

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

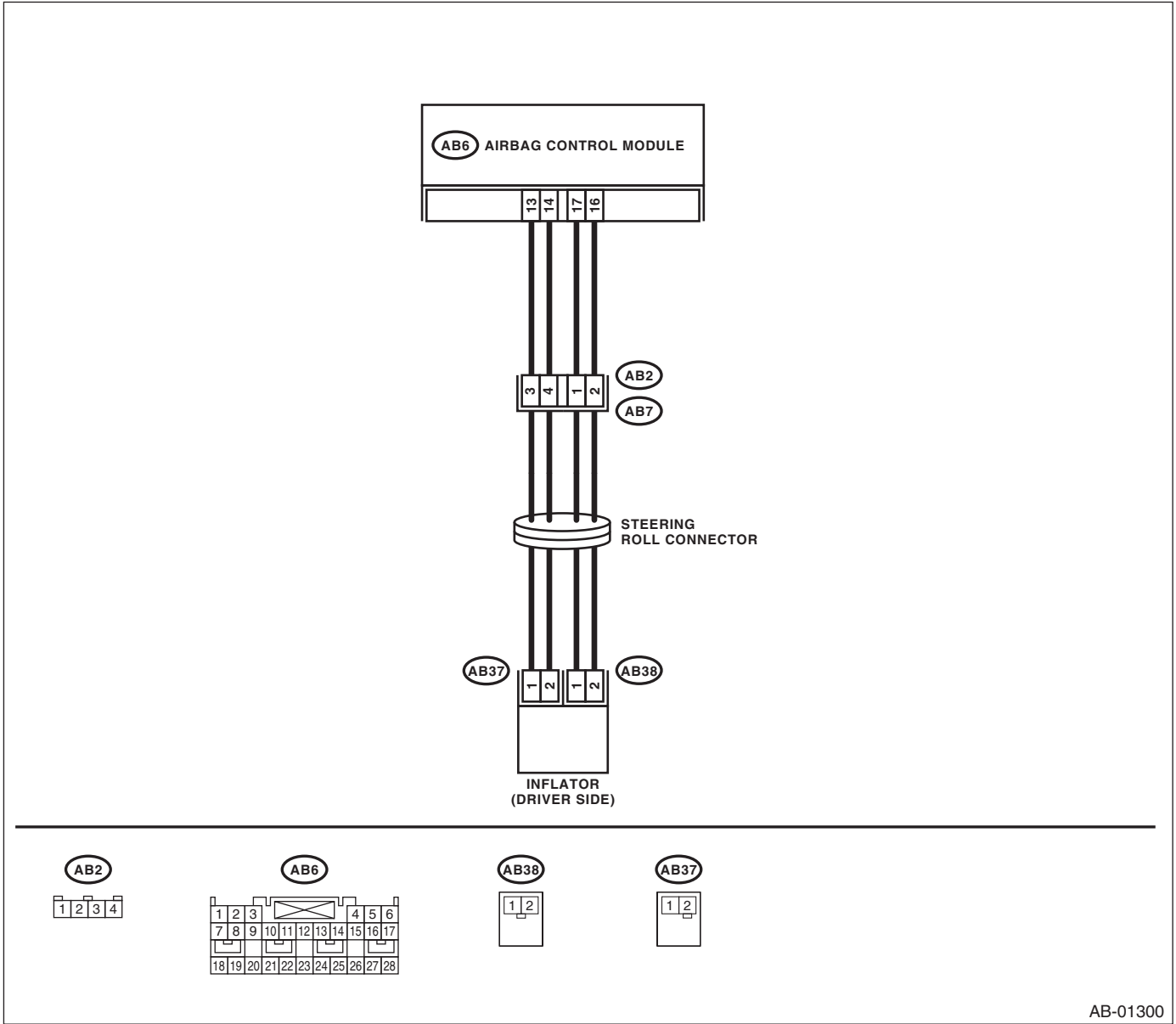
#### NOTE:

Prior to starting work, prepare two airbag resistors (98299PA040).

Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

WIRING DIAGRAM:



| 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. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check  | Yes  | No   |
|---|--|--|--|
| <b>2 CHECK DRIVER'S AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<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) of test harness Q.<br>7) Connect the battery ground terminal and turn the ignition switch to ON.  | Does the airbag warning light illuminate for 6 seconds and go off? | Replace the driver's airbag module. <Ref. to AB-15, Driver's Airbag Module.> | Go to step 3.                                      |
| <b>3 CHECK ROLL CONNECTOR.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<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 6 seconds and go off? | Replace the roll connector. <Ref. to AB-24, 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 more than 20 seconds.<br>2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P.<br>3) Remove the console side cover lower on the passenger's side and disconnect the connectors (AB10) and (AB9).<br>4) Disconnect the connector (AB6) from airbag control module, and connect the connector (1U) in the test harness U.<br>5) Measure the resistance between connector (2U) in the test harness U and connectors (2P) and (3P) in the test harness P.<br><b>Connector &amp; terminal</b><br><i>(2U) No. 2 — (2P) No. 1:</i><br><i>(2U) No. 4 — (2P) No. 2:</i><br><i>(2U) No. 8 — (3P) No. 3:</i><br><i>(2U) No. 12 — (3P) No. 4:</i> | Is the resistance less than 10 $\Omega$ ?                          | Go to step 5.  | Replace the airbag main harness with body harness. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                             | Yes  | No   |
|--|-----------------------------------|--|--|
| <b>5 CHECK AIRBAG MAIN HARNESS (DRIVER'S AIRBAG HARNESS).</b><br>Measure the resistance between connector (2U) terminals in the test harness U.<br><b>Connector &amp; terminal</b><br><i>(2U) No. 2 — (2U) No. 4:</i><br><i>(2U) No. 4 — Chassis ground:</i><br><i>(2U) No. 2 — Chassis ground:</i><br><i>(2U) No. 8 — (2U) No. 12:</i><br><i>(2U) No. 8 — Chassis ground:</i><br><i>(2U) No. 12 — Chassis ground:</i> | Is the resistance more than 1 MΩ? | Go to step 6.  | Replace the airbag main harness with body harness. |
| <b>6 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>  | Go to step 7.                                      |
| <b>7 CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?       | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                              |

## B: DTC 12 PASSENGER'S AIRBAG FAILURE

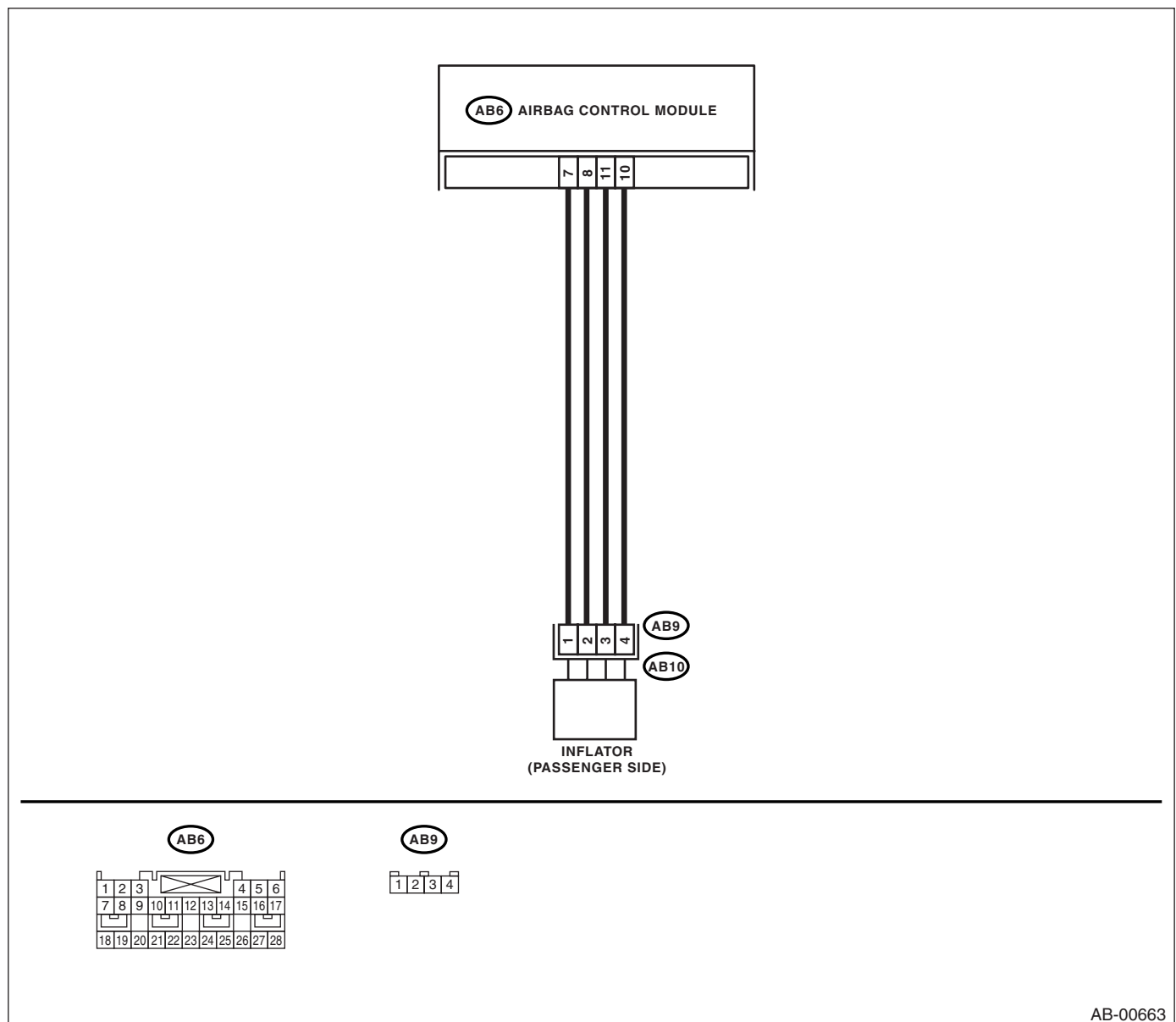
### DTC DETECTING CONDITION:

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

### WIRING DIAGRAM:



AB-00663

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| 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 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 more than 20 seconds.<br>2) Remove the console side cover lower on the passenger's side.<br>3) Disconnect the connector (AB10) from (AB9).<br>4) Connect the connector (1P) in the test harness P to connector (AB9).<br>5) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P.<br>6) Connect the battery ground terminal and turn the ignition switch to ON.   | Does the airbag warning light illuminate for 6 seconds and go off? | Replace the passenger's airbag module. <Ref. to AB-16, Passenger's Airbag Module.> | Go to step 3.                                      |
| <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 more than 20 seconds.<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 connector (AB6) from airbag control module, and connect the connector (1U) in the test harness U.<br>5) Measure the resistance between connector (2U) in the test harness U and connectors (2P) and (3P) in the test harness P.<br><b>Connector &amp; terminal</b><br><i>(2U) No. 3 — (2P) No. 1:</i><br><i>(2U) No. 5 — (2P) No. 2:</i><br><i>(2U) No. 9 — (3P) No. 3:</i><br><i>(2U) No. 13 — (3P) No. 4:</i> | Is the resistance less than 10 $\Omega$ ?                          | Go to step 4.  | Replace the airbag main harness with body harness. |
| <b>4 CHECK AIRBAG MAIN HARNESS (PASSENGER'S AIRBAG HARNESS).</b><br>Measure the resistance between connectors (2U) in the test harness U, and between connector (2U) and chassis ground.<br><b>Connector &amp; terminal</b><br><i>(2U) No. 3 — (2U) No. 5:</i><br><i>(2U) No. 3 — Chassis ground:</i><br><i>(2U) No. 5 — Chassis ground:</i><br><i>(2U) No. 9 — (2U) No. 13:</i><br><i>(2U) No. 9 — Chassis ground:</i><br><i>(2U) No. 13 — Chassis ground:</i>   | Is the resistance more than 1 M $\Omega$ ?                         | Go to step 5.  | Replace the airbag main harness with body harness. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| Step |  | Check                       | Yes  | No                    |
|------|--|-----------------------------|--|-----------------------|
| 5    | <b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>  | Go to step 6.         |
| 6    | <b>CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed? | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, 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.

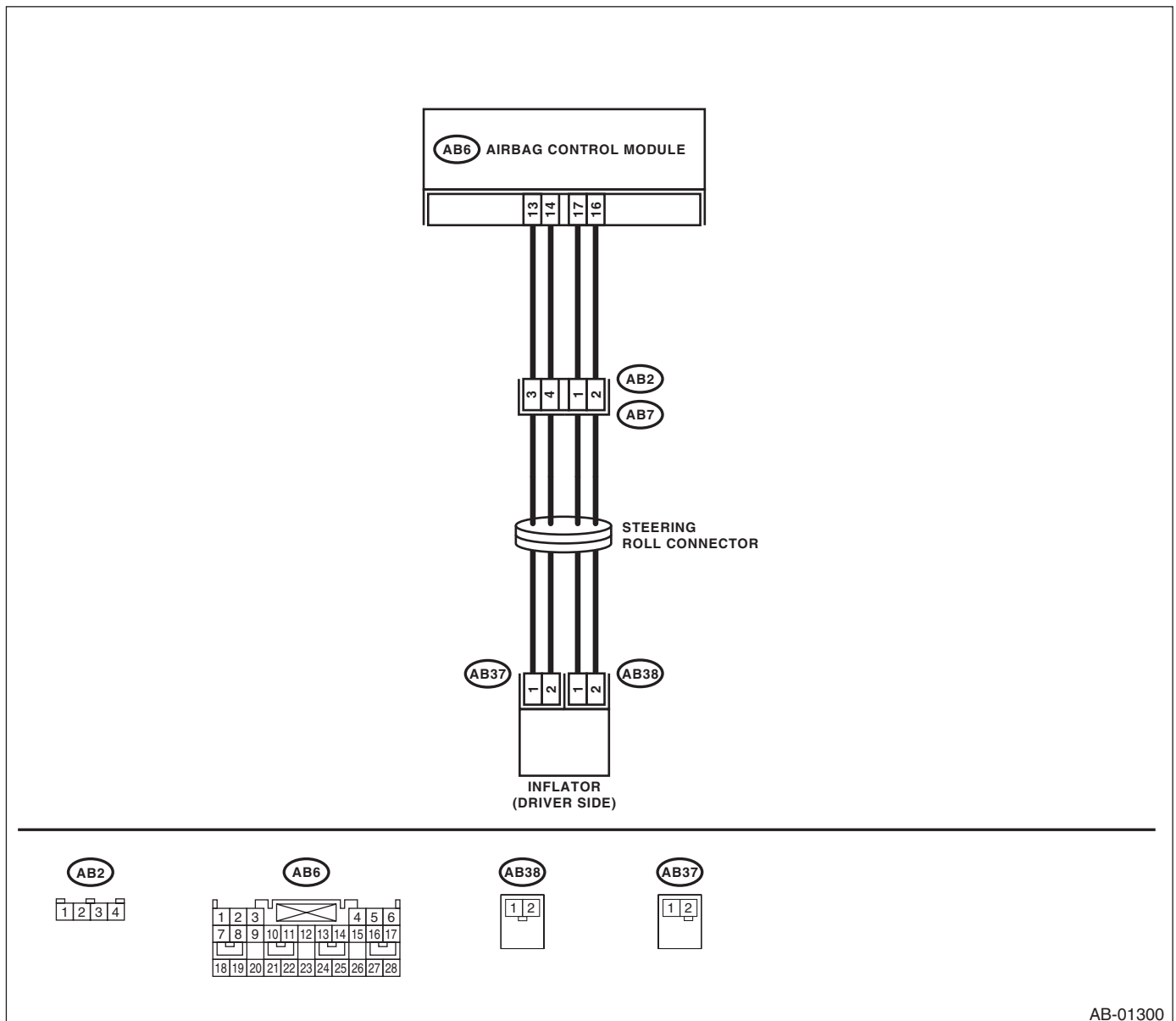
#### CAUTION:

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

#### NOTE:

Prior to starting work, prepare two airbag resistors (98299PA040).

#### WIRING DIAGRAM:



AB-01300



# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

|   | 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 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 more than 20 seconds.<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) of test harness Q.<br>7) Connect the battery ground terminal and turn the ignition switch to ON.  | Does the airbag warning light illuminate for 6 seconds and go off? | Replace the driver's airbag module. <Ref. to AB-15, Driver's Airbag Module.> | Go to step 3.                                      |
| 3 | <b>CHECK ROLL CONNECTOR.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<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 6 seconds and go off? | Replace the roll connector. <Ref. to AB-24, Roll Connector.>                 | Go to step 4.                                      |
| 4 | <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 more than 20 seconds.<br>2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P.<br>3) Remove the console side cover lower on the passenger's side and disconnect the connectors (AB10) and (AB9).<br>4) Disconnect the connector (AB6) from airbag control module, and connect the connector (1U) in the test harness U.<br>5) Connect the battery ground terminal and turn the ignition switch to ON. (Engine OFF)<br>6) Measure the voltage between connector (2U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><i>(2U) No. 4 (+) — Chassis ground (-):</i><br><i>(2U) No. 2 (+) — Chassis ground (-):</i><br><i>(2U) No. 8 (+) — Chassis ground (-):</i><br><i>(2U) No. 12 (+) — Chassis ground (-):</i> | Is the voltage less than 1 V?                                      | Go to step 5.  | Replace the airbag main harness with body harness. |

## Diagnostic Chart with Trouble Code

### AIRBAG SYSTEM (DIAGNOSTICS)

| Step |  | Check                       | Yes  | No                    |
|------|--|-----------------------------|--|-----------------------|
| 5    | <b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>  | Go to step 6.         |
|      | <b>CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed? | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis. |

## D: DTC 16 PASSENGER'S AIRBAG FAILURE

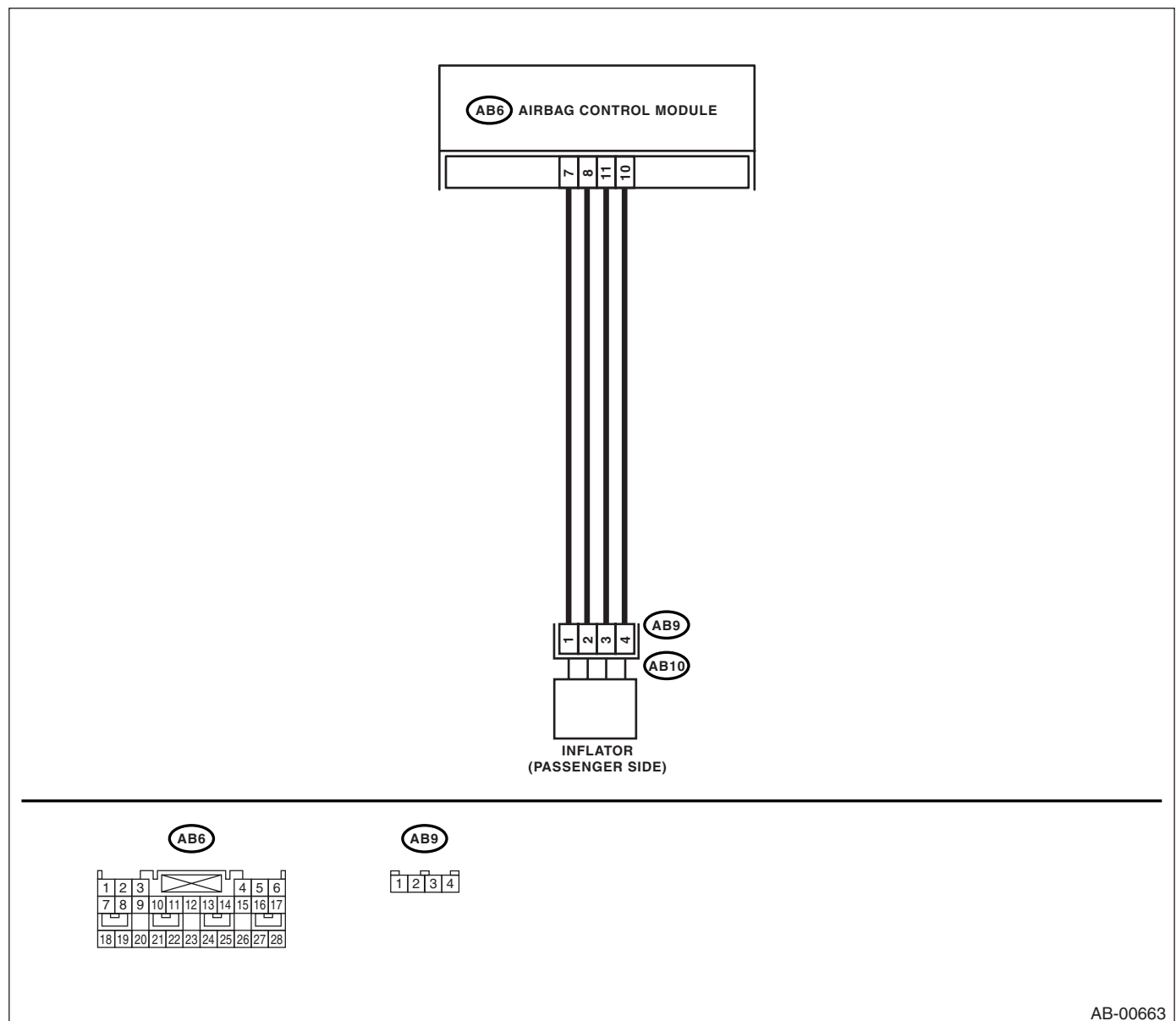
### DTC DETECTING CONDITION:

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

### WIRING DIAGRAM:



AB-00663

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| 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 harness with chassis 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 more than 20 seconds.<br>2) Remove the console side cover lower on the passenger's side.<br>3) Disconnect the connector (AB10) from (AB9).<br>4) Connect the connector (1P) in the test harness P to connector (AB9).<br>5) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P.<br>6) Connect the battery ground terminal and turn the ignition switch to ON.  | Does the airbag warning light illuminate for 6 seconds and go off? | Replace the passenger's airbag module. <Ref. to AB-16, Passenger's Airbag Module.>                                     | Go to step 3.                                      |
| <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 more than 20 seconds.<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 connector (AB6) from airbag control module, and connect the connector (1U) in the test harness U.<br>5) Measure the voltage between connector (2U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><i>(2U) No. 3 (+) — Chassis ground (-):</i><br><i>(2U) No. 5 (+) — Chassis ground (-):</i><br><i>(2U) No. 9 (+) — Chassis ground (-):</i><br><i>(2U) No. 13 (+) — Chassis ground (-):</i> | Is the voltage less than 1 V?                                      | Go to step 4.  | Replace the airbag main harness with body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>   | Go to step 5.                                      |
| <b>5 CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?  | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                              |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## E: DTC 21 AIRBAG ECU FAILURE

### DTC DETECTING CONDITION:

Airbag control module is faulty.

