

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

13. Diagnostic Chart with Trouble Code

A: TROUBLE CODE 11

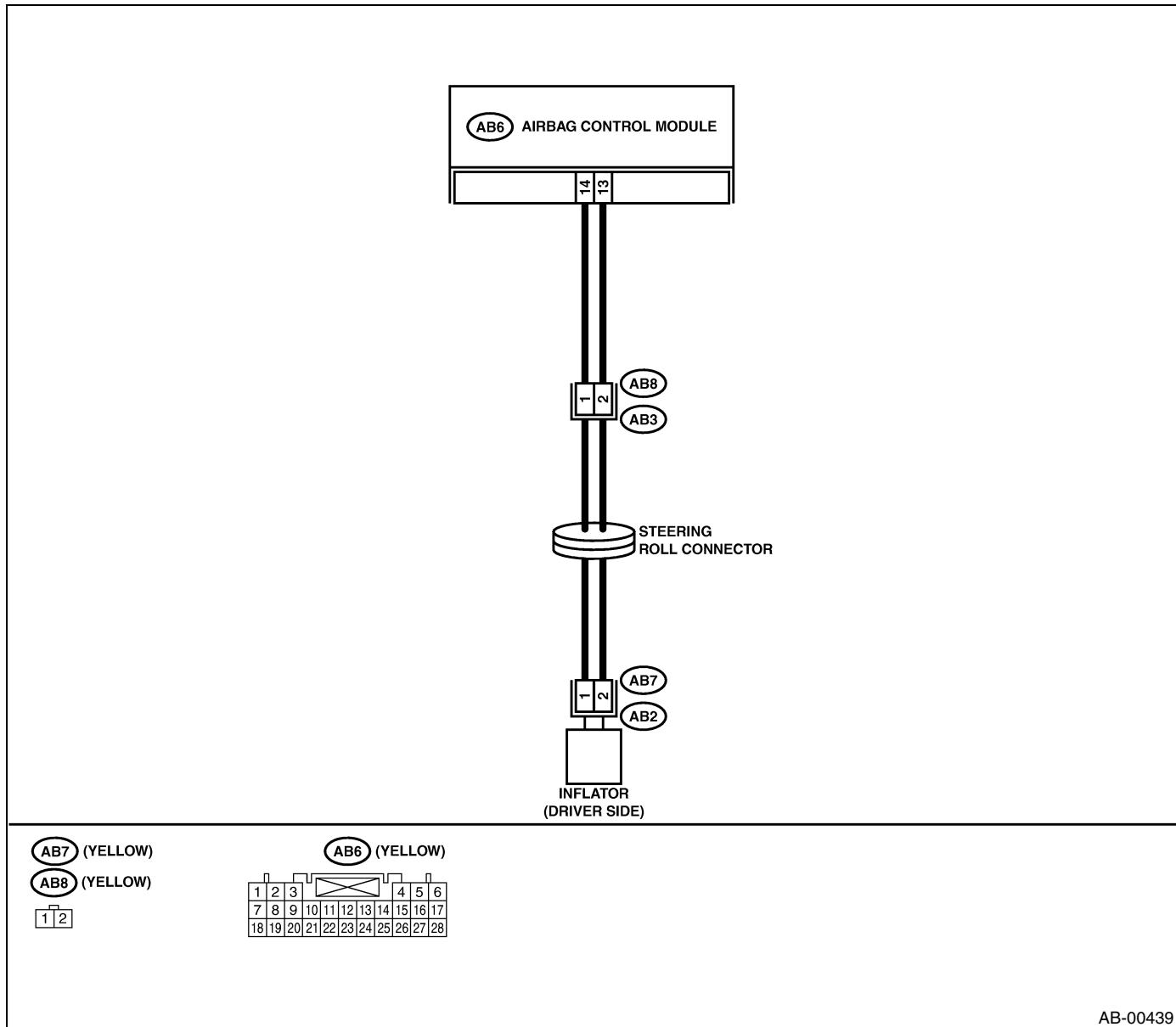
DIAGNOSIS:

- Airbag main harness circuit is open, shorted or shorted to ground.
- Airbag module harness (Driver) 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 OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
- Before 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 driver's airbag module and passenger's airbag module connectors for safety reasons.

WIRING DIAGRAM:



AB-00439

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK DRIVER'S AIRBAG MODULE. 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Remove the driver's airbag module. <Ref. to AB-12, Driver's Airbag Module.> 3)Connect the connector (1F) in the test harness F to connector (AB7). 4)Connect the airbag resistor to connector (3F) in the test harness F. 5)Connect the battery ground terminal and turn the ignition switch ON. Does the airbag warning light illuminate for 6 seconds and then turn off?	The airbag warning light illuminates for 6 seconds and then turns off.	Replace the driver's airbag module. <Ref. to AB-12, Driver's Airbag Module.>	Go to step 2.
2 CHECK ROLL CONNECTOR. 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Disconnect the test harness F from the connector (AB7). 3)Remove the lower cover panel, disconnect the connector (AB3) from (AB8) and connect the connector (1F) in the test harness F to connector (AB8). 4)Connect the airbag resistor to connector (3F) in the test harness F. 5)Connect the battery ground terminal and turn the ignition switch ON. Does the airbag warning light illuminate for 6 seconds and then turn off?	The airbag warning light illuminates for 6 seconds and then turns off.	Replace the roll connector. <Ref. to AB-17, Roll Connector.>	Go to step 3.
3 CHECK AIRBAG MAIN HARNESS. 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Disconnect the airbag resistor from the connector (3F) in the test harness F. 3)Remove the glove box, <Ref. to AB-13, Passenger's Airbag Module.> and disconnect the connectors (AB10) and (AB9). 4)Disconnect the connector (AB6) from the airbag control module, and connect the connector (1I) in the test harness I or I2. <Ref. to AB-15, Airbag Control Module.> 5)Measure the resistance between connector (2I) in the test harness I or I2 and the connector (3F) in the test harness F. Connector & terminal (2I) No. 1 — (3F) No. 4: (2I) No. 4 — (3F) No. 3: Is the measured value less than the specified value?	10 Ω	Go to step 4.	Replace the body harness with airbag main harness.

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Step	Check	Yes	No
4 CHECK AIRBAG MAIN HARNESS. Measure the resistance of the connector (2I) in the test harness I or I2. Connector & terminal (2I) No. 1 — No. 4: (2I) No. 4 — Chassis ground: (2I) No. 1 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>	Replace the body harness with airbag main harness.

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AIRBAG SYSTEM (DIAGNOSTICS)

B: TROUBLE CODE 12

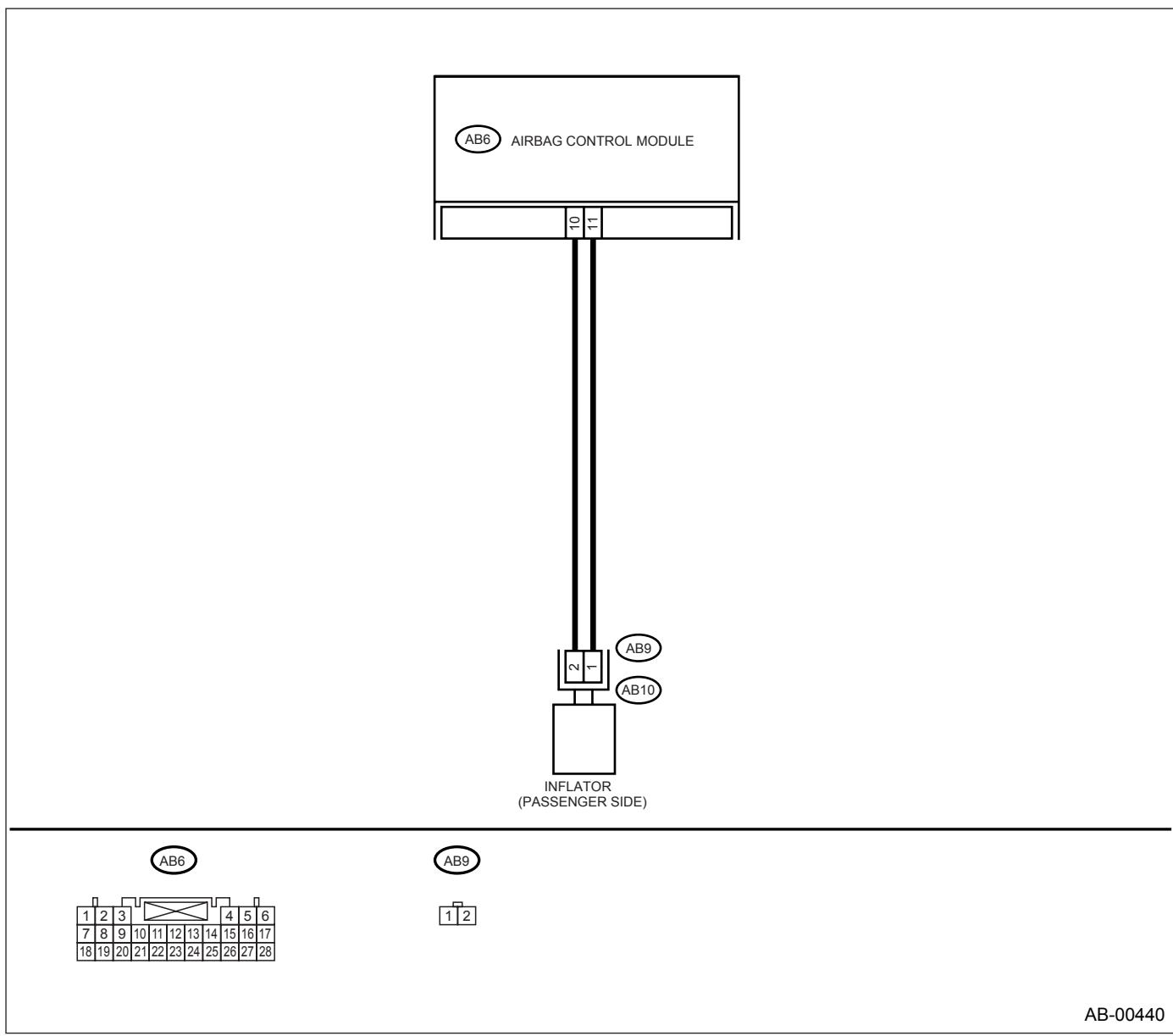
DIAGNOSIS:

- Airbag main harness circuit is open, shorted or shorted to ground.
- Airbag module harness (Passenger) 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 OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
- Before 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 connector of the driver and passenger seats for safety reasons.

WIRING DIAGRAM:



AB-00440

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK PASSENGER'S AIRBAG MODULE. 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Remove the glove box. 3)Disconnect the connector (AB10) from (AB9). 4)Connect the connector (1F) in the test harness F to connector (AB9). 5)Connect the airbag resistor to connector (3F) in the test harness F. 6)Connect the battery ground terminal and turn the ignition switch ON. Does the airbag warning light illuminate for 6 seconds and then turn off?	The airbag warning light illuminates for 6 seconds and then turns off.	Replace the passenger airbag module. <Ref. to AB-13, Passenger's Airbag Module.>	Go to step 2.
2 CHECK AIRBAG MAIN HARNESS. 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Disconnect the airbag resistor from the connector (3F) in test harness F. 3)Remove lower cover and disconnect the connector (AB3) from (AB8). 4)Disconnect the connector (AB6) from the airbag control module, and connect the connector (1I) in the test harness I or I2. <Ref. to AB-15, Airbag Control Module.> 5)Measure the resistance between connector (2I) in the test harness I or I2 and the connector (3F) in the test harness F. Connector & terminal (2I) No. 2 — (3F) No. 3: (2I) No. 5 — (3F) No. 4: Is the measured value less than the specified value?	10 Ω	Go to step 3.	Replace the body harness with airbag main harness.
3 CHECK AIRBAG MAIN HARNESS. Measure the resistance of the connector (2I) in the test harness I or I2. Connector & terminal (2I) No. 2 — No. 5: (2I) No. 2 — Chassis ground: (2I) No. 5 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Replace airbag control module. <Ref. to AB-15, Airbag Control Module.>	Replace the body harness with airbag main harness.

