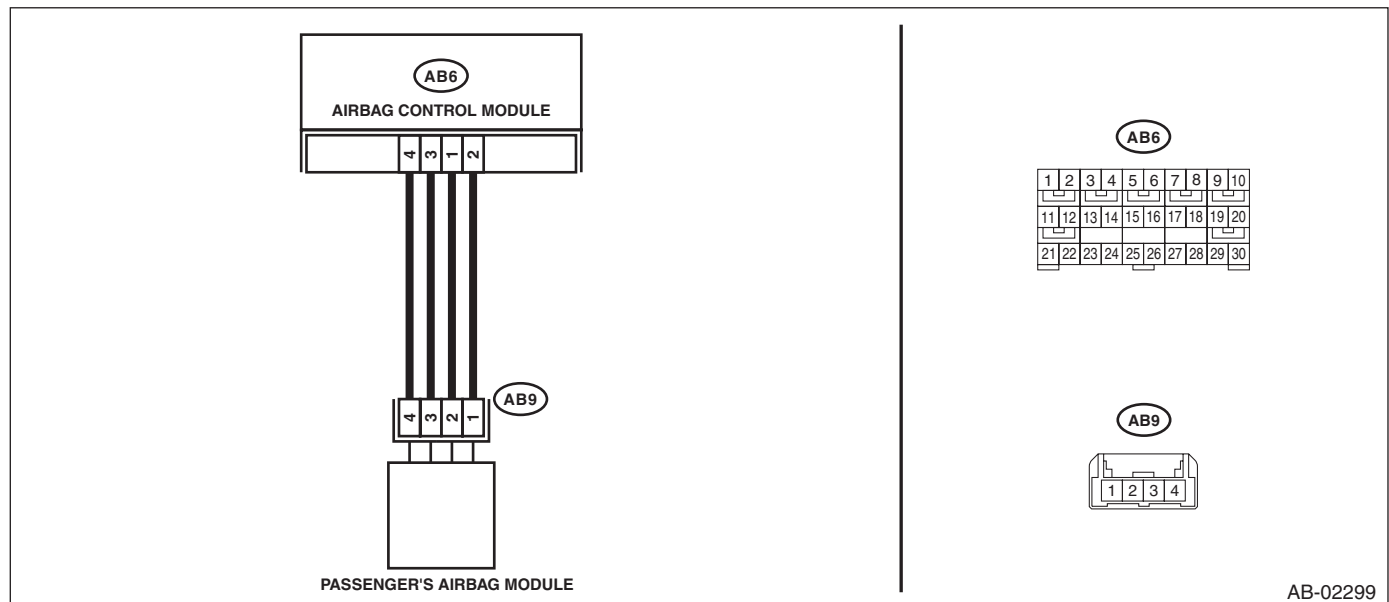
Before performing diagnosis, refer to "CAUTION" in "General Description". <Ref. to AB(diag)-4, CAUTION, General Description.>

### NOTE:

Prior to starting work, prepare two AIRBAG RESISTORS (98299PA040).

### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step   | Check  | Yes  | No            |
|--|--|--|---------------|
| 1<br><b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module and the passenger's airbag module.   | Is there poor contact?   | Replace the airbag main harness along with body harness.                           | Go to step 2. |
| 2<br><b>CHECK PASSENGER'S AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Remove the console side panel lower RH and disconnect the connector (AB9).<br>3) Connect the connector (1P) in the test harness P to connector (AB9).<br>4) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P.<br>5) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the passenger's airbag module. <Ref. to AB-15, Passenger's Airbag Module.> | Go to step 3. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                                     | Yes  | No   |
|---|---|--|--|
| <b>3 CHECK AIRBAG MAIN HARNESS (PASSENGER'S AIRBAG HARNESS).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P.<br>3) Remove the instrument panel lower cover and disconnect the connector (AB7) from (AB2).<br>4) Disconnect the connectors (AB6, AB17, AB18) from the airbag control module, and connect the connector (1AG) in the test harness AG.<br>5) Measure the resistance between connector (3AG) in the test harness AG and connectors (2P) and (3P) in the test harness P.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 8 — (3P) No. 3:</b><br><b>(3AG) No. 6 — (3P) No. 4:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 4.  | Replace the airbag main harness along with body harness. |
| <b>4 CHECK AIRBAG MAIN HARNESS (PASSENGER'S AIRBAG HARNESS).</b><br>Measure the resistance between connectors (3AG) in the test harness AG, and between connector (3AG) and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 9 — (3AG) No. 7:</b><br><b>(3AG) No. 9 — Chassis ground:</b><br><b>(3AG) No. 7 — Chassis ground:</b><br><b>(3AG) No. 8 — (3AG) No. 6:</b><br><b>(3AG) No. 8 — Chassis ground:</b><br><b>(3AG) No. 6 — Chassis ground:</b><br><b>(3AG) No. 9 — (3AG) No. 6:</b><br><b>(3AG) No. 9 — (3AG) No. 8:</b><br><b>(3AG) No. 7 — (3AG) No. 8:</b><br><b>(3AG) No. 6 — (3AG) No. 7:</b>  | Is the resistance 1 M $\Omega$ or more?   | Go to step 5.  | Replace the airbag main harness along with body harness. |
| <b>5 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.  | Is the same DTC displayed?                | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.>  | Go to step 6.  |
| <b>6 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>  | Is any other DTC displayed?               | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |

## Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

## AF:DTC 75 DRIVER'S AIRBAG FAILURE

### DTC DETECTING CONDITION:

- Airbag main harness circuit (driver's side) is shorted to power supply.
- Airbag module harness circuit (driver's side) is shorted to power supply.
- Roll connector is shorted to power supply.
- Driver's airbag module is faulty.
- Airbag control module is faulty.

**CAUTION:**

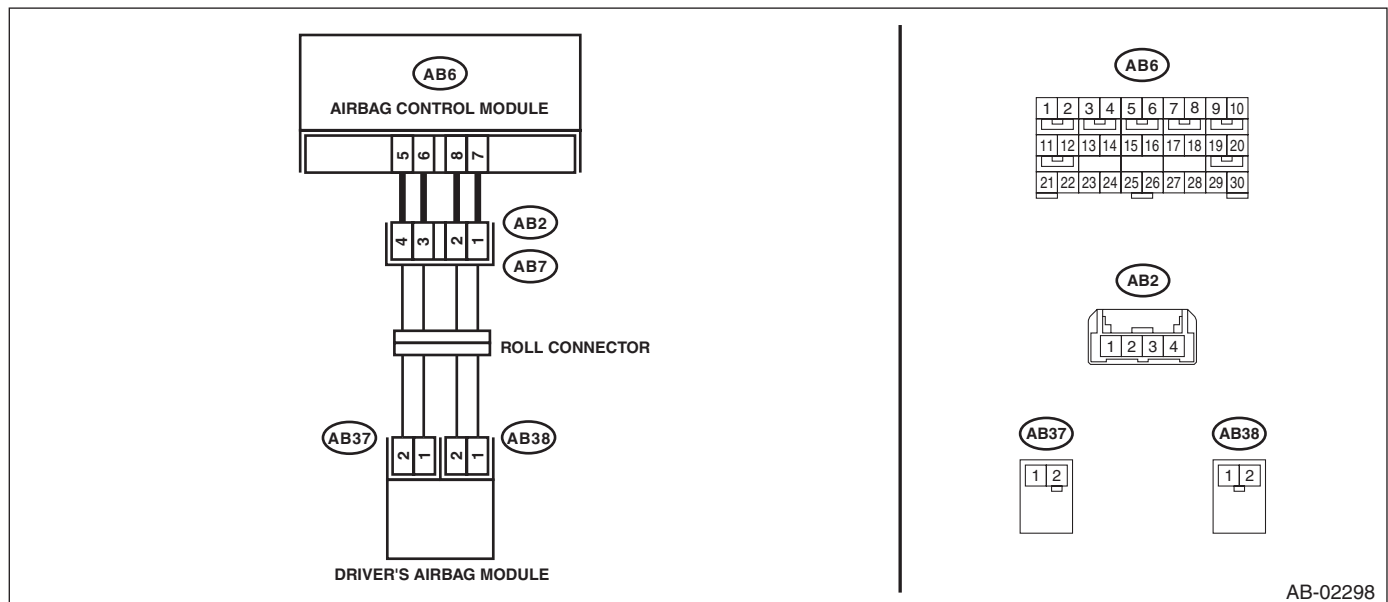
**Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>**

NOTE:

Prior to starting work, prepare two AIRBAG RESISTORS (98299PA040).

### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



|   | Step   | Check  | Yes  | No            |
|---|--|--|--|---------------|
| 1 | <b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module and the driver's airbag module.   | Is there poor contact?   | Replace the airbag main harness along with body harness.                     | Go to step 2. |
| 2 | <b>CHECK DRIVER'S AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Remove the driver's airbag module.<br>3) Connect the connector (AB38) to the connector (1N) in the test harness N.<br>4) Connect the airbag resistor to the connector (2N) of test harness N.<br>5) Connect the connector (1Q) in the test harness Q to connector (AB37).<br>6) Connect the airbag resistor to the connector (2Q) in the test harness Q.<br>7) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the driver's airbag module. <Ref. to AB-14, Driver's Airbag Module.> | Go to step 3. |



# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check  | Yes  | No   |
|--|--|--|--|
| <b>3 CHECK ROLL CONNECTOR.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the test harness N from connector (AB38).<br>3) Disconnect the test harness Q from connector (AB37).<br>4) Remove the instrument panel lower cover and disconnect the connector (AB7) from (AB2).<br>5) Connect the connector (1P) in the test harness P to connector (AB2).<br>6) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P.<br>7) Connect the battery ground terminal and turn the ignition switch to ON.   | Does the airbag warning light illuminate for six seconds and go off? | Replace the roll connector. <Ref. to AB-25, Roll Connector.>   | Go to step 4.  |
| <b>4 CHECK AIRBAG MAIN HARNESS (DRIVER'S AIRBAG HARNESS).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P.<br>3) Remove the console side panel lower RH and disconnect the connector (AB9).<br>4) Disconnect the connectors (AB6, AB17, AB18) from the airbag control module, and connect the test harness AG connector (1AG).<br>5) Connect the battery ground terminal and turn the ignition switch to ON.<br>6) Measure the voltage between connector (3AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 2 (+) — Chassis ground (-):</b><br><b>(3AG) No. 4 (+) — Chassis ground (-):</b> | Is the voltage less than 1 V?  | Go to step 5.  | Replace the airbag main harness along with body harness. |
| <b>5 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.   | Is the same DTC displayed?   | Replace the airbag control module. <Ref. to AB-20, Airbag Control Module.>   | Go to step 6.  |
| <b>6 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?  | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |

## AG:DTC 76 PASSENGER'S AIRBAG FAILURE

### DTC DETECTING CONDITION:

- Airbag main harness circuit (passenger's side) is shorted to power supply.
- Airbag module harness circuit (passenger's side) is shorted to power supply.
- Passenger's airbag module is faulty.
- Airbag control module is faulty.