### CAUTION:

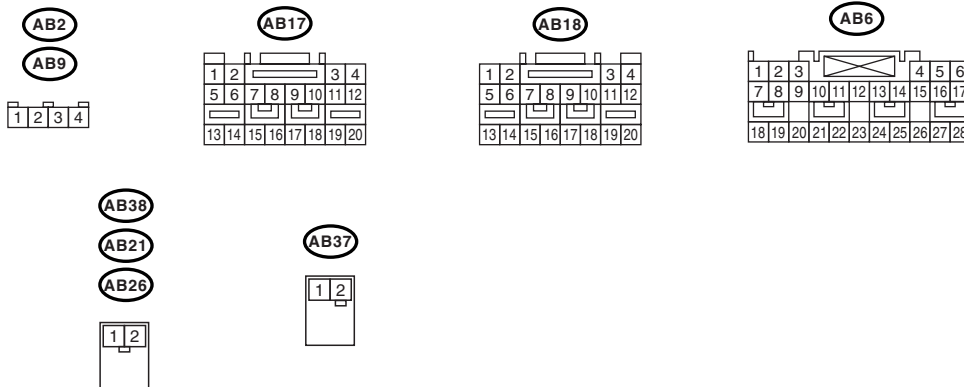
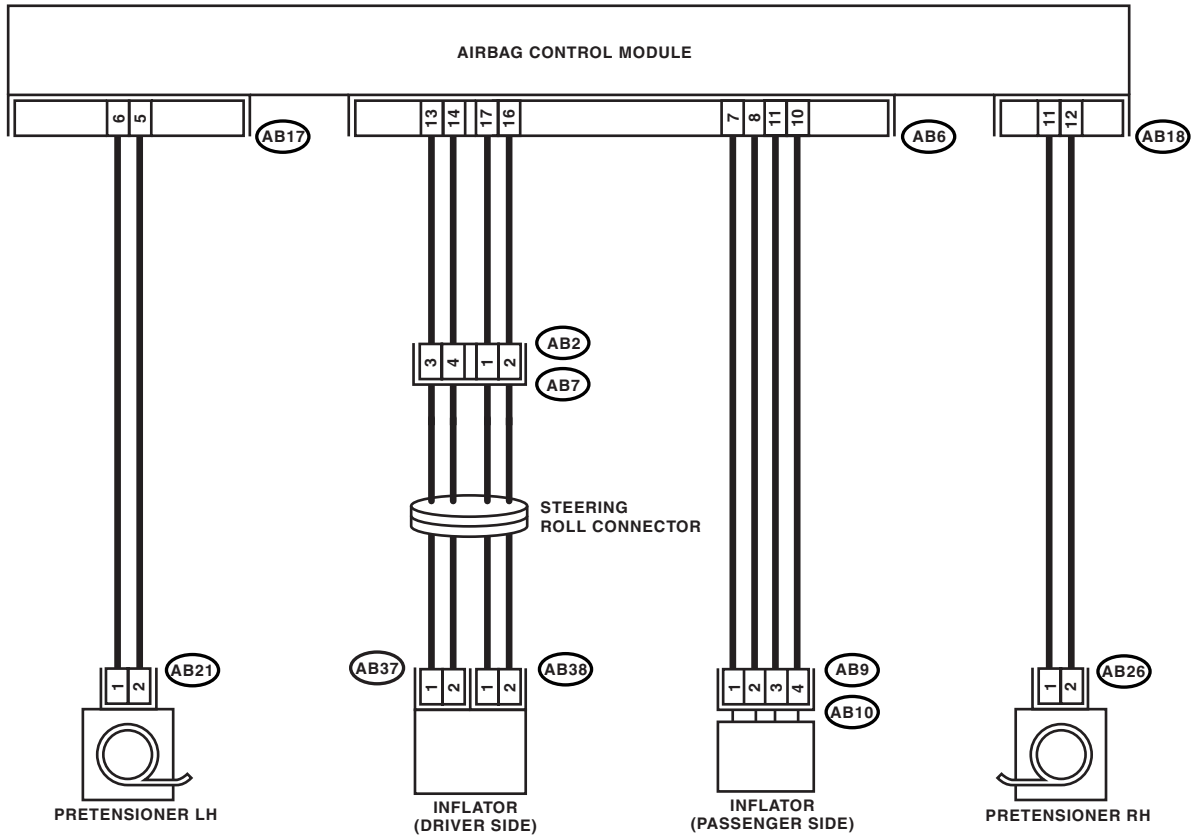
- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground terminal from battery, and wait more than 20 seconds before starting to work.
- After replacing the airbag module, seat belt pretensioner, roll connector, control module and sensor, reconnect each part and confirm that the warning light operates properly.

| Step |  | Check   | Yes   | No  |
|------|--|---|---|---|
| 1    | <b>CHECK IF DTC 21 IS INDICATED.</b><br>Read the DTC. <Ref. to AB(diag)-31, READ DIAGNOSTIC TROUBLE CODE (DTC), OPERATION, Subaru Select Monitor.> | Is DTC 21 indicated for airbag warning light? | Replace the airbag control module.<br><Ref. to AB-21, Airbag Control Module.> | Perform the clear memory mode.<br><Ref. to AB(diag)-32, CLEAR MEMORY MODE, OPERATION, Subaru Select Monitor.> |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### F: DTC 22 FRONT AIRBAG FIRING OUTPUT WIRING DIAGRAM:



AB-00922

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

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-21, Airbag Control Module.>
- Driver's airbag module<Ref. to AB-15, Driver's Airbag Module.>
- Passenger's airbag module<Ref. to AB-16, Passenger's Airbag Module.>
- Front sub sensor of both sides<Ref. to AB-25, Front Sub Sensor.>
- Front seat belt outer with pretensioner of both sides. <Ref. to SB-10, Front Seat Belt.>
- Steering roll connector<Ref. to AB-24, Roll Connector.>
- Occupant detection system (passenger's seat cushion & frame assembly)<Ref. to SE-7, Front Seat.>

## G: DTC 23 CONNECTOR TO AIRBAG ECU FAILURE

### DTC DETECTING CONDITION:

Connection of (AB6), (AB17) and (AB18) to airbag control module is improper.

### CAUTION:

**Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground terminal from battery, and wait more than 20 seconds before starting to work.**

| Step   | Check  | Yes   | No  |
|--|--|---|---|
| <b>1</b><br><b>CHECK POOR CONTACTS OF CONNECTORS (AB6), (AB17) AND (AB18).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connectors (AB6), (AB17) and (AB18) from airbag control module. | Is there rust or damage on the harness connector and the control module connector? | Replace the airbag control module.<br><Ref. to AB-21, Airbag Control Module.> Replace the body harness with the airbag main harness or replace the body harness with the side airbag harness. | Go to step 2.   |
| <b>2</b><br><b>CHECK POOR CONTACTS OF CONNECTORS (AB6), (AB17) AND (AB18).</b><br>1) Reconnect the connector securely.<br>2) Connect the battery ground terminal and turn the ignition switch to ON.   | Does the airbag warning light illuminate for 6 seconds and go off?                 | Go to step 3.   | Replace the airbag control module.<br><Ref. to AB-21, Airbag Control Module.> |
| <b>3</b><br><b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>   | Go to step 4.   |
| <b>4</b><br><b>CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?  | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).>  | Finish the diagnosis.   |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### H: DTC 24 IG1 OPEN

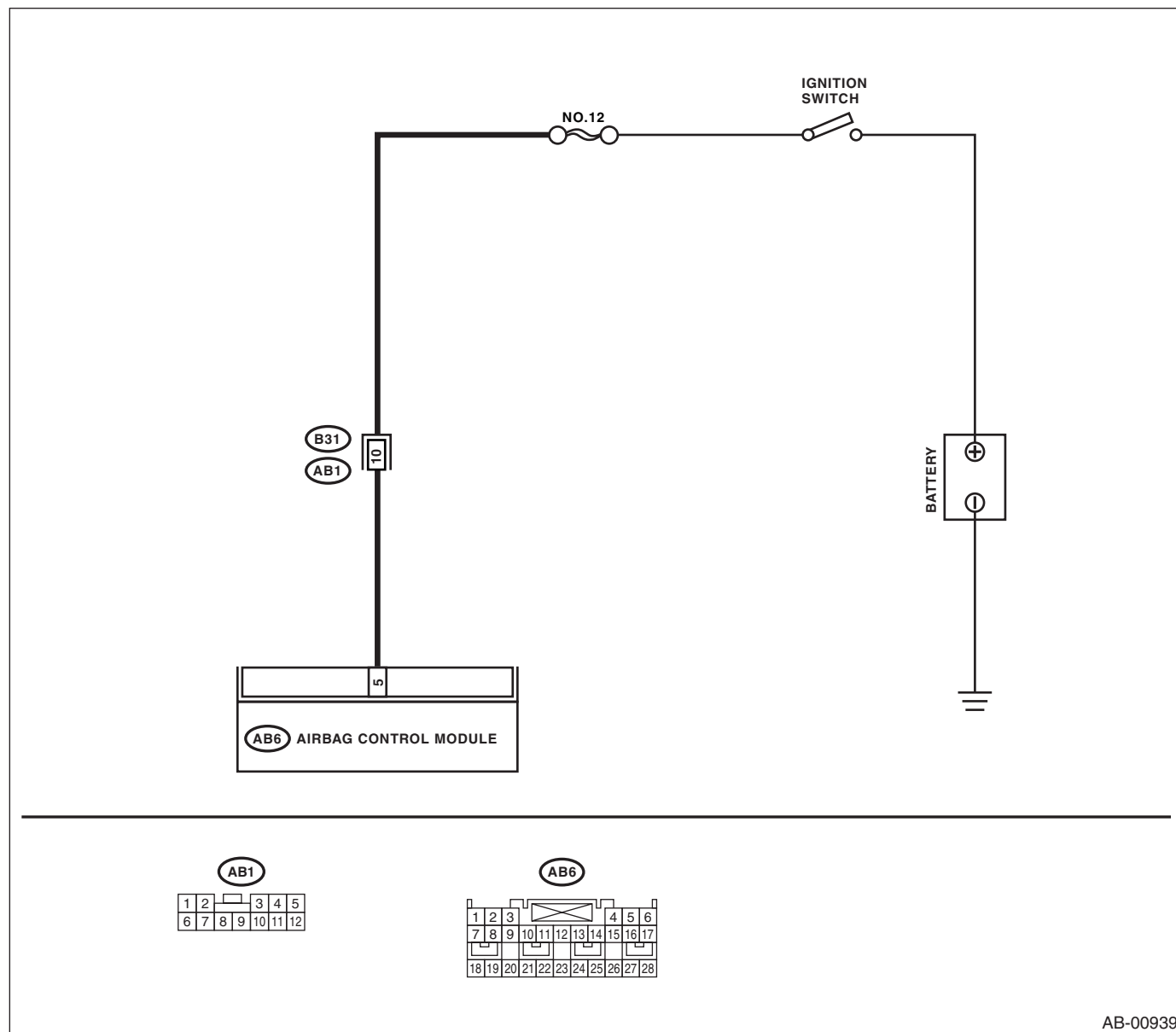
#### DTC DETECTING CONDITION:

- Airbag control module is faulty.
- Airbag main harness circuit is open.
- Fuse No. 12 (in joint box) is blown.
- Body harness circuit is open.

#### CAUTION:

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

#### WIRING DIAGRAM:



AB-00939



# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                          | Yes  | No                    |
|---|--------------------------------|--|-----------------------|
| <b>1 CHECK AIRBAG CONTROL MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB6) from airbag control module.<br>3) Connect the connector (1U) in the test harness U to connector (AB6).<br>4) Connect the battery ground terminal and turn the ignition switch to ON.<br>5) Measure the voltage between connector (2U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(2U) No. 1 (+) — Chassis ground (-):</b> | Is the voltage more than 10 V? | Replace the airbag control module.<br><Ref. to AB-21, Airbag Control Module.>  | Go to step 2.         |
| <b>2 CHECK FUSE NO. 12 (IN JOINT BOX).</b><br>1) Confirm that the ignition switch is turned to OFF.<br>2) Remove the fuse No. 12 (in joint box) and perform visual inspection.  | Is the fuse No. 12 blown out?  | Replace the fuse No. 12. If fuse No. 25 is blown out again, repair the body harness.<br>Replace the airbag main harness with body harness. | Go to step 3.         |
| <b>3 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>  | Go to step 4.         |
| <b>4 CHECK ANY OTHER DTC ON DISPLAY.</b>  | Is any other DTC displayed?    | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).>                     | Finish the diagnosis. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### I: DTC 25 IG2 OPEN

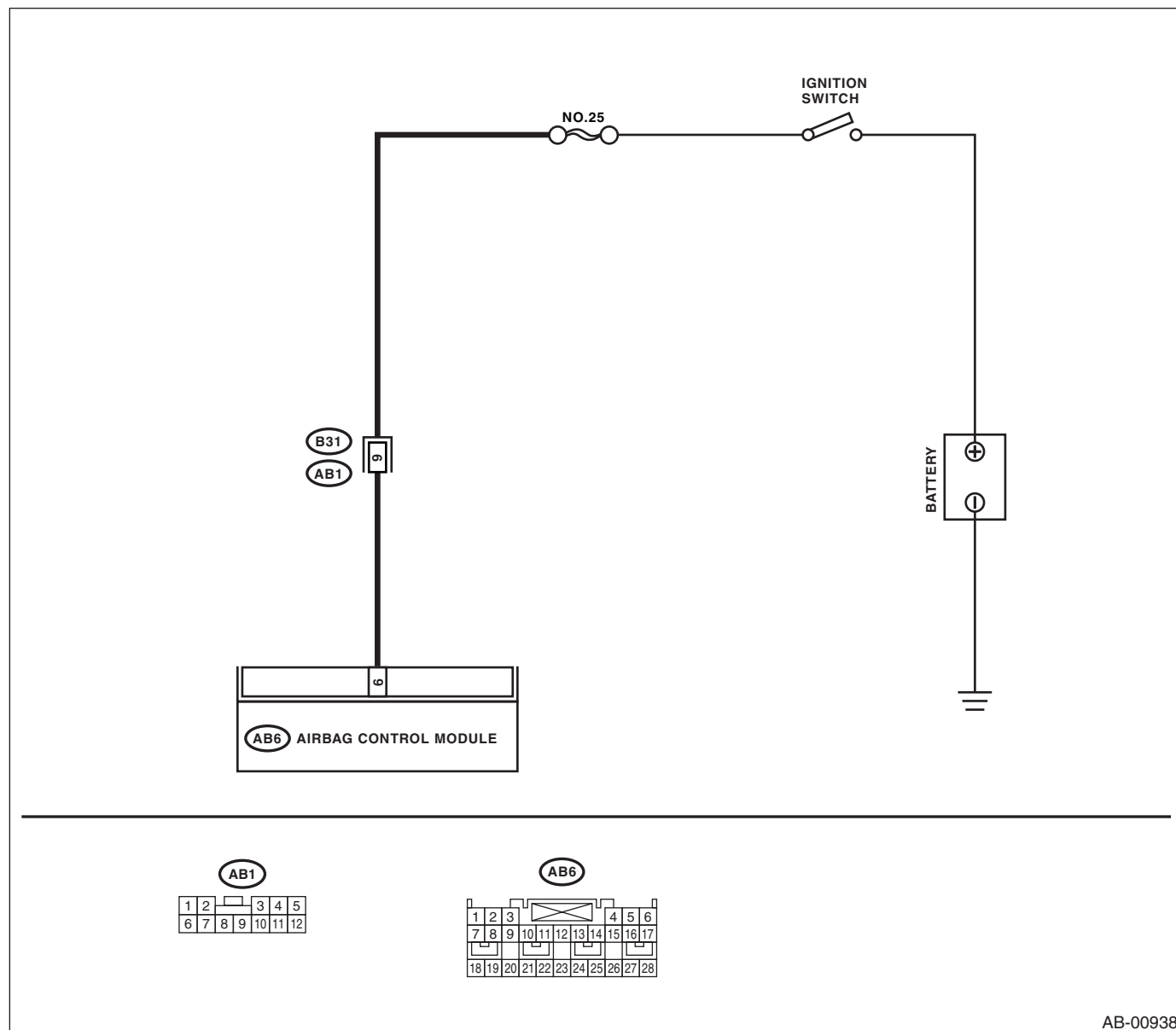
#### DTC DETECTING CONDITION:

- Airbag control module is faulty.
- Airbag main harness circuit is open.
- Fuse No. 25 (in joint box) is blown.
- Body harness circuit is open.

#### CAUTION:

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

#### WIRING DIAGRAM:



AB-00938

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                          | Yes  | No                    |
|---|--------------------------------|--|-----------------------|
| <b>1 CHECK AIRBAG CONTROL MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB6) from airbag control module.<br>3) Connect the connector (1U) in the test harness U to connector (AB6).<br>4) Connect the battery ground terminal and turn the ignition switch to ON.<br>5) Measure the voltage between connector (2U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(2U) No. 6 (+) — Chassis ground (-):</b> | Is the voltage more than 10 V? | Replace the airbag control module.<br><Ref. to AB-21, Airbag Control Module.>  | Go to step 2.         |
| <b>2 CHECK FUSE NO. 25 (IN JOINT BOX).</b><br>1) Confirm that the ignition switch is turned to OFF.<br>2) Remove the fuse No. 25 (in joint box) and perform visual inspection.  | Is the fuse No. 25 blown out?  | Replace the fuse No. 25. If fuse No. 12 is blown out again, repair the body harness. Or replace the airbag main harness with body harness. | Go to step 3.         |
| <b>3 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>  | Go to step 4.         |
| <b>4 CHECK ANY OTHER DTC ON DISPLAY.</b>  | Is any other DTC displayed?    | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).>                     | Finish the diagnosis. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

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

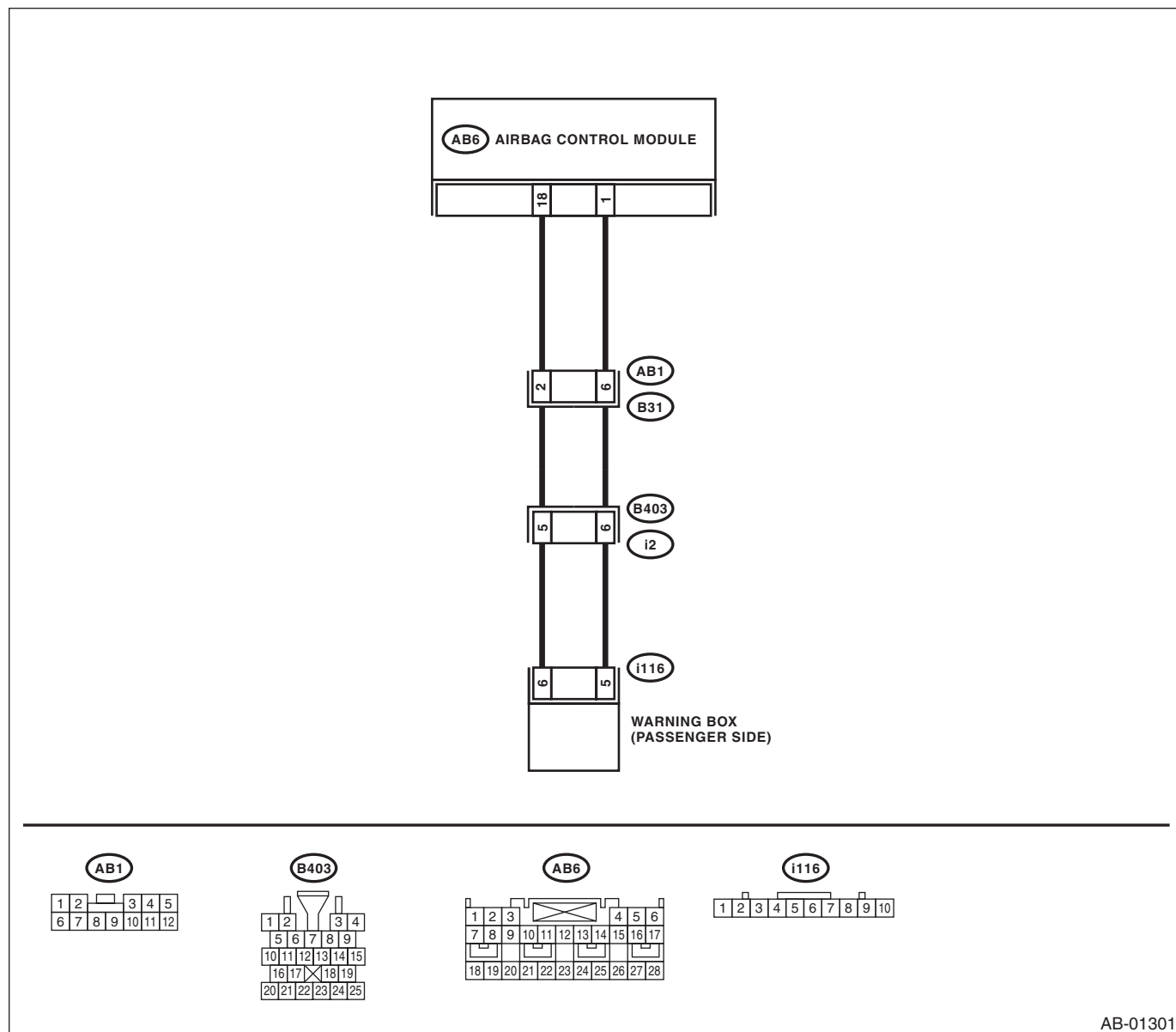
#### DTC DETECTING CONDITION:

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

#### CAUTION:

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground terminal from battery, and wait more than 20 seconds before starting to work.
- After replacing the airbag module, seat belt pretensioner, roll connector, control module and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag harness, disconnect the each airbag module connector, and seat belt pretensioner for safety reasons.