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C: TROUBLE CODE 15

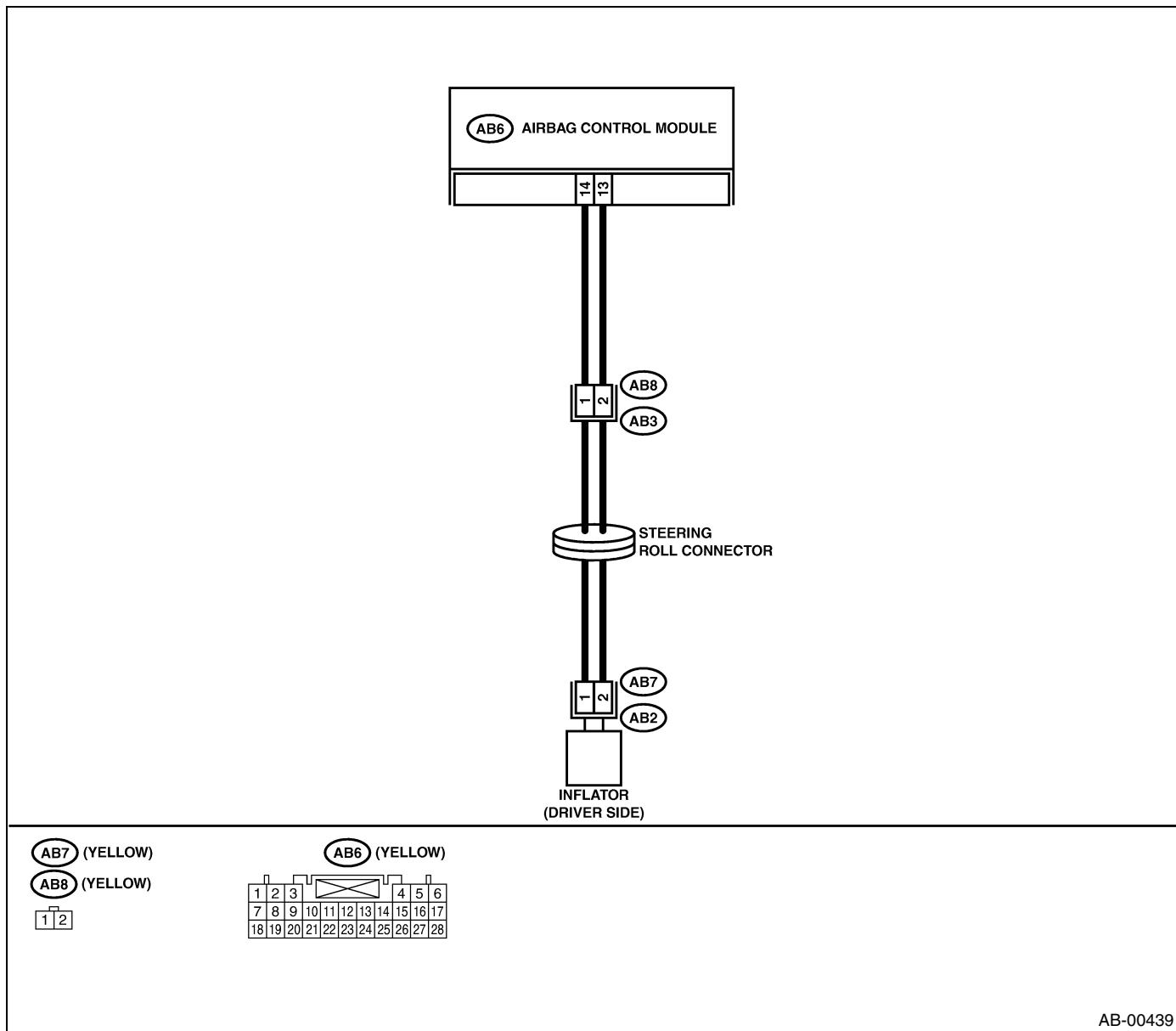
DIAGNOSIS:

- Airbag main harness circuit (Driver) is shorted to the power supply.
- Airbag module harness (Driver) is shorted to the power supply.
- Roll connector is shorted to the 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 OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
- Before 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 driver's airbag module and passenger's airbag module connectors for safety reasons.

WIRING DIAGRAM:



DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK DRIVER'S AIRBAG MODULE. 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Remove the driver's airbag module. <Ref. to AB-12, Driver's Airbag Module.> 3)Connect the connector (AB7) to connector (1F) in the test harness F. 4)Connect the airbag resistor to connector (3F) in the test harness F. 5)Connect the battery ground terminal and turn the ignition switch ON. Does the airbag warning light illuminate for 6 seconds and then turn off?	The airbag warning light illuminates for 6 seconds and then turns off.	Replace the driver's airbag module. <Ref. to AB-12, Driver's Airbag Module.>	Go to step 2.
2 CHECK ROLL CONNECTOR. 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Disconnect the test harness F from the connector (AB7). 3)Remove the lower cover panel and disconnect the connector (AB3) from (AB8). 4)Connect the connector (1F) in the test harness F to the connector (AB8). 5)Connect the airbag resistor to connector (3F) in the test harness F. 6)Connect the battery ground terminal and turn the ignition switch ON. Does the airbag warning light illuminate for 6 seconds and then turn off?	The airbag warning light illuminates for 6 seconds and then turns off.	Replace the roll connector. <Ref. to AB-17, Roll Connector.>	Go to step 3.
3 CHECK AIRBAG MAIN HARNESS. 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Disconnect the airbag resistor from the connector (3F) in test harness F. 3)Remove the glove box, and disconnect the connectors (AB10) and (AB9). 4)Disconnect the connector (AB6) from the airbag control module, and connect the connector (1I) in the test harness I or I2. <Ref. to AB-15, Airbag Control Module.> 5)Connect the battery ground terminal and turn the ignition switch ON. (Engine OFF) 6)Measure the voltage between connector (2I) in the test harness I or I2 and the chassis ground. Connector & terminal (2I) No. 4 (+) — Chassis ground (-): (2I) No. 1 (+) — Chassis ground (-): Is the measured value less than the specified value?	1 V	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>	Replace the body harness with airbag main harness.

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AIRBAG SYSTEM (DIAGNOSTICS)

D: TROUBLE CODE 16

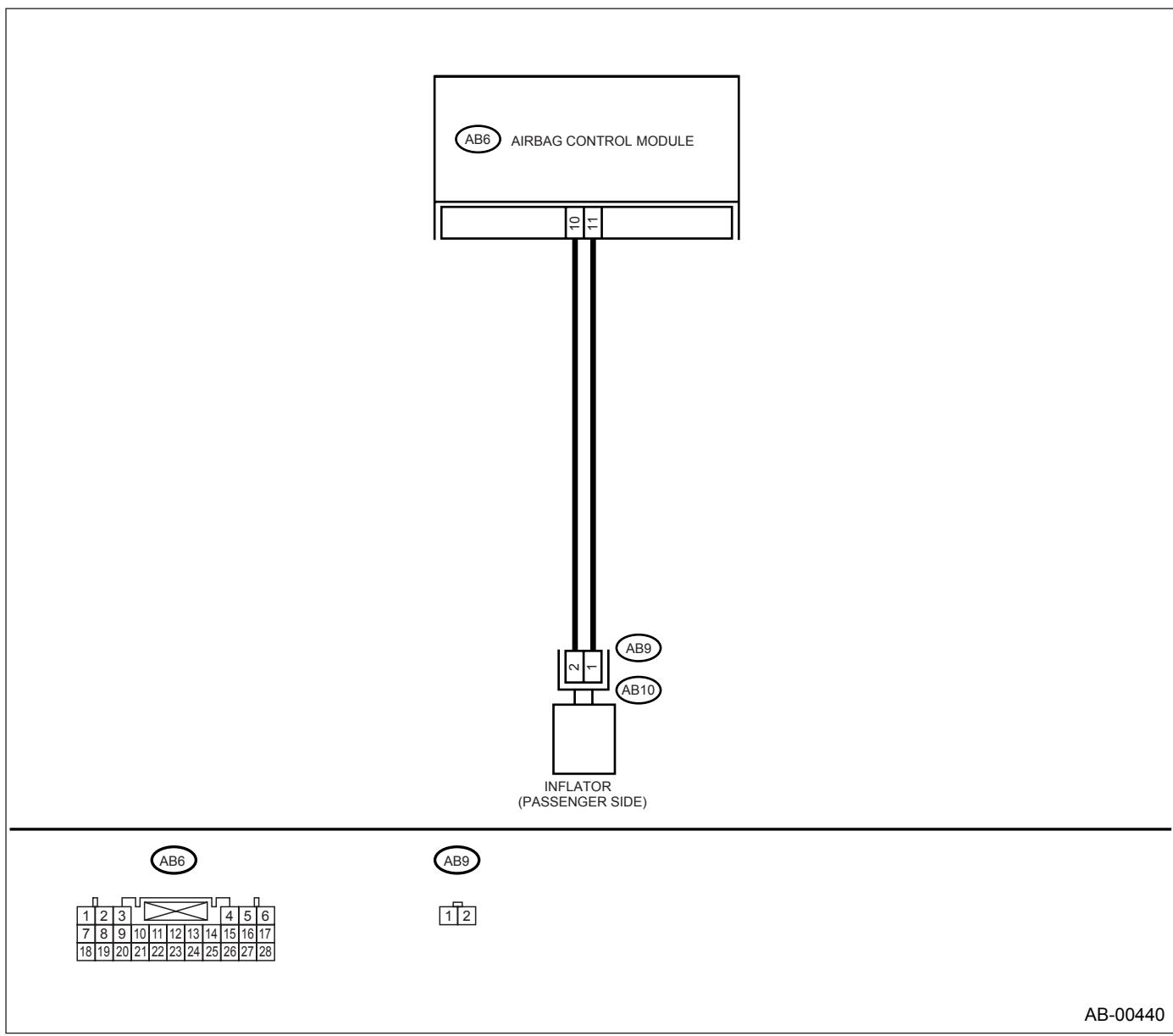
DIAGNOSIS:

- Airbag main harness circuit (Passenger) is shorted to the power supply.
- Airbag module harness (Passenger) is shorted to the 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 OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
- Before 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 connector of the driver and passenger seats for safety reasons.

WIRING DIAGRAM:



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AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK PASSENGER'S AIRBAG MODULE. 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Remove the glove box. 3)Disconnect the connector (AB10) from (AB9) 4)Connect the connector (1F) in the test harness F to the connector (AB9). 5)Connect the airbag resistor to connector (3F) in the test harness F. 6)Connect the battery ground terminal and turn the ignition switch ON. Does the airbag warning light illuminate for 6 seconds and then turn off?	The airbag warning light illuminates for 6 seconds and then turns off.	Replace the passenger airbag module. <Ref. to AB-13, Passenger's Airbag Module.>	Go to step 2.
2 CHECK AIRBAG MAIN HARNESS. 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Disconnect the airbag resistor from the connector (3F) in the test harness F. 3)Remove the lower cover and disconnect the connector (AB3) from (AB8). 4)Disconnect the connector (AB6) from the airbag control module, and connect the connector (1I) in the test harness I or I2. <Ref. to AB-15, Airbag Control Module.> 5)Measure the voltage between connector (2I) in the test harness I or I2 and the chassis ground. <i>Connector & terminal</i> <i>(2I) No. 2 — Chassis ground:</i> <i>(2I) No. 5 — Chassis ground:</i> Is the measured value less than the specified value?	1 V	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>	Replace the body harness with airbag main harness.

E: TROUBLE CODE 21

DIAGNOSIS:

- Airbag control module is faulty.

CAUTION:

- Before diagnosing the airbag system, be sure to turn the ignition switch OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
- Before 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 CHECK IF TROUBLE CODE 21 IS INDICATED. 1)Read Diagnostic Trouble Code. <Ref. to AB-24, Read Diagnostic Trouble Code.> 2)Clear the memory. 3)Read Diagnostic Trouble Code again. Does the airbag warning light indicate DTC 21?	The airbag warning light does not indicate DTC 21.	There was a temporary poor contact.	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>

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F: TROUBLE CODE 22

This code is indicated when the front airbag and the pretensioner are in operation.

Once this code is indicated, memory is not erasable; therefore replace the following parts.

- Airbag control module. <Ref. to AB-15, Airbag Control Module.>
- Driver's airbag module. <Ref. to AB-12, Driver's Airbag Module.>
- Passenger's airbag module. <Ref. to AB-13, Passenger's Airbag Module.>
- Front sub-sensor of both sides. <Ref. to AB-18, Front Sub Sensor.>
- Front seat belt outer with pretensioner of both sides. <Ref. to SB-8, Front Seat Belt.>

G: TROUBLE CODE 23

DIAGNOSIS:

(AB6), (AB17) and (AB18) are not connected properly to airbag control module.

CAUTION:

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

Step	Check	Yes	No
1 CHECK POOR CONTACT IN CONECTORS (AB6), (AB17) and (AB18). 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Disconnect the connectors (AB6), (AB17) and (AB18) from the airbag control module. <Ref. to AB-15, Airbag Control Module.> Is there any rust or damage found on the harness connector or control module?	No rust or damage.	Go to step 2.	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.> Replace the body harness with airbag main harness. Replace the body harness with side airbag harness.
2 CHECK POOR CONTACT IN CONECTORS (AB6), (AB17) and (AB18). 1)Ensure that the connectors are firmly reconnected. 2)Connect the battery ground terminal and turn the ignition switch ON. 3)Clear the memory. 4)Read Diagnostic Trouble Code again. Does the airbag warning light indicate DTC 23?	The airbag warning light does not indicate DTC 23.	There was a temporary poor contact.	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>

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AIRBAG SYSTEM (DIAGNOSTICS)