### CAUTION:

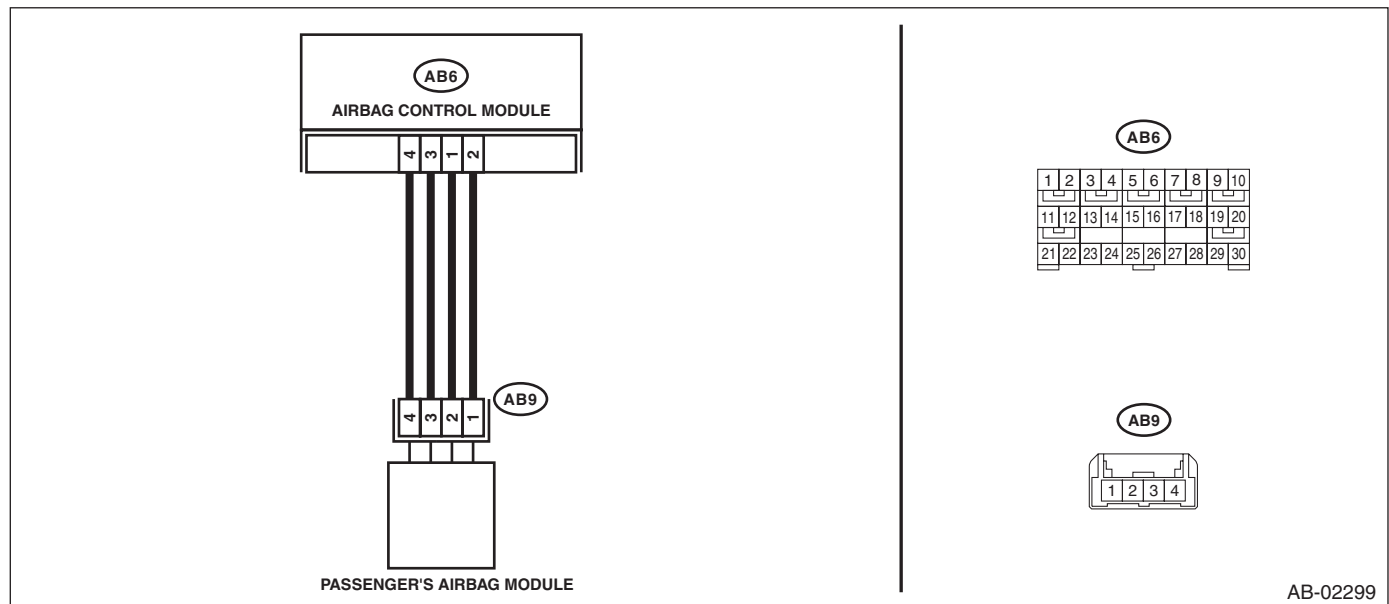
Before performing diagnosis, refer to "CAUTION" in "General Description". <Ref. to AB(diag)-4, CAUTION, General Description.>

### NOTE:

Prior to starting work, prepare two AIRBAG RESISTORS (98299PA040).

### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step  | Check  | Yes  | No            |
|---|--|--|---------------|
| <b>1 CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module and the passenger's airbag module.   | Is there poor contact?   | Replace the airbag main harness along with body harness.                           | Go to step 2. |
| <b>2 CHECK PASSENGER'S AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Remove the console side panel lower RH and disconnect the connector (AB9).<br>3) Connect the connector (1P) in the test harness P to connector (AB9).<br>4) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P.<br>5) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the passenger's airbag module. <Ref. to AB-15, Passenger's Airbag Module.> | Go to step 3. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                         | Yes  | No   |
|--|-------------------------------|--|--|
| <b>3 CHECK AIRBAG MAIN HARNESS (PASSENGER'S AIRBAG HARNESS).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P.<br>3) Remove the instrument panel lower cover and disconnect the connector (AB7) from (AB2).<br>4) Disconnect the connectors (AB6, AB17, AB18) from the airbag control module, and connect the connector (1AG) in the test harness AG.<br>5) Measure the voltage between connector (3AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3AG) No. 8 (+) — Chassis ground (-):</b><br><b>(3AG) No. 6 (+) — Chassis ground (-):</b> | Is the voltage less than 1 V? | Go to step 4.  | Replace the airbag main harness along with body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.   | Is the same DTC displayed?    | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.>  | Go to step 5.  |
| <b>5 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?   | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## AH:DTC 91 CURTAIN AIRBAG MODULE RH FAILURE

### DTC DETECTING CONDITION:

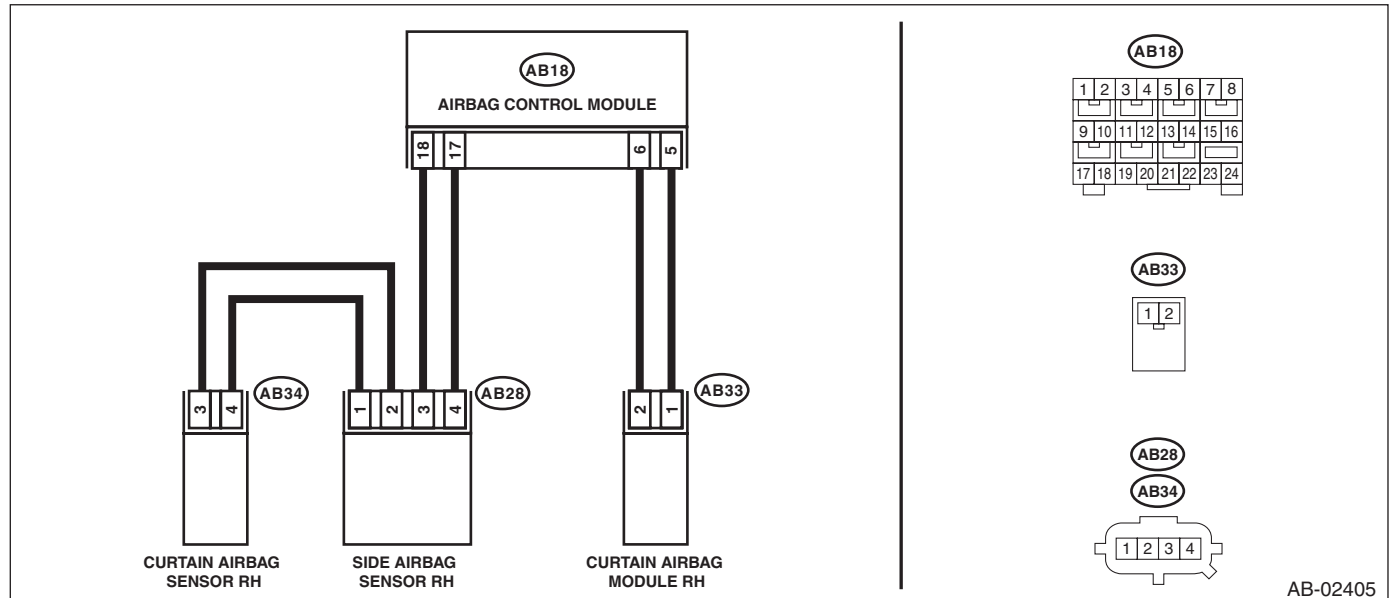
- Curtain airbag harness (RH) is faulty.
- Curtain airbag module (RH) is faulty.
- Airbag control module is faulty.

### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step   | Check  | Yes   | No            |
|--|--|---|---------------|
| <b>1 CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module, curtain airbag module RH and the curtain airbag sensor RH.   | Is there poor contact?   | Replace the airbag rear harness along with body harness.                        | Go to step 2. |
| <b>2 CHECK CURTAIN AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB33), and connect the connector (1N) in test harness N to connector (AB33).<br>3) Connect the airbag resistor to the connector (2N) of test harness N.<br>4) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the curtain airbag module (RH). <Ref. to AB-18, Curtain Airbag Module.> | Go to step 3. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                                     | Yes  | No   |
|--|---|--|--|
| <b>3 CHECK AIRBAG REAR HARNESS (CURTAIN AIRBAG MODULE HARNESS RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB26) from seat belt pretensioner (RH).<br>3) Disconnect connector (AB24) from side airbag module (RH).<br>4) Disconnect the airbag resistor from test harness N.<br>5) Disconnect the connectors (AB6, AB17, AB18) from airbag control module.<br>6) Connect the connector (1AG) in the test harness AG to the connectors (AB6, AB17, AB18).<br>7) Measure the resistance between connector (6AG) in the test harness AG and connector (2N) in the test harness N.<br><b>Connector &amp; terminal</b><br><b>(6AG) No. 6 — (2N) No. 1:</b><br><b>(6AG) No. 8 — (2N) No. 2:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 4.  | Replace the airbag rear harness along with body harness. |
| <b>4 CHECK AIRBAG REAR HARNESS (CURTAIN AIRBAG MODULE HARNESS RH).</b><br>Measure the resistance between connector (6AG) terminals in the test harness AG.<br><b>Connector &amp; terminal</b><br><b>(6AG) No. 6 — (6AG) No. 8:</b>   | Is the resistance 1 M $\Omega$ or more?   | Go to step 5.  | Replace the airbag rear harness along with body harness. |
| <b>5 CHECK AIRBAG REAR HARNESS (CURTAIN AIRBAG MODULE HARNESS RH).</b><br>Measure the resistance between connector (6AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(6AG) No. 6 — Chassis ground:</b><br><b>(6AG) No. 8 — Chassis ground:</b>   | Is the resistance 1 M $\Omega$ or more?   | Go to step 6.  | Replace the airbag rear harness along with body harness. |
| <b>6 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.   | Is the same DTC displayed?                | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.>  | Go to step 7.  |
| <b>7 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?               | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## AI: DTC 92 CURTAIN AIRBAG MODULE LH FAILURE

### DTC DETECTING CONDITION:

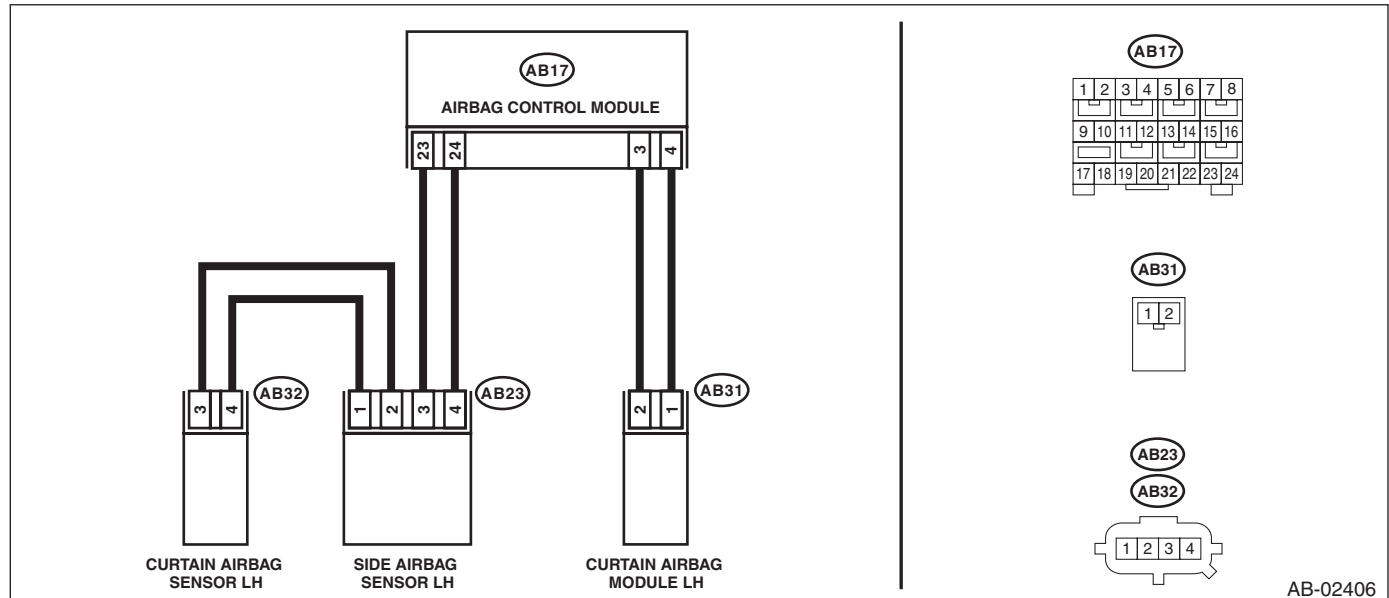
- Curtain airbag harness (LH) is faulty.
- Curtain airbag module (LH) is faulty.
- Airbag control module is faulty.

### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step   | Check  | Yes   | No            |
|--|--|---|---------------|
| <b>1 CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module, curtain airbag module LH and the curtain airbag sensor LH.   | Is there poor contact?   | Replace the airbag rear harness along with body harness.                        | Go to step 2. |
| <b>2 CHECK CURTAIN AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB31), and connect the connector (1N) in test harness N to connector (AB31).<br>3) Connect the airbag resistor to the connector (2N) of test harness N.<br>4) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the curtain airbag module (LH). <Ref. to AB-18, Curtain Airbag Module.> | Go to step 3. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                                     | Yes  | No   |
|--|---|--|--|
| <b>3 CHECK AIRBAG REAR HARNESS (CURTAIN AIRBAG MODULE HARNESS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB21) from seat belt pretensioner (LH).<br>3) Disconnect connector (AB19) from side airbag module (LH).<br>4) Disconnect the airbag resistor from test harness N.<br>5) Disconnect the connectors (AB6, AB17, AB18) from airbag control module.<br>6) Connect the connector (1AG) in the test harness AG to the connectors (AB6, AB17, AB18).<br>7) Measure the resistance between connector (6AG) in the test harness AG and connector (2N) in the test harness N.<br><b>Connector &amp; terminal</b><br><b>(6AG) No. 1 — (2N) No. 2:</b><br><b>(6AG) No. 3 — (2N) No. 1:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 4.  | Replace the airbag rear harness along with body harness. |
| <b>4 CHECK AIRBAG REAR HARNESS (CURTAIN AIRBAG MODULE HARNESS LH).</b><br>Measure the resistance between connector (6AG) terminals in the test harness AG.<br><b>Connector &amp; terminal</b><br><b>(6AG) No. 1 — (6AG) No. 3:</b>   | Is the resistance 1 M $\Omega$ or more?   | Go to step 5.  | Replace the airbag rear harness along with body harness. |
| <b>5 CHECK AIRBAG REAR HARNESS (CURTAIN AIRBAG MODULE HARNESS LH).</b><br>Measure the resistance between connector (6AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(6AG) No. 1 — Chassis ground:</b><br><b>(6AG) No. 3 — Chassis ground:</b>   | Is the resistance 1 M $\Omega$ or more?   | Go to step 6.  | Replace the airbag rear harness along with body harness. |
| <b>6 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.   | Is the same DTC displayed?                | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.>  | Go to step 7.  |
| <b>7 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?               | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## AJ:DTC 95 CURTAIN AIRBAG MODULE RH FAILURE

### DTC DETECTING CONDITION:

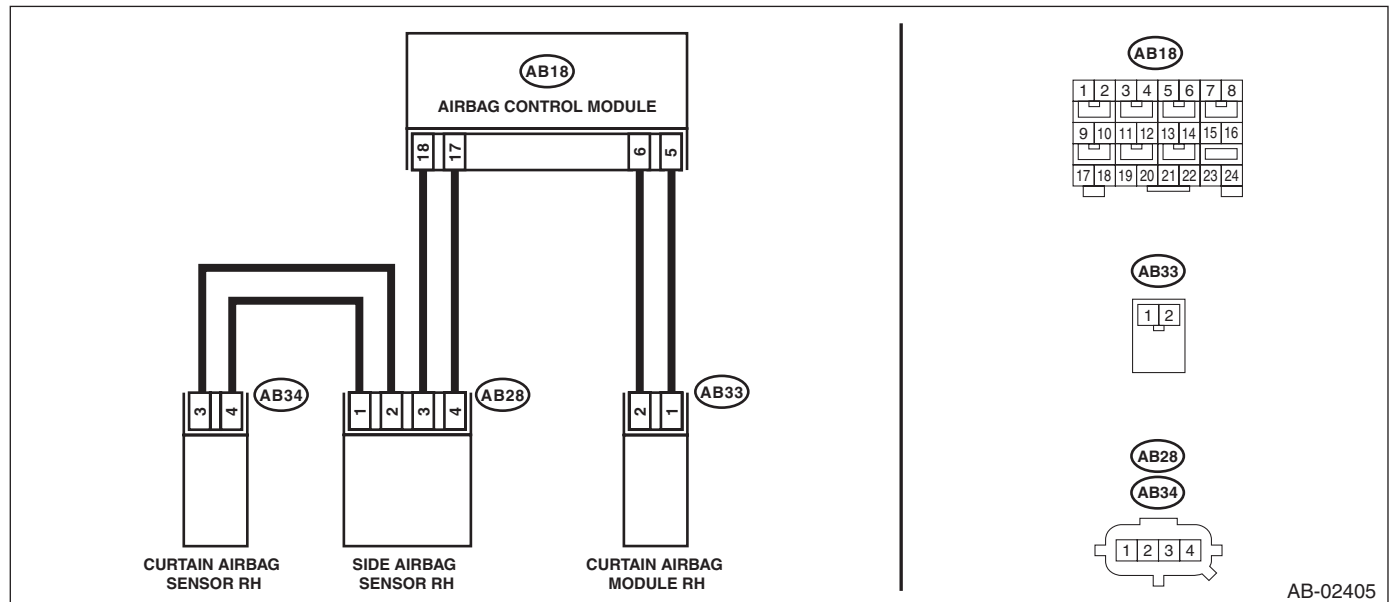
- Curtain airbag harness (RH) is shorted to power supply.
- Airbag control module is faulty.

### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step   | Check  | Yes   | No            |
|--|--|---|---------------|
| <b>1 CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module, curtain airbag module RH and the curtain airbag sensor RH.   | Is there poor contact?   | Replace the airbag rear harness along with body harness.                        | Go to step 2. |
| <b>2 CHECK CURTAIN AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB33), and connect the connector (1N) in test harness N to connector (AB33).<br>3) Connect the airbag resistor to the connector (2N) of test harness N.<br>4) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the curtain airbag module (RH). <Ref. to AB-18, Curtain Airbag Module.> | Go to step 3. |



# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                         | Yes  | No   |
|---|-------------------------------|--|--|
| <b>3 CHECK AIRBAG REAR HARNESS (CURTAIN AIRBAG MODULE HARNESS RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB26) from seat belt pretensioner (RH).<br>3) Disconnect connector (AB24) from side airbag module (RH).<br>4) Disconnect the airbag resistor from test harness N.<br>5) Disconnect the connectors (AB6, AB17, AB18) from airbag control module.<br>6) Connect the connector (1AG) in the test harness AG to the connectors (AB6, AB17, AB18).<br>7) Connect the battery ground terminal and turn the ignition switch to ON.<br>8) Measure the voltage between connector (6AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(6AG) No. 6 (+) — Chassis ground (-):</b><br><b>(6AG) No. 8 (+) — Chassis ground (-):</b> | Is the voltage less than 1 V? | Go to step 4.  | Replace the airbag rear harness along with body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.  | Is the same DTC displayed?    | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.>  | Go to step 5.  |
| <b>5 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>  | Is any other DTC displayed?   | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## AK:DTC 96 CURTAIN AIRBAG MODULE LH FAILURE

### DTC DETECTING CONDITION:

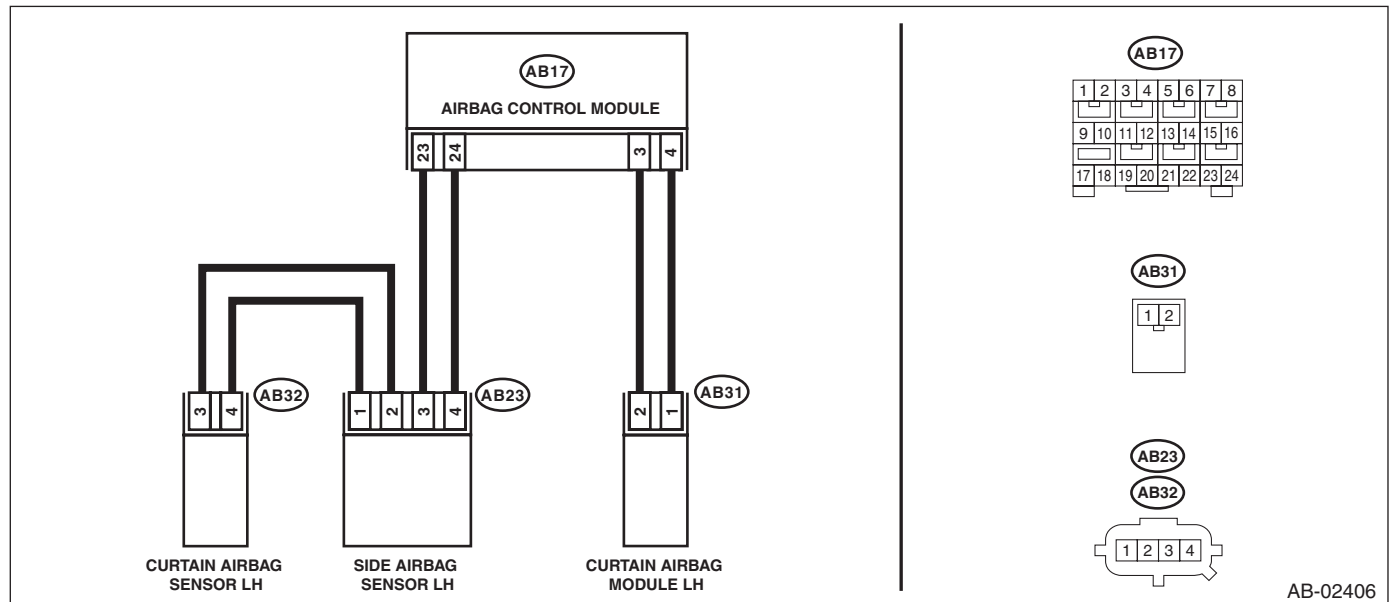
- Curtain airbag harness (LH) is shorted to power supply.
- Airbag control module is faulty.

### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step   | Check  | Yes   | No            |
|--|--|---|---------------|
| <b>1 CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors between the airbag control module, curtain airbag module LH and the curtain airbag sensor LH.   | Is there poor contact?   | Replace the airbag rear harness along with body harness.                        | Go to step 2. |
| <b>2 CHECK CURTAIN AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB31), and connect the connector (1N) in test harness N to connector (AB31).<br>3) Connect the airbag resistor to the connector (2N) of test harness N.<br>4) Connect the battery ground terminal and turn the ignition switch to ON. | Does the airbag warning light illuminate for six seconds and go off? | Replace the curtain airbag module (LH). <Ref. to AB-18, Curtain Airbag Module.> | Go to step 3. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                         | Yes  | No   |
|---|-------------------------------|--|--|
| <b>3 CHECK AIRBAG REAR HARNESS (CURTAIN AIRBAG MODULE HARNESS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB21) from seat belt pretensioner (LH).<br>3) Disconnect connector (AB19) from side airbag module (LH).<br>4) Disconnect the airbag resistor from test harness N.<br>5) Disconnect the connectors (AB6, AB17, AB18) from airbag control module.<br>6) Connect the connector (1AG) in the test harness AG to the connectors (AB6, AB17, AB18).<br>7) Connect the battery ground terminal and turn the ignition switch to ON.<br>8) Measure the voltage between connector (6AG) in the test harness AG and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(6AG) No. 1 (+) — Chassis ground (-):</b><br><b>(6AG) No. 3 (+) — Chassis ground (-):</b> | Is the voltage less than 1 V? | Go to step 4.  | Replace the airbag rear harness along with body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.  | Is the same DTC displayed?    | Replace the airbag control module.<br><Ref. to AB-20, Airbag Control Module.>  | Go to step 5.  |
| <b>5 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>  | Is any other DTC displayed?   | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                    |

### AL:DTC BB ROLL OVER: FIRING OUTPUT

This DTC is indicated when the curtain airbag module and the seat belt pretensioner are deployed. Once this DTC is displayed, the memory cannot be cleared. Replace the following parts.