#### WIRING DIAGRAM:



AB-01301

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check   | Yes  | No   |
|--|---|--|--|
| <b>1 CHECK POOR CONTACT.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Confirm that the connector that is between the airbag control module and the passenger's side warning box is securely connected.   | Is there poor contact in any connector?       | Replace the airbag harness connector.  | Go to step 2.  |
| <b>2 CHECK AIRBAG MAIN HARNESS.</b><br>1) Disconnect the connector (AB6) 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.  | Is the passenger's seat airbag indicator lit? | Go to step 3.  | Go to step 4.  |
| <b>3 CHECK AIRBAG MAIN HARNESS.</b><br>1) Turn the ignition switch to OFF.<br>2) Remove the passenger's side warning box and disconnect the connector (i116).<br>3) Connect the connector (1U) in the test harness U to connector (AB6).<br>4) Measure the resistance between connectors (2U) and (4U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(2U) No. 14 — (4U) No. 17:</b><br><b>(2U) No. 14 — Chassis ground:</b><br><b>(4U) No. 17 — Chassis ground:</b> | Is the resistance more than 1 MΩ?             | Replace the passenger's side warning box. <Ref. to AC-46, REMOVAL, Air Vent Grille.> | Repair the bulkhead harness. Or replace the airbag main harness with body harness. |
| <b>4 CHECK THE AIRBAG HARNESS.</b><br>1) Connect the connectors (7U) and (8U) in the test harness U.<br>2) Connect the battery ground terminal and turn the ignition switch to ON.   | Is the passenger's seat airbag indicator lit? | Replace the airbag control module. <Ref. to AB-21, Airbag Control Module.>           | Go to step 5.  |
| <b>5 CHECK THE AIRBAG HARNESS.</b><br>1) Turn the ignition switch to OFF.<br>2) Connect the connector (1U) in the test harness U to connector (AB6).<br>3) Measure the resistance between connectors (2U) and (4U) in the test harness U and the connector (i116).<br><b>Connector &amp; terminal</b><br><b>(2U) No. 14 — (i116) No. 5:</b><br><b>(4U) No. 17 — (i116) No. 6:</b>  | Is the resistance less than 10 Ω?             | Go to step 6.  | Repair the bulkhead harness. Or replace the airbag main harness 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 more than 10 V?                | Replace the passenger's side warning box. <Ref. to AC-46, REMOVAL, Air Vent Grille.> | Repair the power supply line to the passenger's side warning box.                  |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### K: DTC 27 ODS COMMUNICATION ERROR

#### DTC DETECTING CONDITION:

- Occupant detection control module communication 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.

| 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 occupant detection control module.  | Is there poor contact?                    | Reconnect the connector. If defective is not improved, replace the airbag rear harness RH or the occupant detection harness (seat harness). | Go to step 2.  |
| <b>2 CHECK THE AIRBAG HARNESS.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB18) from airbag control module.<br>3) Disconnect the connectors (AB59) and (AB61) under the passenger's seat.<br>4) Connect the connector (1U) in the test harness U to connector (AB18).<br>5) Connect the connector (1AB) in the test harness AB to the connector (AB61).<br>6) Measure the resistance between connector (3U) in the test harness U and connector (2AB) in the test harness AB.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 2 — (2AB) No. 1:</b><br><b>(3U) No. 4 — (2AB) No. 2:</b> | Is the resistance less than 10 $\Omega$ ? | Go to step 3.   | Replace the airbag rear harness RH with body harness.  |
| <b>3 CHECK THE AIRBAG HARNESS.</b><br>Measure the resistance between connector (3U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 2 — Chassis ground:</b><br><b>(3U) No. 2 — (3U) No.4:</b>  | Is the resistance less than 10 $\Omega$ ? | Go to step 4.   | Replace the airbag rear harness RH with the body harness.  |
| <b>4 CHECK THE 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 more than 9 V?             | Go to step 5.   | Check the battery voltage and fuse. If there is no faulty, replace the airbag rear harness RH with body harness. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                         | Yes   | No  |
|---|-------------------------------|---|---|
| <b>5</b><br><b>CHECK THE AIRBAG HARNESS.</b><br>Measure the voltage between connector (2AB) in the test harness AB and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(2AB) No. 1 — chassis ground:</b> | Is the voltage more than 9 V? | Replace the airbag rear harness RH with body harness. | 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. |

### L: DTC 29 ODS FAILURE

#### NOTE:

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

### M: DTC 2A OCCUPANT DETECTION CALIBRATION FAILURE

#### NOTE:

Refer to “Occupant Detection System” for details on DTC 2A. <Ref. to OD(diag)-26, DTC 2A OCCUPANT DETECTION CALIBRATION FAILURE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

### N: DTC 2B ODS ERRONEOUS PARTS

#### NOTE:

Refer to “Occupant Detection System” for details on DTC 2B. <Ref. to OD(diag)-26, DTC 2B ODS ERRONEOUS PARTS, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

### O: DTC 2C BELT TENSION SENSOR FAILURE

#### NOTE:

Refer to “Occupant Detection System” for details on DTC 2C. <Ref. to OD(diag)-27, DTC 2C BELT TENSION SENSOR FAILURE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### P: DTC 31 FRONT SUB SENSOR RH FAILURE

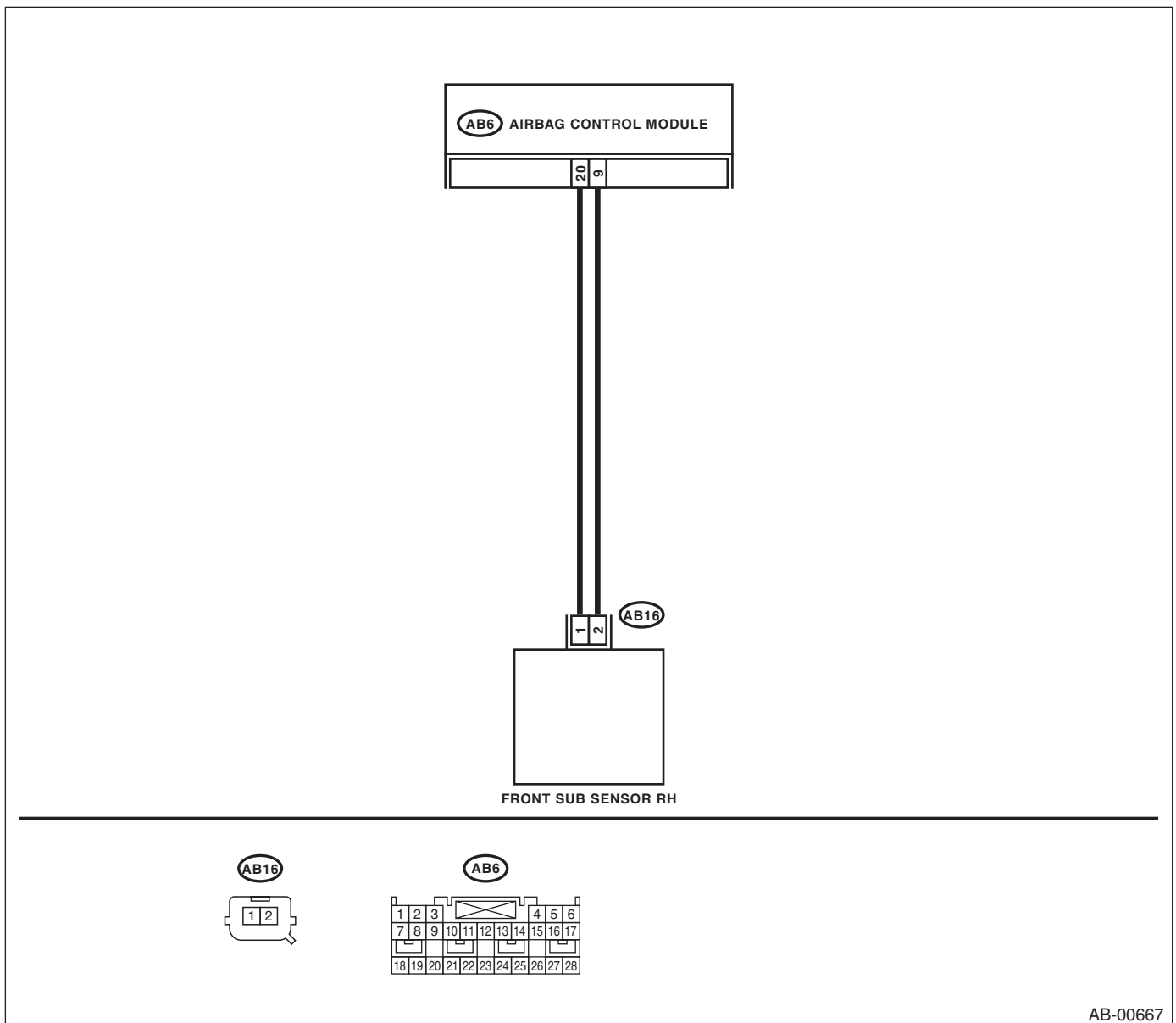
#### DTC DETECTING CONDITION:

- Front sub sensor harness (RH) circuit is shorted.
- Front sub sensor harness (RH) circuit is open.
- Front sub sensor (RH) is faulty.
- Airbag control module is faulty.

#### CAUTION:

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

#### WIRING DIAGRAM:



AB-00667



# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| 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 front sub sensor RH.   | Is there poor contact?            | Repair the connector.  | Go to step 2.                                      |
| <b>2 CHECK AIRBAG MAIN HARNESS (FRONT SUB SENSOR HARNESS RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Remove the instrument panel lower cover and disconnect the connectors (AB7) and (AB2).<br>3) Remove the console side cover lower on the passenger's side and disconnect the connectors (AB10) and (AB9).<br>4) Disconnect the connector (AB6) from airbag control module.<br>5) Connect the connector (1U) in the test harness U to connector (AB6).<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 (3U) in the test harness U and connector (3H) in the test harness H.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 7 — (3H) No. 5:</b><br><b>(3U) No. 9 — (3H) No. 6:</b> | Is the resistance less than 10 Ω? | Go to step 3.  | Replace the airbag main harness with body harness. |
| <b>3 CHECK AIRBAG MAIN HARNESS (FRONT SUB SENSOR HARNESS RH).</b><br>Measure the resistance between connector (3U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 7 — Chassis ground:</b><br><b>(3U) No. 9 — Chassis ground:</b>   | Is the resistance more than 1 MΩ? | Replace the front sub sensor (RH).<br><Ref. to AB-25, Front Sub Sensor.> Replace the airbag control module if not operating normally even after replacing the sensor.<br><Ref. to AB-21, Airbag Control Module.> | Go to step 4.                                      |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>  | Go to step 5.                                      |
| <b>5 CHECK ANY OTHER DTC ON DISPLAY.</b>  | Is any other DTC displayed?       | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).>   | Finish the diagnosis.                              |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### Q: DTC 32 FRONT SUB SENSOR LH FAILURE

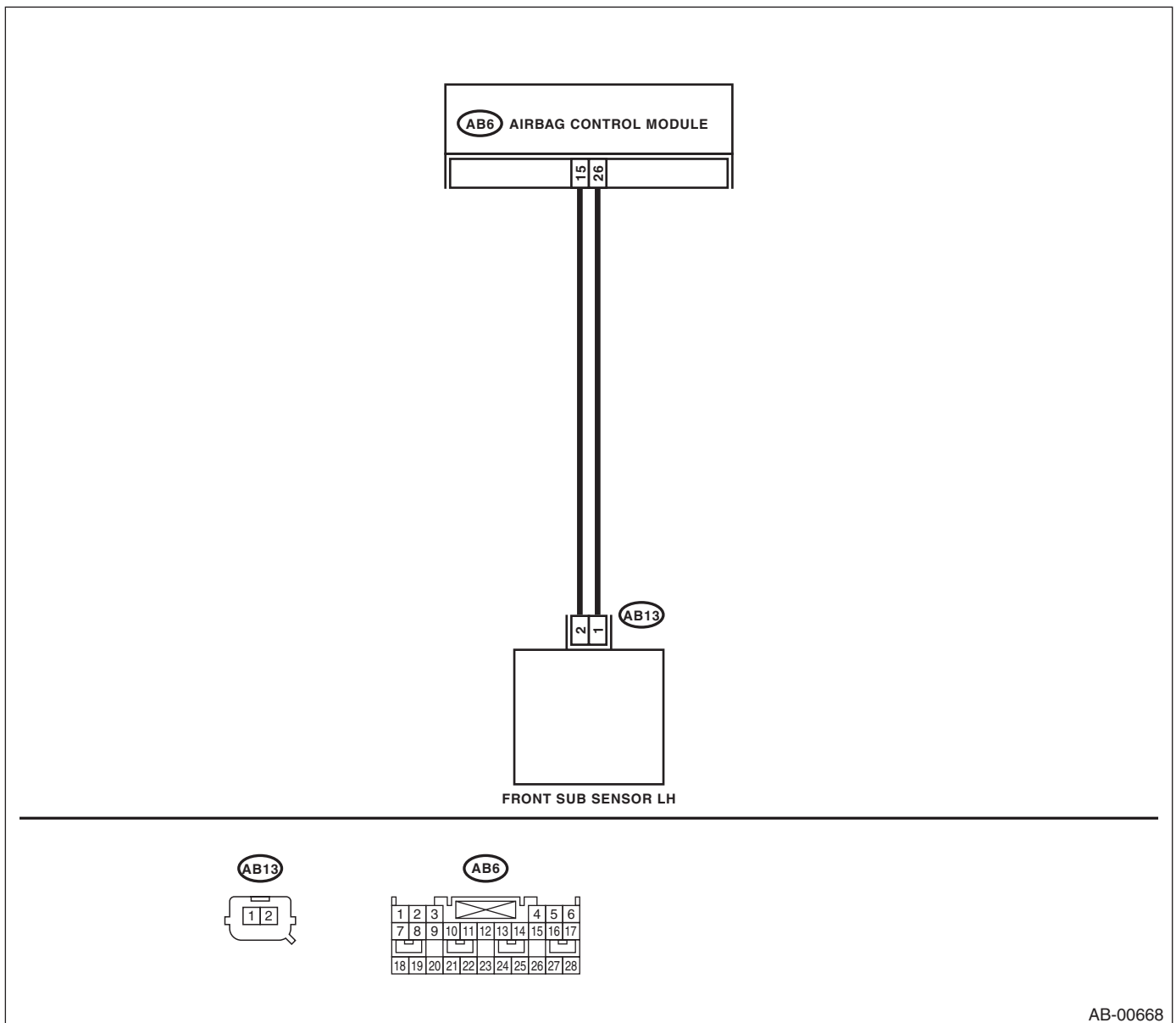
#### DTC DETECTING CONDITION:

- Front sub sensor harness (LH) circuit is shorted.
- Front sub sensor harness (LH) circuit is open.
- Front sub sensor (LH) is faulty.
- Airbag control module is faulty.

#### CAUTION:

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

#### WIRING DIAGRAM:



AB-00668

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| 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 front sub sensor LH.   | Is there poor contact?            | Replace the airbag main harness with body harness.   | Go to step 2.                                      |
| <b>2 CHECK AIRBAG MAIN HARNESS (FRONT SUB SENSOR HARNESS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Remove the instrument panel lower cover and disconnect the connectors (AB7) and (AB2).<br>3) Remove the console side cover lower on the passenger's side and disconnect the connectors (AB10) and (AB9).<br>4) Disconnect the connector (AB6) from airbag control module.<br>5) Connect the connector (1U) in the test harness U to connector (AB6).<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 (3U) in the test harness U and connector (3H) in the test harness H.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 6 — (3H) No. 5:</b><br><b>(3U) No. 8 — (3H) No. 6:</b> | Is the resistance less than 10 Ω? | Go to step 3.  | Replace the airbag main harness with body harness. |
| <b>3 CHECK AIRBAG MAIN HARNESS (FRONT SUB SENSOR HARNESS LH).</b><br>Measure the resistance between connector (3U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 6 — Chassis ground:</b><br><b>(3U) No. 8 — Chassis ground:</b>   | Is the resistance more than 1 MΩ? | Replace the front sub sensor (LH).<br><Ref. to AB-25, Front Sub Sensor.> Replace the airbag control module if not operating normally even after replacing the sensor.<br><Ref. to AB-21, Airbag Control Module.> | Go to step 4.                                      |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>  | Go to step 5.                                      |
| <b>5 CHECK ANY OTHER DTC ON DISPLAY.</b>  | Is any other DTC displayed?       | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).>   | Finish the diagnosis.                              |

## Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

---

### **R: 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-25, Front Sub Sensor.>

### **S: 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-25, Front Sub Sensor.>

## T: DTC 36 SEAT POSITION SENSOR LH FAILURE

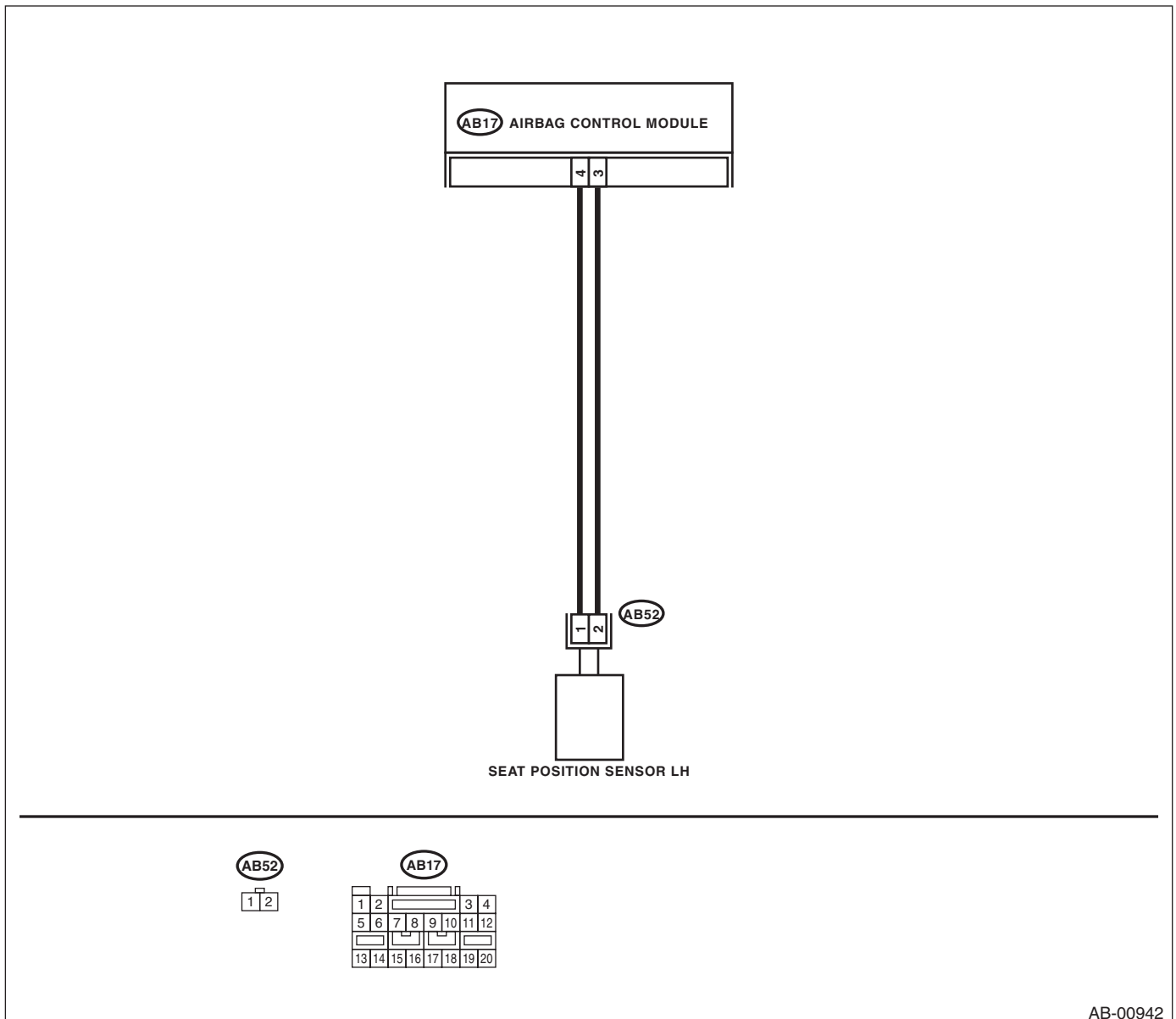
### DTC DETECTING CONDITION:

- Driver's seat position sensor is faulty.
- Airbag control module is faulty.
- Airbag rear harness LH circuit is open, shorted or shorted to ground.

### CAUTION:

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground terminal from battery, and wait more than 20 seconds before starting to work.
- After replacing the airbag module, seat belt pretensioner, roll connector, control module and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag harness, disconnect the each airbag module connector, and seat belt pretensioner for safety reasons.

### WIRING DIAGRAM:



## Diagnostic Chart with Trouble Code

### AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check  | Yes  | No  |
|--|--|--|---|
| <b>1</b><br><b>CHECK THE SEAT POSITION SENSOR (LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB52) from the seat position sensor (LH).<br>3) Connect the connector (2Y) in the test harness Y to connector (AB52).<br>4) Connect the battery ground terminal and turn the ignition switch to ON.   | Does the airbag warning light illuminate for 6 seconds and go off? | Replace the seat position sensor (LH) with the driver's seat slide rail assembly.<br><Ref. to SE-7, Front Seat.> | Go to step 2.   |
| <b>2</b><br><b>CHECK AIRBAG REAR HARNESS LH (SEAT POSITION SENSOR HARNESS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB23) from side airbag module (LH).<br>3) Disconnect the connector (AB31) from curtain airbag module (LH).<br>4) Disconnect the connector (AB21) from seat belt pretensioner (LH).<br>5) Disconnect the connector (AB17) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (AB17).<br>7) Disconnect the seat position sensor (LH), and then connect the connector (1H) in the test harness H to connector (AB52).<br>8) Measure the resistance between connector (3U) in the test harness U and connector (3H) in the test harness H.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 1 — (3H) No. 6:</b><br><b>(3U) No. 3 — (3H) No. 5:</b> | Is the resistance less than 10 $\Omega$ ?                          | Go to step 3.  | Replace the airbag rear harness LH with the body harness. |
| <b>3</b><br><b>CHECK AIRBAG REAR HARNESS LH.</b><br>Measure the resistance between connector (3U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 1 — Chassis ground:</b>  | Is the resistance less than 10 $\Omega$ ?                          | Replace the airbag rear harness LH with the body harness.  | Replace the airbag control module.                        |

### U: DTC 37 BUCKLE SWITCH RH FAILURE

#### NOTE:

Refer to "Occupant Detection System" for details on DTC 37. <Ref. to OD(diag)-30, DTC 37 BUCKLE SWITCH RH FAILURE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

## V: DTC 38 BUCKLE SWITCH LH FAILURE

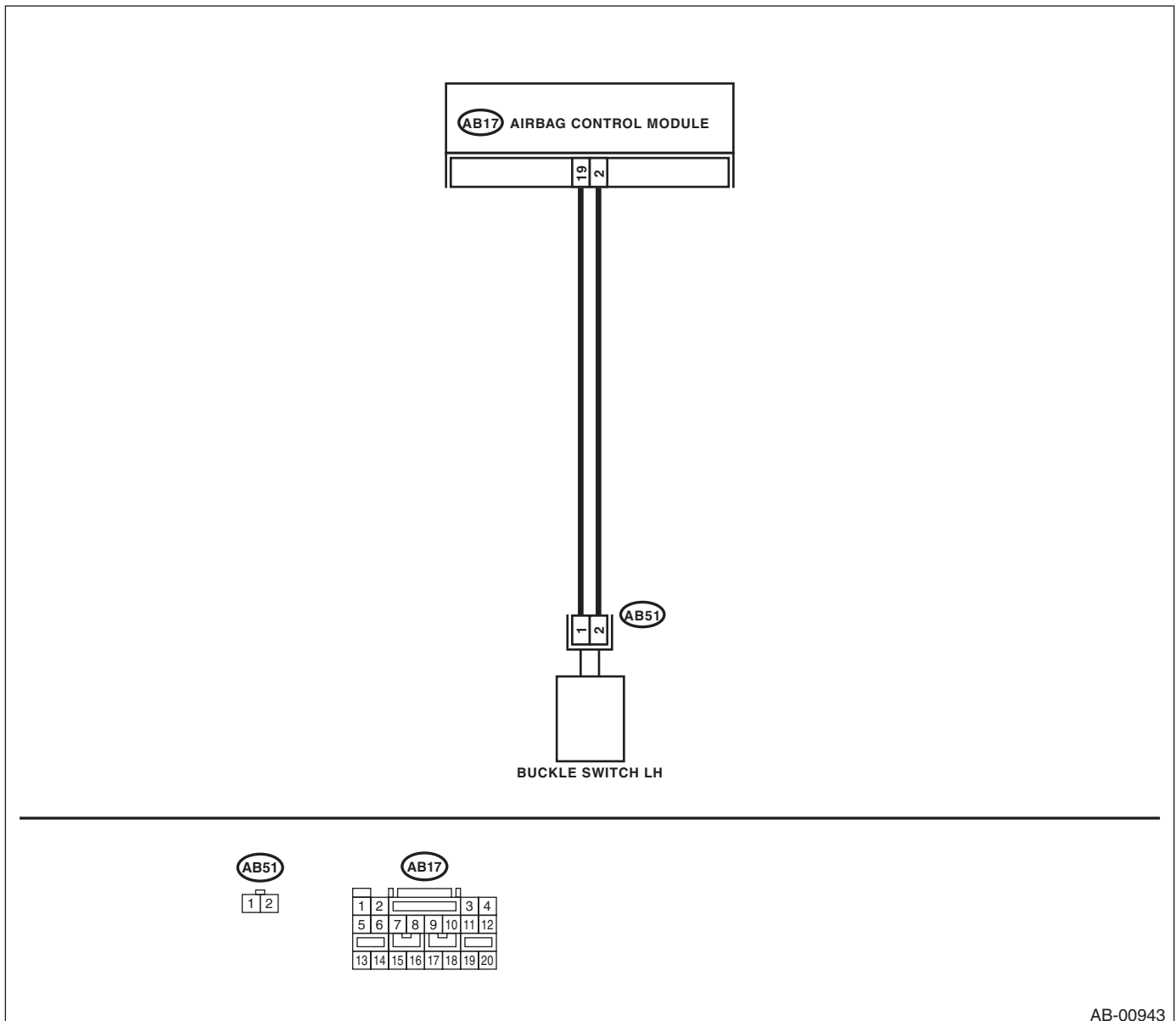
### DTC DETECTING CONDITION:

- Driver's seat buckle switch circuit is open, shorted or shorted to ground.
- Airbag rear harness LH circuit is open, shorted or shorted to ground.
- Airbag control module is faulty.