H: TROUBLE CODE 24

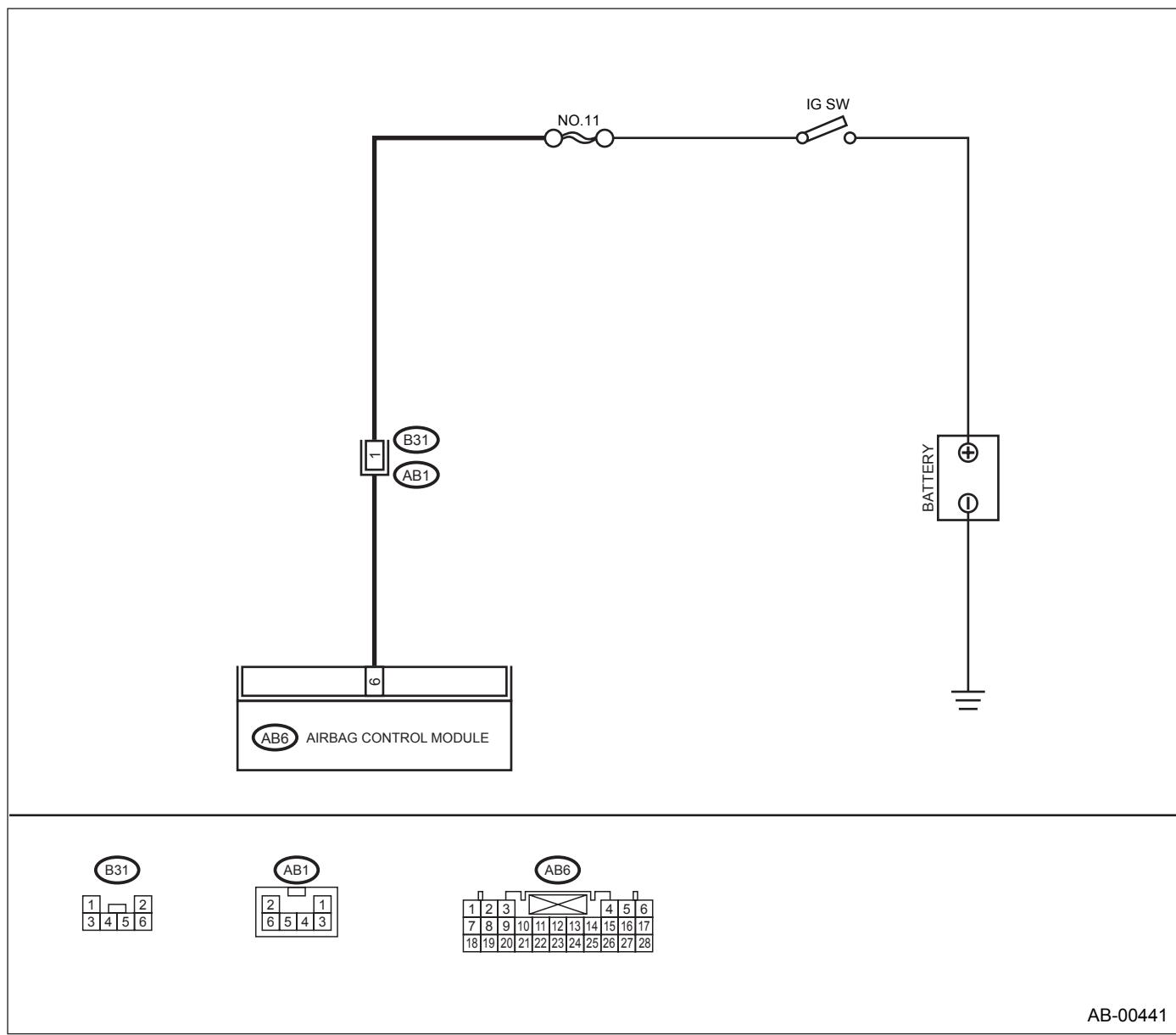
DIAGNOSIS:

- Airbag control module is faulty.
- Airbag main harness circuit is open.
- Fuse No. 11 (in joint box) is blown.
- Body harness circuit is open.

CAUTION:

- Before diagnosing the airbag system, be sure to turn the ignition switch OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
- Before 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 driver's airbag module and passenger's airbag module connectors for safety reasons.

WIRING DIAGRAM:



DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK AIRBAG CONTROL MODULE. 1) Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2) Disconnect the connector (AB6) from the airbag control module. <Ref. to AB-15, Airbag Control Module.> 3) Connect the connector (1I) in the test harness I or I2 to connector (AB6). 4) Connect the battery ground terminal and turn the ignition switch ON. 5) Measure the voltage between connector (2I) in the test harness I or I2 and chassis ground. Connector & terminal (2I) No. 3 (+) — Chassis ground (-): Is the measured value more than the specified value?	10 V	Go to step 2.	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>
2 CHECK AIRBAG MAIN HARNESS. 1) While checking control module, turn the ignition switch OFF and disconnect the battery ground terminal. Wait more than 20 seconds before operation. 2) Disconnect the airbag connector (AB1) from the body harness (B31). 3) Connect the connector (2M) in the test harness M to connector (AB1). 4) Measure the resistance between connector (5M) in the test harness M and the connector (2I) in the test harness I or I2. Connector & terminal (5M) No. 4 — (2I) No. 3: Is the measured value less than the specified value?	10 Ω	Go to step 3.	Replace the body harness with airbag main harness.
3 CHECK AIRBAG MAIN HARNESS. Measure the following resistance with the above-mentioned condition maintained. Connector & terminal (5M) No. 4 — Chassis ground: (2I) No. 3 — Chassis ground: Is the measured value more than the specified value?	1 M Ω	Go to step 4.	Replace the body harness with airbag main harness.
4 CHECK FUSE No. 11 (IN JOINT BOX). 1) Confirm that the ignition switch is turned OFF. 2) Remove the fuse No. 11 (in joint box) and perform visual inspection. Is fuse No. 11 blown?	Fuse No. 11 is not blown.	Repair the body harness.	Replace fuse No. 11. If fuse No. 11 blows again, repair the body harness.

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

I: TROUBLE CODE 25

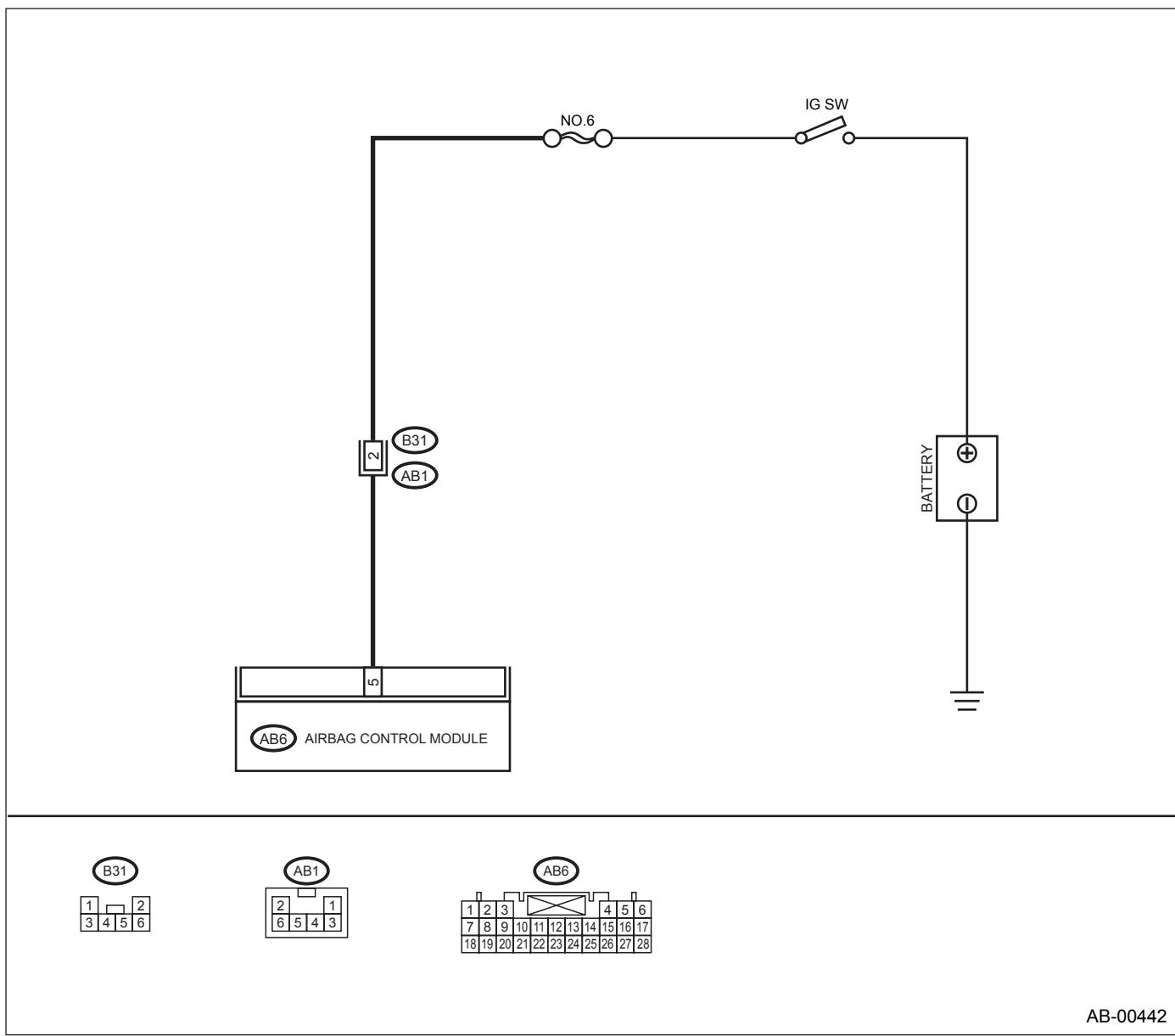
DIAGNOSIS:

- Airbag control module is faulty.
- Airbag main harness circuit is open.
- Fuse No. 6 (in joint box) is blown.
- Body harness circuit is open.

CAUTION:

- Before diagnosing the airbag system, be sure to turn the ignition switch OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
- Before 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 driver's airbag module and passenger's airbag module connectors for safety reasons.

WIRING DIAGRAM:



DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK AIRBAG CONTROL MODULE. 1) Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2) Disconnect the connector (AB6) from airbag control module. <Ref. to AB-15, Airbag Control Module.> 3) Connect the connector (1I) in the test harness I or I2 to the connector (AB6). 4) Connect the battery ground cable, and turn the ignition switch ON. 5) Measure the voltage between the connector (2I) in the test harness I or I2 and the chassis ground. Connector & terminal (2I) No. 6 (+) — Chassis ground (-): Is the measured value more than the specified value?	10 V	Go to step 2.	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>
2 CHECK AIRBAG MAIN HARNESS. 1) While checking control module, turn the ignition switch OFF and disconnect the battery ground terminal. Wait more than 20 seconds before operation. 2) Disconnect the airbag connector (AB1) from the body harness (B31). 3) Connect the connector (2M) in the test harness M to the airbag connector (AB1). 4) Measure the resistance between the connector (5M) in the test harness M and the connector (2I) in the test harness I or I2. Connector & terminal (5M) No. 2 — (2I) No. 6: Is the measured value less than the specified value?	10 Ω	Go to step 3.	Replace the body harness with airbag main harness.
3 CHECK AIRBAG MAIN HARNESS. Measure the following resistance with the above-mentioned condition maintained. Connector & terminal (5M) No. 2 — Chassis ground: (2I) No. 6 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Go to step 4.	Replace the body harness with airbag main harness.
4 CHECK FUSE NO. 6 (IN JOINT BOX). 1) Confirm that the ignition switch is turned OFF. 2) Remove the fuse No. 6 (in joint box) and perform visual inspection. Is the fuse No. 6 blown?	Fuse No. 6 is not blown.	Repair the body harness.	Replace the fuse No. 6. If the fuse No. 6 is blown again, repair the body harness.

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

J: TROUBLE CODE 31

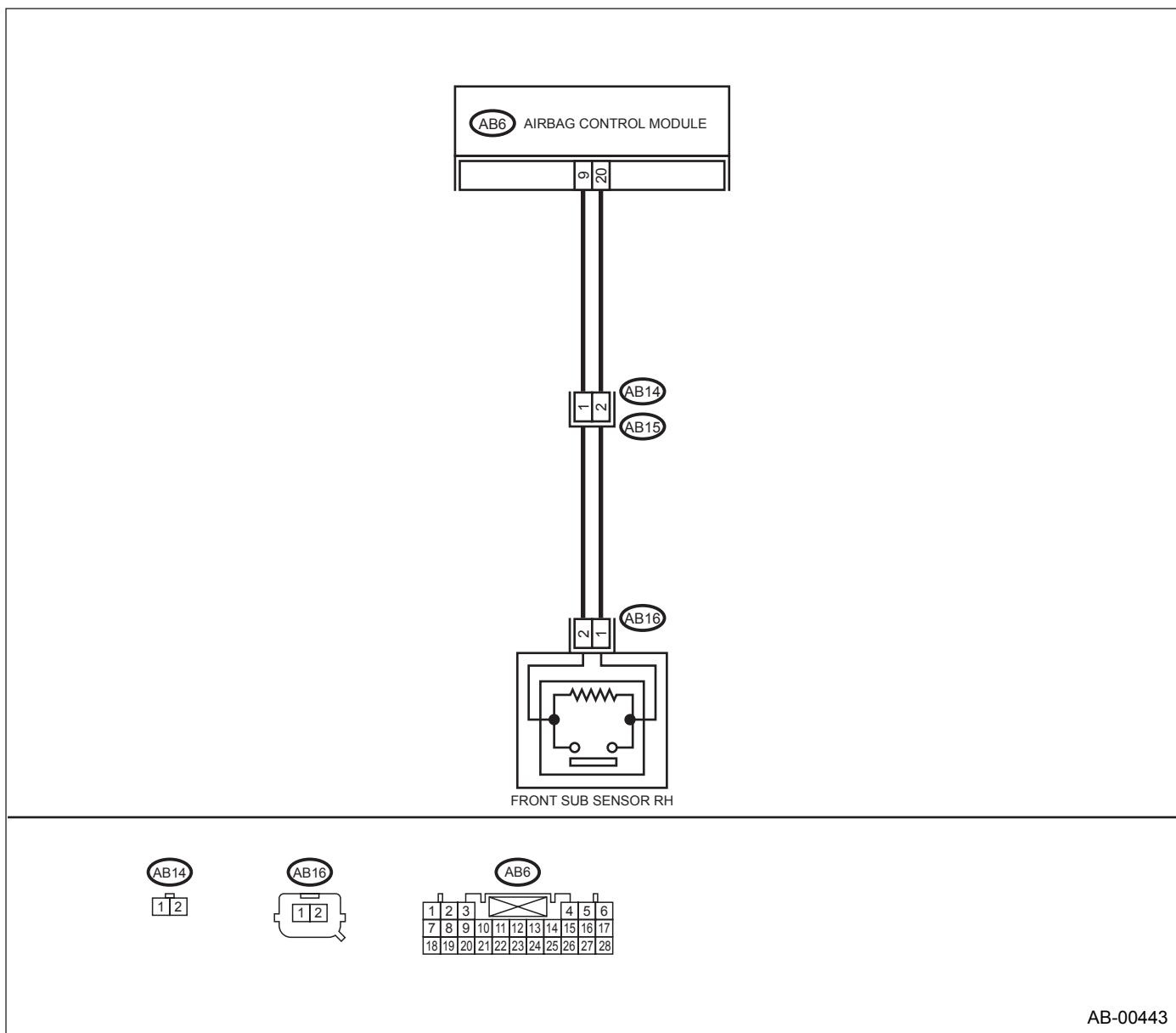
DIAGNOSIS:

- 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 OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
- Before 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 driver's airbag module and passenger's airbag module connectors for safety reasons.

