

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

12. Diagnostic Chart with Diagnostic Trouble Code (DTC)

A: DTC 11

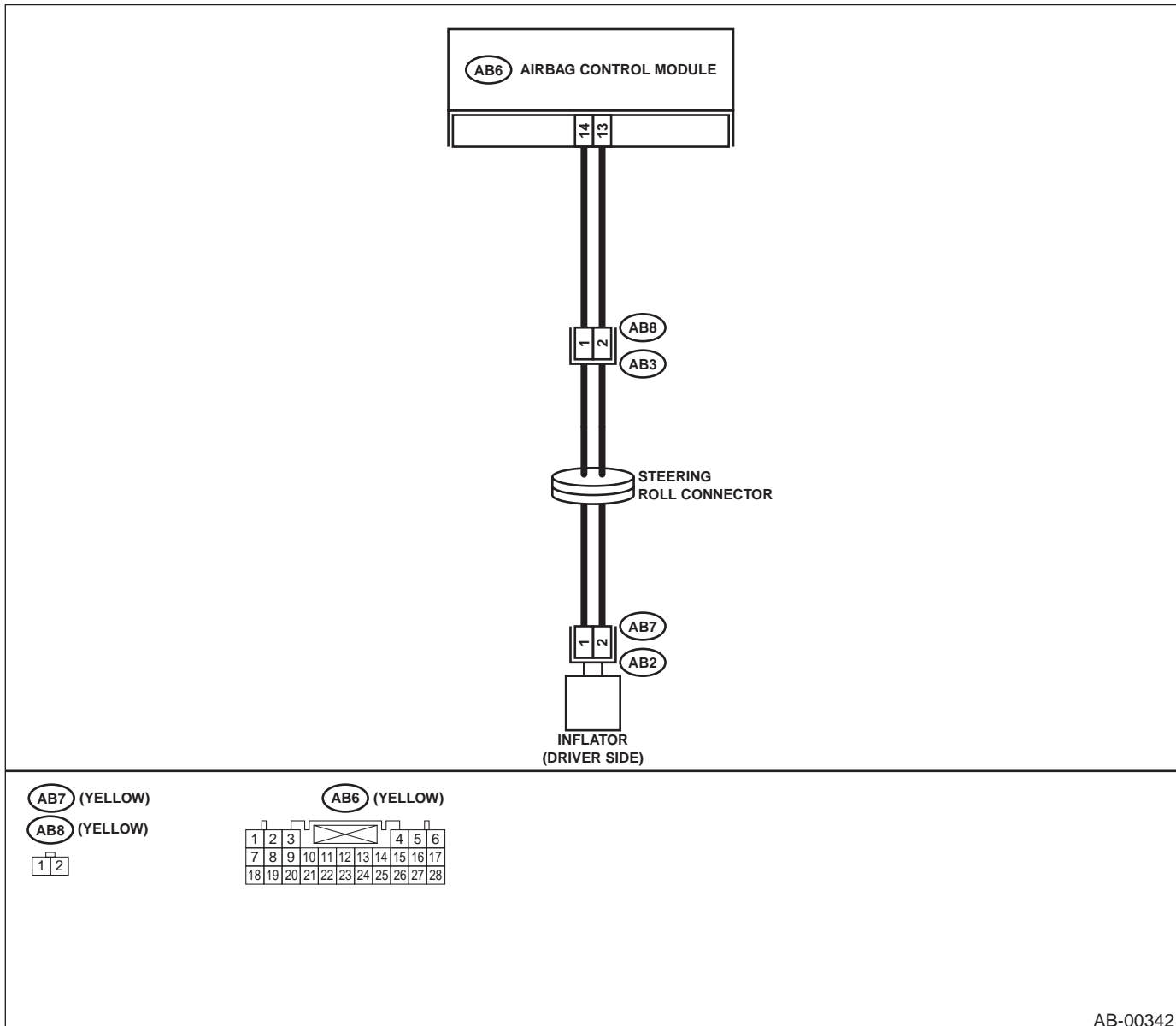
DIAGNOSIS:

- 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 cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, roll controller, 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 DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
1 CHECK DRIVER'S AIRBAG MODULE. 1) Turn the ignition switch OFF, disconnect battery ground cable, and wait more than 20 seconds. 2) Remove the driver's airbag module. <Ref. to AB-13, Driver's Airbag Module.> 3) Connect the connector (1F) in test harness F to connector (AB7). 4) Connect airbag resistor to connector (3F) in test harness F. 5) Connect the battery ground cable and turn the ignition switch ON. Does the airbag warning light operate properly?	Operates properly.	Replace the driver's airbag module. <Ref. to AB-13, Driver's Airbag Module.>	Go to step 2.
2 CHECK ROLL CONNECTOR. 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 second. 2) Disconnect the test harness from the connector (AB7). 3) Remove the lower cover panel, disconnect the connector (AB3) from (AB8) and connect the connector (1F) in test harness F to connector (AB8). 4) Connect the airbag resistor to connector (3F) in test harness F. 5) Connect the battery ground cable and turn the ignition switch ON. Does the airbag warning light operate properly?	Operates properly.	Replace the roll connector. <Ref. to AB-20, Roll Connector.>	Go to step 3.
3 CHECK AIRBAG MAIN HARNESS. 1) Turn the ignition switch OFF, disconnect the ground cable, and wait more than 20 seconds. 2) Disconnect the airbag resistor from the connector (3F) in test harness F. 3) Remove the glove box, <Ref. to AB-<Ref. to AB-14, Passenger's Airbag Module.>, REMOVAL, Passenger's Airbag Module.> and disconnect connectors (AB10) and (AB9). 4) Disconnect the connector (AB6) from the airbag control module, and connect the connector (1I) in test harness I2. <Ref. to AB-18, Airbag Control Module.> 5) Measure the resistance between connector (2I) in test harness I2 and the connector (3F) in 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 airbag main harness. <Ref. to AB-16, Main Harness.>