### CAUTION:

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground terminal from battery, and wait more than 20 seconds before starting to work.
- After replacing the airbag module, seat belt pretensioner, roll connector, control module and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag harness, disconnect the each airbag module connector, and seat belt pretensioner for safety reasons.

### WIRING DIAGRAM:



AB-00943

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check  | Yes   | No  |
|---|--|---|---|
| <b>1 CHECK SEAT BELT BUCKLE SWITCH (LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB51) from the buckle switch (LH).<br>3) Connect the connector (1Y) in the test harness Y to connector (AB51).<br>4) Connect the battery ground terminal and turn the ignition switch to ON.  | Does the airbag warning light illuminate for 6 seconds and go off? | Replace the seat belt buckle switch (LH). <Ref. to SB-10, Front Seat Belt.> | Go to step 2.   |
| <b>2 CHECK AIRBAG REAR HARNESS LH (BUCKLE SWITCH HARNESS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB23) from side airbag module (LH).<br>3) Disconnect the connector (AB31) from curtain airbag module (LH).<br>4) Disconnect the connector (AB21) from seat belt pretensioner (LH).<br>5) Disconnect the connector (AB17) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (AB17).<br>7) Disconnect the seat belt buckle switch (LH), and then connect the connector (1D) in the test harness D to connector (AB51).<br>8) Measure the resistance between connectors (4U) and (5U) in the test harness U and connector (3D) in the test harness D.<br><b>Connector &amp; terminal</b><br><b>(4U) No. 11 — (3D) No. 3:</b><br><b>(4U) No. 9 — (3D) No. 4:</b> | Is the resistance less than 10 $\Omega$ ?                          | Go to step 3.   | Replace the airbag rear harness LH with the body harness. |
| <b>3 CHECK AIRBAG REAR HARNESS LH.</b><br>Measure the resistance between connector (3U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(4U) No. 9 — (4U) No. 11:</b><br><b>(4U) No. 9 — Chassis ground:</b>   | Is the resistance less than 10 $\Omega$ ?                          | Replace the airbag rear harness LH with the body harness.                   | Replace the airbag control module.                        |



## AIRBAG SYSTEM (DIAGNOSTICS)

**AB(diag)-81**

## Diagnostic Chart with Trouble Code

### AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check   | Yes   | No  |
|---|---|---|---|
| <b>1</b><br><b>CHECK THE AIRBAG HARNESS.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB6) 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</b><br><b>CHECK THE AIRBAG HARNESS.</b><br>1) Turn the ignition switch to OFF.<br>2) Connect the connector (1U) in the test harness U to connector (AB6).<br>3) Measure the resistance between connector (4U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(4U) No. 16 — Chassis ground:</b> | Is the resistance more than 1 MΩ?   | Replace the body integrated module.   | Repair the bulk-head harness. Or replace the airbag main harness with body harness. |
| <b>3</b><br><b>CHECK THE AIRBAG HARNESS.</b><br>1) With the condition of step 2, connect the connectors (7U) and (8U) in the test harness U.<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-21, Airbag Control Module.> | Go to step 4.   |
| <b>4</b><br><b>CHECK THE AIRBAG HARNESS.</b><br>1) With the condition of step 3, disconnect the connectors (7U) and (8U) in the test harness U.<br>2) Measure the resistance between connector (4U) in the test harness U and the connector (i84).<br><b>Connector &amp; terminal</b><br><b>(4U) No. 16 — (84) No. 13:</b>              | Is the resistance less than 10 Ω?   | Replace the body integrated module.   | Repair the bulk-head harness. Or replace the airbag main harness with body harness. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## X: DTC 41 SIDE AIRBAG RH FAILURE

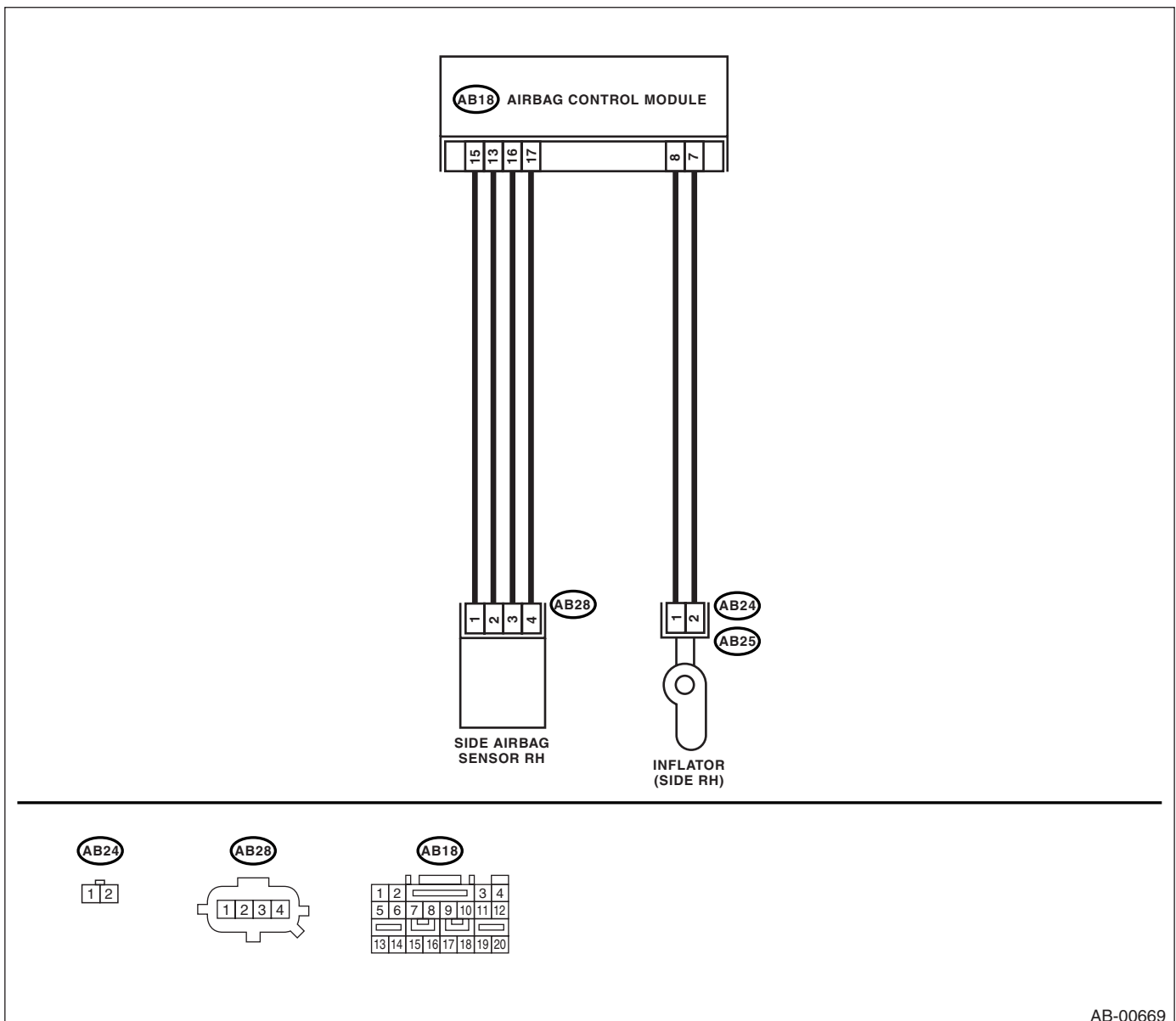
### DTC DETECTING CONDITION:

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

### CAUTION:

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

### WIRING DIAGRAM:



AB-00669

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check  | Yes  | No  |
|---|--|--|---|
| <b>1 CHECK POOR CONTACT OF CONNEC-TORS.</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 RH with body harness.            | Go to step 2.   |
| <b>2 CHECK SIDE AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB25) from (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 6 seconds and go off? | Replace the side airbag module (RH). <Ref. to SE-7, Front Seat.> | Go to step 3.   |
| <b>3 CHECK AIRBAG REAR HARNESS RH (SIDE AIRBAG MODULE HARNESS RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<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 connector (AB18) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (AB18).<br>7) Measure the resistance between connector (3U) in the test harness U and connector (3F) in the test harness F.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 20 — (3F) No. 4:</b><br><b>(3U) No. 18 — (3F) No. 3:</b> | Is the resistance less than 10 $\Omega$ ?                          | Go to step 4.  | Replace the airbag rear harness RH with body harness. |
| <b>4 CHECK AIRBAG REAR HARNESS RH (SIDE AIRBAG MODULE HARNESS RH).</b><br>Measure the resistance between connector (3U) terminals in the test harness U.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 20 — (3U) No. 18:</b>  | Is the resistance more than 1 M $\Omega$ ?                         | Go to step 5.  | Replace the airbag rear harness RH with body harness. |
| <b>5 CHECK AIRBAG REAR HARNESS RH (SIDE AIRBAG MODULE HARNESS RH).</b><br>Measure the resistance between connector (3U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 20 — Chassis ground:</b><br><b>(3U) No. 18 — Chassis ground:</b>  | Is the resistance more than 1 M $\Omega$ ?                         | Go to step 6.  | Replace the airbag rear harness RH with body harness. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| Step |  | Check                       | Yes  | No                    |
|------|--|-----------------------------|--|-----------------------|
| 6    | <b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>  | Go to step 7.         |
| 7    | <b>CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed? | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### Y: DTC 42 SIDE AIRBAG LH FAILURE

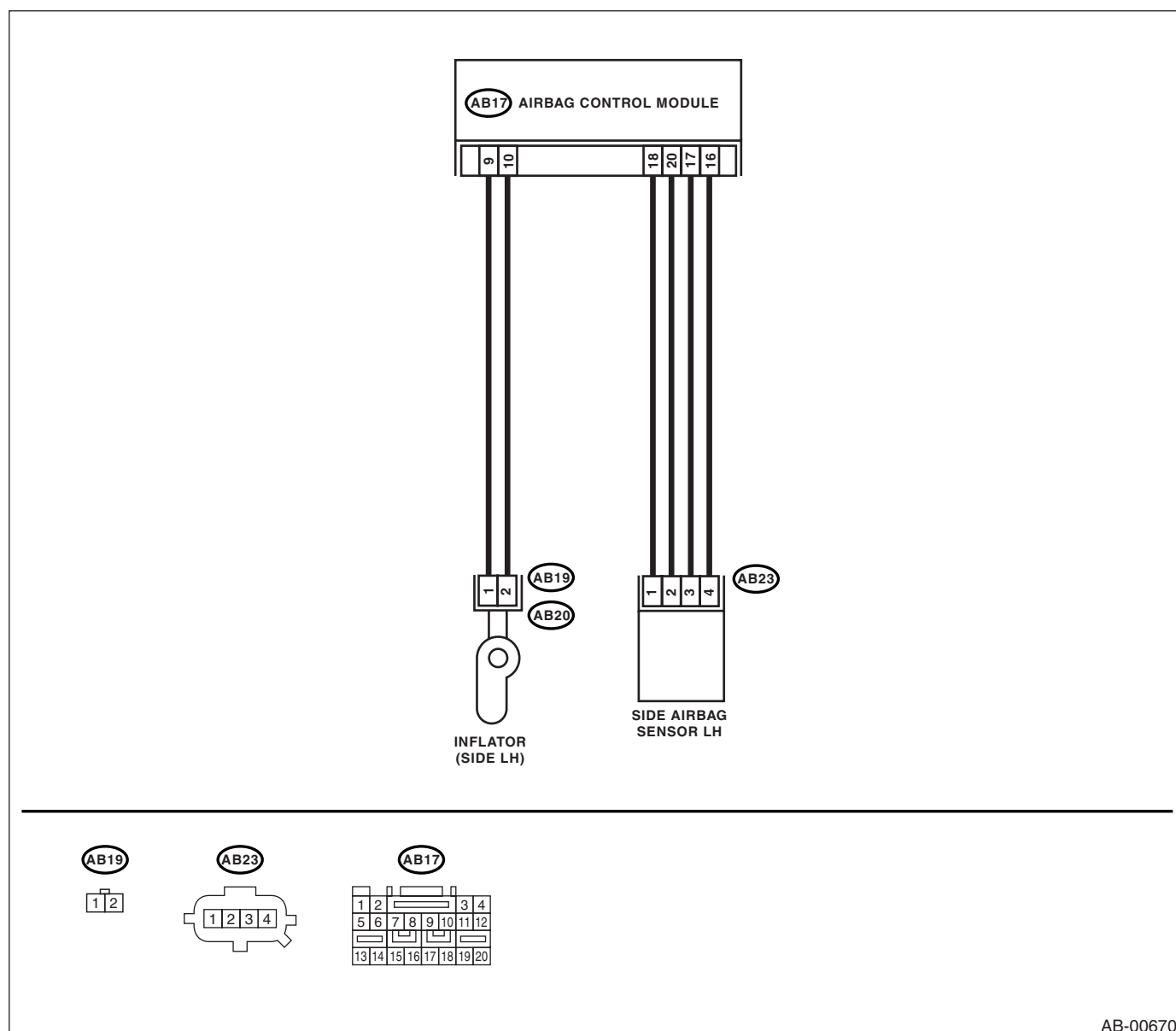
#### DTC DETECTING CONDITION:

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

#### CAUTION:

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

#### WIRING DIAGRAM:



# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| 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, side airbag module LH and the side airbag sensor LH.  | Is there poor contact?   | Replace the airbag rear harness LH with the body harness.        | Go to step 2.   |
| <b>2 CHECK SIDE AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB20) from (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 6 seconds and go off? | Replace the side airbag module (LH). <Ref. to SE-7, Front Seat.> | Go to step 3.   |
| <b>3 CHECK AIRBAG REAR HARNESS LH (SIDE AIRBAG MODULE HARNESS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<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 connector (AB17) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (AB17).<br>7) Measure the resistance between connector (3U) in the test harness U and connector (3F) in the test harness F.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 12 — (3F) No. 4:</b><br><b>(3U) No. 10 — (3F) No. 3:</b> | Is the resistance less than 10 $\Omega$ ?                          | Go to step 4.  | Replace the airbag rear harness LH with the body harness. |
| <b>4 CHECK AIRBAG REAR HARNESS LH (SIDE AIRBAG MODULE HARNESS LH).</b><br>Measure the resistance between connector (3U) terminals in the test harness U.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 12 — (3U) No. 10:</b>  | Is the resistance more than 1 M $\Omega$ ?                         | Go to step 5.  | Replace the airbag rear harness LH with the body harness. |
| <b>5 CHECK AIRBAG REAR HARNESS LH (SIDE AIRBAG MODULE HARNESS LH).</b><br>Measure the resistance between connector (3U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 12 — Chassis ground:</b><br><b>(3U) No. 10 — Chassis ground:</b>  | Is the resistance more than 1 M $\Omega$ ?                         | Go to step 6.  | Replace the airbag rear harness LH with the body harness. |

## Diagnostic Chart with Trouble Code

### AIRBAG SYSTEM (DIAGNOSTICS)

| Step |  | Check                       | Yes  | No                    |
|------|--|-----------------------------|--|-----------------------|
| 6    | <b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>  | Go to step 7.         |
| 7    | <b>CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed? | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis. |



# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## Z: DTC 45 SIDE AIRBAG RH FAILURE

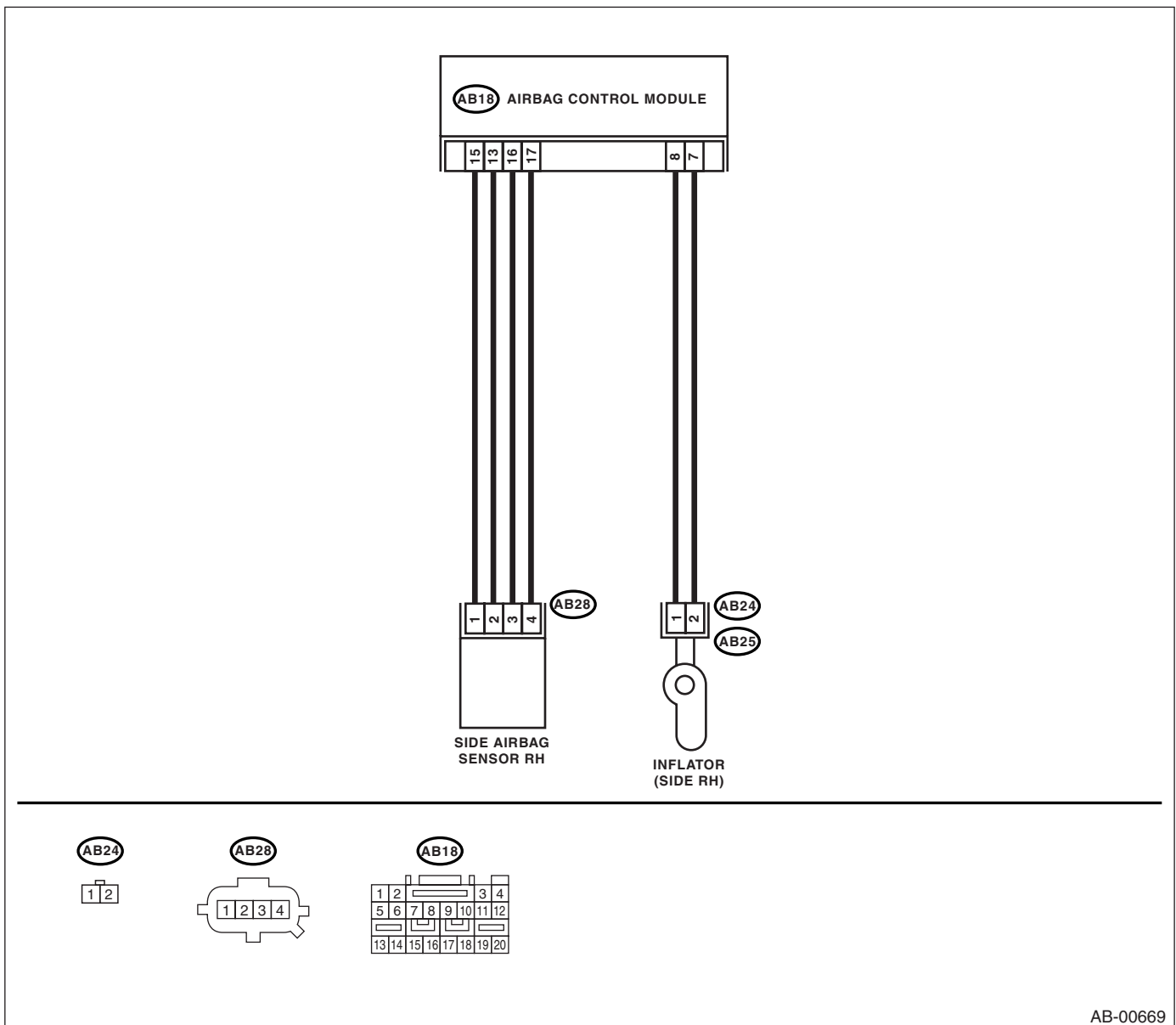
### DTC DETECTING CONDITION:

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

### CAUTION:

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

### WIRING DIAGRAM:



AB-00669

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| 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, side airbag module RH and the side airbag sensor RH.   | Is there poor contact?   | Replace the airbag rear harness RH with body harness.  | Go to step 2.   |
| <b>2 CHECK SIDE AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB25) from (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 6 seconds and go off? | Replace the side airbag module (RH). <Ref. to SE-7, Front Seat.>   | Go to step 3.   |
| <b>3 CHECK AIRBAG REAR HARNESS RH (SIDE AIRBAG MODULE HARNESS RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<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 connector (AB18) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (AB18).<br>7) Connect the battery ground terminal and turn the ignition switch to ON.<br>8) Measure the voltage between connector (3U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 20 (+) — Chassis ground (-):</b><br><b>(3U) No. 18 (+) — Chassis ground (-):</b> | Is the voltage less than 1 V?                                      | Go to step 4.  | Replace the airbag rear harness RH with body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>   | Go to step 5.   |
| <b>5 CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?  | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                 |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## AA:DTC 46 SIDE AIRBAG LH FAILURE

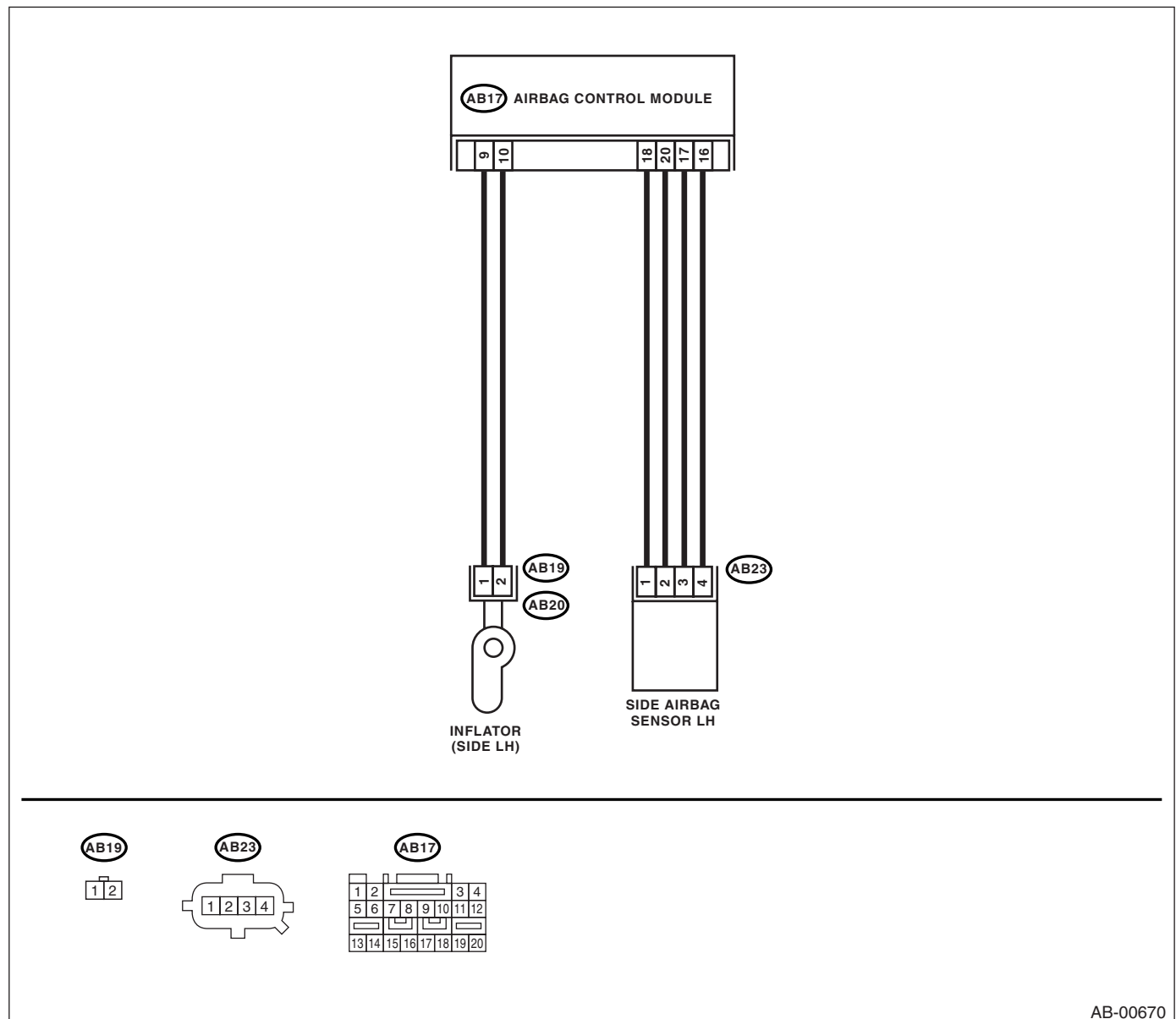
### DTC DETECTING CONDITION:

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

### CAUTION:

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

### WIRING DIAGRAM:



AB-00670

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| 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, side airbag module LH and the side airbag sensor LH.   | Is there poor contact?   | Replace the airbag rear harness LH with the body harness.  | Go to step 2.   |
| <b>2 CHECK SIDE AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB20) from (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 6 seconds and go off? | Replace the side airbag module (LH). <Ref. to SE-7, Front Seat.>   | Go to step 3.   |
| <b>3 CHECK AIRBAG REAR HARNESS LH (SIDE AIRBAG MODULE HARNESS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<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 connector (AB17) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (AB17).<br>7) Connect the battery ground terminal and turn the ignition switch to ON.<br>8) Measure the voltage between connector (3U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 12 (+) — Chassis ground (-):</b><br><b>(3U) No. 10 (+) — Chassis ground (-):</b> | Is the voltage less than 1 V?                                      | Go to step 4.  | Replace the airbag rear harness LH with the body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>   | Go to step 5.   |
| <b>5 CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?  | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                     |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## AB:DTC 51 SIDE AIRBAG SENSOR RH FAILURE

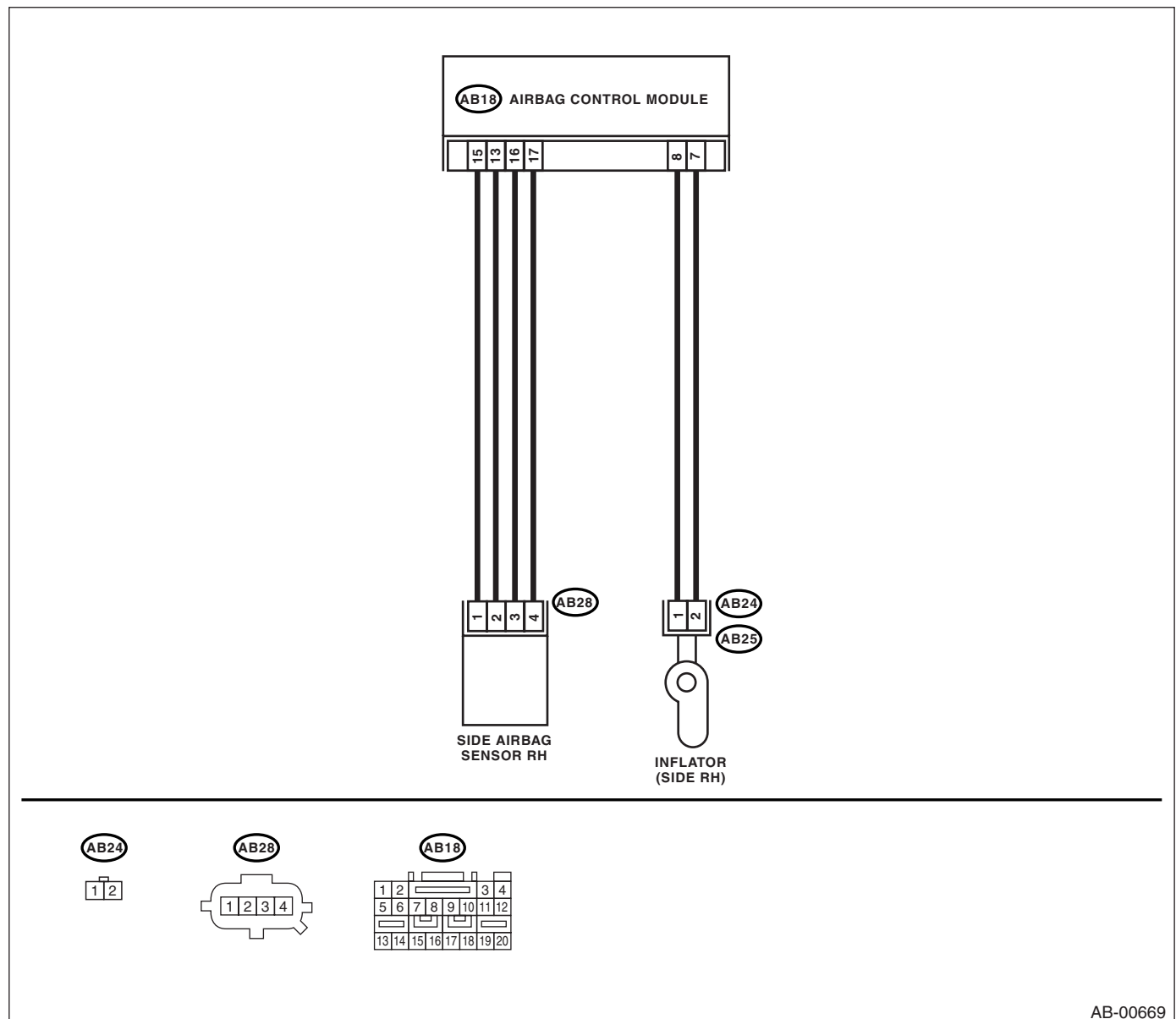
### DTC DETECTING CONDITION:

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

### CAUTION:

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

### WIRING DIAGRAM:



AB-00669

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| 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, side airbag module RH and the side airbag sensor RH.   | Is there poor contact?                     | Replace the airbag rear harness RH with body harness.  | Go to step 2.   |
| <b>2 CHECK AIRBAG REAR HARNESS RH (SIDE AIRBAG SENSOR HARNESS RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<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 connector (AB25) from (AB24).<br>5) Disconnect the connector (AB18) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (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 (4U) in the test harness U and connector (3V) in the test harness V.<br><b>Connector &amp; terminal</b><br><b>(4U) No. 5 — (3V) No. 2:</b><br><b>(4U) No. 7 — (3V) No. 1:</b><br><b>(4U) No. 8 — (3V) No. 5:</b><br><b>(4U) No. 6 — (3V) No. 4:</b> | Is the resistance less than 10 $\Omega$ ?  | Go to step 3.  | Replace the airbag rear harness RH with body harness. |
| <b>3 CHECK AIRBAG REAR HARNESS RH (SIDE AIRBAG SENSOR HARNESS RH).</b><br>Measure the resistance between connector (4U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(4U) No. 5 — Chassis ground:</b><br><b>(4U) No. 7 — Chassis ground:</b><br><b>(4U) No. 8 — Chassis ground:</b><br><b>(4U) No. 6 — Chassis ground:</b>   | Is the resistance more than 1 M $\Omega$ ? | Go to step 4.  | Replace the airbag rear harness RH with body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase the memory.<br>3) Perform the inspection mode.<br>4) Read the DTC.   | Is the same DTC displayed?                 | Replace the side airbag sensor (RH). <Ref. to AB-22, Side Airbag Sensor.> Replace the airbag control module if not operating normally even after replacing the sensor. <Ref. to AB-21, Airbag Control Module.> | Go to step 5.   |
| <b>5 CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?                | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).>   | Finish the diagnosis.                                 |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## AC:DTC 52 SIDE AIRBAG SENSOR LH FAILURE

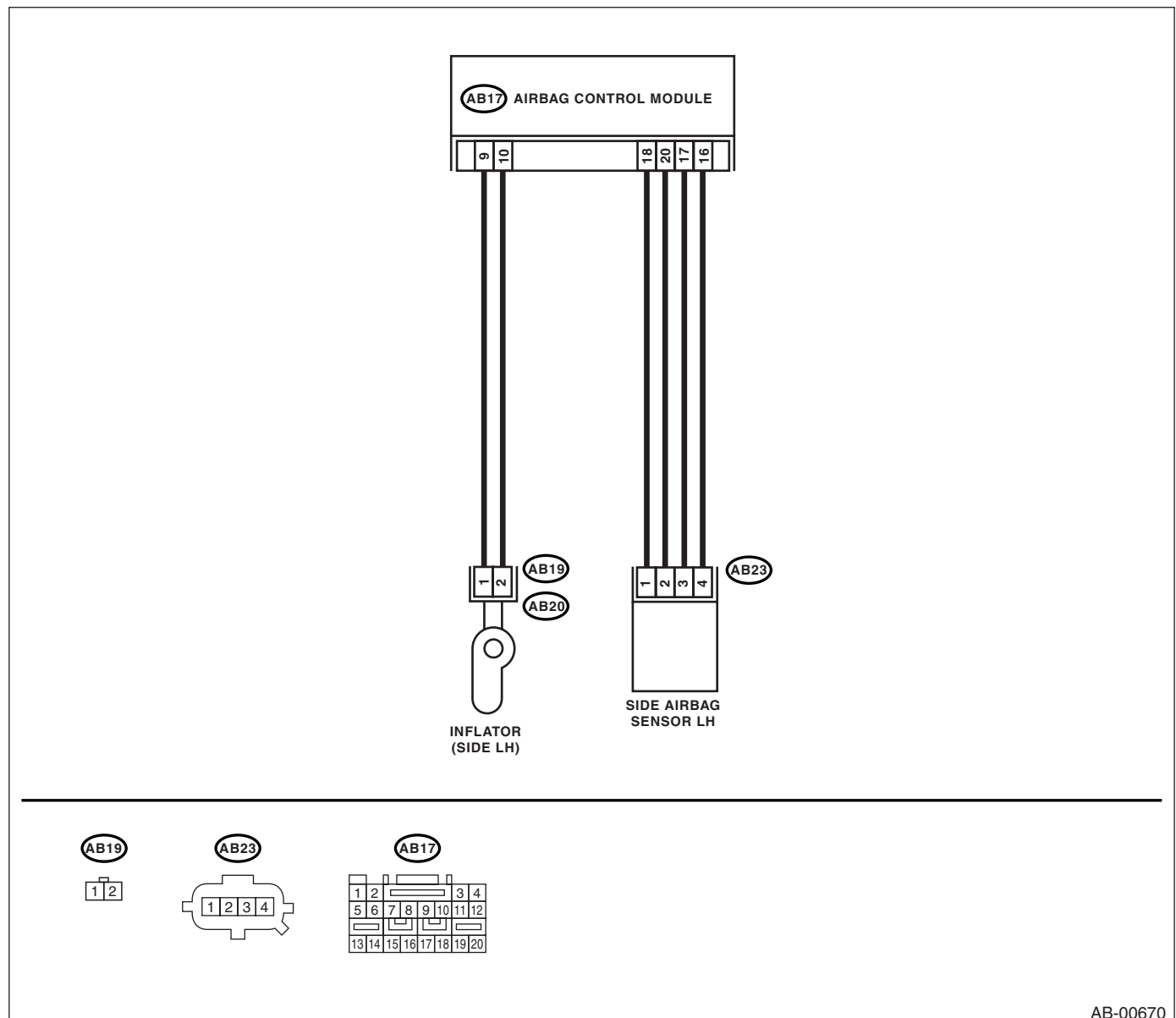
### DTC DETECTING CONDITION:

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

### CAUTION:

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

### WIRING DIAGRAM:



AB-00670

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| 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, side airbag module LH and the side airbag sensor LH.   | Is there poor contact?                     | Replace the airbag rear harness LH with the body harness.  | Go to step 2.   |
| <b>2 CHECK AIRBAG REAR HARNESS LH (SIDE AIRBAG SENSOR HARNESS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<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 connector (AB20) from (AB19).<br>5) Disconnect the connector (AB17) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (AB17).<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 (4U) in the test harness U and connector (3V) in the test harness V.<br><b>Connector &amp; terminal</b><br><b>(4U) No. 3 — (3V) No. 4:</b><br><b>(4U) No. 1 — (3V) No. 5:</b><br><b>(4U) No. 2 — (3V) No. 1:</b><br><b>(4U) No. 4 — (3V) No. 2:</b> | Is the resistance less than 10 $\Omega$ ?  | Go to step 3.  | Replace the airbag rear harness LH with the body harness. |
| <b>3 CHECK AIRBAG REAR HARNESS LH (SIDE AIRBAG SENSOR HARNESS LH).</b><br>Measure the resistance between connector (4U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(4U) No. 3 — Chassis ground:</b><br><b>(4U) No. 1 — Chassis ground:</b><br><b>(4U) No. 2 — Chassis ground:</b><br><b>(4U) No. 4 — Chassis ground:</b>   | Is the resistance more than 1 M $\Omega$ ? | Go to step 4.  | Replace the airbag rear harness LH with the body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase the memory.<br>3) Perform the inspection mode.<br>4) Read the DTC.   | Is the same DTC displayed?                 | Replace the side airbag sensor (LH). <Ref. to AB-22, Side Airbag Sensor.> Replace the airbag control module if not operating normally even after replacing the sensor. <Ref. to AB-21, Airbag Control Module.> | Go to step 5.   |
| <b>5 CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?                | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).>   | Finish the diagnosis.                                     |



### **AD: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.>

### **AE: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.>

### **AF: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-21, 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-19, Curtain Airbag Module.>
- Curtain airbag sensor (Operating side) <Ref. to AB-23, Curtain Airbag Sensor.>
- Front outer seat belt with pretensioner (operating side) <Ref. to SB-10, Front Seat Belt.>

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### AG:DTC 56 CURTAIN AIRBAG SENSOR RH FAILURE

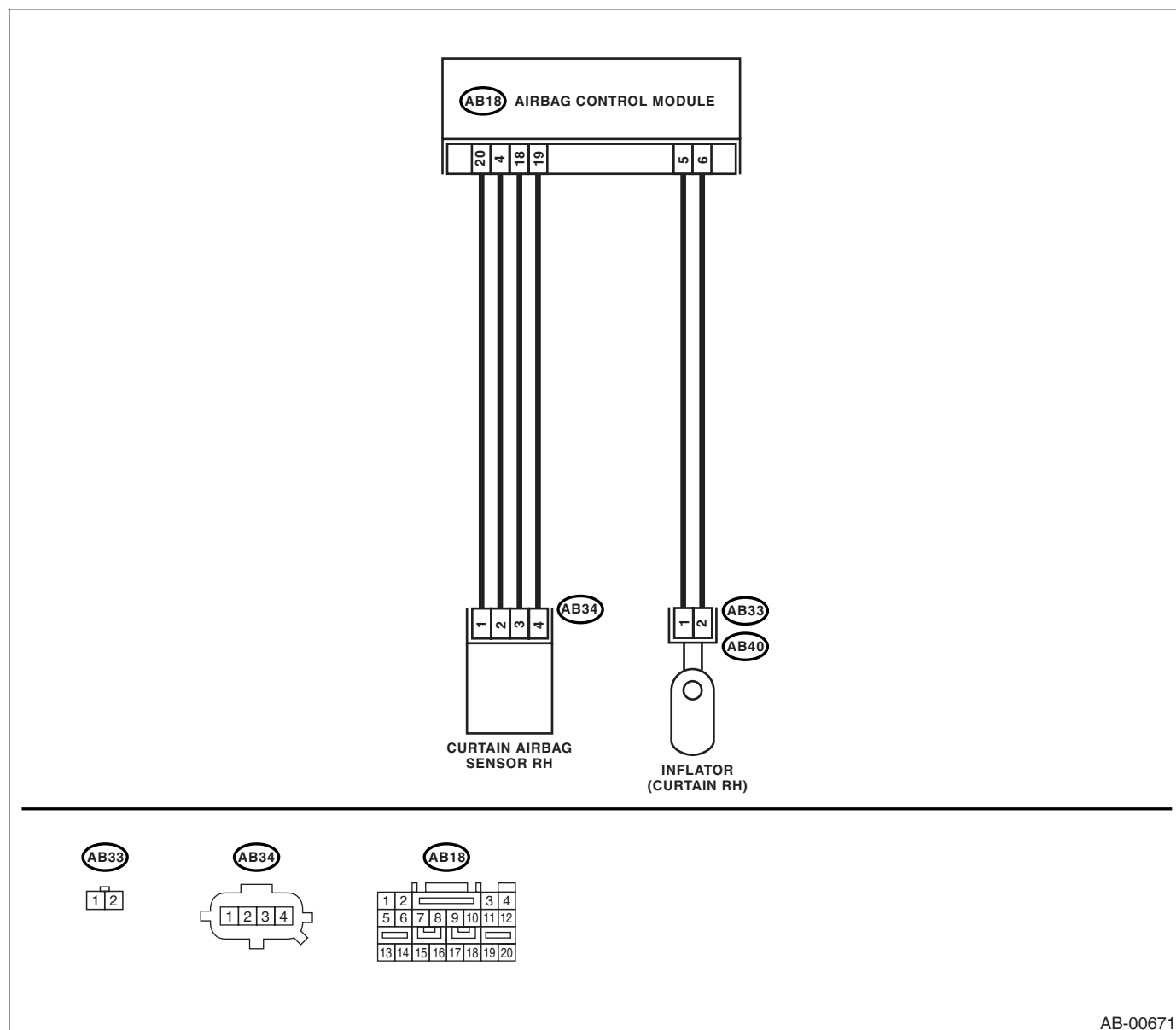
#### DTC DETECTING CONDITION:

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

#### CAUTION:

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

#### WIRING DIAGRAM:



# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| 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 with body harness.   | Go to step 2.   |
| <b>2 CHECK AIRBAG REAR HARNESS RH (CURTAIN AIRBAG SENSOR HARNESS RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB26) from seat belt pretensioner (RH).<br>3) Disconnect the connector (AB24) from side airbag module (RH).<br>4) Disconnect the connector (AB33) from (AB40).<br>5) Disconnect the connector (AB18) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (AB18).<br>7) Disconnect the connector (AB34) from curtain airbag sensor (RH), and connect the connector (2V) in test harness V to connector (AB34).<br>8) Measure the resistance between connector (5U) in the test harness U and connector (3V) in the test harness V.<br><b>Connector &amp; terminal</b><br><b>(5U) No. 14 — (3V) No. 4:</b><br><b>(5U) No. 16 — (3V) No. 5:</b><br><b>(5U) No. 15 — (3V) No. 1:</b><br><b>(5U) No. 13 — (3V) No. 2:</b> | Is the resistance less than 10 Ω? | Go to step 3.  | Replace the airbag rear harness RH with body harness. |
| <b>3 CHECK AIRBAG REAR HARNESS RH (CURTAIN AIRBAG SENSOR HARNESS RH).</b><br>Measure the resistance between connector (5U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(5U) No. 14 — Chassis ground:</b><br><b>(5U) No. 16 — Chassis ground:</b><br><b>(5U) No. 15 — Chassis ground:</b><br><b>(5U) No. 13 — Chassis ground:</b>   | Is the resistance more than 1 MΩ? | Go to step 4.  | Replace the airbag rear harness RH with body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase the memory.<br>3) Perform the inspection mode.<br>4) Read the DTC.  | Is the same DTC displayed?        | Replace the curtain airbag sensor (RH). <Ref. to AB-23, Curtain Airbag Sensor.> Replace the airbag control module if not operating normally even after replacing the sensor. <Ref. to AB-21, Airbag Control Module.> | Go to step 5.   |

## Diagnostic Chart with Trouble Code

### AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                       | Yes  | No                         |
|---|-----------------------------|--|----------------------------|
| 5<br><b>CHECK 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)-45, List<br>of Diagnostic Trou-<br>ble Code (DTC).> | Finish the diagno-<br>sis. |

## AH:DTC 57 CURTAIN AIRBAG SENSOR LH FAILURE

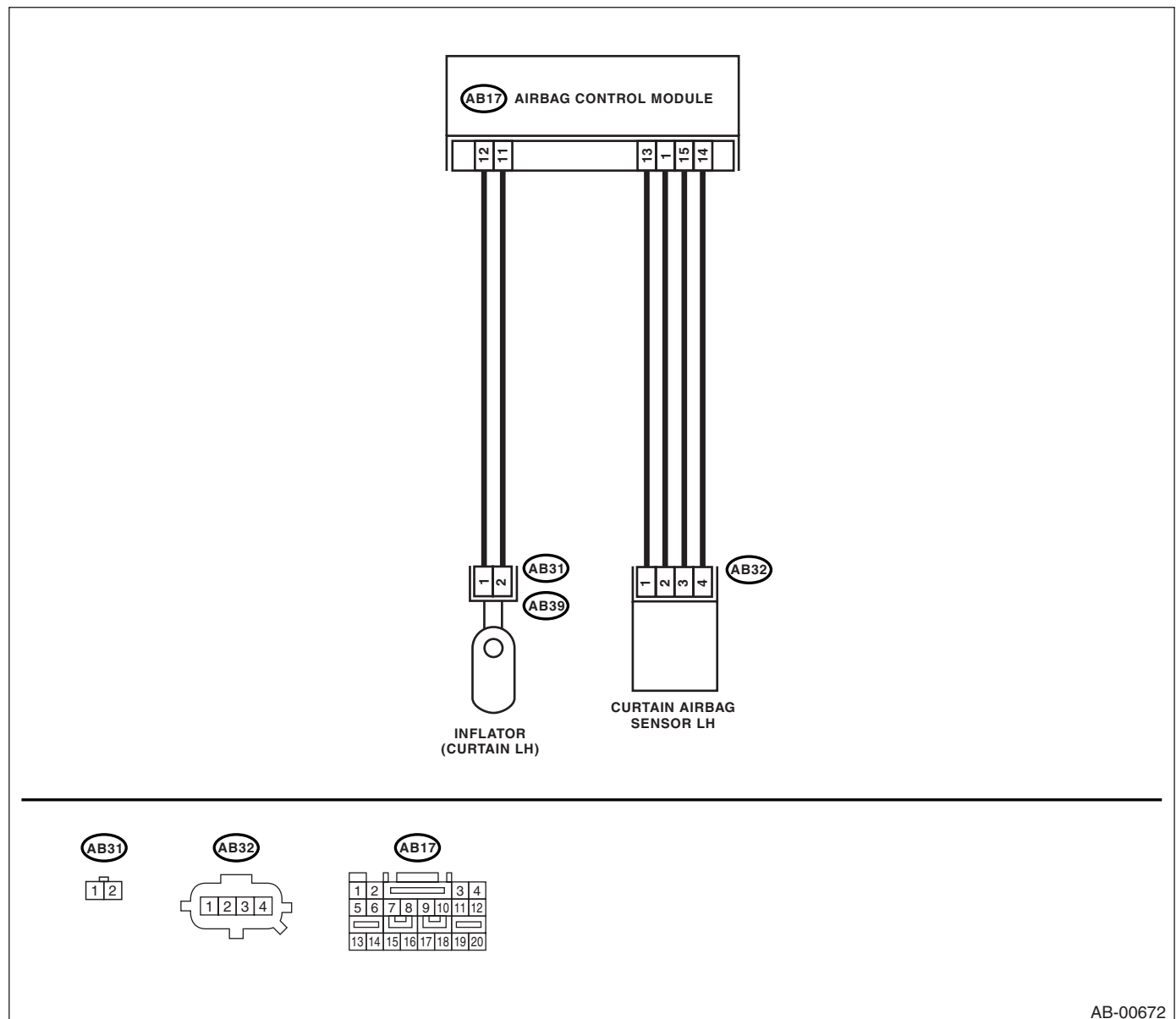
### DTC DETECTING CONDITION:

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

### CAUTION:

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

### WIRING DIAGRAM:



AB-00672

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| 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 with body harness.   | Go to step 2.   |
| <b>2 CHECK AIRBAG REAR HARNESS LH (CURTAIN AIRBAG SENSOR HARNESS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB21) from seat belt pretensioner (LH).<br>3) Disconnect the connector (AB19) from side airbag module (LH).<br>4) Disconnect the connector (AB31) from (AB39).<br>5) Disconnect the connector (AB17) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (AB17).<br>7) Disconnect the connector (AB32) from curtain airbag sensor (LH), and connect the connector (2V) in test harness V to connector (AB32).<br>8) Measure the resistance between connector (5U) in the test harness U and connector (3V) in the test harness V.<br><b>Connector &amp; terminal</b><br><b>(5U) No. 11 — (3V) No. 4:</b><br><b>(5U) No. 9 — (3V) No. 5:</b><br><b>(5U) No. 10 — (3V) No. 1:</b><br><b>(5U) No. 12 — (3V) No. 2:</b> | Is the resistance less than 10 $\Omega$ ?  | Go to step 3.  | Replace the airbag rear harness LH with the body harness. |
| <b>3 CHECK AIRBAG REAR HARNESS LH (CURTAIN AIRBAG SENSOR HARNESS LH).</b><br>Measure the resistance between connector (5U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(5U) No. 11 — Chassis ground:</b><br><b>(5U) No. 9 — Chassis ground:</b><br><b>(5U) No. 10 — Chassis ground:</b><br><b>(5U) No. 12 — Chassis ground:</b>   | Is the resistance more than 1 M $\Omega$ ? | Go to step 4.  | Replace the airbag rear harness LH with the body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase the memory.<br>3) Perform the inspection mode.<br>4) Read the DTC.   | Is the same DTC displayed?                 | Replace the curtain airbag sensor (LH). <Ref. to AB-23, Curtain Airbag Sensor.> Replace the airbag control module if not operating normally even after replacing the sensor. <Ref. to AB-21, Airbag Control Module.> | Go to step 5.   |

## Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| Step  | Check                       | Yes  | No                    |
|---|-----------------------------|--|-----------------------|
| 5<br><b>CHECK ANY OTHER DTC ON DISPLAY.</b> | Is any other DTC displayed? | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis. |

### **AI: 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.>

### **AJ: 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)

### AK:DTC 61 BELT PRETENSIONER RH FAILURE

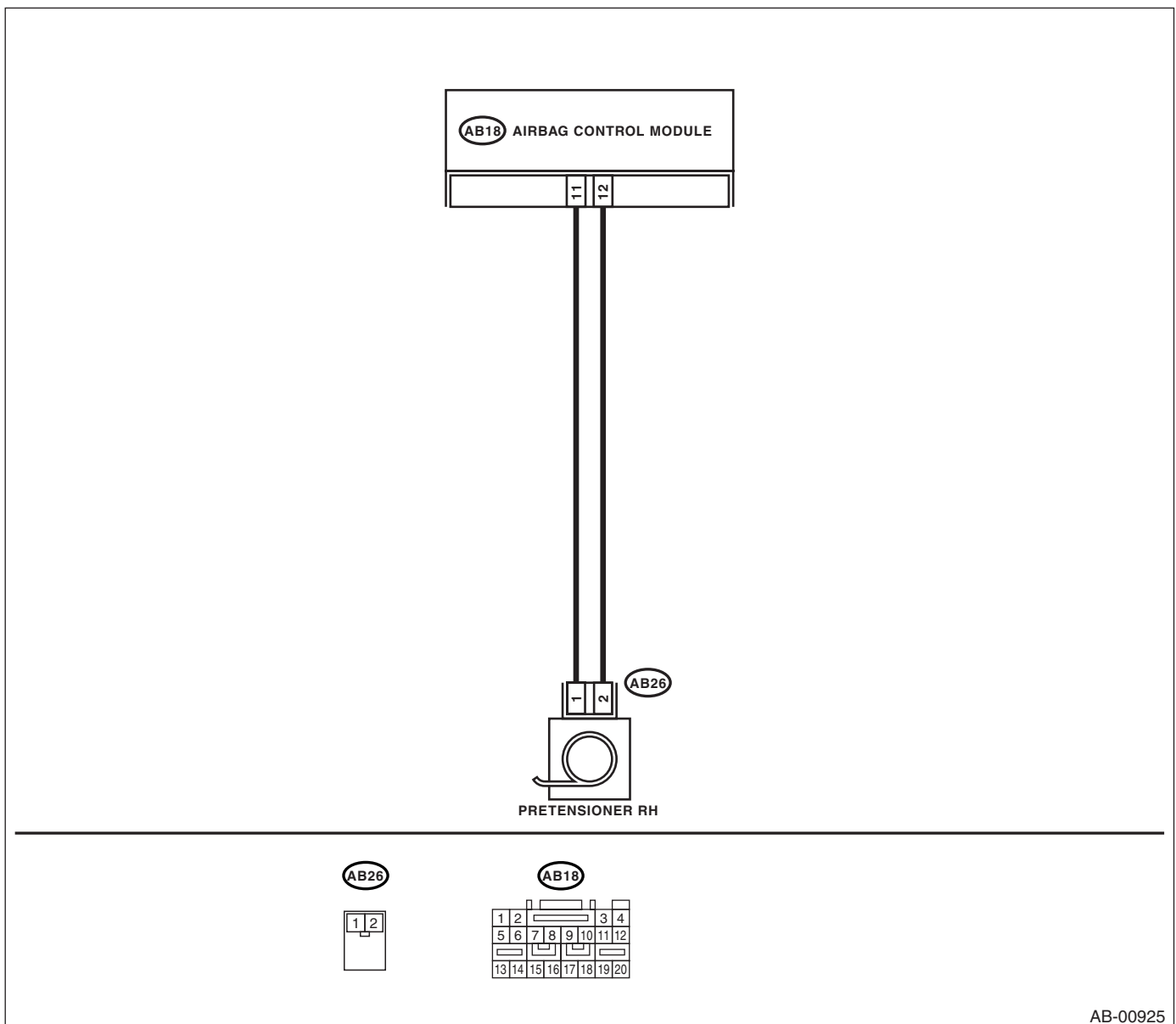
#### DTC DETECTING CONDITION:

- 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 diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground terminal from battery, and wait more than 20 seconds before starting to work.
- After replacing the airbag module, seat belt pretensioner, roll connector, control module and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag rear harness, disconnect the side airbag module connector, curtain airbag module connector and seat belt pretensioner connector for safety reasons.

#### WIRING DIAGRAM:





# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| 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 seat belt pretensioner RH.  | Is there poor contact?   | Replace the airbag rear harness RH with body harness.                      | Go to step 2.   |
| <b>2 CHECK SEAT BELT PRETENSIONER.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<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 6 seconds and go off? | Replace the seat belt pretensioner (RH). <Ref. to SB-10, Front Seat Belt.> | Go to step 3.   |
| <b>3 CHECK AIRBAG REAR HARNESS RH (PRE-TENSIONER HARNESS RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the airbag resistor from test harness.<br>3) Disconnect the connector (AB24) from side airbag module (RH).<br>4) Disconnect the connector (AB33) from curtain airbag module (RH).<br>5) Disconnect the connectors (AB17) and (AB18) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (AB18).<br>7) Measure the resistance between connector (3U) in the test harness U and connector (2N) in the test harness N.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 17 — (2N) No. 2:</b><br><b>(3U) No. 19 — (2N) No. 1:</b> | Is the resistance less than 10 $\Omega$ ?                          | Go to step 4.  | Replace the airbag rear harness RH with body harness. |
| <b>4 CHECK AIRBAG REAR HARNESS (PRE-TENSIONER HARNESS RH).</b><br>Measure the resistance between connector (3U) terminals in the test harness U.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 19 — (3U) No. 17:</b>   | Is the resistance more than 1 M $\Omega$ ?                         | Go to step 5.  | Replace the airbag rear harness RH with body harness. |
| <b>5 CHECK AIRBAG REAR HARNESS RH (PRE-TENSIONER HARNESS RH).</b><br>Measure the resistance between connector (3U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 17 — Chassis ground:</b><br><b>(3U) No. 19 — Chassis ground:</b>  | Is the resistance more than 1 M $\Omega$ ?                         | Go to step 6.  | Replace the airbag rear harness RH with body harness. |

## Diagnostic Chart with Trouble Code

### AIRBAG SYSTEM (DIAGNOSTICS)

| Step |  | Check                       | Yes  | No                    |
|------|--|-----------------------------|--|-----------------------|
| 6    | <b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>  | Go to step 7.         |
| 7    | <b>CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed? | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## AL:DTC 62 BELT PRETENSIONER LH FAILURE

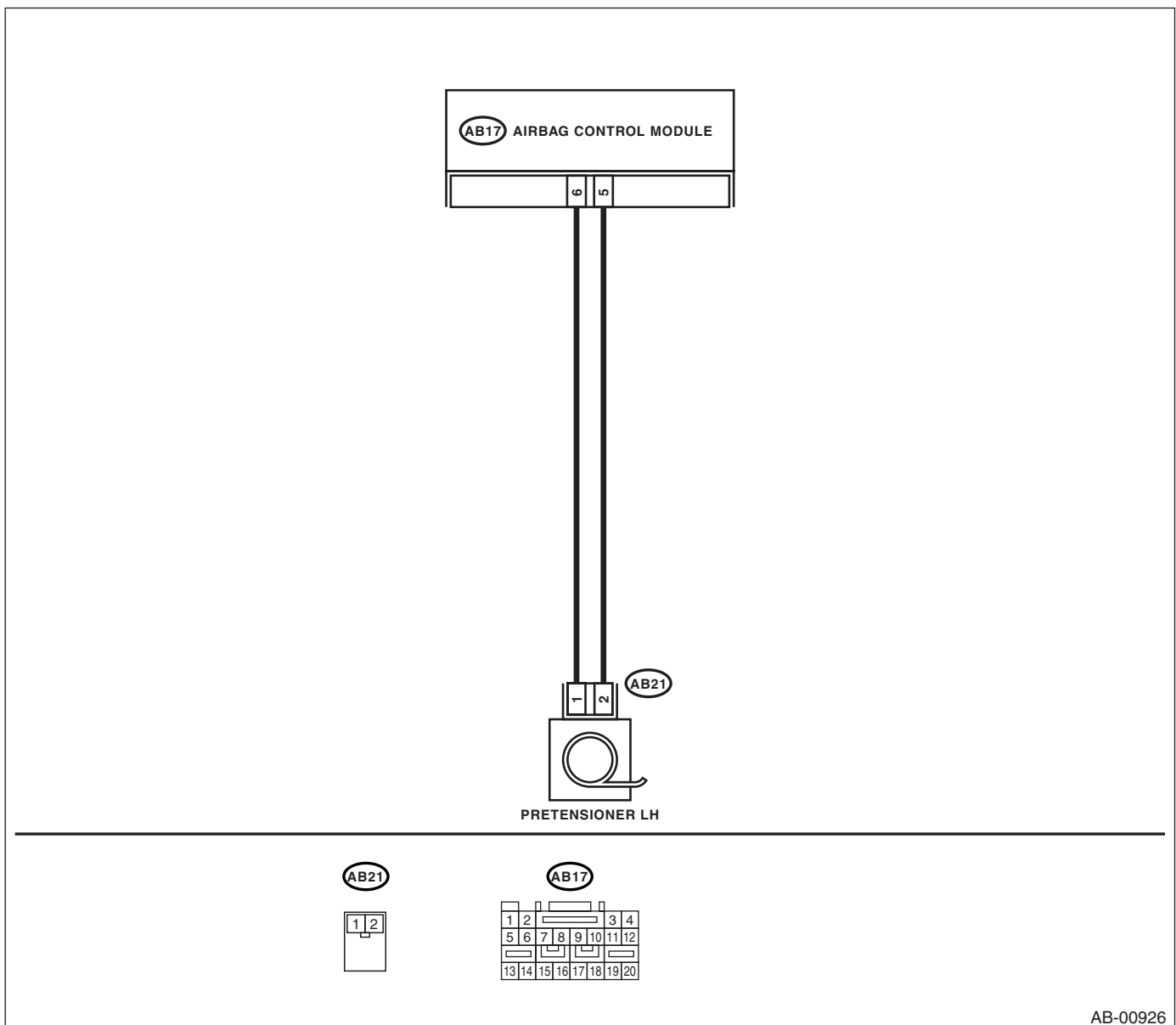
### DTC DETECTING CONDITION:

- 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 diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground terminal from battery, and wait more than 20 seconds before starting to work.
- After replacing the airbag module, seat belt pretensioner, roll connector, control module and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag rear harness, disconnect the side airbag module connector, curtain airbag module connector and seat belt pretensioner connector for safety reasons.

### WIRING DIAGRAM:



AB-00926

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| 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 seat belt pretensioner LH.  | Is there poor contact?   | Replace the airbag rear harness LH with the body harness.                  | Go to step 2.   |
| <b>2 CHECK SEAT BELT PRETENSIONER.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<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 6 seconds and go off? | Replace the seat belt pretensioner (LH). <Ref. to SB-10, Front Seat Belt.> | Go to step 3.   |
| <b>3 CHECK AIRBAG REAR HARNESS LH (PRE-TENSIONER HARNESS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the airbag resistor from test harness.<br>3) Disconnect the connector (AB19) from side airbag module (LH).<br>4) Disconnect the connector (AB31) from curtain airbag module (LH).<br>5) Disconnect the connectors (AB17) and (AB18) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (AB17).<br>7) Measure the resistance between connector (3U) in the test harness U and connector (2N) in the test harness N.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 13 — (2N) No. 1:</b><br><b>(3U) No. 11 — (2N) No. 2:</b> | Is the resistance less than 10 $\Omega$ ?                          | Go to step 4.  | Replace the airbag rear harness LH with the body harness. |
| <b>4 CHECK AIRBAG REAR HARNESS LH (PRE-TENSIONER HARNESS LH).</b><br>Measure the resistance between connector (3U) terminals in the test harness U.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 11 — (3U) No. 13:</b>  | Is the resistance more than 1 M $\Omega$ ?                         | Go to step 5.  | Replace the airbag rear harness LH with the body harness. |
| <b>5 CHECK AIRBAG REAR HARNESS LH (PRE-TENSIONER HARNESS LH).</b><br>Measure the resistance between connector (3U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 11 — Chassis ground:</b><br><b>(3U) No. 13 — Chassis ground:</b>  | Is the resistance more than 1 M $\Omega$ ?                         | Go to step 6.  | Replace the airbag rear harness LH with the body harness. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| Step |  | Check                       | Yes  | No                    |
|------|--|-----------------------------|--|-----------------------|
| 6    | <b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>  | Go to step 7.         |
| 7    | <b>CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed? | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### AM:DTC 65 BELT PRETENSIONER RH FAILURE

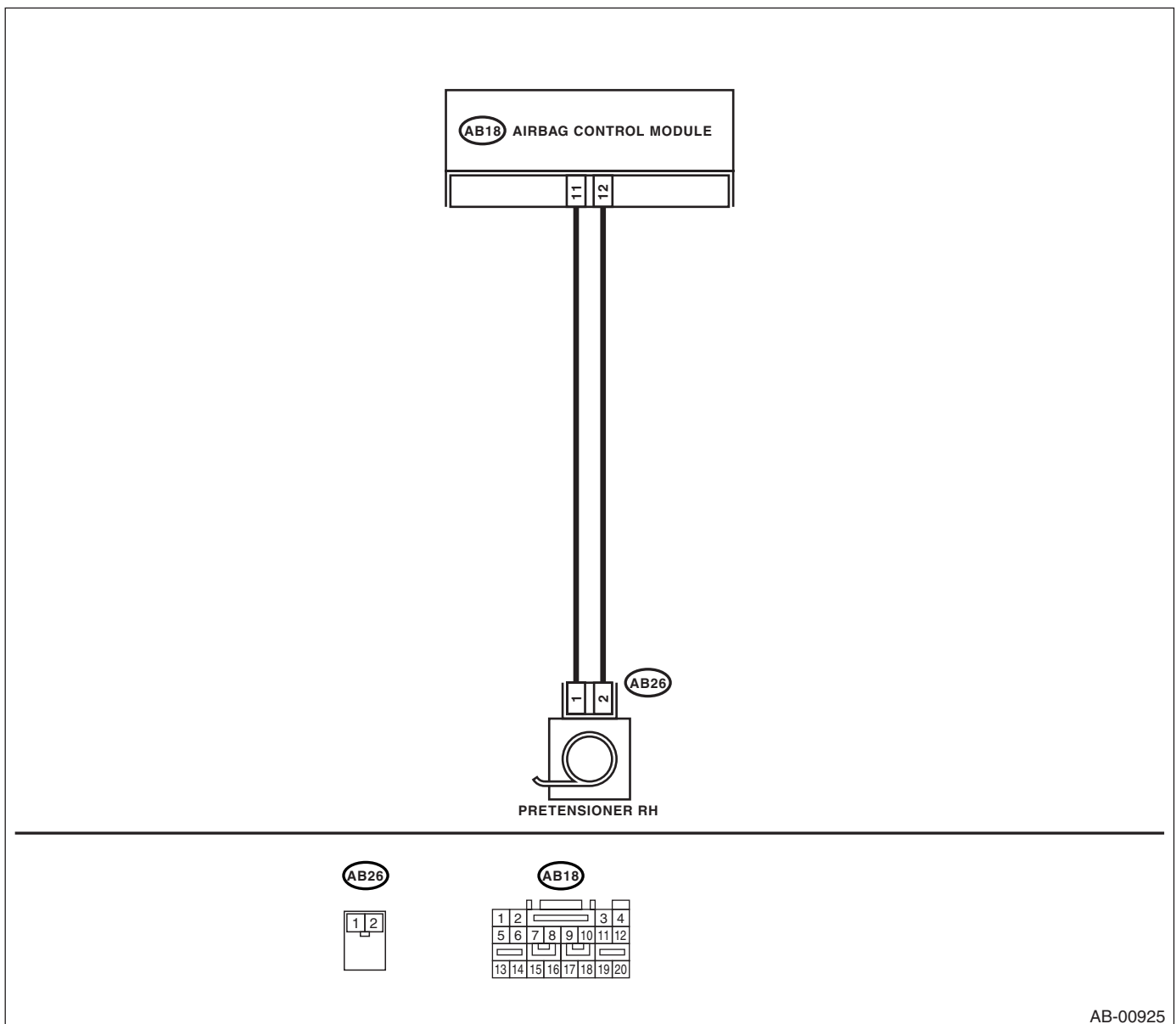
#### DTC DETECTING CONDITION:

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

#### CAUTION:

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground terminal from battery, and wait more than 20 seconds before starting to work.
- After replacing the airbag module, seat belt pretensioner, roll connector, control module and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag rear harness, disconnect the side airbag module connector, curtain airbag module connector and seat belt pretensioner connector for safety reasons.

#### WIRING DIAGRAM:



AB-00925

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| 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 seat belt pretensioner RH.  | Is there poor contact?   | Replace the airbag rear harness RH with body harness.  | Go to step 2.   |
| <b>2 CHECK SEAT BELT PRETENSIONER.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<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 6 seconds and go off? | Replace the seat belt pretensioner (RH). <Ref. to SB-10, Front Seat Belt.>   | Go to step 3.   |
| <b>3 CHECK AIRBAG REAR HARNESS RH (PRETENSIONER HARNESS RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the airbag resistor from test harness.<br>3) Disconnect the connector (AB24) from side airbag module (RH).<br>4) Disconnect the connector (AB33) from curtain airbag module (RH).<br>5) Disconnect the connectors (AB17) and (AB18) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (AB18).<br>7) Connect the battery ground terminal and turn the ignition switch to ON.<br>8) Measure the voltage between connector (3U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 17 (+) — Chassis ground (-):</b><br><b>(3U) No. 19 (+) — Chassis ground (-):</b> | Is the voltage less than 1 V?                                      | Go to step 4.  | Replace the airbag rear harness RH with body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>   | Go to step 5.   |
| <b>5 CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?  | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                 |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### AN:DTC 66 BELT PRETENSIONER LH FAILURE

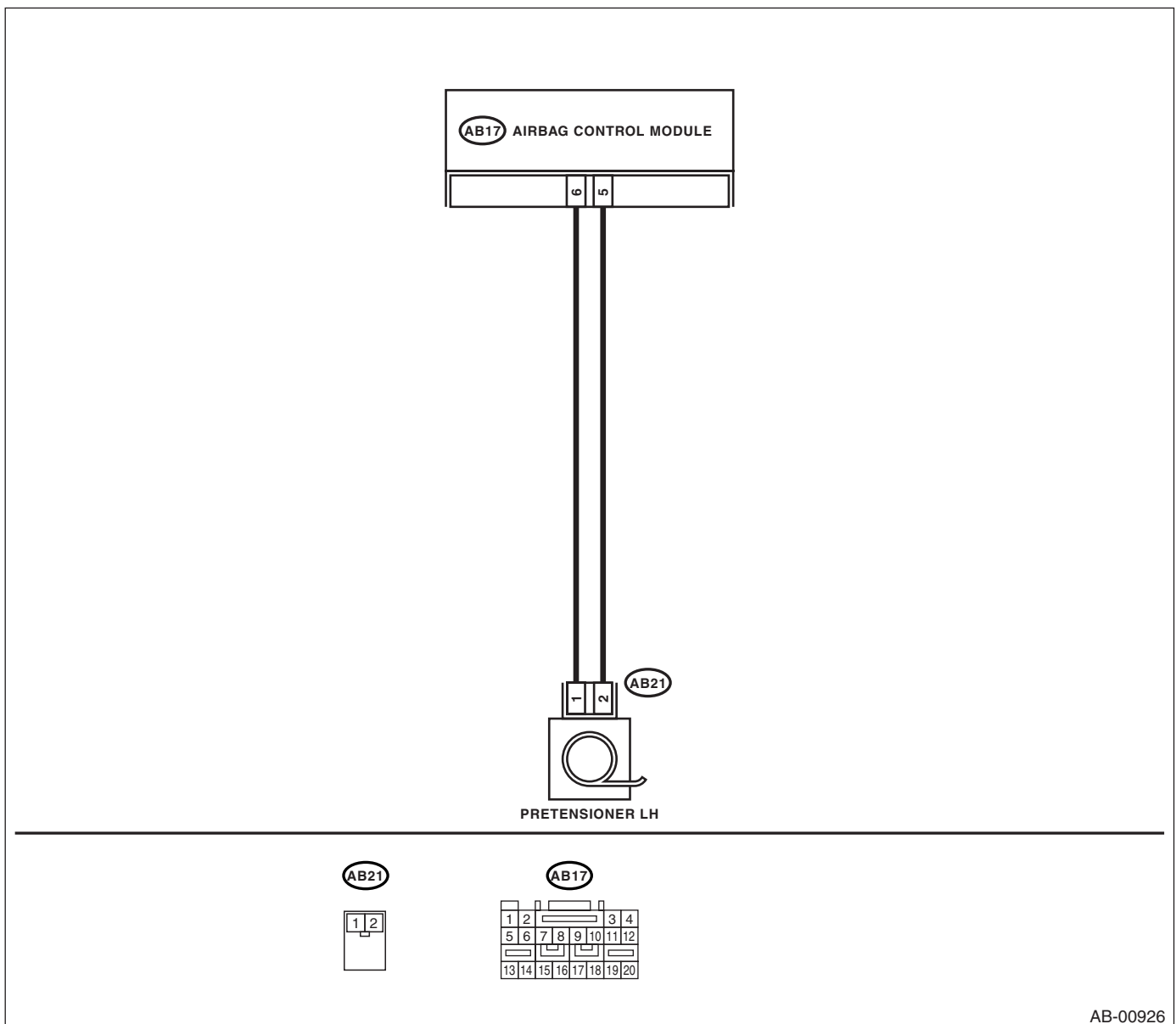
#### DTC DETECTING CONDITION:

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

#### CAUTION:

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground terminal from battery, and wait more than 20 seconds before starting to work.
- After replacing the airbag module, seat belt pretensioner, roll connector, control module and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag rear harness, disconnect the side airbag module connector, curtain airbag module connector and seat belt pretensioner connector for safety reasons.