WIRING DIAGRAM:



AB-00443

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK FRONT SUB-SENSOR (RH) AND FRONT SUB-SENSOR HARNESS (RH). 1) Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2) Disconnect the connector (AB6) from the airbag control module, and connect the connector (1I) in the test harness I or I2. <Ref. to AB-15, Airbag Control Module.> 3) Measure the resistance of the connector (3I) in the test harness I or I2. Connector & terminal (3I) No. 2 — No. 4: Is the measured value within the specified range?	Between 750Ω and 1 KΩ	Go to step 2.	Go to step 3.
2 CHECK FRONT SUB-SENSOR (RH) AND FRONT SUB-SENSOR HARNESS (RH). Measure the resistance between connector (3I) in the test harness I or I2 and the chassis ground. Connector & terminal (3I) No. 2 — Chassis ground: (3I) No. 4 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>	Go to step 3.
3 CHECK AIRBAG MAIN HARNESS AND FRONT SUB-SENSOR HARNESS (RH). 1) Disconnect the connector (AB16) from the front sub-sensor. <Ref. to AB-18, Front Sub Sensor.> 2) Connect the connector (IH) in test harness H to the connector (AB16). 3) Measure the resistance between connector (3I) in test harness I or I2 and connector (3H) in the test harness H. Connector & terminal (3I) No. 2 — (3H) No. 5: (3I) No. 4 — (3H) No. 6: Is the measured value less than the specified value?	10 Ω	Go to step 4.	Go to step 5.
4 CHECK AIRBAG MAIN HARNESS AND FRONT SUB-SENSOR HARNESS (RH). Measure the resistance between connector (3I) in the test harness I or I2 and the chassis ground. Connector & terminal (3I) No. 2 — Chassis ground: (3I) No. 4 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Go to step 10.	Go to step 5.

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AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
5 CHECK AIRBAG MAIN HARNESS 1)Disconnect the connector (AB15) from (AB14), and connect the connector (1F) in test harness F to the connector (AB14). 2)Measure the resistance between connector (3I) in the test harness I or I2 and connector (3F) in the test harness F. Connector & terminal (3I) No. 2 — (3F) No. 4: (3I) No. 4 — (3F) No. 3: Is the measured value less than the specified value?	10 Ω	Go to step 6.	Replace the body harness with airbag main harness.
6 CHECK AIRBAG MAIN HARNESS Measure the resistance between connector (3I) in the test harness I or I2 and the chassis ground. Connector & terminal (3I) No. 2 — Chassis ground: (3I) No. 4 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Go to step 7.	Replace the body harness with airbag main harness.
7 CHECK FRONT SUB-SENSOR HARNESS (RH). 1)Connect the connector (2F) in the test harness F to the connector (AB15). 2)Measure the resistance between connector (3H) in the test harness H and connector (3F) in the test harness F. Connector & terminal (3F) No. 5 — (3H) No. 5: (3F) No. 6 — (3H) No. 6: Is the measured value less than the specified value?	10 Ω	Go to step 8.	Replace the body harness with front sub-sensor harness (RH).
8 CHECK FRONT SUB-SENSOR HARNESS (RH). Measure the resistance between connector (3H) in the test harness H and connector (3F) in the test harness F. Connector & terminal (3F) No. 6 — (3H) No. 6: (3F) No. 5 — (3H) No. 5: Is the measured value more than the specified value?	1 MΩ	Go to step 9.	Replace the body harness with front sub-sensor harness.
9 CHECK FRONT SUB-SENSOR HARNESS (RH). Measure the resistance between connector (3F) in the test harness F and the chassis ground. Connector & terminal (3F) No. 5 — Chassis ground: (3F) No. 6 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Go to step 10.	Replace the body harness with front sub-sensor harness (RH).

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AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
10 CHECK FRONT SUB-SENSOR (RH). 1)Connect the connector (2H) in test harness H to the front sub-sensor (RH). 2)Measure the resistance of the connector (3H) in the test harness H. <i>Connector & terminal</i> <i>(3H) No. 3 — No. 4:</i> Is the measured value within the specified range?	Between 750Ω and 1 KΩ	Go to step 11.	Replace the front sub-sensor (RH). <Ref. to AB-18, Front Sub Sensor.>
11 CHECK FRONT SUB-SENSOR (RH). Measure the resistance between connector (3H) in the test harness H and the chassis ground. <i>Connector & terminal</i> <i>(3H) No. 3 — Chassis ground:</i> <i>(3H) No. 4 — Chassis ground:</i> Is the measured value more than the specified value?	1 MΩ	Finish the diagnosis.	Replace the front sub-sensor (RH). <Ref. to AB-18, Front Sub Sensor.>

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

K: TROUBLE CODE 32

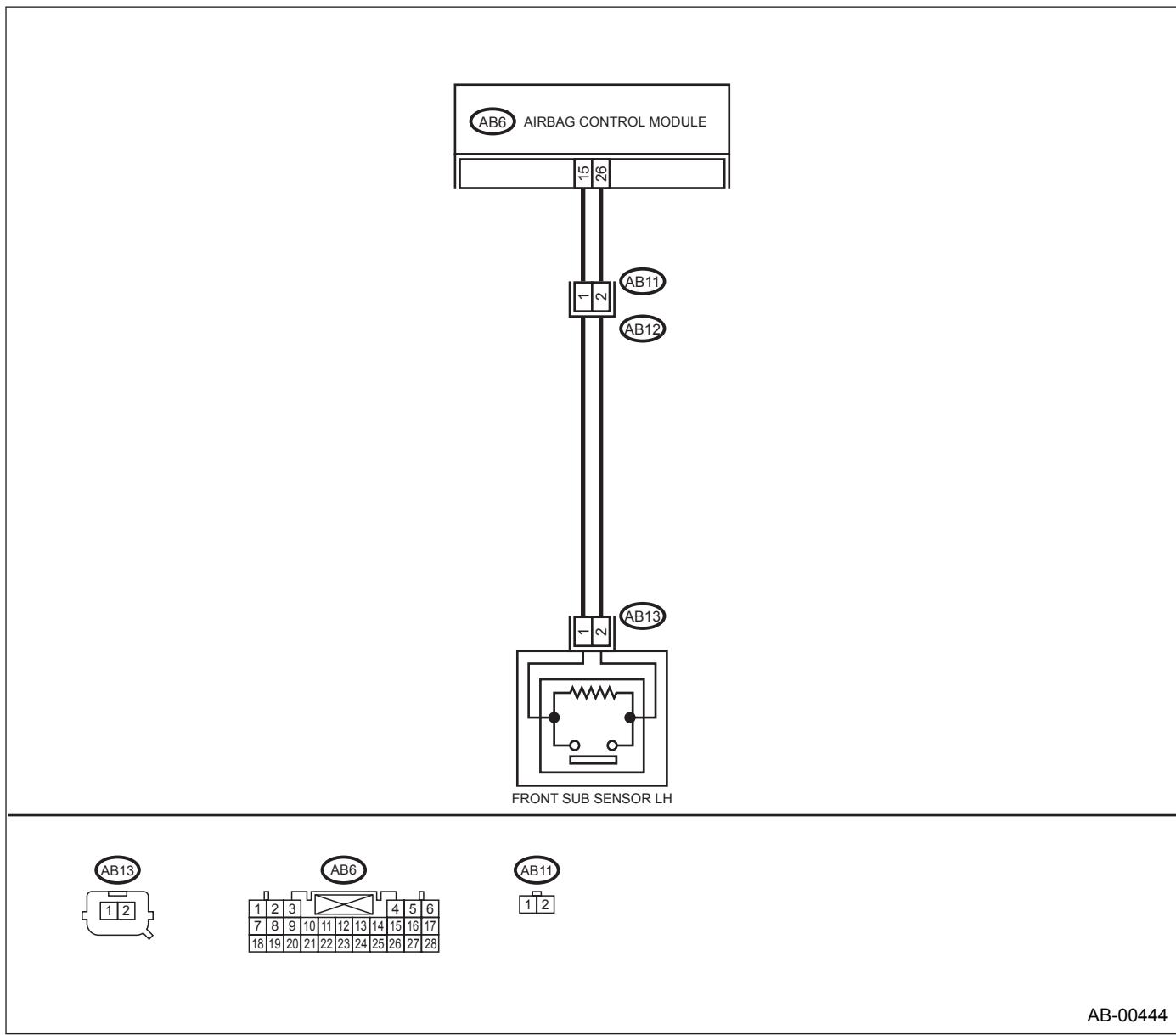
DIAGNOSIS:

- 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 OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
- Before 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 driver's airbag module and passenger's airbag module connectors for safety reasons.

WIRING DIAGRAM:



AB-00444

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK FRONT SUB-SENSOR (LH) AND FRONT SUB-SENSOR HARNESS (RH). 1) Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2) Disconnect the connector (AB6) from the airbag control module, and connect connector (1I) in the test harness I or I2 to the connector (AB6). <Ref. to AB-15, Airbag Control Module.> 3) Measure the resistance of the connector (3I) in the test harness I or I2. Connector & terminal (3I) No. 1 — No. 3: Is the measured value within the specified range?	Between 750Ω and 1 KΩ	Go to step 2.	Go to step 3.
2 CHECK FRONT SUB-SENSOR (LH) AND FRONT SUB-SENSOR HARNESS (RH). Measure the resistance between connector (3I) in the test harness I or I2 and the chassis ground. Connector & terminal (3I) No. 1 — Chassis ground: (3I) No. 3 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>	Go to step 3.
3 CHECK AIRBAG MAIN HARNESS AND FRONT SUB-SENSOR HARNESS (LH). 1) Disconnect the connector (AB13) from the front sub-sensor. <Ref. to AB-18, Front Sub Sensor.> 2) Connect the connector (1H) in the test harness H to the connector (AB13). 3) Measure the resistance between connector (3I) in the test harness I or I2 and connector (3H) in the test harness H. Connector & terminal (3I) No. 3 — (3H) No. 6: (3I) No. 1 — (3H) No. 5: Is the measured value less than the specified value?	10 Ω	Go to step 4.	Go to step 5.
4 CHECK AIRBAG MAIN HARNESS AND FRONT SUB-SENSOR HARNESS (LH). Measure the resistance between connector (3I) in the test harness I or I2 and the chassis ground. Connector & terminal (3I) No. 3 — Chassis ground: (3I) No. 1 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Go to step 10.	Go to step 5.

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
5 CHECK AIRBAG MAIN HARNESS. 1)Disconnect the connector (AB11) from (AB12), and connect the connector (1F) in the test harness F to (AB11). 2)Measure the resistance between connector (3I) in the test harness I or I2 and connector (3F) in the test harness F. Connector & terminal (3I) No. 3 — (3F) No. 3: (3I) No. 1 — (3F) No. 4: Is the measured value less than the specified value?	10 Ω	Go to step 6.	Replace the body harness with airbag main harness.
6 CHECK AIRBAG MAIN HARNESS. Measure the resistance between connector (3I) in the test harness I or I2 and the chassis ground. Connector & terminal (3I) No. 3 — Chassis ground: (3I) No. 1 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Go to step 7.	Replace the body harness with airbag main harness.
7 CHECK FRONT SUB-SENSOR HARNESS (LH). 1)Connect the connector (2F) in the test harness F to the connector (AB12). 2)Measure the resistance between connector (3H) in the test harness H and connector (3F) in the test harness F. Connector & terminal (3F) No. 5 — (3H) No. 5: (3F) No. 6 — (3H) No. 6: Is the measured value less than the specified value?	10 Ω	Go to step 8.	Replace the body harness with front sub-sensor harness (LH).
8 CHECK FRONT SUB-SENSOR HARNESS (LH). Measure the resistance between connector (3H) in the test harness H and connector (3F) in the test harness F. Connector & terminal (3F) No. 6 — (3H) No. 6: (3F) No. 5 — (3H) No. 5: Is the measured value more than the specified value?	1 MΩ	Go to step 9.	Replace the body harness with front sub-sensor harness (LH).
9 CHECK FRONT SUB-SENSOR HARNESS (LH). Measure the resistance between connector (3F) in the test harness F and the chassis ground. Connector & terminal (3F) No. 5 — Chassis ground: (3F) No. 6 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Go to step 10.	Replace the body harness with front sub-sensor harness (LH).