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Step	Value	Yes	No
4 CHECK AIRBAG MAIN HARNESS. Measure the resistance of the connector (21) in test harness I2. Connector & terminal (21) No. 1 — No. 4: (21) No. 4 — Chassis ground: (21) No. 1 — Chassis ground: Does the measured value exceed the specified value?	1 MΩ	Replace the airbag control module. <Ref. to AB-18, Airbag Control Module.>	Replace airbag main harness. <Ref. to AB-16, Main Harness.>

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MEMO:

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

B: DTC 12

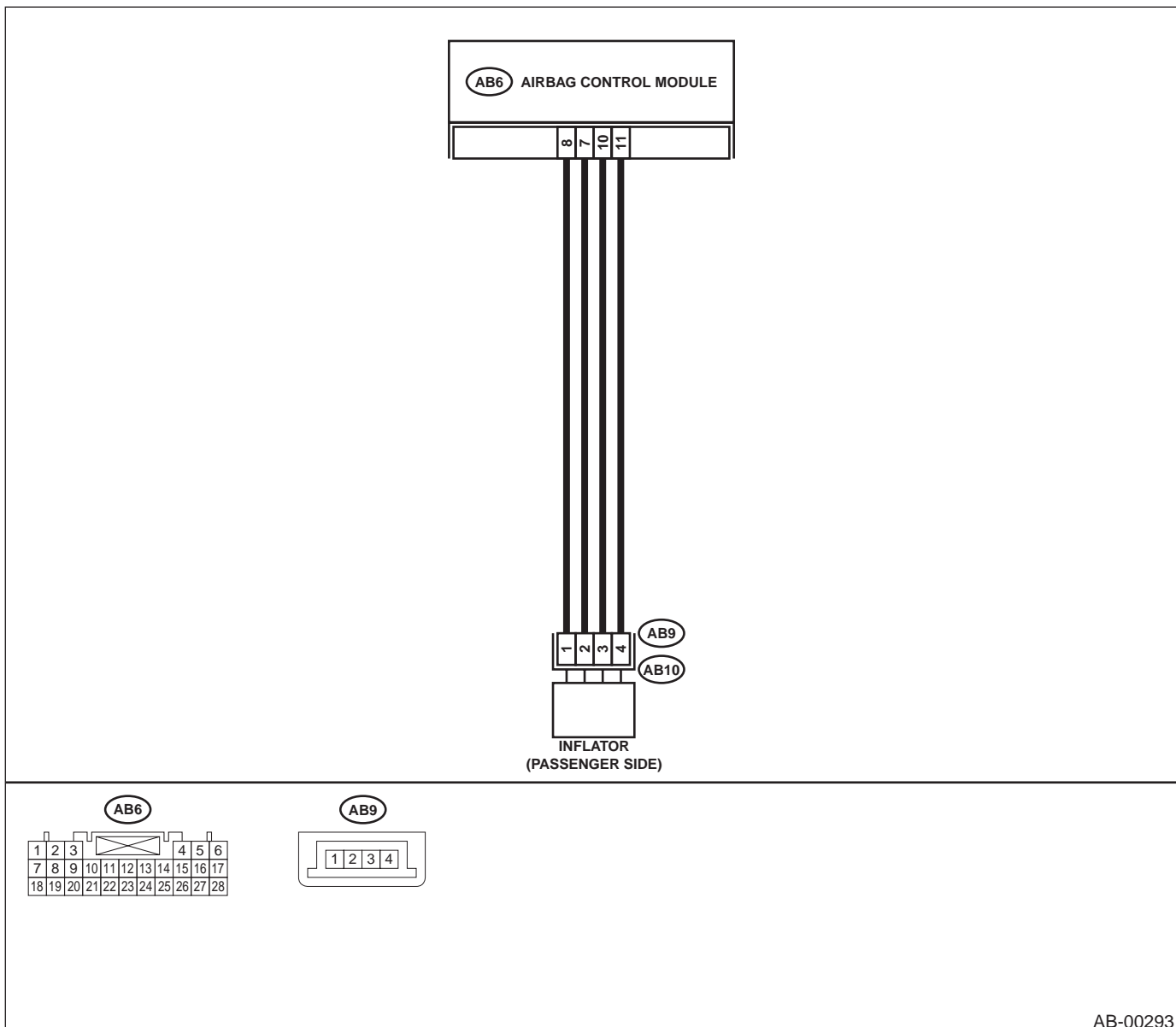
DIAGNOSIS:

- 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 cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, 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-00293

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
1 CHECK PASSENGER'S AIRBAG MODULE. 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Pull out the two stopper pins and lower the glove box. 3) Disconnect the connector (AB10) from (AB9). 4) Connect the connector (1K) in test harness K to connector (AB9). 5) Connect two airbag resistors to connectors (3K) and (4K) in test harness K. 6) Connect the battery ground cable and turn the ignition switch ON. Does the airbag warning light operate properly?	Operates properly.	Replace the passenger airbag module. <Ref. to AB-14, Passenger's Airbag Module.>	Go to step 2.
2 CHECK AIRBAG MAIN HARNESS. 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect two airbag resistors from the connectors (3K) and (4K) in test harness K. 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 test harness I2. <Ref. to AB-18, Airbag Control Module.> 5) Measure the resistance between connector (2I) in test harness I2 and the connector (3K) in test harness K. Connector & terminal (2I) No. 2 — (3K) No. 4: (2I) No. 5 — (3K) No. 3: Is the measured value less than the specified value?	10 Ω	Go to step 3.	Replace airbag main harness. <Ref. to AB-16, Main Harness.>
3 CHECK AIRBAG MAIN HARNESS. Measure the resistance of the connector (2I) in test harness I2. Connector & terminal (2I) No. 2 — No. 5: (2I) No. 2 — Chassis ground: (2I) No. 5 — Chassis ground: Does the measured value exceed the specified value?	1 MΩ	Replace airbag control module. <Ref. to AB-18, Airbag Control Module.>	Replace airbag main harness. <Ref. to AB-16, Main Harness.>

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

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C: DTC 15

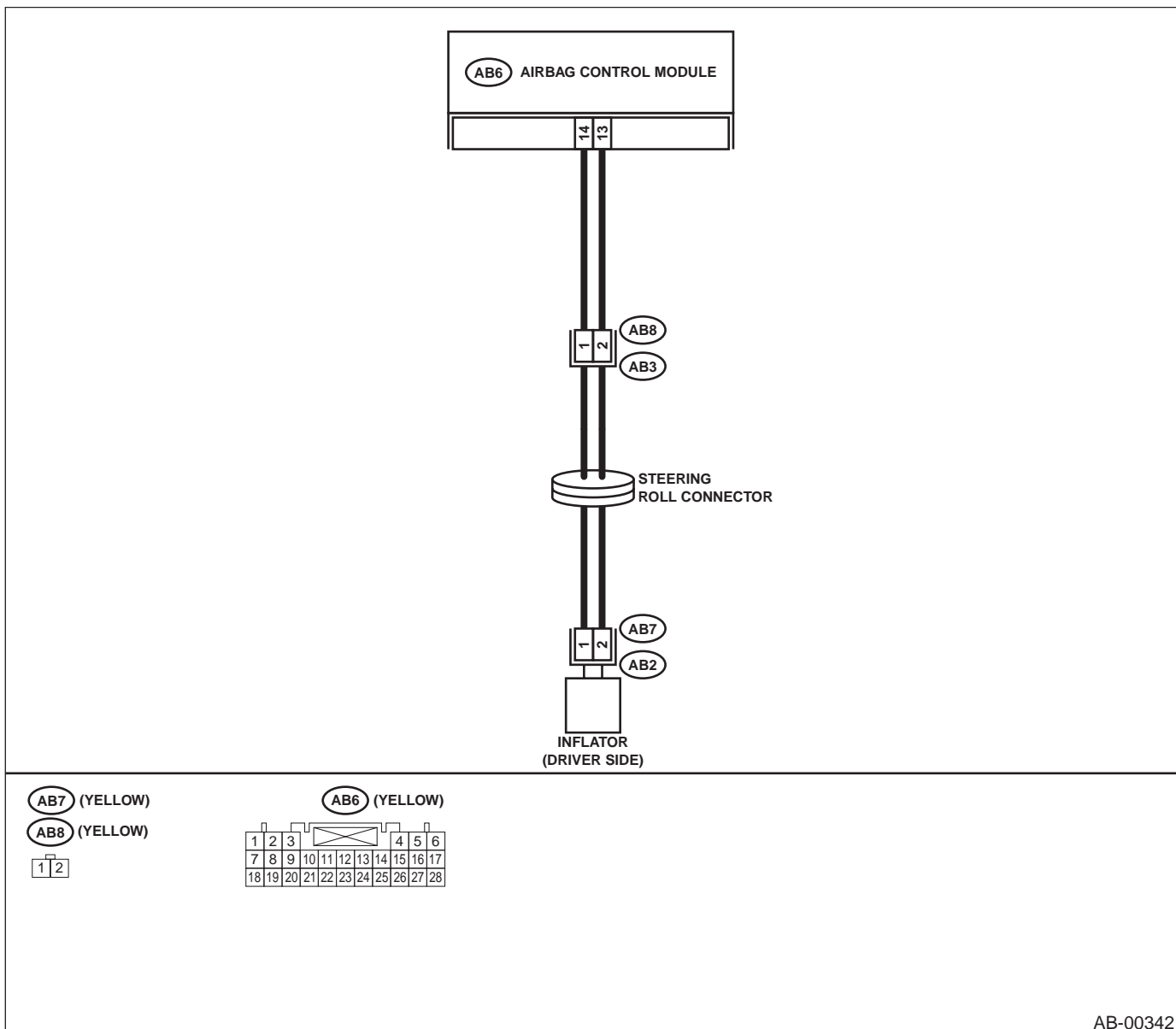
DIAGNOSIS:

- 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 cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, 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 DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
1 CHECK DRIVER'S AIRBAG MODULE. 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Remove the driver's airbag module. <Ref. to AB-13, Driver's Airbag Module.> 3) Connect the connector (AB7) to connector (1F) in test harness F. 4) Connect the airbag resistor to connector (3F) in test harness F. 5) Connect the battery ground cable and turn the ignition switch ON. Does the airbag warning light operate properly?	Operates properly.	Replace the driver's airbag module. <Ref. to AB-13, Driver's Airbag Module.>	Go to step 2.
2 CHECK ROLL CONNECTOR. 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the test harness from the connector (AB7). 3) Remove the lower cover panel and disconnect the connector (AB3) from (AB8). 4) Connect the connector (1F) in test harness F to connector (AB8). 5) Connect the airbag resistor to connector (3F) in test harness F. 6) Connect the battery ground cable and turn the ignition switch ON. Does the airbag warning light operate properly?	Operates properly.	Replace the roll connector. <Ref. to AB-20, Roll Connector.>	Go to step 3.
3 CHECK AIRBAG MAIN HARNESS. 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the airbag resistor from the connector (3F) in test harness F. 3) Pull out the two stopper pins and lower the glove box, and disconnect connectors (AB10) and (AB9). 4) Disconnect the connector (AB6) from the airbag control module, and connect the connector (1I) in test harness I2. <Ref. to AB-18, Airbag Control Module.> 5) Connect the battery ground cable and turn the ignition switch ON. (Engine OFF) 6) Measure the voltage between connector (2I) in test harness 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-18, Airbag Control Module.>	Replace airbag main harness. <Ref. to AB-16, Main Harness.>

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AIRBAG SYSTEM (DIAGNOSTICS)

D: DTC 16

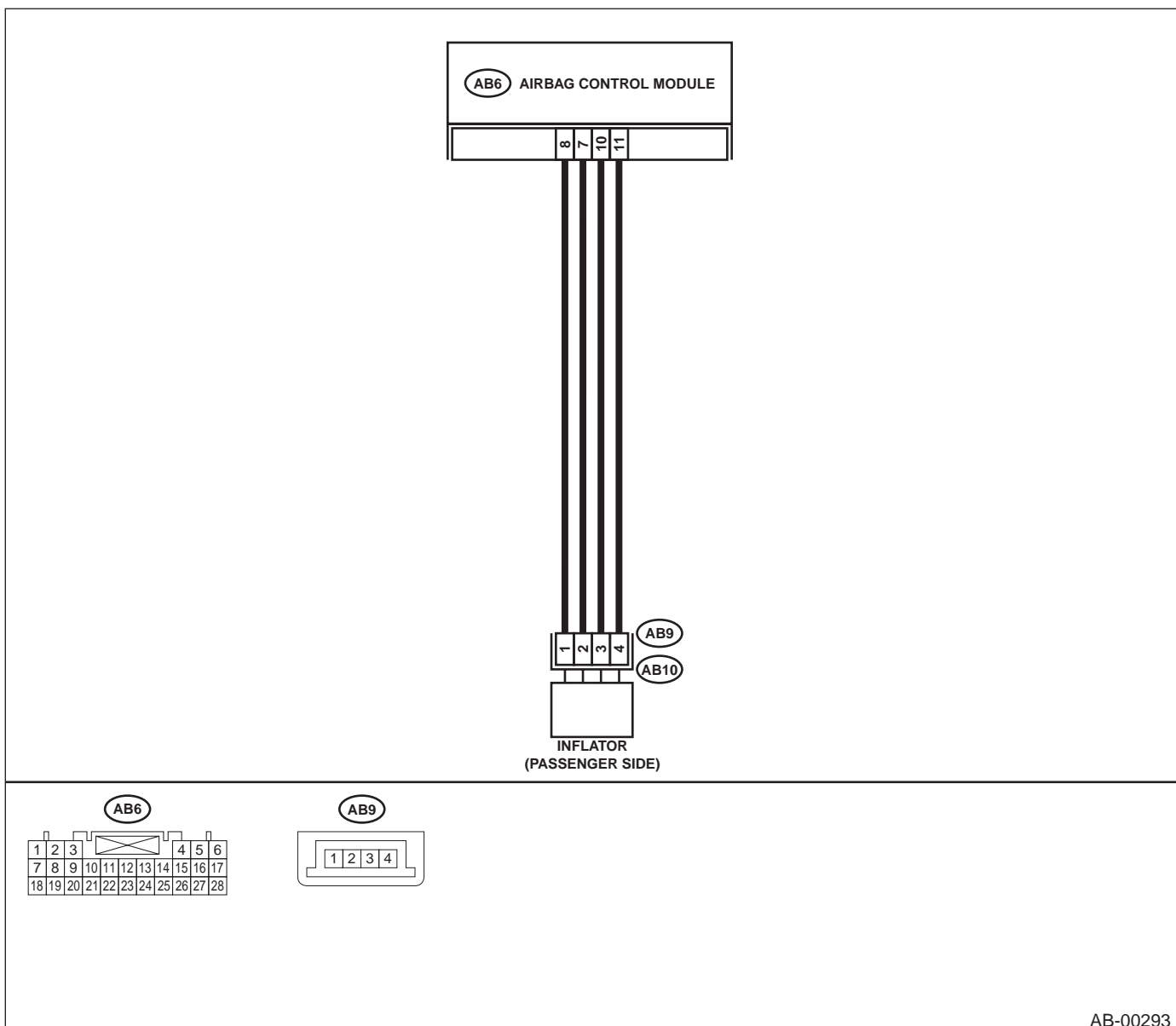
DIAGNOSIS:

- 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 cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, 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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Step	Value	Yes	No
1 CHECK PASSENGER'S AIRBAG MODULE. 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Pull out the two stopper pins and lower the glove box. 3) Disconnect the connector (AB10) from (AB9) 4) Connect the connector (1K) in test harness K to connector (AB9). 5) Connect two airbag resistors to connectors (3K) and (4K) in test harness K. 6) Connect the battery ground cable and turn the ignition switch ON. Does the airbag warning light operate properly?	Operates properly.	Replace the passenger airbag module. <Ref. to AB-14, Passenger's Airbag Module.>	Go to step 2.
2 CHECK AIRBAG MAIN HARNESS. 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect two airbag resistors from the connectors (3K) and (4K) in test harness K. 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 test harness I2. <Ref. to AB-18, Airbag Control Module.> 5) Measure the voltage between connector (2I) in test harness I2 and the chassis ground. Connector & terminal (2I) No. 2 — Chassis ground: (2I) No. 5 — Chassis ground: Is the measured value less than the specified value?	1 V	Replace the airbag control module. <Ref. to AB-18, Airbag Control Module.>	Replace airbag main harness. <Ref. to AB-16, Main Harness.>

E: DTC 21

DIAGNOSIS:

- Airbag control module is faulty.

CAUTION:

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

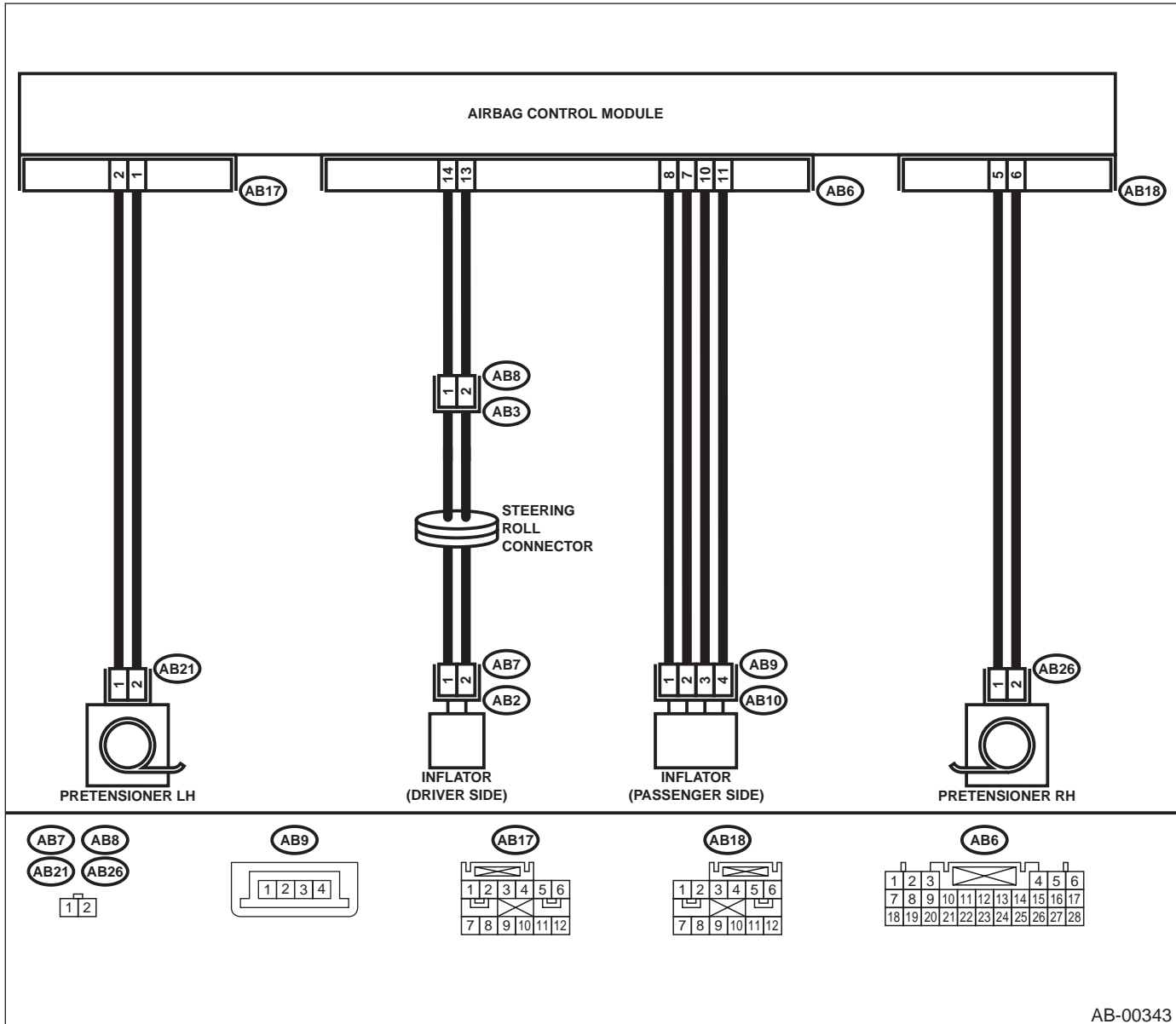
Step	Value	Yes	No
1 CHECK IF DTC 21 IS INDICATED. Read Diagnostic Trouble Code. <Ref. to AB-20, Read Diagnostic Trouble Code (DTC).> Is airbag warning light trouble code 21 indicated?	DTC 21 is not indicated.	Perform clear memory. <Ref. to AB-22, Clear Memory Mode.>	Replace the airbag control module. <Ref. to AB-18, Airbag Control Module.>

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F: DTC 22

WIRING DIAGRAM:



- This code is indicated when the front airbag and the pretensioner are in operation. Once this code is indicated, memory is not erasable; therefore change the following parts.
- Airbag control module. <Ref. to AB-18, Airbag Control Module.>
 - Driver's airbag module. <Ref. to AB-13, Driver's Airbag Module.>
 - Passenger's airbag module. <Ref. to AB-14, Passenger's Airbag Module.>
 - Front sub-sensor of both sides. <Ref. to AB-21, Front Sub Sensor.>
 - Front seat belt outer with pretensioner of both sides. <Ref. to SB-7, Front Seat Belt.>

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G: DTC 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 cable from the battery, and wait more than 20 seconds before starting to work.

Step	Value	Yes	No
1 CHECK POOR CONTACT IN CONNECTORS (AB6), (AB17) and (AB18). 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connectors (AB6), (AB17) and (AB18) from the airbag control module. <Ref. to AB-18, Airbag Control Module.> Check if rust or damage appear on the harness connector and the control module connector.	Rust or damage on the harness connector and the control module are not found.	Go to step 2.	Replace the airbag control module. <Ref. to AB-18, Airbag Control Module.> Replace airbag main harness. <Ref. to AB-16, Main Harness.> Replace side airbag harness. <Ref. to AB-17, Side Airbag Harness.>
2 CHECK POOR CONTACT IN CONNECTORS (AB6), (AB17) and (AB18). 1) Ensure that connectors are firmly reconnected. 2) Connect the battery ground cable and turn the ignition switch ON. Does the air bag warning light operate properly?	Operates properly.	Finish the diagnosis.	Replace the airbag control module. <Ref. to AB-18, Airbag Control Module.>