- Airbag control module <Ref. to AB-20, Airbag Control Module.>
- Curtain airbag module (both sides) <Ref. to AB-18, Curtain Airbag Module.>
- Seat belt pretensioners (LH and RH) <Ref. to SB-18, Front Seat Belt.>

### AM:DTC E2 FRONT SENSOR BUS RH COMMUNICATION ERROR

NOTE:

Refer to DTC E4 for details on DTC E2. <Ref. to AB(diag)-91, DTC E4 FRONT SENSOR BUS RH COMMUNICATION ERROR, Diagnostic Chart with Trouble Code.>

### AN:DTC E3 FRONT SENSOR BUS RH COMMUNICATION ERROR

NOTE:

Refer to DTC E4 for details on DTC E3. <Ref. to AB(diag)-91, DTC E4 FRONT SENSOR BUS RH COMMUNICATION ERROR, Diagnostic Chart with Trouble Code.>

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## AO:DTC E4 FRONT SENSOR BUS RH COMMUNICATION ERROR

### DTC DETECTING CONDITION:

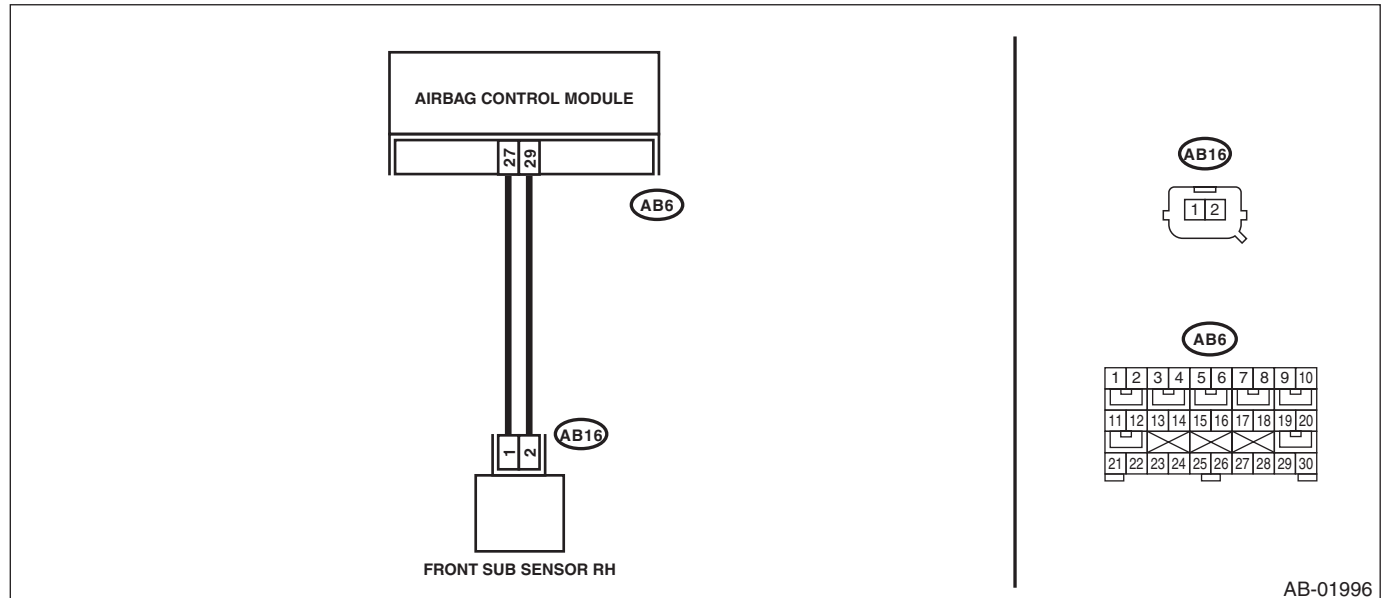
- Open or short circuit in harness of front sensor bus (RH).
- Front sub sensor (RH) is faulty.
- Airbag control module is faulty.

### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step | Check   | Yes  | No            |
|------|---|--|---------------|
| 1    | <b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors (AB6, AB16) between the airbag control module and the front sub sensor (RH). | Is there poor contact?<br><br>Replace the airbag main harness along with body harness. | Go to step 2. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                                     | Yes  | No   |
|--|---|--|--|
| <b>2 CHECK AIRBAG MAIN HARNESS (FRONT SENSOR BUS RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Remove the instrument panel lower cover and disconnect the connectors (AB7) and (AB2).<br>3) Remove the console side panel lower RH and disconnect the connector (AB9).<br>4) Disconnect the connectors (AB17, AB6, AB18) from airbag control module.<br>5) Connect the connector (1AG) in the test harness AG to the connectors (AB17, AB6, AB18).<br>6) Disconnect the front sub sensor (RH), and then connect the connector (1H) in the test harness H to connector (AB16).<br>7) Measure the resistance between connector (4AG) in the test harness AG and connector (3H) in the test harness H.<br><b>Connector &amp; terminal</b><br><b>(4AG) No. 14 — (3H) No. 5:</b><br><b>(4AG) No. 12 — (3H) No. 6:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 3.  | Replace the airbag main harness along with body harness. |
| <b>3 CHECK AIRBAG MAIN HARNESS (FRONT SENSOR BUS RH).</b><br>Measure the resistance between connector (4AG) in the test harness AG and chassis ground, and the resistance between connector (4AG) terminals in the test harness AG.<br><b>Connector &amp; terminal</b><br><b>(4AG) No. 14 — Chassis ground:</b><br><b>(4AG) No. 12 — Chassis ground:</b><br><b>(4AG) No. 14 — (4AG) No. 12:</b>  | Is the resistance 1 M $\Omega$ or more?   | Go to step 4.  | Replace the airbag main harness along with body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.   | Is the same DTC displayed?                | Replace the front sub sensor (RH).<br><Ref. to AB-21, REMOVAL, Front Sub Sensor.><br>Replace the airbag control module if not operating normally even after replacing the sensor. <Ref. to AB-20, REMOVAL, Airbag Control Module.> | Go to step 5.  |
| <b>5 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?               | Check DTC using "List of Diagnostic Trouble Code".<br><Ref. to AB(diag)-35, LIST, List of Diagnostic Trouble Code (DTC).>  | Finish the diagnosis.                                    |

### **AP:DTC E6 FRONT SENSOR BUS LH COMMUNICATION ERROR**

**NOTE:**

Refer to DTC E8 for details on DTC E6. <Ref. to AB(diag)-94, DTC E8 FRONT SENSOR BUS LH COMMUNICATION ERROR, Diagnostic Chart with Trouble Code.>

### **AQ:DTC E7 FRONT SENSOR BUS LH COMMUNICATION ERROR**

**NOTE:**

Refer to DTC E8 for details on DTC E7. <Ref. to AB(diag)-94, DTC E8 FRONT SENSOR BUS LH COMMUNICATION ERROR, Diagnostic Chart with Trouble Code.>

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### AR:DTC E8 FRONT SENSOR BUS LH COMMUNICATION ERROR

#### DTC DETECTING CONDITION:

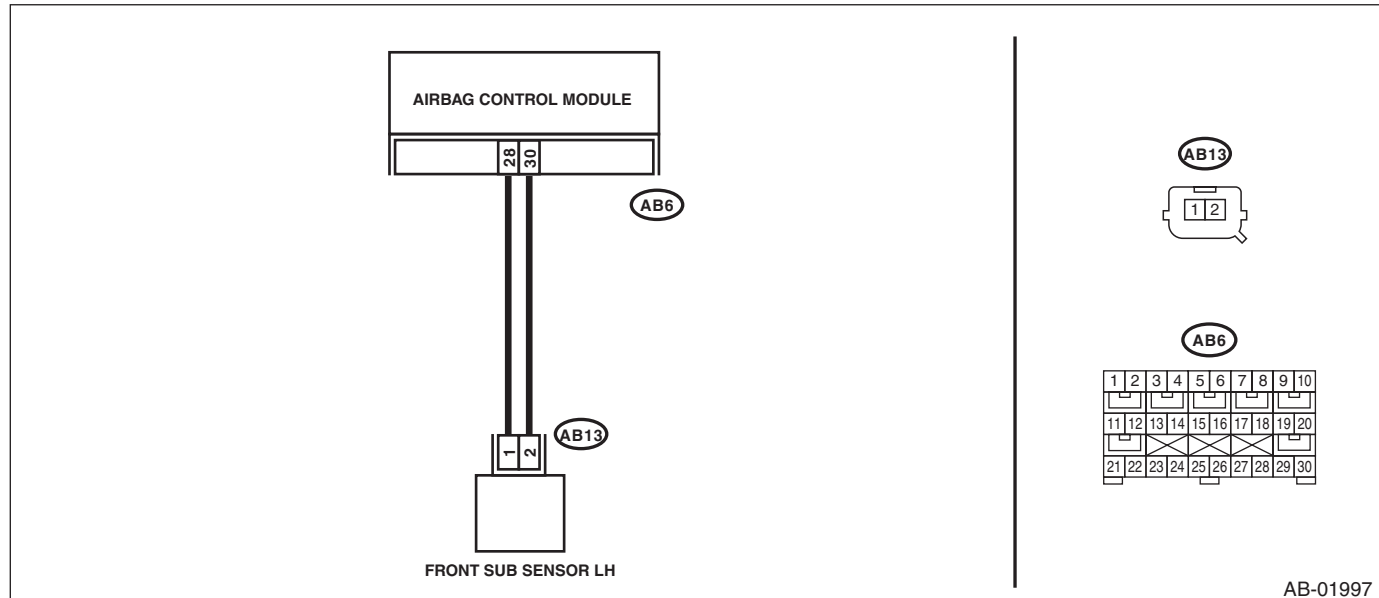
- Open or short circuit in harness of front sensor bus (LH).
- Front sub sensor (LH) is faulty.
- Airbag control module is faulty.

#### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

#### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step | Check  | Yes  | No            |
|------|--|--|---------------|
| 1    | <b>CHECK POOR CONTACT OF CONNEC-TORS.</b><br>Check for poor contact of the connectors (AB6, AB13) between the airbag control module and the front sub sensor (LH). | Is there poor contact?<br><br>Replace the airbag main harness along with body harness. | Go to step 2. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                                     | Yes  | No   |
|--|---|--|--|
| <b>2 CHECK AIRBAG MAIN HARNESS (FRONT SENSOR BUS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Remove the instrument panel lower cover and disconnect the connectors (AB7) and (AB2).<br>3) Remove the console side panel lower RH and disconnect the connector (AB9).<br>4) Disconnect the connectors (AB17, AB6, AB18) from airbag control module.<br>5) Connect the connector (1AG) in the test harness AG to the connectors (AB17, AB6, AB18).<br>6) Disconnect the front sub sensor (LH), and then connect the connector (1H) in the test harness H to connector (AB13).<br>7) Measure the resistance between connector (4AG) in the test harness AG and connector (3H) in the test harness H.<br><b>Connector &amp; terminal</b><br><b>(4AG) No. 7 — (3H) No. 5:</b><br><b>(4AG) No. 9 — (3H) No. 6:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 3.  | Replace the airbag main harness along with body harness. |
| <b>3 CHECK AIRBAG MAIN HARNESS (FRONT SENSOR BUS LH).</b><br>Measure the resistance between connector (4AG) in the test harness AG and chassis ground, and the resistance between connector (4AG) terminals in the test harness AG.<br><b>Connector &amp; terminal</b><br><b>(4AG) No. 7 — Chassis ground:</b><br><b>(4AG) No. 9 — Chassis ground:</b><br><b>(4AG) No. 7 — (4AG) No. 9:</b>  | Is the resistance 1 M $\Omega$ or more?   | Go to step 4.  | Replace the airbag main harness along with body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.   | Is the same DTC displayed?                | Replace the front sub sensor (LH).<br><Ref. to AB-21, REMOVAL, Front Sub Sensor.><br>Replace the airbag control module if not operating normally even after replacing the sensor. <Ref. to AB-20, REMOVAL, Airbag Control Module.> | Go to step 5.  |
| <b>5 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?               | Check DTC using "List of Diagnostic Trouble Code".<br><Ref. to AB(diag)-35, LIST, List of Diagnostic Trouble Code (DTC).>  | Finish the diagnosis.                                    |



## Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

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### **AS:DTC E9 SIDE SENSOR BUS RH COMMUNICATION ERROR**

NOTE:

Refer to DTC EC for details on DTC E9. <Ref. to AB(diag)-97, DTC EC SIDE SENSOR BUS RH COMMUNICATION ERROR, Diagnostic Chart with Trouble Code.>

### **AT:DTC EA SIDE SENSOR BUS RH COMMUNICATION ERROR**

NOTE:

Refer to DTC EC for details on DTC EA. <Ref. to AB(diag)-97, DTC EC SIDE SENSOR BUS RH COMMUNICATION ERROR, Diagnostic Chart with Trouble Code.>

### **AU:DTC EB SIDE SENSOR BUS RH COMMUNICATION ERROR**

NOTE:

Refer to DTC EC for details on DTC EB. <Ref. to AB(diag)-97, DTC EC SIDE SENSOR BUS RH COMMUNICATION ERROR, Diagnostic Chart with Trouble Code.>

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## AV:DTC EC SIDE SENSOR BUS RH COMMUNICATION ERROR

### DTC DETECTING CONDITION:

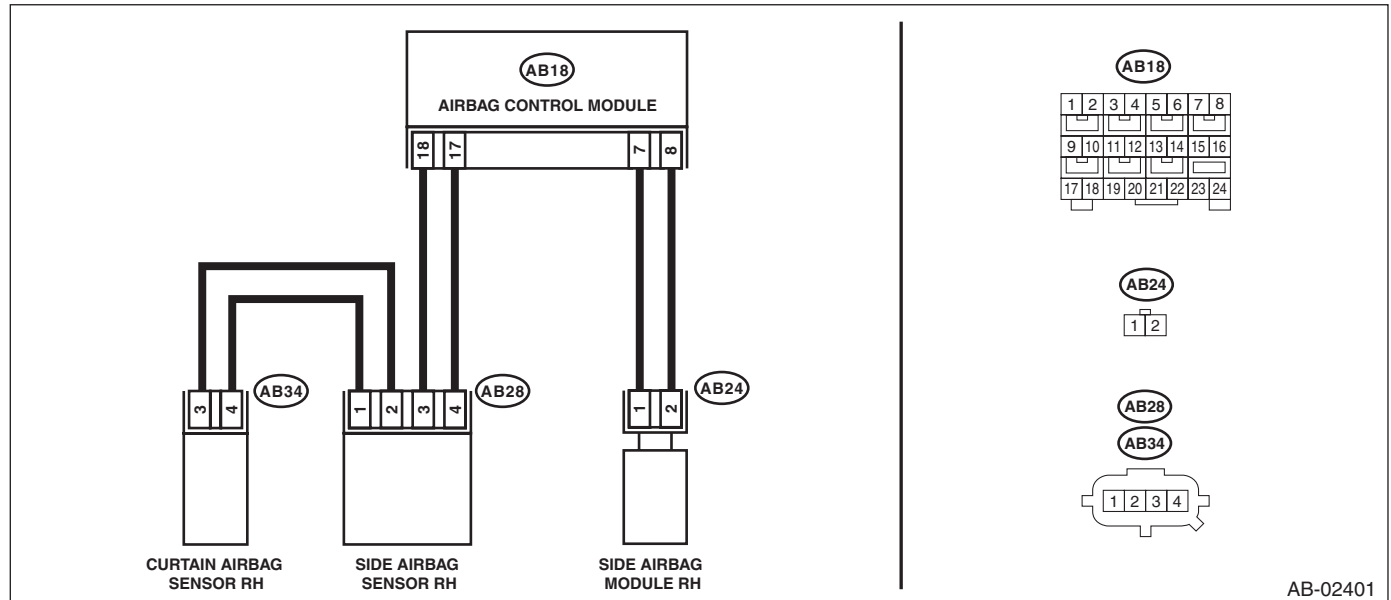
- Open or short circuit in harness of side sensor bus (RH).
- Side airbag sensor (RH) and curtain airbag sensor (RH) are faulty.
- Airbag control module is faulty.

### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



AB-02401

| Step   | Check                  | Yes  | No            |
|--|------------------------|--|---------------|
| 1<br><b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors (AB18, AB28, AB34) between the airbag control module and the curtain airbag sensor (RH). | Is there poor contact? | Replace the airbag rear harness along with body harness. | Go to step 2. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                                     | Yes           | No   |
|--|---|---------------|--|
| <b>2</b><br><b>CHECK AIRBAG REAR HARNESS (BETWEEN AIRBAG CONTROL MODULE AND SIDE AIRBAG SENSOR RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB26) from seat belt pretensioner (RH).<br>3) Disconnect the connector (AB33) from curtain airbag module (RH).<br>4) Disconnect connector (AB24) of the side airbag module (RH).<br>5) Disconnect the connectors (AB17, AB6, AB18) from airbag control module.<br>6) Connect the connector (1AG) in the test harness AG to the connectors (AB17, AB6, AB18).<br>7) Disconnect the connector (AB28) from side airbag sensor (RH), and connect the connector (2V) in test harness V to connector (AB28).<br>8) Measure the resistance between connector (5AG) in the test harness AG and connector (3V) in the test harness V.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 16 — (3V) No. 2:</b><br><b>(5AG) No. 14 — (3V) No. 1:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 3. | Replace the airbag rear harness along with body harness. |
| <b>3</b><br><b>CHECK AIRBAG REAR HARNESS (BETWEEN AIRBAG CONTROL MODULE AND SIDE AIRBAG SENSOR RH).</b><br>Measure the resistance between connector (5AG) in the test harness AG and chassis ground, and the resistance between connector (5AG) terminals in the test harness AG.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 16 — Chassis ground:</b><br><b>(5AG) No. 14 — Chassis ground:</b><br><b>(5AG) No. 16 — (5AG) No. 14:</b>  | Is the resistance 1 M $\Omega$ or more?   | Go to step 4. | Replace the airbag rear harness along with body harness. |
| <b>4</b><br><b>CHECK AIRBAG REAR HARNESS (BETWEEN SIDE AIRBAG SENSOR AND CURTAIN AIRBAG SENSOR RH).</b><br>1) Disconnect the connector (2V) in the test harness V from the connector (AB28) of side airbag sensor (RH).<br>2) Connect the connector (AB28) of side airbag sensor (RH) and the connector (1AI) in the test harness AI.<br>3) Connect the connector (2AI) in the test harness AI and the connector (1V) in the test harness V.<br>4) Disconnect the connector (AB34) from curtain airbag sensor (RH), and connect the connector (2V) in test harness V to connector (AB34).<br>5) Measure the resistance between connector (3V) terminals in the test harness V.<br><b>Connector &amp; terminal</b><br><b>(3V) No. 2 — (3V) No. 6:</b><br><b>(3V) No. 1 — (3V) No. 7:</b>  | Is the resistance less than 10 $\Omega$ ? | Go to step 5. | Replace the airbag rear harness along with body harness. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                           | Yes  | No   |
|--|---------------------------------|--|--|
| <b>5 CHECK AIRBAG REAR HARNESS (BETWEEN SIDE AIRBAG SENSOR AND CURTAIN AIRBAG SENSOR RH).</b><br>Measure the resistance between connector (3V) in test harness V and chassis ground, and the resistance between connector (3V) in test harness V.<br><b>Connector &amp; terminal</b><br><b>(3V) No. 2 — Chassis ground:</b><br><b>(3V) No. 1 — Chassis ground:</b><br><b>(3V) No. 2 — (3V) No. 1:</b>          | Is the resistance 1 MΩ or more? | Go to step 6.  | Replace the airbag rear harness along with body harness.   |
| <b>6 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.   | Is the same DTC displayed?      | Go to step 7.  | Go to step 8.  |
| <b>7 REPLACE SIDE AIRBAG SENSOR (RH) AND CHECK AIRBAG CONTROL MODULE AFTER REPLACEMENT.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Replace the side airbag sensor (RH). <Ref. to AB-22, REMOVAL, Side Airbag Sensor.><br>3) Connect all connectors.<br>4) Clear the memory.<br>5) Perform the Inspection Mode.<br>6) Read the DTC. | Is the system normal?           | Go to step 8.  | Replace the curtain airbag sensor (RH). <Ref. to AB-23, REMOVAL, Curtain Airbag Sensor.> Replace the airbag control module if not operating normally even after replacing the sensor. <Ref. to AB-20, REMOVAL, Airbag Control Module.> |
| <b>8 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?     | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.  |

## AW:DTC ED SIDE SENSOR BUS RH COMMUNICATION ERROR

### NOTE:

Refer to DTC EE for details on DTC ED. <Ref. to AB(diag)-100, DTC EE SIDE SENSOR BUS RH COMMUNICATION ERROR, Diagnostic Chart with Trouble Code.>

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### AX:DTC EE SIDE SENSOR BUS RH COMMUNICATION ERROR

#### DTC DETECTING CONDITION:

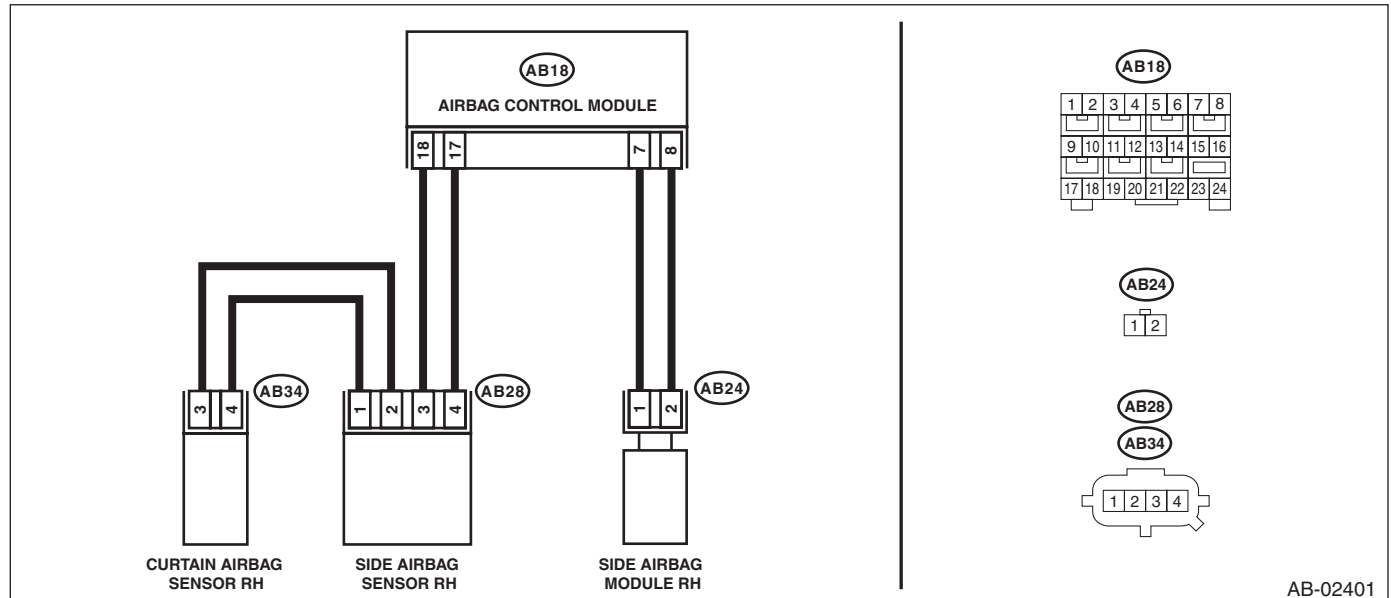
- Open or short circuit in harness of side sensor bus (RH).
- Side airbag sensor (RH) or curtain airbag sensor (RH) is faulty.
- Airbag control module is faulty.

#### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

#### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step  | Check                  | Yes  | No            |
|---|------------------------|--|---------------|
| 1<br><b>CHECK POOR CONTACT OF CONNEC-TORS.</b><br>Check for poor contact of the connectors (AB18, AB28, AB34) between the airbag control module and the curtain airbag sensor (RH). | Is there poor contact? | Replace the airbag rear harness along with body harness. | Go to step 2. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                                     | Yes           | No   |
|--|---|---------------|--|
| <b>2</b><br><b>CHECK AIRBAG REAR HARNESS (BETWEEN SIDE AIRBAG SENSOR (RH) AND CURTAIN AIRBAG SENSOR (RH)).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB26) from seat belt pretensioner (RH).<br>3) Disconnect the connector (AB33) from curtain airbag module (RH).<br>4) Disconnect connector (AB24) of the side airbag module (RH).<br>5) Disconnect connector (AB28) from side airbag sensor (RH).<br>6) Connect the connector (AB28) of side airbag sensor (RH) and the connector (1AI) in the test harness AI.<br>7) Connect the connector (2AI) in the test harness AI and the connector (1V) in the test harness V.<br>8) Disconnect the connector (AB34) from curtain airbag sensor (RH), and connect the connector (2V) in test harness V to connector (AB34).<br>9) Measure the resistance between connector (3V) terminals in the test harness V.<br><b>Connector &amp; terminal</b><br><b>(3V) No. 2 — (3V) No. 6:</b><br><b>(3V) No. 1 — (3V) No. 7:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 3. | Replace the airbag rear harness along with body harness. |
| <b>3</b><br><b>CHECK AIRBAG REAR HARNESS (BETWEEN SIDE AIRBAG SENSOR AND CURTAIN AIRBAG SENSOR RH).</b><br>Measure the resistance between connector (3V) in test harness V and chassis ground, and the resistance between connector (3V) in test harness V.<br><b>Connector &amp; terminal</b><br><b>(3V) No. 2 — Chassis ground:</b><br><b>(3V) No. 1 — Chassis ground:</b><br><b>(3V) No. 2 — (3V) No. 1:</b>  | Is the resistance 1 M $\Omega$ or more?   | Go to step 4. | Replace the airbag rear harness along with body harness. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                                     | Yes  | No   |
|---|---|--|--|
| <b>4 CHECK AIRBAG REAR HARNESS (BETWEEN AIRBAG CONTROL MODULE AND SIDE AIRBAG SENSOR (RH)).</b><br>1) Disconnect the connectors (AB17, AB6, AB18) from airbag control module.<br>2) Connect the connector (1AG) in the test harness AG to the connectors (AB17, AB6, AB18).<br>3) Disconnect the connector (AB28) in the side airbag sensor (RH) from the connector (1AI) in the test harness AI.<br>4) Disconnect the connector (2AI) in the test harness AI from the connector (1V) in the test harness V.<br>5) Connect the connector (AB28) of side airbag sensor (RH) and the connector (2V) in the test harness V.<br>6) Measure the resistance between connector (5AG) in the test harness AG and connector (3V) in the test harness V.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 16 — (3V) No. 2:</b><br><b>(5AG) No. 14 — (3V) No. 1:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 5.  | Replace the airbag rear harness along with body harness.   |
| <b>5 CHECK AIRBAG REAR HARNESS (BETWEEN AIRBAG CONTROL MODULE AND SIDE AIRBAG SENSOR RH).</b><br>Measure the resistance between connector (5AG) in the test harness AG and chassis ground, and the resistance between connector (5AG) terminals in the test harness AG.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 16 — Chassis ground:</b><br><b>(5AG) No. 14 — Chassis ground:</b><br><b>(5AG) No. 16 — (5AG) No. 14:</b>   | Is the resistance 1 M $\Omega$ or more?   | Go to step 6.  | Replace the airbag rear harness along with body harness.   |
| <b>6 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.  | Is the same DTC displayed?                | Go to step 7.  | Go to step 8.  |
| <b>7 REPLACE SIDE AIRBAG SENSOR (RH) AND CHECK AIRBAG CONTROL MODULE AFTER REPLACEMENT.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Replace the side airbag sensor (RH). <Ref. to AB-22, REMOVAL, Side Airbag Sensor.><br>3) Connect all connectors.<br>4) Clear the memory.<br>5) Perform the Inspection Mode.<br>6) Read the DTC.  | Is the system normal?                     | Go to step 8.  | Replace the curtain airbag sensor (RH). <Ref. to AB-23, REMOVAL, Curtain Airbag Sensor.> Replace the airbag control module if not operating normally even after replacing the sensor. <Ref. to AB-20, REMOVAL, Airbag Control Module.> |
| <b>8 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>  | Is any other DTC displayed?               | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.  |

### **AY:DTC F1 SIDE SENSOR BUS LH COMMUNICATION ERROR**

**NOTE:**

Refer to DTC F4 for details on DTC F1. <Ref. to AB(diag)-104, DTC F4 SIDE SENSOR BUS LH COMMUNICATION ERROR, Diagnostic Chart with Trouble Code.>

### **AZ:DTC F2 SIDE SENSOR BUS LH COMMUNICATION ERROR**

**NOTE:**

Refer to DTC F4 for details on DTC F2. <Ref. to AB(diag)-104, DTC F4 SIDE SENSOR BUS LH COMMUNICATION ERROR, Diagnostic Chart with Trouble Code.>

### **BA:DTC F3 SIDE SENSOR BUS LH COMMUNICATION ERROR**

**NOTE:**

Refer to DTC F4 for details on DTC F3. <Ref. to AB(diag)-104, DTC F4 SIDE SENSOR BUS LH COMMUNICATION ERROR, Diagnostic Chart with Trouble Code.>



# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### BB:DTC F4 SIDE SENSOR BUS LH COMMUNICATION ERROR

#### DTC DETECTING CONDITION:

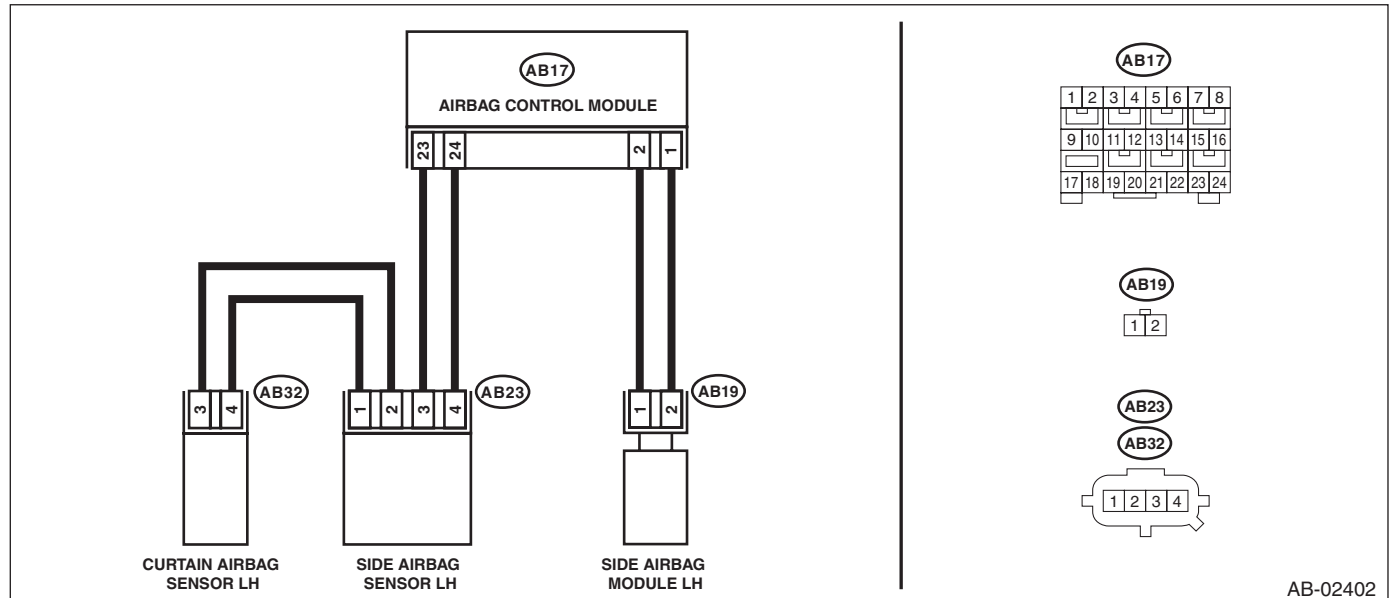
- Open or short circuit in harness of side sensor bus (LH).
- Side airbag sensor (LH) and curtain airbag sensor (LH) are faulty.
- Airbag control module is faulty.

#### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

#### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step   | Check                  | Yes  | No            |
|--|------------------------|--|---------------|
| 1<br><b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors (AB17, AB23, AB32) between the airbag control module and the curtain airbag sensor (LH). | Is there poor contact? | Replace the airbag rear harness along with body harness. | Go to step 2. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                                     | Yes           | No   |
|---|---|---------------|--|
| <b>2</b><br><b>CHECK AIRBAG REAR HARNESS (BETWEEN AIRBAG CONTROL MODULE AND SIDE AIRBAG SENSOR LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB21) from seat belt pretensioner (LH).<br>3) Disconnect the connector (AB31) from curtain airbag module (LH).<br>4) Disconnect connector (AB19) of the side airbag module (LH).<br>5) Disconnect the connectors (AB17, AB6, AB18) from airbag control module.<br>6) Connect the connector (1AG) in the test harness AG to the connectors (AB17, AB6, AB18).<br>7) Disconnect the connector (AB23) from side airbag sensor (LH), and connect the connector (2V) in test harness V to connector (AB23).<br>8) Measure the resistance between connector (5AG) in the test harness AG and connector (3V) in the test harness V.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 10 — (3V) No. 1:</b><br><b>(5AG) No. 8 — (3V) No. 2:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 3. | Replace the airbag rear harness along with body harness. |
| <b>3</b><br><b>CHECK AIRBAG REAR HARNESS (BETWEEN AIRBAG CONTROL MODULE AND SIDE AIRBAG SENSOR LH).</b><br>Measure the resistance between connector (5AG) in the test harness AG and chassis ground, and the resistance between connector (5AG) terminals in the test harness AG.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 10 — Chassis ground:</b><br><b>(5AG) No. 8 — Chassis ground:</b><br><b>(5AG) No. 10 — (5AG) No. 8:</b>   | Is the resistance 1 M $\Omega$ or more?   | Go to step 4. | Replace the airbag rear harness along with body harness. |
| <b>4</b><br><b>CHECK AIRBAG REAR HARNESS (BETWEEN SIDE AIRBAG SENSOR LH AND CURTAIN AIRBAG SENSOR LH).</b><br>1) Disconnect the connector (2V) in the test harness V from the connector (AB23) of side airbag sensor (LH).<br>2) Connect the connector (AB23) of side airbag sensor (LH) and the connector (1AI) in the test harness AI.<br>3) Connect the connector (2AI) in the test harness AI and the connector (1V) in the test harness V.<br>4) Disconnect the connector (AB32) from curtain airbag sensor (LH), and connect the connector (2V) in test harness V to connector (AB32).<br>5) Measure the resistance between connector (3V) terminals in the test harness V.<br><b>Connector &amp; terminal</b><br><b>(3V) No. 2 — (3V) No. 6:</b><br><b>(3V) No. 1 — (3V) No. 7:</b>  | Is the resistance less than 10 $\Omega$ ? | Go to step 5. | Replace the airbag rear harness along with body harness. |

## Diagnostic Chart with Trouble Code

### AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                           | Yes  | No   |
|--|---------------------------------|--|--|
| <b>5</b><br><b>CHECK AIRBAG REAR HARNESS (BETWEEN SIDE AIRBAG SENSOR LH AND CURTAIN AIRBAG SENSOR LH).</b><br>Measure the resistance between connector (3V) in test harness V and chassis ground, and the resistance between connector (3V) in test harness V.<br><i>Connector &amp; terminal</i><br><i>(3V) No. 2 — Chassis ground:</i><br><i>(3V) No. 1 — Chassis ground:</i><br><i>(3V) No. 2 — (3V) No. 1:</i>       | Is the resistance 1 MΩ or more? | Go to step 6.  | Replace the airbag rear harness along with body harness.   |
| <b>6</b><br><b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.   | Is the same DTC displayed?      | Go to step 7.  | Go to step 8.  |
| <b>7</b><br><b>REPLACE SIDE AIRBAG SENSOR (LH) AND CHECK AIRBAG CONTROL MODULE AFTER REPLACEMENT.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Replace the side airbag sensor (LH). <Ref. to AB-22, REMOVAL, Side Airbag Sensor.><br>3) Connect all connectors.<br>4) Clear the memory.<br>5) Perform the Inspection Mode.<br>6) Read the DTC. | Is the system normal?           | Go to step 8.  | Replace the curtain airbag sensor (LH). <Ref. to AB-23, REMOVAL, Curtain Airbag Sensor.> Replace the airbag control module if not operating normally even after replacing the sensor. <Ref. to AB-20, REMOVAL, Airbag Control Module.> |
| <b>8</b><br><b>CHECK FOR ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?     | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.  |

### BC:DTC F5 SIDE SENSOR BUS LH COMMUNICATION ERROR

#### NOTE:

Refer to DTC F6 for details on DTC F5. <Ref. to AB(diag)-107, DTC F6 SIDE SENSOR BUS LH COMMUNICATION ERROR, Diagnostic Chart with Trouble Code.>

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## BD:DTC F6 SIDE SENSOR BUS LH COMMUNICATION ERROR

### DTC DETECTING CONDITION:

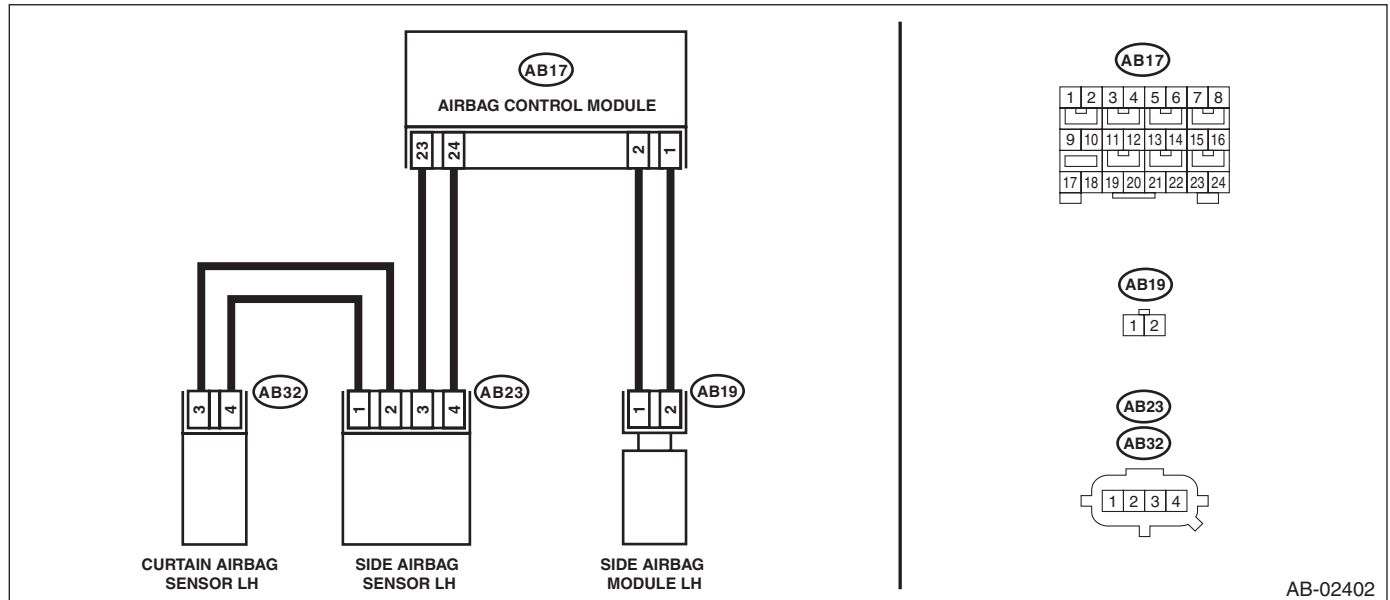
- Open or short circuit in harness of side sensor bus (LH).
- Side airbag sensor (LH) or curtain airbag sensor (LH) is faulty.
- Airbag control module is faulty.

### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step   | Check                  | Yes  | No            |
|--|------------------------|--|---------------|
| 1<br><b>CHECK POOR CONTACT OF CONNECTORS.</b><br>Check for poor contact of the connectors (AB17, AB23, AB32) between the airbag control module and the curtain airbag sensor (LH). | Is there poor contact? | Replace the airbag rear harness along with body harness. | Go to step 2. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                                     | Yes           | No   |
|---|---|---------------|--|
| <b>2</b><br><b>CHECK AIRBAG REAR HARNESS (BETWEEN SIDE AIRBAG SENSOR LH AND CURTAIN AIRBAG SENSOR LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connector (AB21) from seat belt pretensioner (LH).<br>3) Disconnect the connector (AB31) from curtain airbag module (LH).<br>4) Disconnect connector (AB19) of the side airbag module (LH).<br>5) Disconnect the connector (AB23) in the side airbag sensor (LH).<br>6) Connect the connector (AB23) of side airbag sensor (LH) and the connector (1AI) in the test harness AI.<br>7) Connect the connector (2AI) in the test harness AI and the connector (1V) in the test harness V.<br>8) Disconnect the connector (AB32) from curtain airbag sensor (LH), and connect to the connector (2V) in test harness V.<br>9) Measure the resistance between connector (3V) terminals in the test harness V.<br><b>Connector &amp; terminal</b><br><b>(3V) No. 2 — (3V) No. 6:</b><br><b>(3V) No. 1 — (3V) No. 7:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 3. | Replace the airbag rear harness along with body harness. |
| <b>3</b><br><b>CHECK AIRBAG REAR HARNESS (BETWEEN SIDE AIRBAG SENSOR AND CURTAIN AIRBAG SENSOR LH).</b><br>Measure the resistance between connector (3V) in test harness V and chassis ground, and the resistance between connector (3V) in test harness V.<br><b>Connector &amp; terminal</b><br><b>(3V) No. 2 — Chassis ground:</b><br><b>(3V) No. 1 — Chassis ground:</b><br><b>(3V) No. 2 — (3V) No. 1:</b>   | Is the resistance 1 M $\Omega$ or more?   | Go to step 4. | Replace the airbag rear harness along with body harness. |
| <b>4</b><br><b>CHECK AIRBAG REAR HARNESS (BETWEEN AIRBAG CONTROL MODULE AND SIDE AIRBAG SENSOR LH).</b><br>1) Disconnect the connectors (AB17, AB6, AB18) from airbag control module.<br>2) Connect the connector (1AG) in the test harness AG to the connectors (AB17, AB6, AB18).<br>3) Disconnect the connector (AB23) in the side airbag sensor (LH) from the connector (1AI) in the test harness AI.<br>4) Disconnect the connector (2AI) in the test harness AI from the connector (1V) in the test harness V.<br>5) Connect the connector (2V) in the test harness V to the connector (AB23).<br>6) Measure the resistance between connector (5AG) in the test harness AG and connector (3V) in the test harness V.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 10 — (3V) No. 1:</b><br><b>(5AG) No. 8 — (3V) No. 2:</b>  | Is the resistance less than 10 $\Omega$ ? | Go to step 5. | Replace the airbag rear harness along with body harness. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                           | Yes  | No   |
|---|---------------------------------|--|--|
| <b>5 CHECK AIRBAG REAR HARNESS (BETWEEN AIRBAG CONTROL MODULE AND SIDE AIRBAG SENSOR LH).</b><br>Measure the resistance between connector (5AG) in the test harness AG and chassis ground, and the resistance between connector (5AG) terminals in the test harness AG.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 10 — Chassis ground:</b><br><b>(5AG) No. 8 — Chassis ground:</b><br><b>(5AG) No. 10 — (5AG) No. 8:</b> | Is the resistance 1 MΩ or more? | Go to step 6.  | Replace the airbag rear harness along with body harness.   |
| <b>6 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.  | Is the same DTC displayed?      | Go to step 7.  | Go to step 8.  |
| <b>7 REPLACE SIDE AIRBAG SENSOR (LH) AND CHECK AIRBAG CONTROL MODULE AFTER REPLACEMENT.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Replace the side airbag sensor (LH). <Ref. to AB-22, REMOVAL, Side Airbag Sensor.><br>3) Connect all connectors.<br>4) Clear the memory.<br>5) Perform the Inspection Mode.<br>6) Read the DTC.                    | Is the system normal?           | Go to step 8.  | Replace the curtain airbag sensor (LH). <Ref. to AB-23, REMOVAL, Curtain Airbag Sensor.> Replace the airbag control module if not operating normally even after replacing the sensor. <Ref. to AB-20, REMOVAL, Airbag Control Module.> |
| <b>8 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>  | Is any other DTC displayed?     | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.  |

## BE:DTC F8 SATELLITE SENSOR BUS COMMUNICATION ERROR

NOTE:

Refer to DTC FA for details on DTC F8. <Ref. to AB(diag)-110, DTC FA SATELLITE SENSOR BUS COMMUNICATION ERROR, Diagnostic Chart with Trouble Code.>

## BF:DTC F9 SATELLITE SENSOR BUS COMMUNICATION ERROR

NOTE:

Refer to DTC FA for details on DTC F9. <Ref. to AB(diag)-110, DTC FA SATELLITE SENSOR BUS COMMUNICATION ERROR, Diagnostic Chart with Trouble Code.>

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### BG:DTC FA SATELLITE SENSOR BUS COMMUNICATION ERROR

#### DTC DETECTING CONDITION:

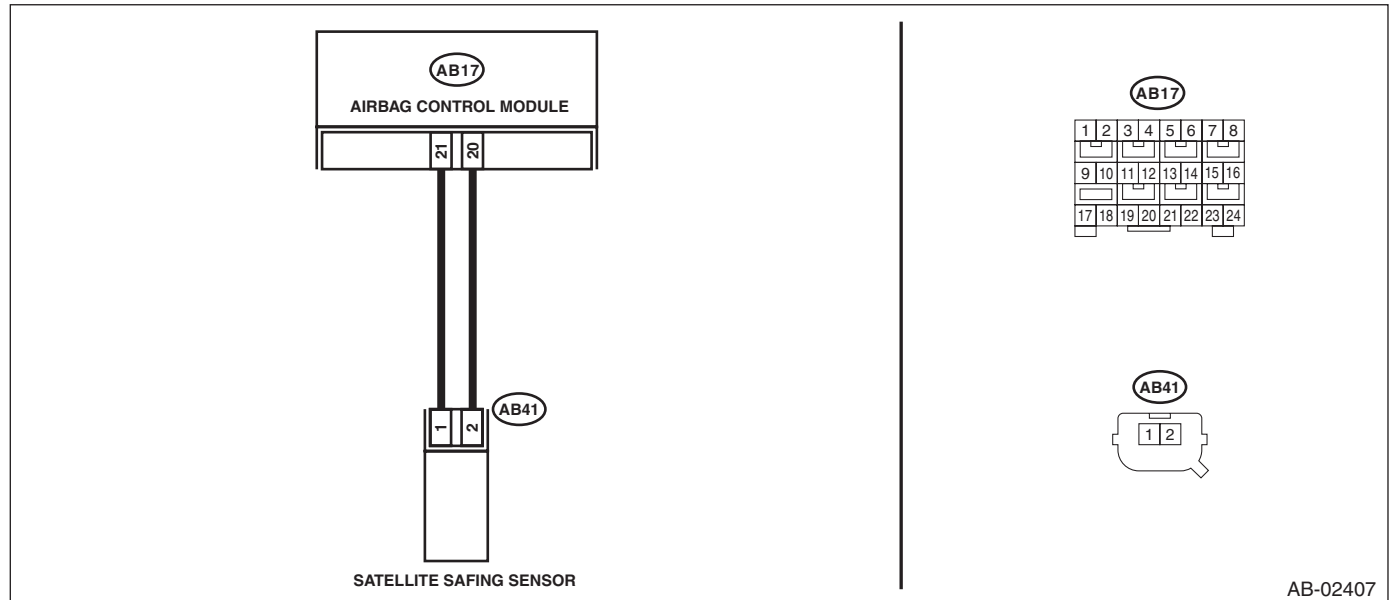
- Open or short circuit in harness of satellite safing sensor.
- Satellite safing sensor is faulty.
- Airbag control module is faulty.

#### CAUTION:

Before performing diagnosis, refer to “CAUTION” in “General Description”. <Ref. to AB(diag)-4, CAUTION, General Description.>

#### WIRING DIAGRAM:

Airbag system <Ref. to WI-68, WIRING DIAGRAM, Airbag System.>



| Step   | Check                  | Yes  | No            |
|--|------------------------|--|---------------|
| 1<br><b>CHECK POOR CONTACT OF CONNEC-TORS.</b><br>Check for poor contact of the connectors (AB17, AB41) between the airbag control module and the satellite safing sensor. | Is there poor contact? | Replace the airbag rear harness along with body harness. | Go to step 2. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                                     | Yes   | No   |
|---|---|---|--|
| <b>2 CHECK AIRBAG REAR HARNESS (BETWEEN AIRBAG CONTROL MODULE AND SATELLITE SAFING SENSOR).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Disconnect the connectors (AB21, AB26) from seat belt pretensioner.<br>3) Disconnect the connectors (AB31, AB33) from curtain airbag module.<br>4) Disconnect connectors (AB19) and (AB24) from the side airbag module.<br>5) Disconnect the connectors (AB17, AB6, AB18) from airbag control module.<br>6) Connect the connector (1AG) in the test harness AG to the connectors (AB17, AB6, AB18).<br>7) Disconnect the connector (AB41) from the satellite safing sensor and connect to the test harness H connector (1H).<br>8) Measure the resistance between connector (5AG) in the test harness AG and connector (3H) in the test harness H.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 9 — (3H) No. 5:</b><br><b>(5AG) No. 11 — (3H) No. 6:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 3.   | Replace the airbag rear harness along with body harness. |
| <b>3 CHECK AIRBAG REAR HARNESS (BETWEEN AIRBAG CONTROL MODULE AND SATELLITE SAFING SENSOR).</b><br>Measure the resistance between connector (5AG) in the test harness AG and chassis ground, and the resistance between connector (5AG) terminals in the test harness AG.<br><b>Connector &amp; terminal</b><br><b>(5AG) No. 9 — Chassis ground:</b><br><b>(5AG) No. 11 — Chassis ground:</b><br><b>(5AG) No. 9 — (5AG) No. 11:</b>   | Is the resistance 1 M $\Omega$ or more?   | Go to step 4.   | Replace the airbag rear harness along with body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all connectors.<br>2) Clear the memory.<br>3) Perform the Inspection Mode.<br>4) Read the DTC.  | Is the same DTC displayed?                | Replace the satellite safing sensor.<br>Replace the airbag control module if not operating normally even after replacing the sensor. <Ref. to AB-20, REMOVAL, Airbag Control Module.> | Go to step 5.  |
| <b>5 CHECK FOR ANY OTHER DTC ON DISPLAY.</b>  | Is any other DTC displayed?               | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-35, List of Diagnostic Trouble Code (DTC).>  | Finish the diagnosis.                                    |



## Diagnostic Chart with Trouble Code

### AIRBAG SYSTEM (DIAGNOSTICS)

#### BH:DTC 3A FRONT SUB SENSOR RH FALSE INSTALLATION

##### DTC DETECTING CONDITION:

Front sub sensor (RH) is misinstalled.

| Step   | Check                          | Yes                   | No   |
|--|--------------------------------|-----------------------|--|
| <b>1</b><br><b>REPLACE FRONT SUB SENSOR.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Replace the front sub sensor (RH) with a genuine sensor. <Ref. to AB-21, REMOVAL, Front Sub Sensor.> | Does the warning light go off? | Finish the diagnosis. | Replace the airbag control module.<br><Ref. to AB-20, REMOVAL, Airbag Control Module.> |

#### BI: DTC 3B FRONT SUB SENSOR LH FALSE INSTALLATION

##### DTC DETECTING CONDITION:

Front sub sensor (LH) is misinstalled.

| Step   | Check                          | Yes                   | No   |
|--|--------------------------------|-----------------------|--|
| <b>1</b><br><b>REPLACE FRONT SUB SENSOR.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Replace the front sub sensor (LH) with a genuine sensor. <Ref. to AB-21, REMOVAL, Front Sub Sensor.> | Does the warning light go off? | Finish the diagnosis. | Replace the airbag control module.<br><Ref. to AB-20, REMOVAL, Airbag Control Module.> |

#### BJ:DTC 3C SATELLITE SENSOR BUS FAILURE

##### DTC DETECTING CONDITION:

Satellite safing sensor is faulty.

| Step  | Check                          | Yes                   | No   |
|---|--------------------------------|-----------------------|--|
| <b>1</b><br><b>REPLACE SATELLITE SAFING SENSOR.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Replace the satellite safing sensor with a genuine sensor. | Does the warning light go off? | Finish the diagnosis. | Replace the airbag control module.<br><Ref. to AB-20, REMOVAL, Airbag Control Module.> |

#### BK:DTC 3D SATELLITE SENSOR FALSE INSTALLATION

##### DTC DETECTING CONDITION:

Satellite safing sensor is misinstalled.

| Step  | Check                          | Yes                   | No   |
|---|--------------------------------|-----------------------|--|
| <b>1</b><br><b>REPLACE SATELLITE SAFING SENSOR.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Replace the satellite safing sensor with a genuine sensor. | Does the warning light go off? | Finish the diagnosis. | Replace the airbag control module.<br><Ref. to AB-20, REMOVAL, Airbag Control Module.> |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## BL:DTC 5A SIDE AIRBAG SENSOR RH FALSE INSTALLATION

### DTC DETECTING CONDITION:

Side airbag sensor RH is misinstalled.

| Step   | Check                          | Yes                   | No   |
|--|--------------------------------|-----------------------|--|
| <b>1</b><br><b>REPLACE SIDE AIRBAG SENSOR (RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Replace the side A/B sensor (RH) with a genuine sensor. <Ref. to AB-22, REMOVAL, Side Airbag Sensor.> | Does the warning light go off? | Finish the diagnosis. | Replace the airbag control module.<br><Ref. to AB-20, REMOVAL, Airbag Control Module.> |

## BM:DTC 5B SIDE AIRBAG SENSOR LH FALSE INSTALLATION

### DTC DETECTING CONDITION:

Side airbag sensor LH is misinstalled.

| Step   | Check                          | Yes                   | No   |
|--|--------------------------------|-----------------------|--|
| <b>1</b><br><b>REPLACE SIDE AIRBAG SENSOR (LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Replace the side A/B sensor (LH) with a genuine sensor. <Ref. to AB-22, REMOVAL, Side Airbag Sensor.> | Does the warning light go off? | Finish the diagnosis. | Replace the airbag control module.<br><Ref. to AB-20, REMOVAL, Airbag Control Module.> |

## BN:DTC 5C CURTAIN AIRBAG SENSOR RH FALSE INSTALLATION

### DTC DETECTING CONDITION:

Curtain airbag sensor RH is misinstalled.

| Step  | Check                          | Yes                   | No   |
|---|--------------------------------|-----------------------|--|
| <b>1</b><br><b>REPLACE CURTAIN AIRBAG SENSOR (RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Replace the curtain A/B sensor (RH) with a genuine sensor. <Ref. to AB-23, REMOVAL, Curtain Airbag Sensor.> | Does the warning light go off? | Finish the diagnosis. | Replace the airbag control module.<br><Ref. to AB-20, REMOVAL, Airbag Control Module.> |

## BO:DTC 5D CURTAIN AIRBAG SENSOR LH FALSE INSTALLATION

### DTC DETECTING CONDITION:

Curtain airbag sensor LH is misinstalled.

| Step  | Check                          | Yes                   | No   |
|---|--------------------------------|-----------------------|--|
| <b>1</b><br><b>REPLACE CURTAIN AIRBAG SENSOR (LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.<br>2) Replace the curtain A/B sensor (LH) with a genuine sensor. <Ref. to AB-23, REMOVAL, Curtain Airbag Sensor.> | Does the warning light go off? | Finish the diagnosis. | Replace the airbag control module.<br><Ref. to AB-20, REMOVAL, Airbag Control Module.> |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

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# OCCUPANT DETECTION SYSTEM (DIAGNOSTICS)

## *OD(diag)*

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