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
10 CHECK FRONT SUB-SENSOR (LH). 1)Connect connector (2H) in the test harness H to the front sub-sensor (LH). 2)Measure the resistance of the connector (3H) in the test harness H. <i>Connector & terminal</i> <i>(3H) No. 3 — No. 4:</i> Is the measured value within the specified range?	Between 750Ω and 1 KΩ	Go to step 11.	Replace the front sub-sensor (LH). <Ref. to AB-18, Front Sub Sensor.>
11 CHECK FRONT SUB-SENSOR (LH). Measure the resistance between connector (3H) in the test harness H and the chassis ground. <i>Connector & terminal</i> <i>(3H) No. 3 — Chassis ground:</i> <i>(3H) No. 4 — Chassis ground:</i> Is the measured value more than the specified value?	1 MΩ	Finish the diagnosis.	Replace the front sub-sensor (LH). <Ref. to AB-18, Front Sub Sensor.>

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

L: TROUBLE CODE 41

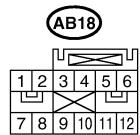
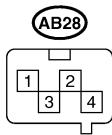
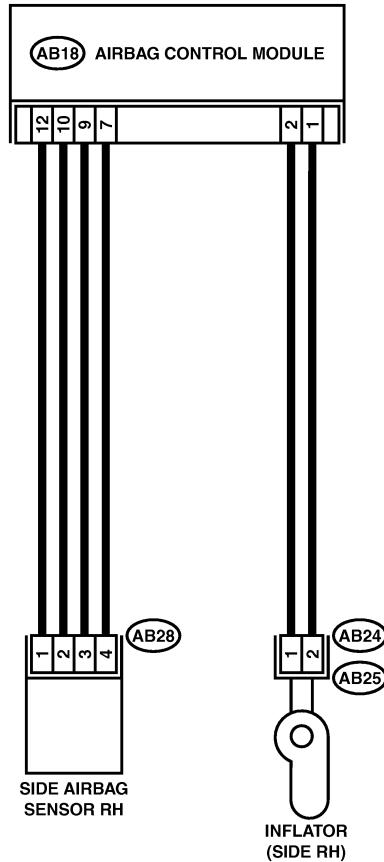
DIAGNOSIS:

- 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 OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
- Before 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 driver's airbag module and passenger's airbag module connectors for safety reasons.
- When inspecting the side airbag harness, disconnect the side airbag module connector and seat belt pretensioner connector for the safety reasons.

WIRING DIAGRAM:



DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK SIDE AIRBAG MODULE. 1) Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2) Disconnect the connector (AB26) from the seat belt pretensioner (RH). <Ref. to SB-8, Front Seat Belt.> 3) Disconnect the connector (AB25) from (AB24), and connect the connector (1F) in the test harness F to (AB24). 4) Connect the airbag resistor to the connector (3F) in the test harness F. 5) Connect the battery ground terminal, and turn the ignition switch ON. Does the airbag warning light illuminate for 6 seconds and then turn off?	The airbag warning light illuminates for 6 seconds and then turns off.	Replace the side airbag module (RH). <Ref. to AB-14, REMOVAL, Side Airbag Module.>	Go to step 2.
2 CHECK SIDE AIRBAG HARNESS (RH). 1) Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2) Disconnect the airbag resistor from the test harness F. 3) Disconnect the connector (AB18) from the air bag control module. <Ref. to AB-15, Airbag Control Module.> 4) Connect the connector (1I) in the test harness I or I2 to the connector (AB18). 5) Measure the resistance between connector (3I) in the test harness I or I2 and connector (3F) in the test harness F. Connector & terminal (3I) No. 7 — (3F) No. 4: (3I) No. 9 — (3F) No. 3: Is the measured value less than the specified value?	10 Ω	Go to step 3.	Replace the side airbag harness along with the body harness.
3 CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance of the connector (3I) in the test harness I or I2. Connector & terminal (3I) No. 7 — No. 9: Is the measured value more than the specified value?	1 MΩ	Go to step 4.	Replace the side airbag harness along with the body harness.
4 CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance of the connector (3F) in the test harness F. Connector & terminal (3F) No. 3 — No. 4: Is the measured value more than the specified value?	1 MΩ	Go to step 5.	Replace the side airbag harness along with the body harness.
5 CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance between connector (3F) in the test harness F and the chassis ground. Connector & terminal (3F) No. 3 — Chassis ground: (3F) No. 4 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Go to step 6.	Replace the side airbag harness along with the body harness.

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
6 CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance between connector (3I) in the test harness I or I2 and the chassis ground. Connector & terminal (3I) No. 7 — Chassis ground: (3I) No. 9 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>	Replace the side airbag harness along with the body harness.

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

M: TROUBLE CODE 42

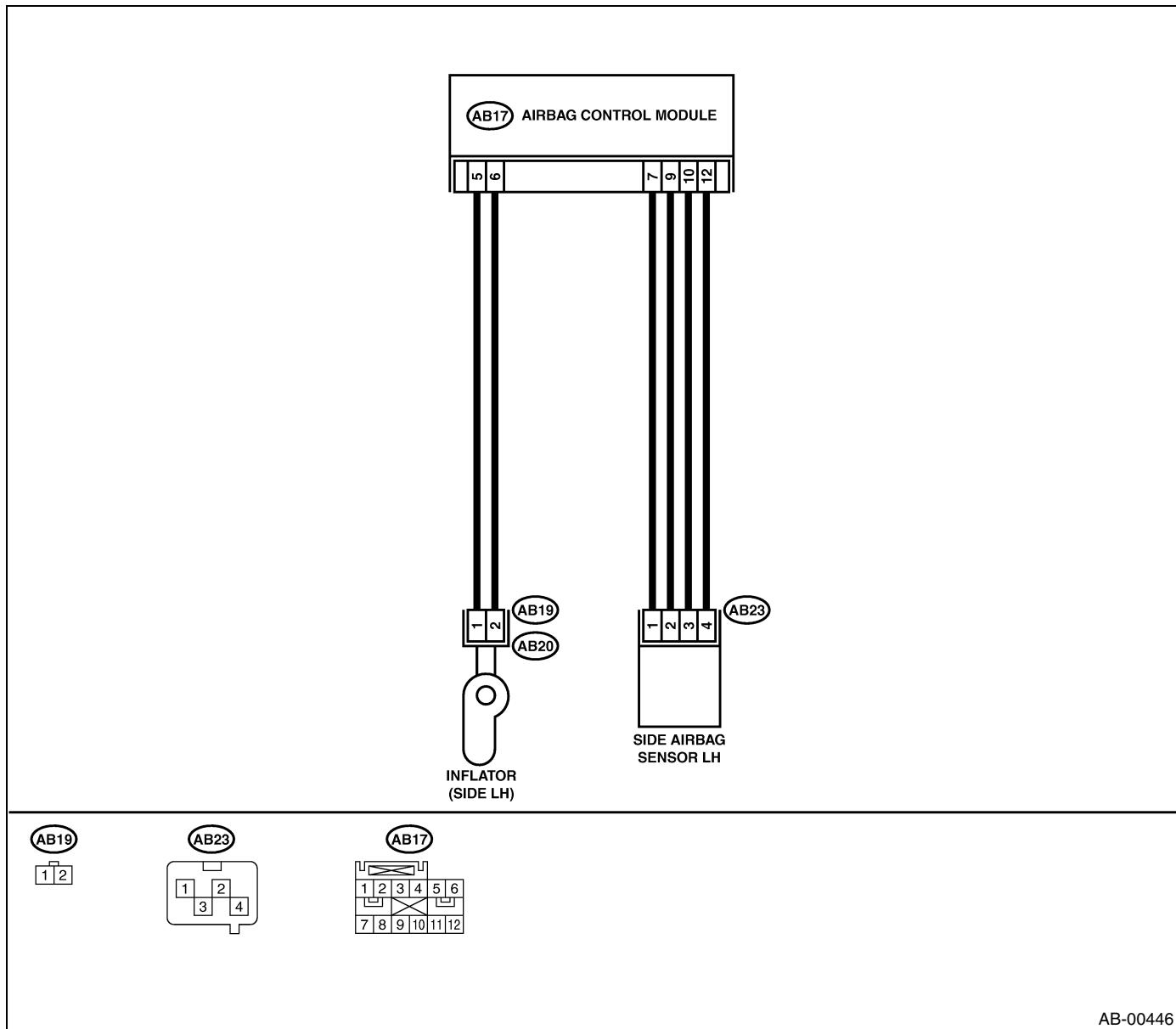
DIAGNOSIS:

- 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 OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
- Before 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 driver's airbag module and passenger's airbag module connectors for safety reasons.
- When inspecting the side airbag harness, disconnect the side airbag module connector and seat belt pretensioner connector for the safety reasons.

WIRING DIAGRAM:



DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK SIDE AIRBAG MODULE. 1) Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2) Disconnect the connector (AB21) from the seat belt pretensioner (LH). <Ref. to SB-8, Front Seat Belt.> 3) Disconnect the connector (AB20) from (AB19), and connect the connector (1F) in the test harness F to (AB19). 4) Connect the airbag resistor to the connector (3F) in the test harness F. 5) Connect the battery ground terminal, and turn the ignition switch ON. Does the airbag warning light illuminate for 6 seconds and then turn off?	The airbag warning light illuminates for 6 seconds and then turns off.	Replace the side airbag module (LH). <Ref. to AB-14, REMOVAL, Side Airbag Module.>	Go to step 2.
2 CHECK SIDE AIRBAG HARNESS (LH). 1) Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2) Disconnect the airbag resistor from the test harness F. 3) Disconnect the connector (AB17) from the airbag control module. <Ref. to AB-15, Airbag Control Module.> 4) Connect the connector (1I) in the test harness I or I2 to the connector (AB17). 5) Measure the resistance between connector (3I) in the test harness I or I2 and connector (3F) in the test harness F. Connector & terminal (3I) No. 10 — (3F) No. 3: (3I) No. 12 — (3F) No. 4: Is the measured value less than the specified value?	10 Ω	Go to step 3.	Replace the side airbag harness along with the body harness.
3 CHECK SIDE AIRBAG HARNESS (LH). Measure the resistance of the connector (3I) in the test harness I or I2. Connector & terminal (3I) No. 10 — No. 12: Is the measured value more than the specified value?	1 MΩ	Go to step 4.	Replace the side airbag harness along with the body harness.
4 CHECK SIDE AIRBAG HARNESS (LH). Measure the resistance of the connector (3F) in the test harness F. Connector & terminal (3F) No. 3 — No. 4: Is the measured value more than the specified value?	1 MΩ	Go to step 5.	Replace the side airbag harness along with the body harness.
5 CHECK SIDE AIRBAG HARNESS (LH). Measure the resistance between connector (3F) in the test harness F and the chassis ground. Connector & terminal (3F) No. 3 — Chassis ground: (3F) No. 4 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Go to step 6.	Replace the side airbag harness along with the body harness.

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
6 CHECK SIDE AIRBAG HARNESS (LH). Measure the resistance between connector (3I) in the test harness I or I2 and the chassis ground. Connector & terminal (3I) No. 10 — Chassis ground: (3I) No. 12 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>	Replace the side airbag harness along with the body harness.

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

N: TROUBLE CODE 45

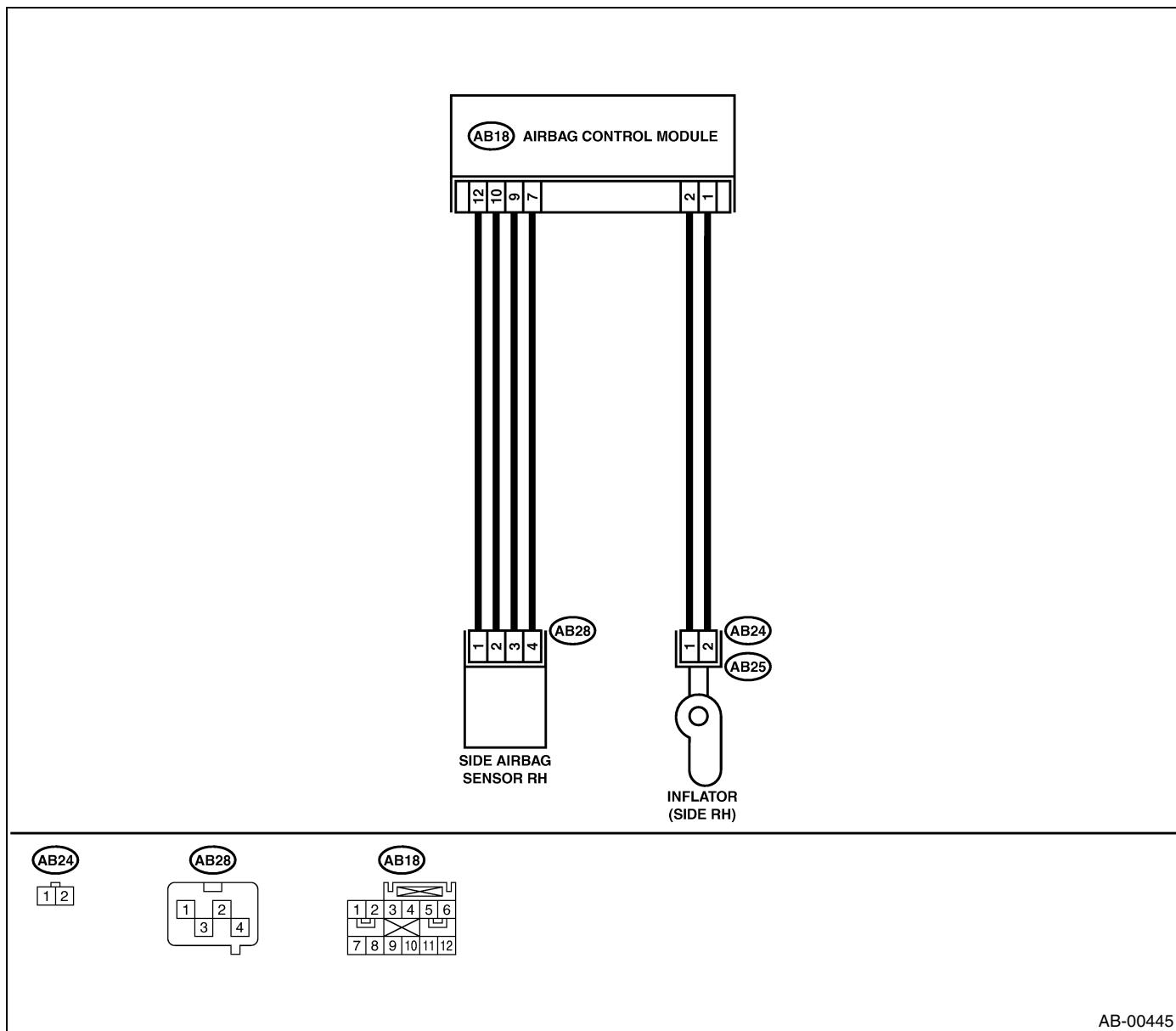
DIAGNOSIS:

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

CAUTION:

- Before diagnosing the airbag system, be sure to turn the ignition switch OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
- Before 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 driver's airbag module and passenger's airbag module connectors for safety reasons.
- When inspecting the side airbag harness, disconnect the side airbag module connector and seat belt pretensioner connector for the safety reasons.