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H: DTC 24

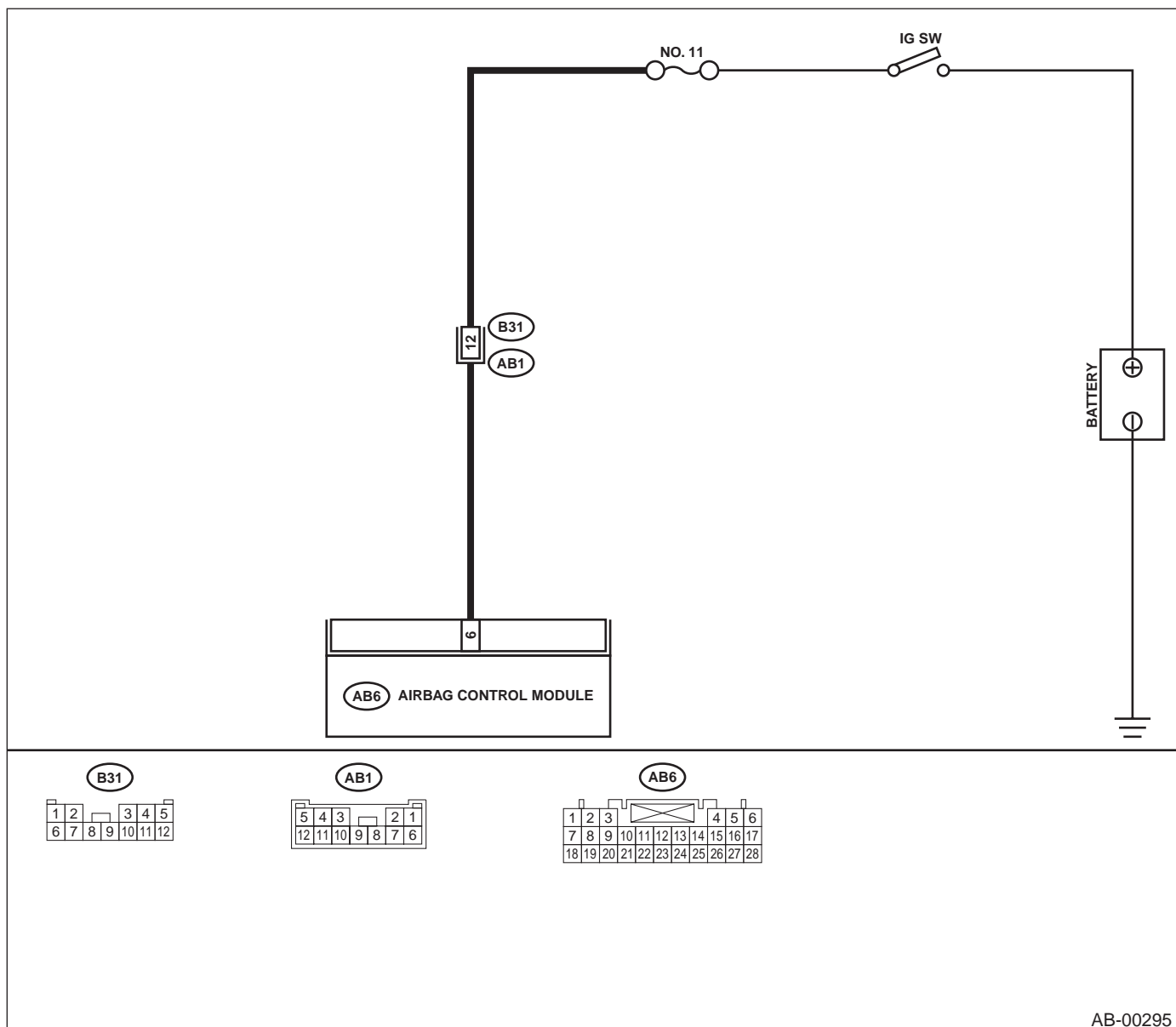
DIAGNOSIS:

- 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 cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, 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 DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
1 CHECK FUSE No. 11 (IN JOINT BOX). 1) Confirm that the ignition switch is turned OFF. 2) Remove fuse No. 11 (in joint box) and perform visual inspection. Is fuse No.11 blown?	Fuse No. 11 is not blown.	Go to step 2.	Replace fuse No. 11. If fuse No. 11 blows again, repair the body harness.
2 CHECK AIRBAG CONTROL MODULE. 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB6) from the airbag control module. <Ref. to AB-18, Airbag Control Module.> 3) Connect the connector (1I) in test harness I2 to connector (AB6). 4) Connect the battery ground cable and turn the ignition switch ON. 5) Measure the voltage between connector (2I) in test harness I2 and chassis ground. Connector & terminal (2I) No. 3 (+) — Chassis ground (-): Does the measured value exceed the specified value?	10 V	Replace the airbag control module. <Ref. to AB-18, Airbag Control Module.>	Go to step 3.
3 CHECK BODY MAIN HARNESS. 1) While checking control module, turn the ignition switch OFF and disconnect the battery ground cable. Wait more than 20 seconds before operation. 2) Disconnect the airbag connector (AB1) from the body harness (B31). 3) Measure the voltage between the connector (B31) and the chassis ground. Connector & terminal (B31) No. 12 (+) — Chassis ground (-): Does the measured value exceed the specified value?	10 V	Replace airbag main harness. <Ref. to AB-16, Main Harness.>	Repair the body harness.