#### WIRING DIAGRAM:





# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| 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 seat belt pretensioner LH.  | Is there poor contact?   | Replace the airbag rear harness LH with the body harness.  | Go to step 2.   |
| <b>2 CHECK SEAT BELT PRETENSIONER.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<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 6 seconds and go off? | Replace the seat belt pretensioner (LH). <Ref. to SB-10, Front Seat Belt.>   | Go to step 3.   |
| <b>3 CHECK AIRBAG REAR HARNESS LH (PRETENSIONER HARNESS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the airbag resistor from test harness.<br>3) Disconnect the connector (AB19) from side airbag module (LH).<br>4) Disconnect the connector (AB31) from curtain airbag module (LH).<br>5) Disconnect the connectors (AB17) and (AB18) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (AB17).<br>7) Connect the battery ground terminal and turn the ignition switch to ON.<br>8) Measure the voltage between connector (3U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(3U) No. 11 (+) — Chassis ground (-):</b><br><b>(3U) No. 13 (+) — Chassis ground (-):</b> | Is the voltage less than 1 V?                                      | Go to step 4.  | Replace the airbag rear harness LH with the body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>  | Go to step 5.   |
| <b>5 CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?  | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                     |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### AO: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.

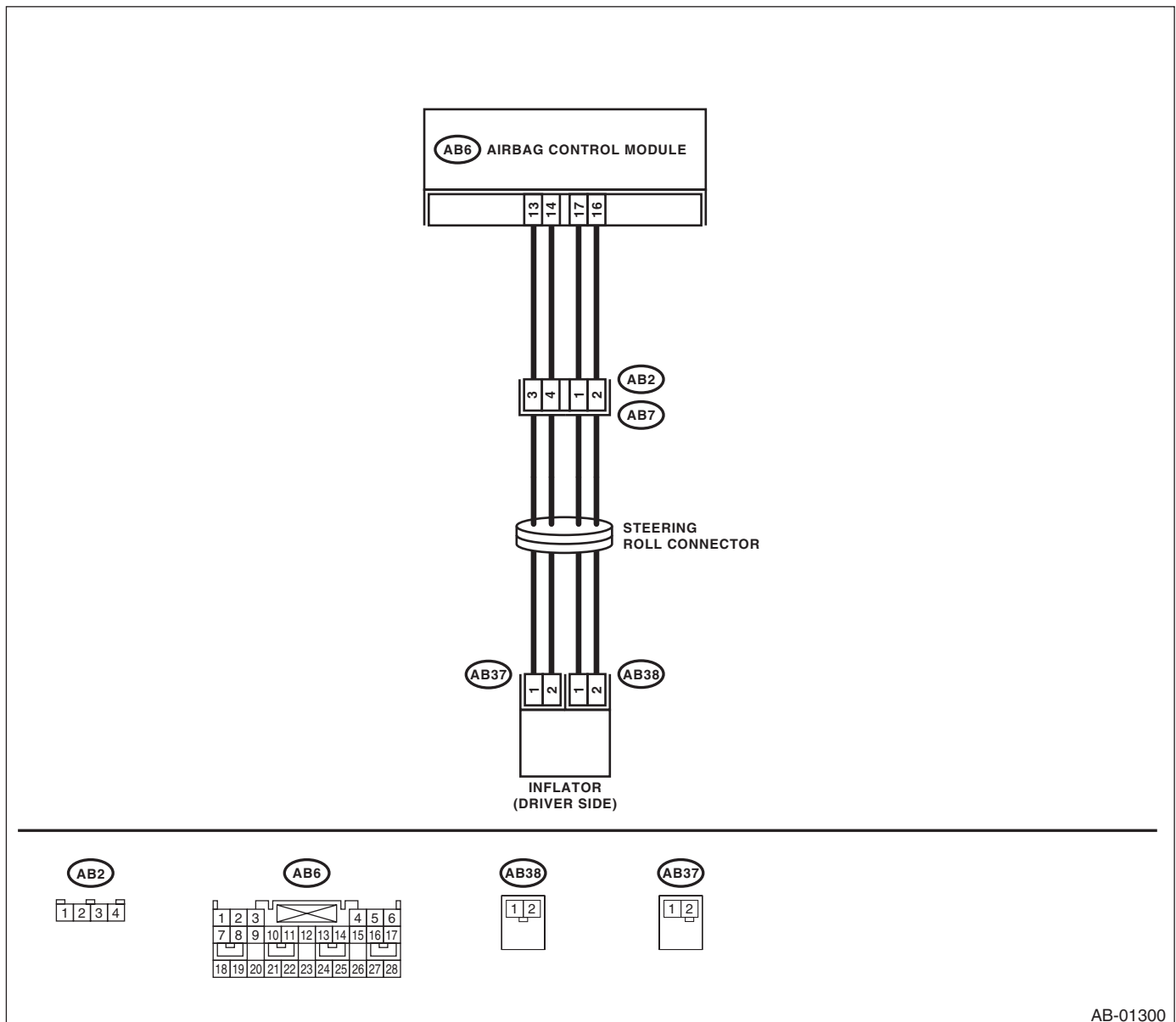
#### CAUTION:

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

#### NOTE:

Prior to starting work, prepare two airbag resistors (98299PA040).

#### WIRING DIAGRAM:



AB-01300

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

|   | 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 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 more than 20 seconds.<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) of test harness Q.<br>7) Connect the battery ground terminal and turn the ignition switch to ON.  | Does the airbag warning light illuminate for 6 seconds and go off? | Replace the driver's airbag module. <Ref. to AB-15, Driver's Airbag Module.> | Go to step 3.                                      |
| 3 | <b>CHECK ROLL CONNECTOR.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<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 6 seconds and go off? | Replace the roll connector. <Ref. to AB-24, Roll Connector.>                 | Go to step 4.                                      |
| 4 | <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 more than 20 seconds.<br>2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P.<br>3) Remove the console side cover lower on the passenger's side and disconnect the connectors (AB10) and (AB9).<br>4) Disconnect the connector (AB6) from airbag control module, and connect the connector (1U) in the test harness U.<br>5) Measure the resistance between connector (2U) in the test harness U and connectors (2P) and (3P) in the test harness P.<br><b>Connector &amp; terminal</b><br><b>(2U) No. 2 — (2P) No. 1:</b><br><b>(2U) No. 4 — (2P) No. 2:</b><br><b>(2U) No. 8 — (3P) No. 3:</b><br><b>(2U) No. 12 — (3P) No. 4:</b> | Is the resistance less than 10 $\Omega$ ?                          | Go to step 5.  | Replace the airbag main harness with body harness. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                             | Yes  | No   |
|--|-----------------------------------|--|--|
| <b>5 CHECK AIRBAG MAIN HARNESS (DRIVER'S AIRBAG HARNESS).</b><br>Measure the resistance between connectors (2U) in the test harness U, and between connector (2U) and chassis ground.<br><b>Connector &amp; terminal</b><br><i>(2U) No. 2 — (2U) No. 4:</i><br><i>(2U) No. 4 — Chassis ground:</i><br><i>(2U) No. 2 — Chassis ground:</i><br><i>(2U) No. 8 — (2U) No. 12:</i><br><i>(2U) No. 8 — Chassis ground:</i><br><i>(2U) No. 12 — Chassis ground:</i> | Is the resistance more than 1 MΩ? | Go to step 6.  | Replace the airbag main harness with body harness. |
| <b>6 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>  | Go to step 7.                                      |
| <b>7 CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?       | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                              |

## AP:DTC 72 PASSENGER'S AIRBAG FAILURE

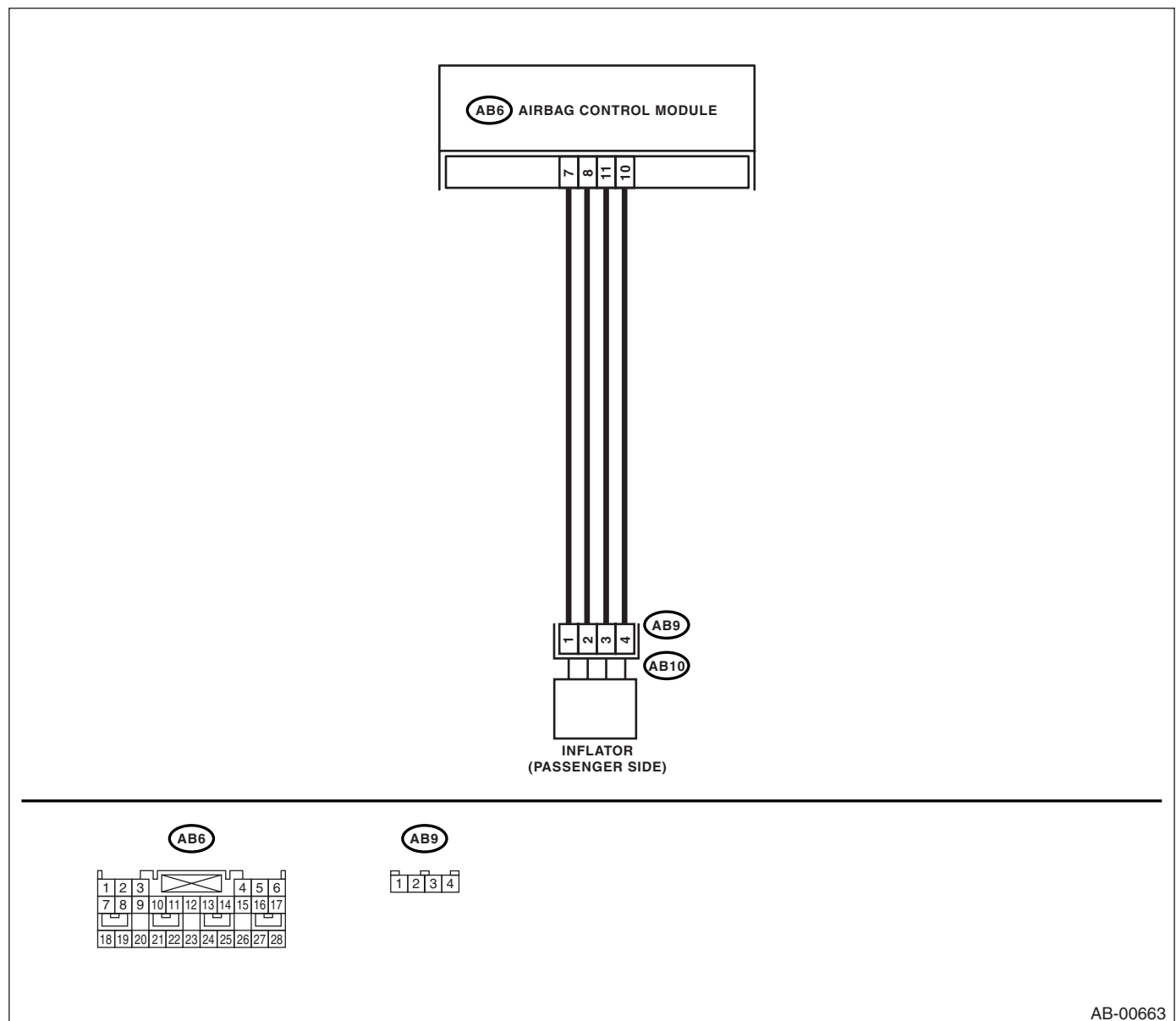
### DTC DETECTING CONDITION:

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

### WIRING DIAGRAM:



AB-00663

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| 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 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 more than 20 seconds.<br>2) Remove the console side cover lower on the passenger's side.<br>3) Disconnect the connector (AB10) from (AB9).<br>4) Connect the connector (1P) in the test harness P to connector (AB9).<br>5) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P.<br>6) Connect the battery ground terminal and turn the ignition switch to ON.   | Does the airbag warning light illuminate for 6 seconds and go off? | Replace the passenger's airbag module. <Ref. to AB-16, Passenger's Airbag Module.> | Go to step 3.                                      |
| <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 more than 20 seconds.<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 connector (AB6) from airbag control module, and connect the connector (1U) in the test harness U.<br>5) Measure the resistance between connector (2U) in the test harness U and connectors (2P) and (3P) in the test harness P.<br><b>Connector &amp; terminal</b><br><i>(2U) No. 3 — (2P) No. 1:</i><br><i>(2U) No. 5 — (2P) No. 2:</i><br><i>(2U) No. 9 — (3P) No. 3:</i><br><i>(2U) No. 13 — (3P) No. 4:</i> | Is the resistance less than 10 $\Omega$ ?                          | Go to step 4.  | Replace the airbag main harness with body harness. |
| <b>4 CHECK AIRBAG MAIN HARNESS (PASSENGER'S AIRBAG HARNESS).</b><br>Measure the resistance between connectors (2U) in the test harness U, and between connector (2U) and chassis ground.<br><b>Connector &amp; terminal</b><br><i>(2U) No. 3 — (2U) No. 5:</i><br><i>(2U) No. 3 — Chassis ground:</i><br><i>(2U) No. 5 — Chassis ground:</i><br><i>(2U) No. 9 — (2U) No. 13:</i><br><i>(2U) No. 9 — Chassis ground:</i><br><i>(2U) No. 13 — Chassis ground:</i>   | Is the resistance more than 1 M $\Omega$ ?                         | Go to step 5.  | Replace the airbag main harness with body harness. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check                       | Yes  | No                    |
|--|-----------------------------|--|-----------------------|
| <b>5</b><br><b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>  | Go to step 6.         |
| <b>6</b><br><b>CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed? | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### AQ: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.

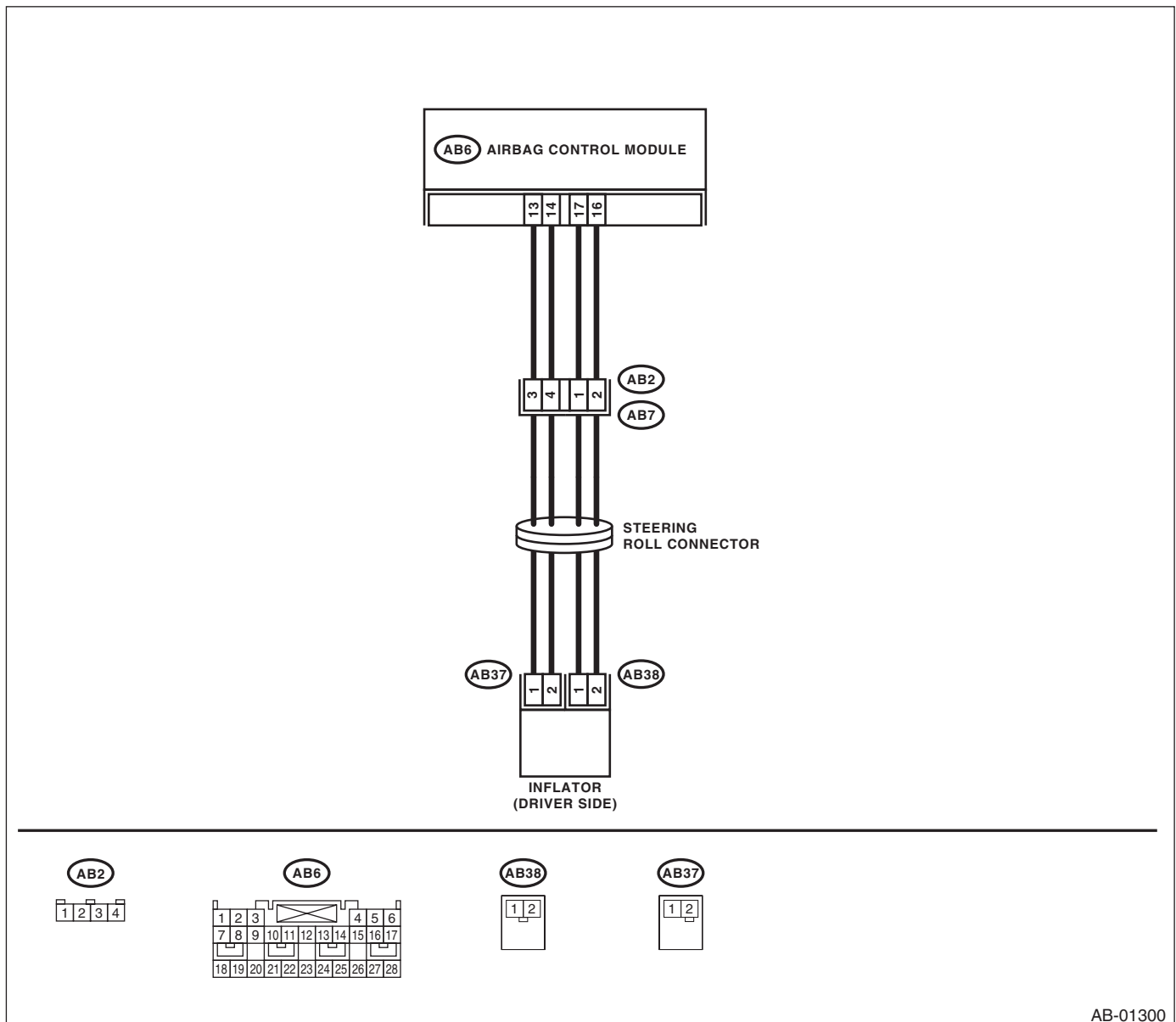
#### CAUTION:

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

#### NOTE:

Prior to starting work, prepare two airbag resistors (98299PA040).

#### WIRING DIAGRAM:



AB-01300



# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| 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 driver's airbag module.  | Is there poor contact?   | Replace the airbag main harness with body harness.                           | Go to step 2.                                      |
| <b>2 CHECK DRIVER'S AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<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) of test harness Q.<br>7) Connect the battery ground terminal and turn the ignition switch to ON.  | Does the airbag warning light illuminate for 6 seconds and go off? | Replace the driver's airbag module. <Ref. to AB-15, Driver's Airbag Module.> | Go to step 3.                                      |
| <b>3 CHECK ROLL CONNECTOR.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<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 6 seconds and go off? | Replace the roll connector. <Ref. to AB-24, 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 more than 20 seconds.<br>2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P.<br>3) Remove the console side cover lower on the passenger's side and disconnect the connectors (AB10) and (AB9).<br>4) Disconnect the connector (AB6) from airbag control module, and connect the connector (1U) in the test harness U.<br>5) Connect the battery ground terminal and turn the ignition switch to ON. (Engine OFF)<br>6) Measure the voltage between connector (2U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><i>(2U) No. 4 (+) — Chassis ground (-):</i><br><i>(2U) No. 2 (+) — Chassis ground (-):</i><br><i>(2U) No. 8 (+) — Chassis ground (-):</i><br><i>(2U) No. 12 (+) — Chassis ground (-):</i> | Is the voltage less than 1 V?                                      | Go to step 5.  | Replace the airbag main harness with body harness. |

## Diagnostic Chart with Trouble Code

### AIRBAG SYSTEM (DIAGNOSTICS)

| Step |  | Check                       | Yes  | No                    |
|------|--|-----------------------------|--|-----------------------|
| 5    | <b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>  | Go to step 6.         |
| 6    | <b>CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed? | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis. |

## AR:DTC 76 PASSENGER'S AIRBAG FAILURE

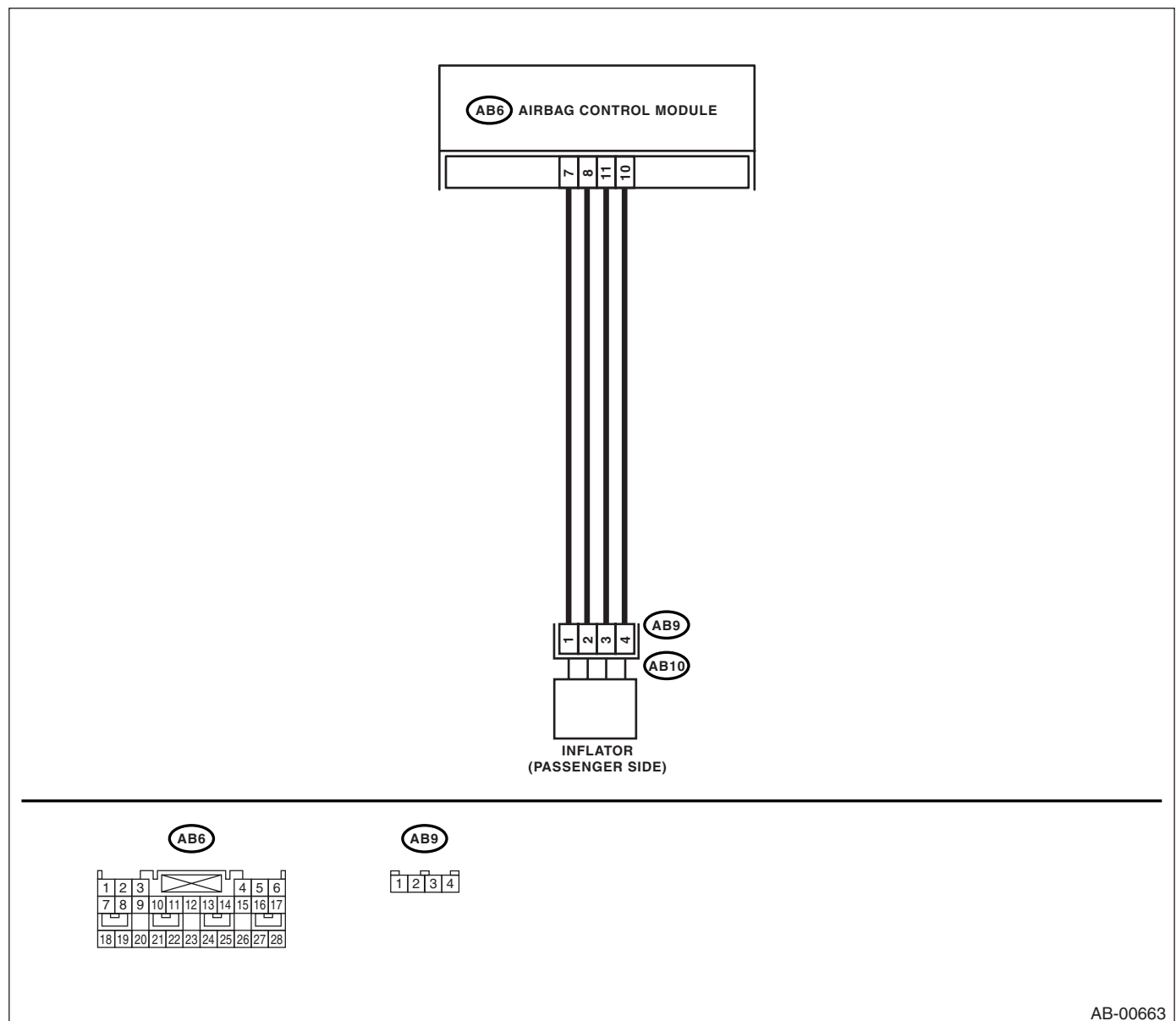
### DTC DETECTING CONDITION:

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

### WIRING DIAGRAM:



# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| 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 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 more than 20 seconds.<br>2) Remove the console side cover lower on the passenger's side.<br>3) Disconnect the connector (AB10) from (AB9).<br>4) Connect the connector (1P) in the test harness P to connector (AB9).<br>5) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P.<br>6) Connect the battery ground terminal and turn the ignition switch to ON.  | Does the airbag warning light illuminate for 6 seconds and go off? | Replace the passenger's airbag module. <Ref. to AB-16, Passenger's Airbag Module.>                                     | Go to step 3.                                      |
| <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 more than 20 seconds.<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 connector (AB6) from airbag control module, and connect the connector (1U) in the test harness U.<br>5) Measure the voltage between connector (2U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><i>(2U) No. 3 (+) — Chassis ground (-):</i><br><i>(2U) No. 5 (+) — Chassis ground (-):</i><br><i>(2U) No. 9 (+) — Chassis ground (-):</i><br><i>(2U) No. 13 (+) — Chassis ground (-):</i> | Is the voltage less than 1 V?                                      | Go to step 4.  | Replace the airbag main harness with body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>   | Go to step 5.                                      |
| <b>5 CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?  | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                              |