WIRING DIAGRAM:



DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK SIDE AIRBAG MODULE. 1) Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2) Disconnect the connector (AB26) from the seat belt pretensioner (RH). <Ref. to SB-8, Front Seat Belt.> 3) Disconnect the connector (AB25) from (AB24), and connect the connector (1F) in the test harness F to (AB24). 4) Connect the airbag resistor to the connector (3F) in the test harness F. 5) Connect the battery ground terminal, and turn the ignition switch ON. Does the airbag warning light illuminate for 6 seconds and then turn off?	The airbag warning light illuminates for 6 seconds and then turns off.	Replace the side airbag module (RH). <Ref. to AB-14, REMOVAL, Side Airbag Module.>	Go to step 2.
2 CHECK SIDE AIRBAG HARNESS (RH). 1) Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2) Disconnect the airbag resistor from the test harness F. 3) Disconnect the connector (AB18) from the airbag control module. <Ref. to AB-15, Airbag Control Module.> 4) Connect the connector (1I) in the test harness I or I2 to the connector (AB18). 5) Connect the battery ground terminal, and turn the ignition switch ON. 6) Measure the voltage between connector (3I) in the test harness I or I2 and the chassis ground. Connector & terminal (3I) No. 7 (+) — Chassis ground (-): (3I) No. 9 (+) — Chassis ground (-): Is the measured value less than the specified value?	1 V	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>	Replace the side airbag harness along with the body harness.

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

O: TROUBLE CODE 46

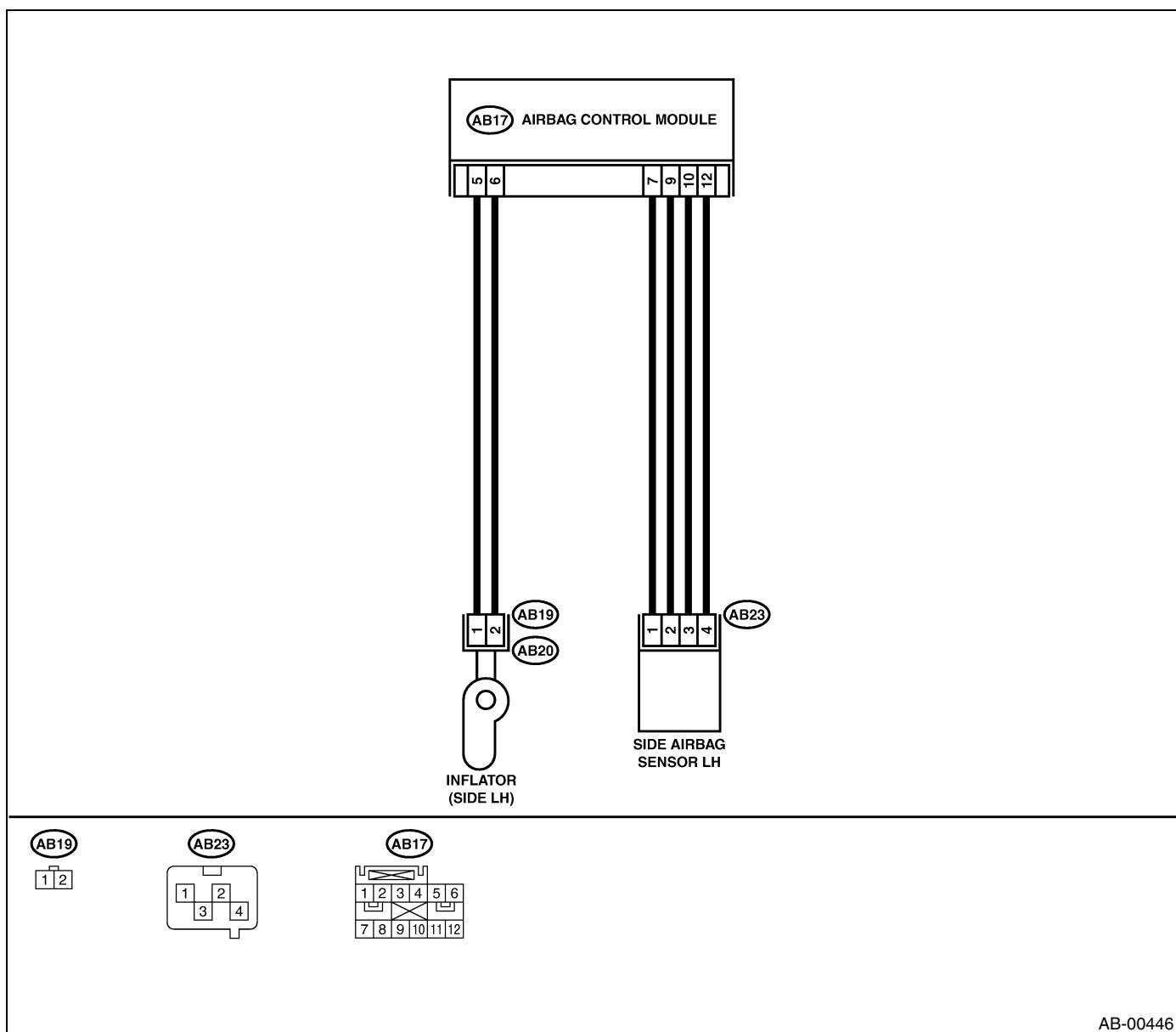
DIAGNOSIS:

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

CAUTION:

- Before diagnosing the airbag system, be sure to turn the ignition switch OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
 - Before 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 driver's airbag module and passenger's airbag module connectors for safety reasons.
 - When inspecting the side airbag harness, disconnect the side airbag module connector and seat belt pretensioner connector for the safety reasons.

WIRING DIAGRAM:



DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK SIDE AIRBAG MODULE. 1) Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2) Disconnect the connector (AB21) from the seat belt pretensioner (LH). <Ref. to SB-8, Front Seat Belt.> 3) Disconnect the connector (AB20) from (AB19), and connect the connector (1F) in the test harness F to (AB19). 4) Connect the airbag resistor to the connector (3F) in the test harness F. 5) Connect the battery ground terminal and turn the ignition switch ON. Does the airbag warning light illuminate for 6 seconds and then turn off?	The airbag warning light illuminates for 6 seconds and then turns off.	Replace the side airbag module (LH). <Ref. to AB-14, REMOVAL, Side Airbag Module.>	Go to step 2.
2 CHECK SIDE AIRBAG HARNESS (LH). 1) Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2) Disconnect the airbag resistor from the test harness F. 3) Disconnect the connector (AB17) from the airbag control module. <Ref. to AB-15, Airbag Control Module.> 4) Connect the connector (1I) in the test harness I or I2 to the connector (AB17). 5) Connect the battery ground terminal, and turn the ignition switch ON. 6) Measure the voltage between connector (3I) in the test harness I or I2 and the chassis ground. Connector & terminal (3I) No. 10 (+) — Chassis ground (-): (3I) No. 12 (+) — Chassis ground (-): Is the measured value less than the specified value?	1 V	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>	Replace the side airbag harness along with the body harness.

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

P: TROUBLE CODE 51

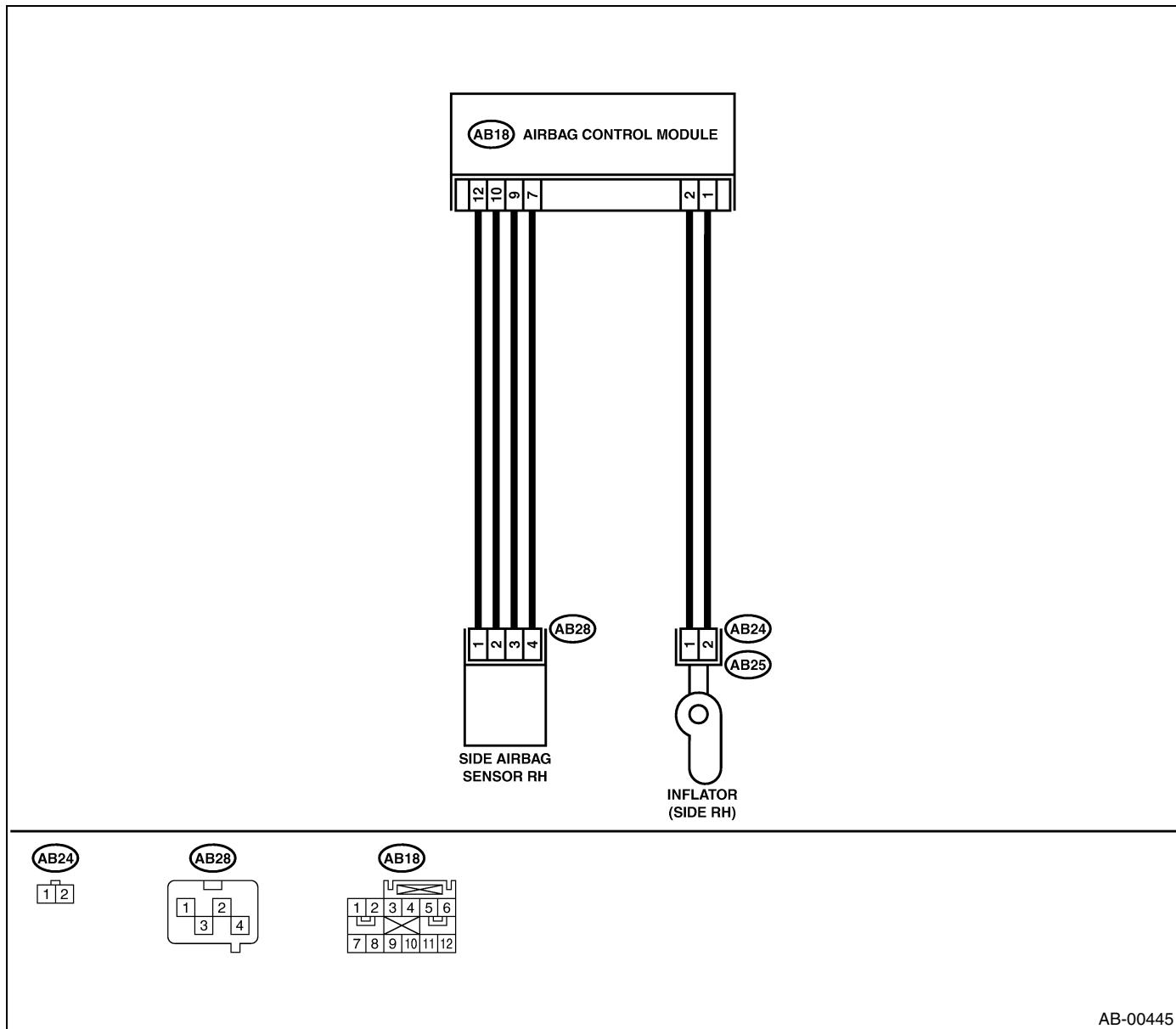
DIAGNOSIS:

- 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 OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
 - Before 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 driver's airbag module and passenger's airbag module connectors for safety reasons.
 - When inspecting the side airbag harness, disconnect the side airbag module connector and seat belt pretensioner connector for the safety reasons.

WIRING DIAGRAM:



DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
<p>1 CHECK SIDE AIRBAG HARNESS (RH).</p> <p>1) Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds.</p> <p>2) Disconnect the connector (AB26) from the seat belt pretensioner (RH). <Ref. to SB-8, Front Seat Belt.></p> <p>3) Disconnect the connector (AB25) from (AB24).</p> <p>4) Disconnect the connector (AB18) from the airbag control module. <Ref. to AB-15, Airbag Control Module.></p> <p>5) Connect the connector (1I) in the test harness I or I2 to the connector (AB18).</p> <p>6) Disconnect the connector (AB28) from the side airbag sensor (RH), and connect the connector (1G) in the test harness G to the connector (AB28).</p> <p>7) Measure the resistance between connector (3I) in the test harness I or I2 and connector (3G) in the test harness G.</p> <p>Connector & terminal</p> <p>(3I) No. 17 — (3G) No. 2:</p> <p>(3I) No. 18 — (3G) No. 1:</p> <p>(3I) No. 19 — (3G) No. 5:</p> <p>(3I) No. 20 — (3G) No. 4:</p> <p>Is the measured value less than the specified value?</p>	10 Ω	Go to step 2.	Replace the body harness with side airbag harness.
<p>2 CHECK SIDE AIRBAG HARNESS (RH).</p> <p>Measure the resistance between connector (3I) in the test harness I or I2 and the chassis ground.</p> <p>Connector & terminal</p> <p>(3I) No. 17 — Chassis ground:</p> <p>(3I) No. 18 — Chassis ground:</p> <p>(3I) No. 19 — Chassis ground:</p> <p>(3I) No. 20 — Chassis ground:</p> <p>Is the measured value more than the specified value?</p>	1 MΩ	Replace the side airbag sensor (RH). <Ref. to AB-16, Side Airbag Sensor.> When the sensor replacement is not OK, replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>	Replace the body harness with side airbag harness.

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Q: TROUBLE CODE 52

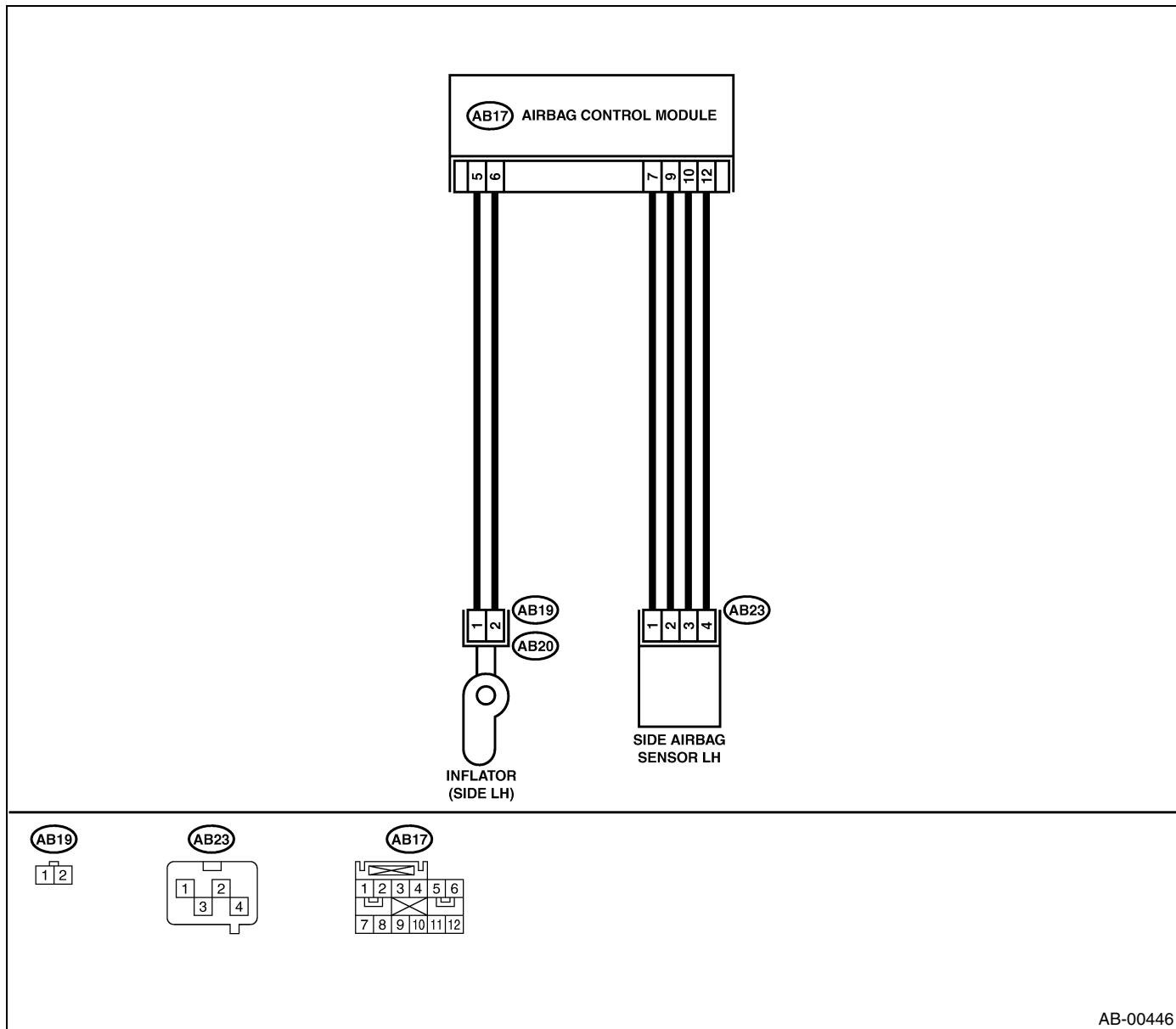
DIAGNOSIS:

- 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 OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
- Before 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 driver's airbag module and passenger's airbag module connectors for safety reasons.
- When inspecting the side airbag harness, disconnect the side airbag module connector and seat belt pretensioner connector for the safety reasons.

WIRING DIAGRAM:



AB-00446

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK SIDE AIRBAG HARNESS (LH). 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Disconnect the connector (AB21) from the seat belt pretensioner (LH). <Ref. to SB-8, Front Seat Belt.> 3)Disconnect the connector (AB20) from (AB19). 4)Disconnect the connector (AB17) from the airbag control module. <Ref. to AB-15, Airbag Control Module.> 5)Connect the connector (1I) in the test harness I or I2 to the connector (AB17). 6)Disconnect the connector (AB23) from the side airbag sensor (LH), and connect the connector (1G) in the test harness G to the connector (AB23). 7)Measure the resistance between connector (3I) in the test harness I or I2 and connector (3G) in the test harness G. Connector & terminal (3I) No. 5 — (3G) No. 4: (3I) No. 14 — (3G) No. 5: (3I) No. 15 — (3G) No. 1: (3I) No. 16 — (3G) No. 2: Is the measured value less than the specified value?	10 Ω	Go to step 2.	Replace the body harness with side airbag harness.
2 CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance between connector (3I) in the test harness I or I2 and the chassis ground. Connector & terminal (3I) No. 5 — <i>Chassis ground</i> : (3I) No. 14 — <i>Chassis ground</i> : (3I) No. 15 — <i>Chassis ground</i> : (3I) No. 16 — <i>Chassis ground</i> : Is the measured value more than the specified value?	1 MΩ	Replace the side airbag sensor (LH). <Ref. to AB-16, Side Airbag Sensor.> When the sensor replacement is not OK, replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>	Replace the body harness with side airbag harness.

R: TROUBLE CODE 53

DIAGNOSIS:

- Side airbag sensor (RH) is faulty.

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

<Ref. to AB-16, Side Airbag Sensor.>

S: TROUBLE CODE 54

DIAGNOSIS:

- Side airbag sensor (LH) is faulty.

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

<Ref. to AB-16, Side Airbag Sensor.>

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

T: TROUBLE CODE 55

This code is displayed when the side airbag is deployed.

When this code is displayed, the memory cannot be erased. Replace the following parts.

- Airbag control module. <Ref. to AB-15, Airbag Control Module.>
- Front seat assembly with side airbag module. (Operating side) <Ref. to SE-6, Front Seat.>
- Side airbag sensor. (Operating side) <Ref. to AB-16, Side Airbag Sensor.>

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

U: TROUBLE CODE 61

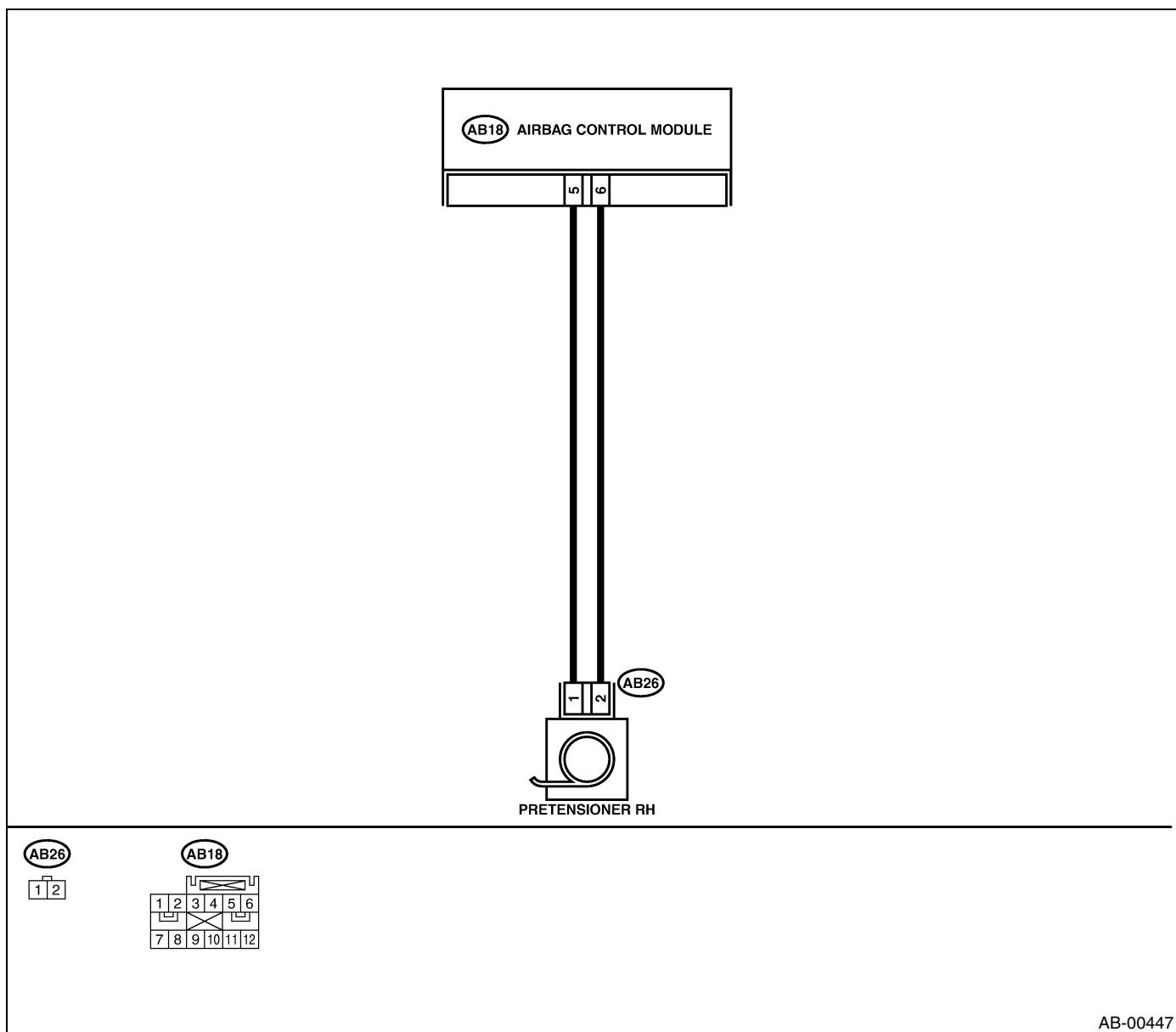
DIAGNOSIS:

- 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 OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
- Before 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 side airbag harness, disconnect the side airbag module connector and seat belt pretensioner connector for the safety reasons.

WIRING DIAGRAM:



AB-00447

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK SEAT BELT PRETENSIONER. 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Disconnect the connector (AB26) from the seat belt pretensioner (RH). <Ref. to SB-8, Front Seat Belt.> 3)Connect the connector (1L) in the test harness L to (AB26). 4)Connect the airbag resistor to the connector (3L) in the test harness L. 5)Connect the battery ground terminal and turn the ignition switch ON. Does the airbag warning light illuminate for 6 seconds and then turn off?	The airbag warning light illuminates for 6 seconds and then turns off.	Replace the seat belt pretensioner (RH). <Ref. to SB-8, Front Seat Belt.>	Go to step 2.
2 CHECK SIDE AIRBAG HARNESS (RH). 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Disconnect the airbag resistor from the test harness L. 3)Disconnect the connector (AB25) from (AB24). 4)Disconnect the connectors (AB17) and (AB18) from the airbag control module. <Ref. to AB-15, Airbag Control Module.> 5)Connect the connector (1I) in the test harness I or I2 to the connector (AB18). 6)Measure the resistance between connector (3I) in the test harness I or I2 and connector (3L) in the test harness L. Connector & terminal (3I) No. 8 — (3L) No. 6: (3I) No. 6 — (3L) No. 5: Is the measured value less than the specified value?	10 Ω	Go to step 3.	Replace the body harness with side airbag harness.
3 CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance of the connector (3I) in the test harness I or I2. Connector & terminal (3I) No. 6 — No. 8: Is the measured value more than the specified value?	1 MΩ	Go to step 4.	Replace the body harness with side airbag harness.
4 CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance between connector (3I) in the test harness I or I2 and the chassis ground. Connector & terminal (3I) No. 6 — Chassis ground: (3I) No. 8 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>	Replace the body harness with side airbag harness.