## AS:DTC 91 CURTAIN AIRBAG MODULE RH FAILURE

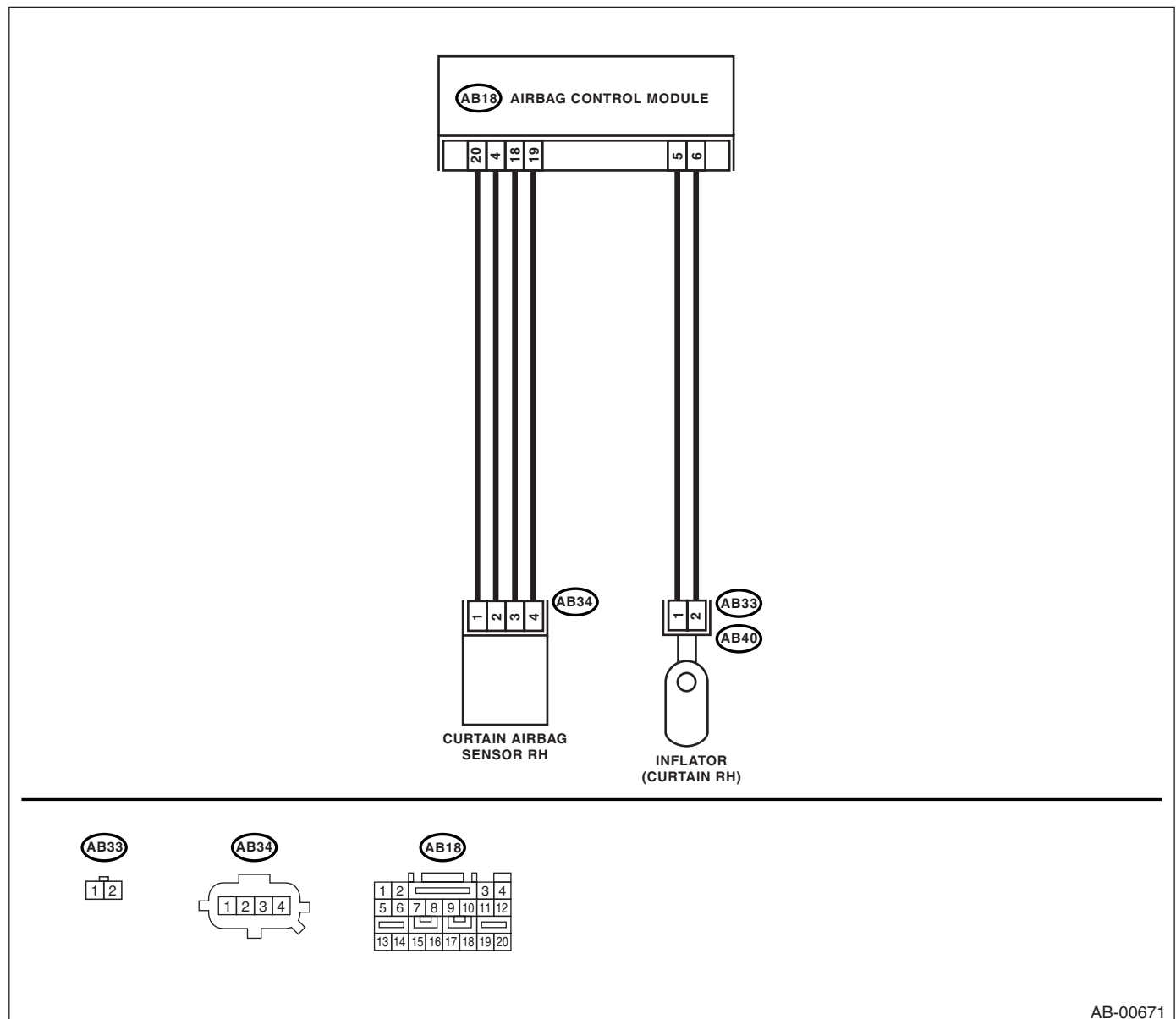
### DTC DETECTING CONDITION:

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

### CAUTION:

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground terminal from battery, and wait more than 20 seconds before starting to work.
- After replacing the airbag module, seat belt pretensioner, roll connector, control module and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag rear harness, disconnect the side airbag module connector, curtain airbag module connector and seat belt pretensioner connector for safety reasons.

### WIRING DIAGRAM:



AB-00671

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| 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 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 more than 20 seconds.<br>2) Disconnect the connector (AB33) from (AB40), and connect the connector (1F) in test harness F to connector (AB33).<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 6 seconds and go off? | Replace the curtain airbag module (RH). <Ref. to AB-19, Curtain Airbag Module.> | Go to step 3.   |
| <b>3 CHECK AIRBAG REAR HARNESS RH (CURTAIN AIRBAG MODULE HARNESS RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB26) from seat belt pretensioner (RH).<br>3) Disconnect the connector (AB24) from side airbag module (RH).<br>4) Disconnect the airbag resistor from test harness F.<br>5) Disconnect the connector (AB18) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (AB18).<br>7) Measure the resistance between connector (5U) in the test harness U and connector (3F) in the test harness F.<br><b>Connector &amp; terminal</b><br><b>(5U) No. 6 — (3F) No. 4:</b><br><b>(5U) No. 8 — (3F) No. 3:</b> | Is the resistance less than 10 $\Omega$ ?                          | Go to step 4.   | Replace the airbag rear harness RH with body harness. |
| <b>4 CHECK AIRBAG REAR HARNESS RH (CURTAIN AIRBAG MODULE HARNESS RH).</b><br>Measure the resistance between connector (5U) terminals in the test harness U.<br><b>Connector &amp; terminal</b><br><b>(5U) No. 6 — (5U) No. 8:</b>   | Is the resistance more than 1 M $\Omega$ ?                         | Go to step 5.   | Replace the airbag rear harness RH with body harness. |
| <b>5 CHECK AIRBAG REAR HARNESS RH (CURTAIN AIRBAG MODULE HARNESS RH).</b><br>Measure the resistance between connector (5U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(5U) No. 6 — Chassis ground:</b><br><b>(5U) No. 8 — Chassis ground:</b>   | Is the resistance more than 1 M $\Omega$ ?                         | Go to step 6.   | Replace the airbag rear harness RH with body harness. |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

| Step |  | Check                       | Yes  | No                    |
|------|--|-----------------------------|--|-----------------------|
| 6    | <b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>  | Go to step 7.         |
| 7    | <b>CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed? | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis. |

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

### AT:DTC 92 CURTAIN AIRBAG MODULE LH FAILURE

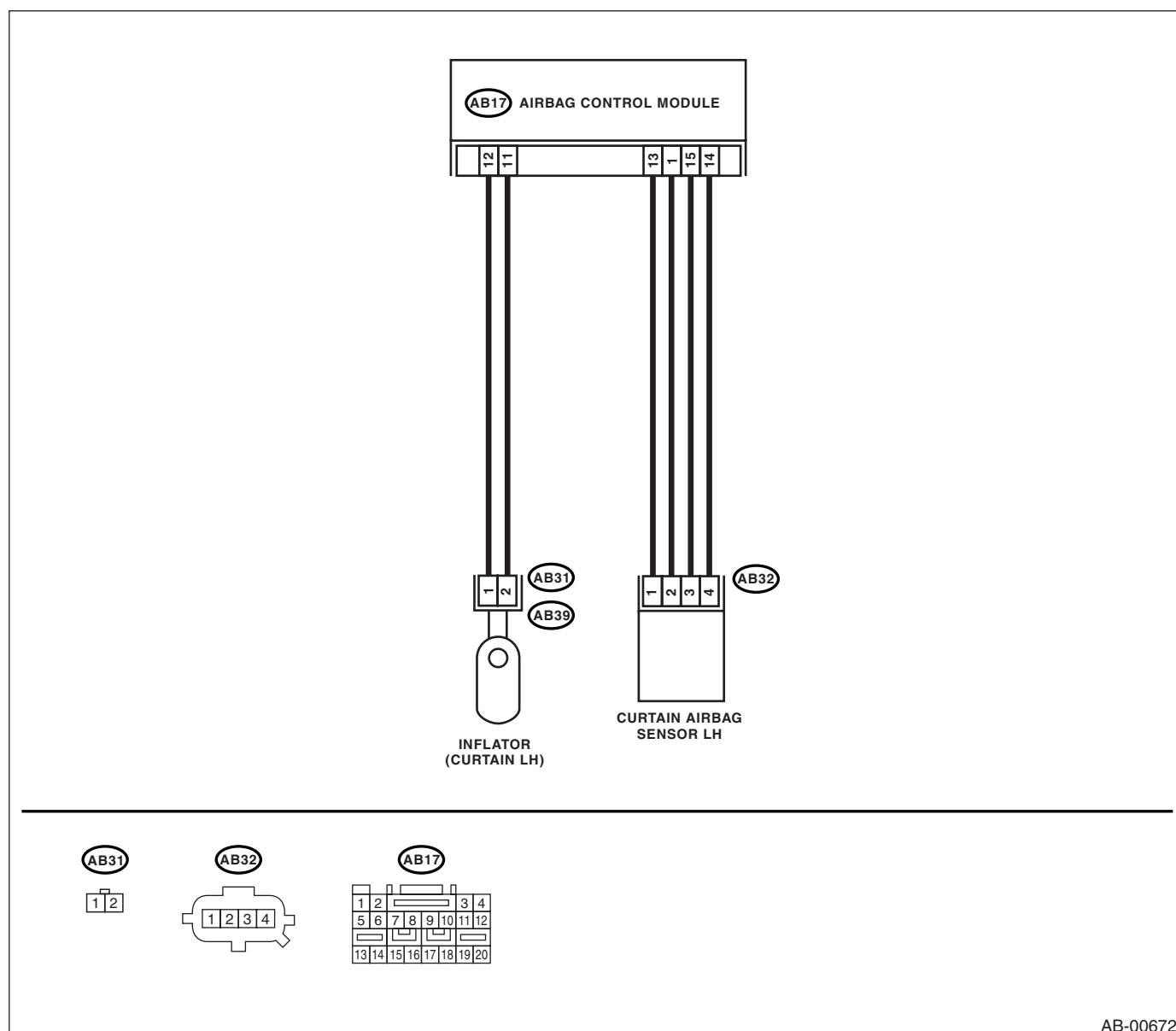
#### DTC DETECTING CONDITION:

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

#### CAUTION:

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

#### WIRING DIAGRAM:



AB-00672



# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| 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 LH with the 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 more than 20 seconds.<br>2) Disconnect the connector (AB31) from (AB39), and connect the connector (1F) in test harness F to connector (AB31).<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 6 seconds and go off? | Replace the curtain airbag module (LH). <Ref. to AB-19, Curtain Airbag Module.> | Go to step 3.   |
| <b>3 CHECK AIRBAG REAR HARNESS LH (CURTAIN AIRBAG MODULE HARNESS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB21) from seat belt pretensioner (LH).<br>3) Disconnect the connector (AB19) from side airbag module (LH).<br>4) Disconnect the airbag resistor from test harness F.<br>5) Disconnect the connector (AB17) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (AB17).<br>7) Measure the resistance between connector (5U) in the test harness U and connector (3F) in the test harness F.<br><b>Connector &amp; terminal</b><br><b>(5U) No. 1 — (3F) No. 3:</b><br><b>(5U) No. 3 — (3F) No. 4:</b> | Is the resistance less than 10 $\Omega$ ?                          | Go to step 4.   | Replace the airbag rear harness LH with the body harness. |
| <b>4 CHECK AIRBAG REAR HARNESS LH (CURTAIN AIRBAG MODULE HARNESS LH).</b><br>Measure the resistance between connector (5U) terminals in the test harness U.<br><b>Connector &amp; terminal</b><br><b>(5U) No. 1 — (5U) No. 3:</b>   | Is the resistance more than 1 M $\Omega$ ?                         | Go to step 5.   | Replace the airbag rear harness LH with the body harness. |
| <b>5 CHECK AIRBAG REAR HARNESS LH (CURTAIN AIRBAG MODULE HARNESS LH).</b><br>Measure the resistance between connector (5U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(5U) No. 1 — Chassis ground:</b><br><b>(5U) No. 3 — Chassis ground:</b>   | Is the resistance more than 1 M $\Omega$ ?                         | Go to step 6.   | Replace the airbag rear harness LH with the body harness. |

## Diagnostic Chart with Trouble Code

### AIRBAG SYSTEM (DIAGNOSTICS)

| Step |  | Check                       | Yes  | No                    |
|------|--|-----------------------------|--|-----------------------|
| 6    | <b>CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>  | Go to step 7.         |
| 7    | <b>CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed? | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis. |

## AU:DTC 95 CURTAIN AIRBAG MODULE RH FAILURE

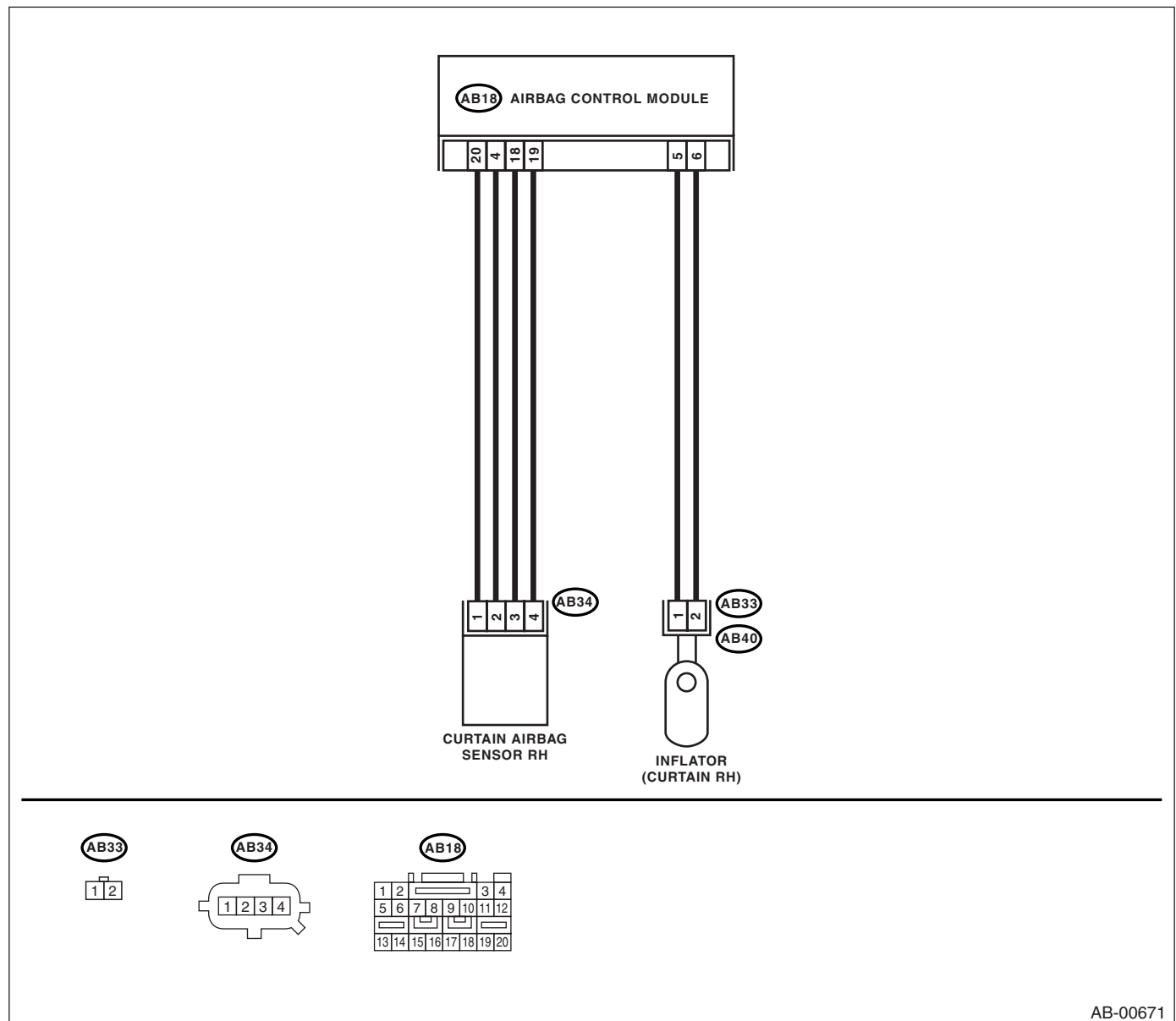
### DTC DETECTING CONDITION:

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

### CAUTION:

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

### WIRING DIAGRAM:



AB-00671

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| Step   | Check  | Yes  | No  |
|--|--|--|---|
| <b>1 CHECK POOR CONTACT OF CONNECTIONS.</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 RH 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 more than 20 seconds.<br>2) Disconnect the connector (AB33) from (AB40), and connect the connector (1F) in test harness F to connector (AB33).<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 6 seconds and go off? | Replace the curtain airbag module (RH). <Ref. to AB-19, Curtain Airbag Module.>  | Go to step 3.   |
| <b>3 CHECK AIRBAG REAR HARNESS RH (CURTAIN AIRBAG MODULE HARNESS RH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB26) from seat belt pretensioner (RH).<br>3) Disconnect the connector (AB24) from side airbag module (RH).<br>4) Disconnect the airbag resistor from test harness F.<br>5) Disconnect the connector (AB18) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (AB18).<br>7) Connect the battery ground terminal and turn the ignition switch to ON.<br>8) Measure the voltage between connector (5U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(5U) No. 6 (+) — Chassis ground (-):</b><br><b>(5U) No. 8 (+) — Chassis ground (-):</b> | Is the voltage less than 1 V?                                      | Go to step 4.  | Replace the airbag rear harness RH with body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>   | Go to step 5.   |
| <b>5 CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?  | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                 |

# Diagnostic Chart with Trouble Code

AIRBAG SYSTEM (DIAGNOSTICS)

## AV:DTC 96 CURTAIN AIRBAG MODULE LH FAILURE

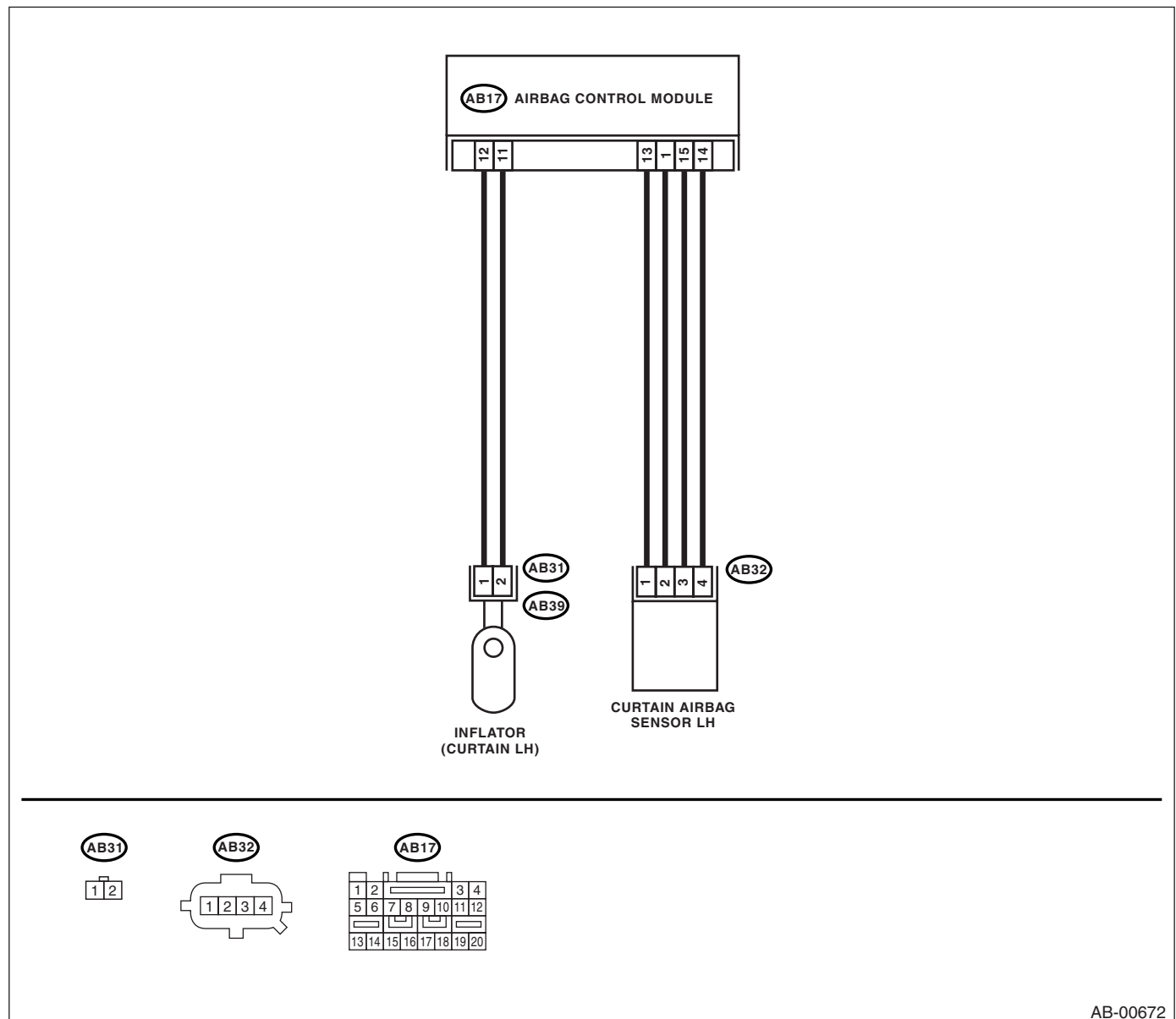
### DTC DETECTING CONDITION:

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

### CAUTION:

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

### WIRING DIAGRAM:



AB-00672

# Diagnostic Chart with Trouble Code

## AIRBAG SYSTEM (DIAGNOSTICS)

| 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 LH with the body harness.  | Go to step 2.   |
| <b>2 CHECK SIDE AIRBAG MODULE.</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB31) from (AB39), and connect the connector (1F) in test harness F to connector (AB31).<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 6 seconds and go off? | Replace the curtain airbag module (LH). <Ref. to AB-19, Curtain Airbag Module.>  | Go to step 3.   |
| <b>3 CHECK AIRBAG REAR HARNESS LH (CURTAIN AIRBAG MODULE HARNESS LH).</b><br>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.<br>2) Disconnect the connector (AB21) from seat belt pretensioner (LH).<br>3) Disconnect the connector (AB19) from side airbag module (LH).<br>4) Disconnect the airbag resistor from test harness F.<br>5) Disconnect the connector (AB17) from airbag control module.<br>6) Connect the connector (1U) in the test harness U to connector (AB17).<br>7) Connect the battery ground terminal and turn the ignition switch to ON.<br>8) Measure the voltage between connector (5U) in the test harness U and chassis ground.<br><b>Connector &amp; terminal</b><br><b>(5U) No. 1 (+) — Chassis ground (-):</b><br><b>(5U) No. 3 (+) — Chassis ground (-):</b> | Is the voltage less than 1 V?                                      | Go to step 4.  | Replace the airbag rear harness LH with the body harness. |
| <b>4 CHECK AIRBAG CONTROL MODULE.</b><br>1) Connect all the connectors.<br>2) Erase 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-21, Airbag Control Module.>   | Go to step 5.   |
| <b>5 CHECK ANY OTHER DTC ON DISPLAY.</b>   | Is any other DTC displayed?  | Check DTC using "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).> | Finish the diagnosis.                                     |