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

V: TROUBLE CODE 62

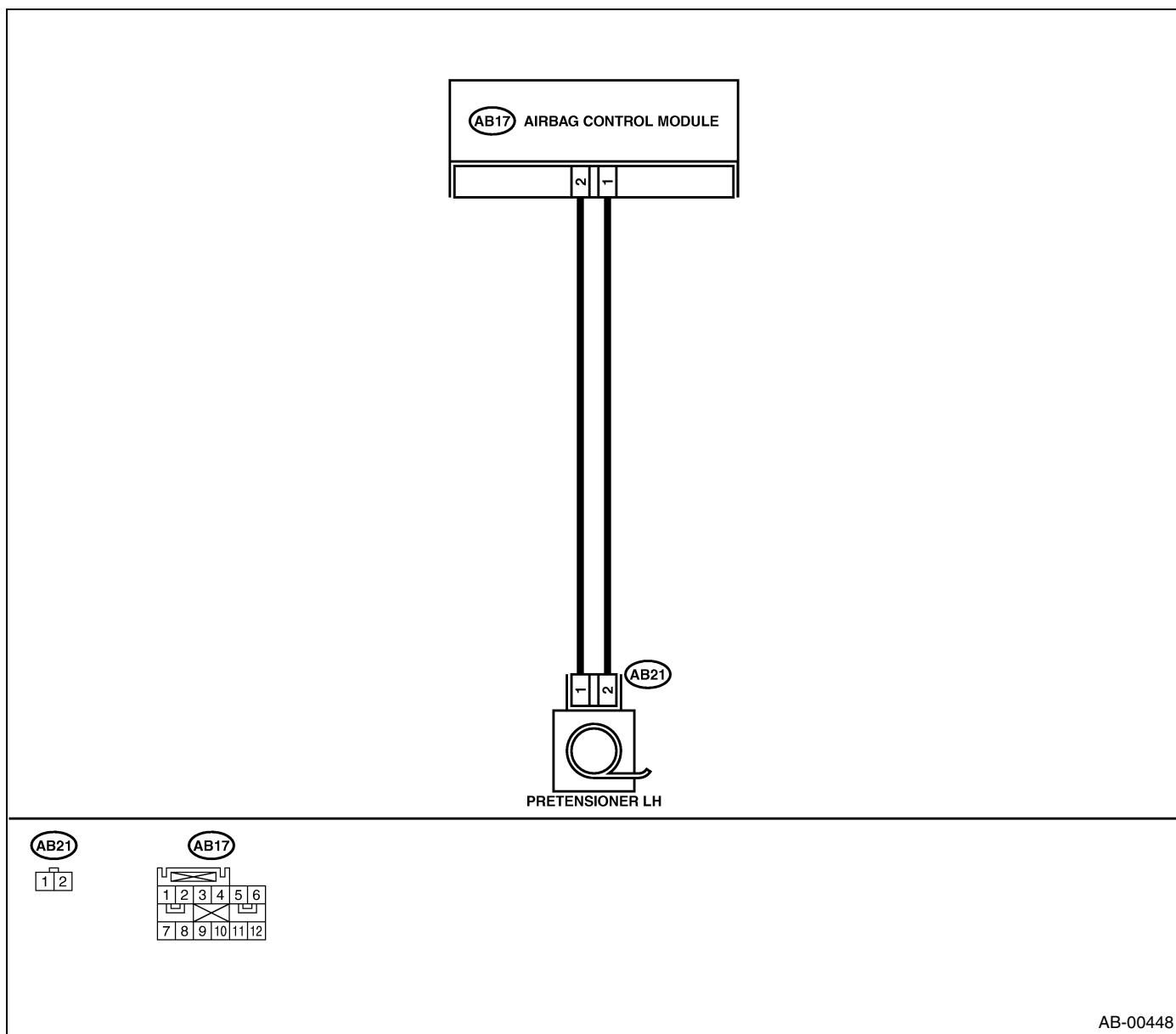
DIAGNOSIS:

- 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 OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
- Before 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 side airbag harness, disconnect the side airbag module connector and seat belt pretensioner connector for the safety reasons.

WIRING DIAGRAM:



AB-00448

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK SEAT BELT PRETENSIONER. 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Disconnect the connector (AB21) from the seat belt pretensioner (LH). <Ref. to SB-8, Front Seat Belt.> 3)Connect the connector (1L) in the test harness L to (AB21). 4)Connect the airbag resistor to the connector (3L) in the test harness L. 5)Connect the battery ground terminal and turn the ignition switch ON. Does the airbag warning light illuminate for 6 seconds and then turn off?	The airbag warning light illuminates for 6 seconds and then turns off.	Replace the seat belt pretensioner (LH). <Ref. to SB-8, Front Seat Belt.>	Go to step 2.
2 CHECK SIDE AIRBAG HARNESS (LH). 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Disconnect the airbag resistor from the test harness L. 3)Disconnect the connector (AB20) from (AB19). 4)Disconnect the connectors (AB17) and (AB18) from the airbag control module. <Ref. to AB-15, Airbag Control Module.> 5)Connect the connector (1I) in the test harness I or I2 to the connector (AB17). 6)Measure the resistance between connector (3I) in the test harness I or I2 and the connector (3L) in the test harness L. Connector & terminal (3I) No. 11 — (3L) No. 6: (3I) No. 13 — (3L) No. 5: Is the measured value less than the specified value?	10 Ω	Go to step 3.	Replace the body harness with side airbag harness.
3 CHECK SIDE AIRBAG HARNESS (LH). Measure the resistance of the connector (3I) in the test harness I or I2. Connector & terminal (3I) No. 11 — No. 13: Is the measured value more than the specified value?	1 MΩ	Go to step 4.	Replace the body harness with side airbag harness.
4 CHECK SIDE AIRBAG HARNESS (LH). Measure the resistance between the connector (3I) in the test harness I or I2 and the chassis ground. Connector & terminal (3I) No. 11 — Chassis ground: (3I) No. 13 — Chassis ground: Is the measured value more than the specified value?	1 MΩ	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>	Replace the body harness with side airbag harness.

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

W: TROUBLE CODE 65

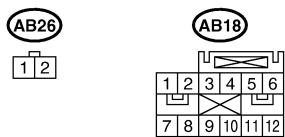
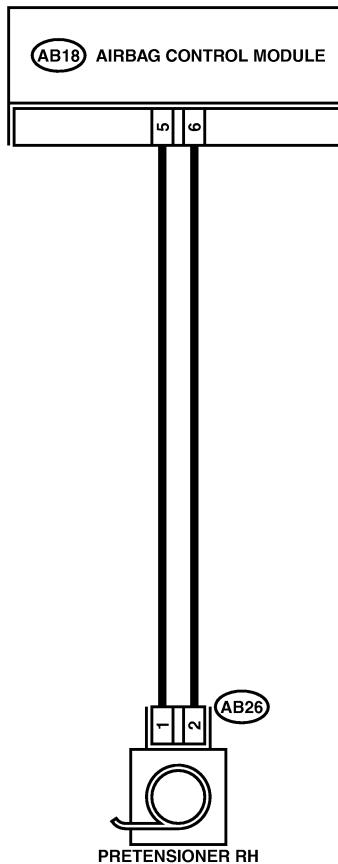
DIAGNOSIS:

- Seat belt pretensioner (RH) circuit is shorted to the 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 OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
- Before 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 side airbag harness, disconnect the side airbag module connector and seat belt pretensioner connector for the safety reasons.

WIRING DIAGRAM:



AB-00447

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK SEAT BELT PRETENSIONER. 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Disconnect the connector (AB26) from the seat belt pretensioner (RH). <Ref. to SB-8, Front Seat Belt.> 3)Connect the connector (1L) in the test harness L to (AB26). 4)Connect the airbag resistor to the connector (3L) in the test harness L. 5)Connect the battery ground terminal, and turn the ignition switch ON. Does the airbag warning light illuminate for 6 seconds and then turn off?	The airbag warning light illuminates for 6 seconds and then turns off.	Replace the seat belt pretensioner (RH). <Ref. to SB-8, Front Seat Belt.>	Go to step 2.
2 CHECK SIDE AIRBAG HARNESS (RH). 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Disconnect the airbag resistor from the test harness L. 3)Disconnect the connector (AB25) from (AB24). 4)Disconnect the connectors (AB17) and (AB18) from the airbag control module. <Ref. to AB-15, Airbag Control Module.> 5)Connect the connector (1I) in the test harness I or I2 to the connector (AB18). 6)Connect the battery ground cable and turn the ignition switch ON. 7)Measure the voltage between connector (3I) in the test harness I or I2 and the chassis ground. Connector & terminal (3I) No. 6 (+) — Chassis ground (-): (3I) No. 8 (+) — Chassis ground (-): Is the measured value less than the specified value?	1 V	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>	Replace the body harness with side airbag harness.

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

X: TROUBLE CODE 66

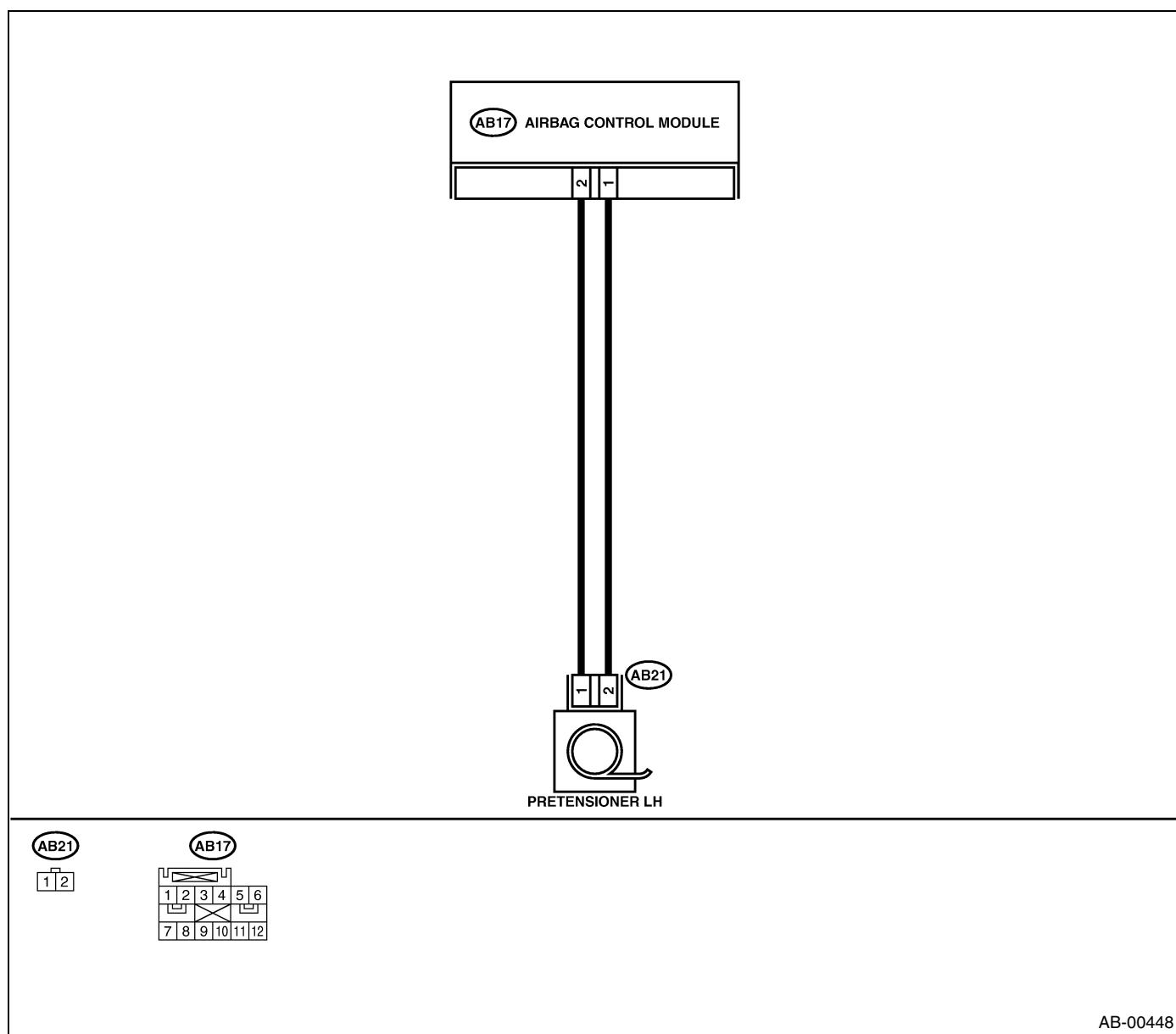
DIAGNOSIS:

- Seat belt pretensioner (LH) circuit is shorted to the 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 OFF, disconnect the ground terminal from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module and the sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the side airbag harness, disconnect the side airbag module connector and seat belt pretensioner connector for the safety reasons.

WIRING DIAGRAM:



AB-00448

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK SEAT BELT PRETENSIONER. 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Disconnect the connector (AB21) from the seat belt pretensioner (LH). <Ref. to SB-8, Front Seat Belt.> 3)Connect the connector (1L) in the test harness L to (AB21). 4)Connect the airbag resistor to the connector (3L) in the test harness L. 5)Connect the battery ground terminal and turn the ignition switch ON. Does the airbag warning light illuminate for 6 seconds and then turn off?	The airbag warning light illuminates for 6 seconds and then turns off.	Replace the seat belt pre-tensioner (LH). <Ref. to SB-8, Front Seat Belt.>	Go to step 2.
2 CHECK SIDE AIRBAG HARNESS (LH). 1)Turn the ignition switch OFF, disconnect the battery ground terminal, and wait more than 20 seconds. 2)Disconnect the airbag resistor from the test harness L. 3)Disconnect the connector (AB20) from (AB19). 4)Disconnect the connectors (AB17) and (AB18) from the airbag control module. <Ref. to AB-15, Airbag Control Module.> 5)Connect the connector (1I) in the test harness I or I2 to the connector (AB17). 6)Connect the battery ground terminal and turn the ignition switch ON. 7)Measure the voltage between connector (3I) in the test harness I or I2 and the chassis ground. <i>Connector & terminal</i> <i>(3I) No. 11 (+) — Chassis ground (-):</i> <i>(3I) No. 13 (+) — Chassis ground (-):</i> Is the measured value less than the specified value?	1 V	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module.>	Replace the body harness with side airbag harness.

DIAGNOSTIC CHART WITH TROUBLE CODE

AIRBAG SYSTEM (DIAGNOSTICS)