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AIRBAG SYSTEM (DIAGNOSTICS)

I: DTC 25

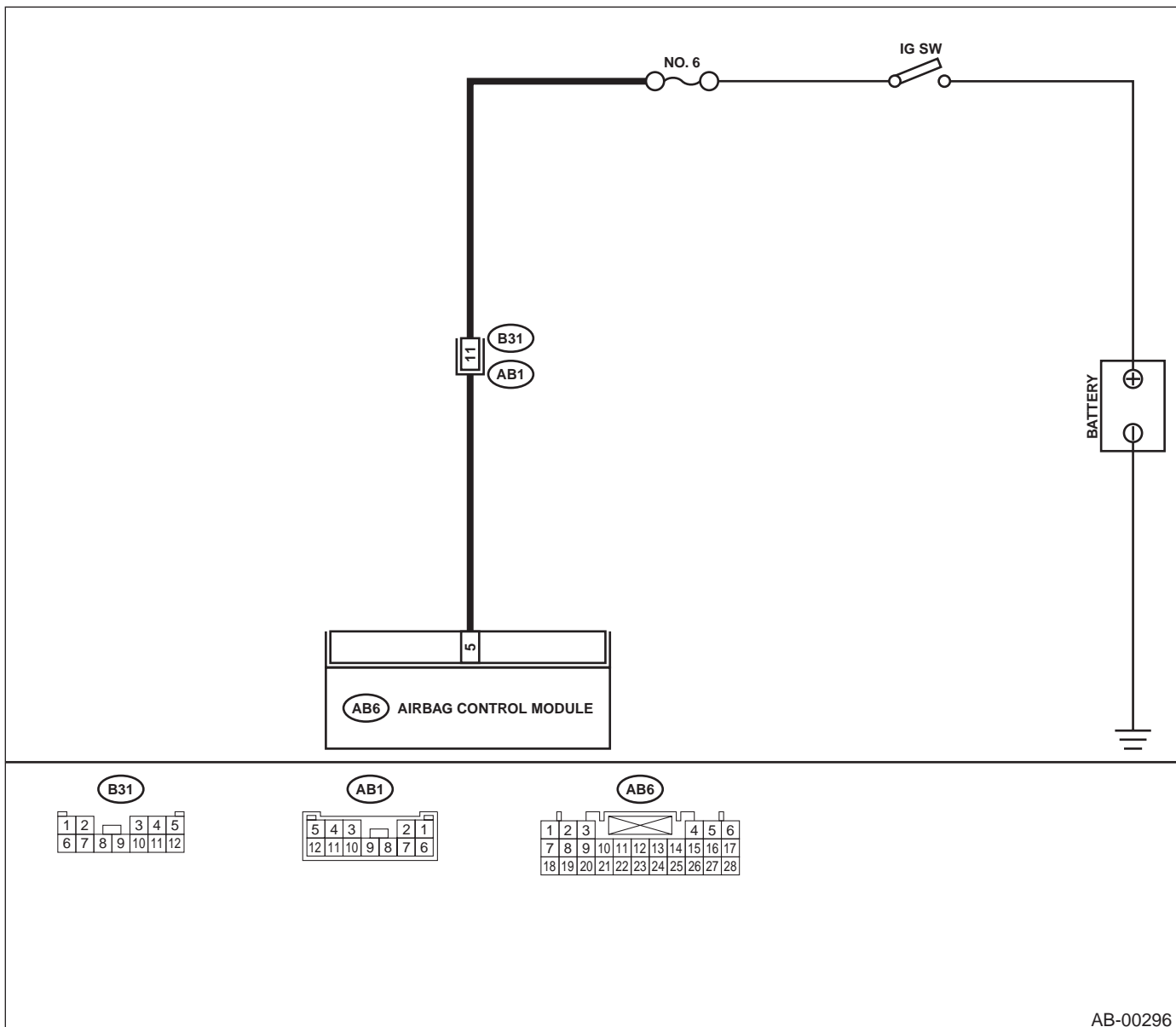
DIAGNOSIS:

- 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 cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, 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 DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
1 CHECK FUSE NO. 6 (IN JOINT BOX). 1) Confirm that the ignition switch is turned OFF. 2) Remove No. 6 fuse (in joint box) and perform visual inspection. Is fuse No. 6 blown?	Fuse No. 6 is not blown.	Go to step 2.	Replace fuse No. 6. If fuse No. 6 is blown again, repair the body harness.
2 CHECK AIRBAG CONTROL MODULE. 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB6) from airbag control module. <Ref. to AB-18, Airbag Control Module.> 3) Connect the connector (11) in test harness I2 to connector (AB6). 4) Connect the battery ground cable, and turn the ignition switch ON. 5) Measure the voltage between the connector (21) in test harness I2 and the chassis ground. Connector & terminal (21) No. 6 (+) — Chassis ground (-): Does the measured value exceed the specified value?	10 V	Replace the airbag control module. <Ref. to AB-18, Airbag Control Module.>	Go to step 3.
3 CHECK AIRBAG MAIN HARNESS. 1) While checking control module, turn the ignition switch OFF and disconnect the battery ground cable. Wait more than 20 seconds before operation. 2) Disconnect the airbag connector (AB1) from the body harness (B31). 3) Measure the voltage between the connector (B31) and the chassis ground. Connector & terminal (B31) No. 11 (+) — Chassis ground (-): Does the measured value exceed the specified value?	10 V	Replace the airbag main harness. <Ref. to AB-16, Main Harness.>	Repair the body harness.

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

J: DTC 31

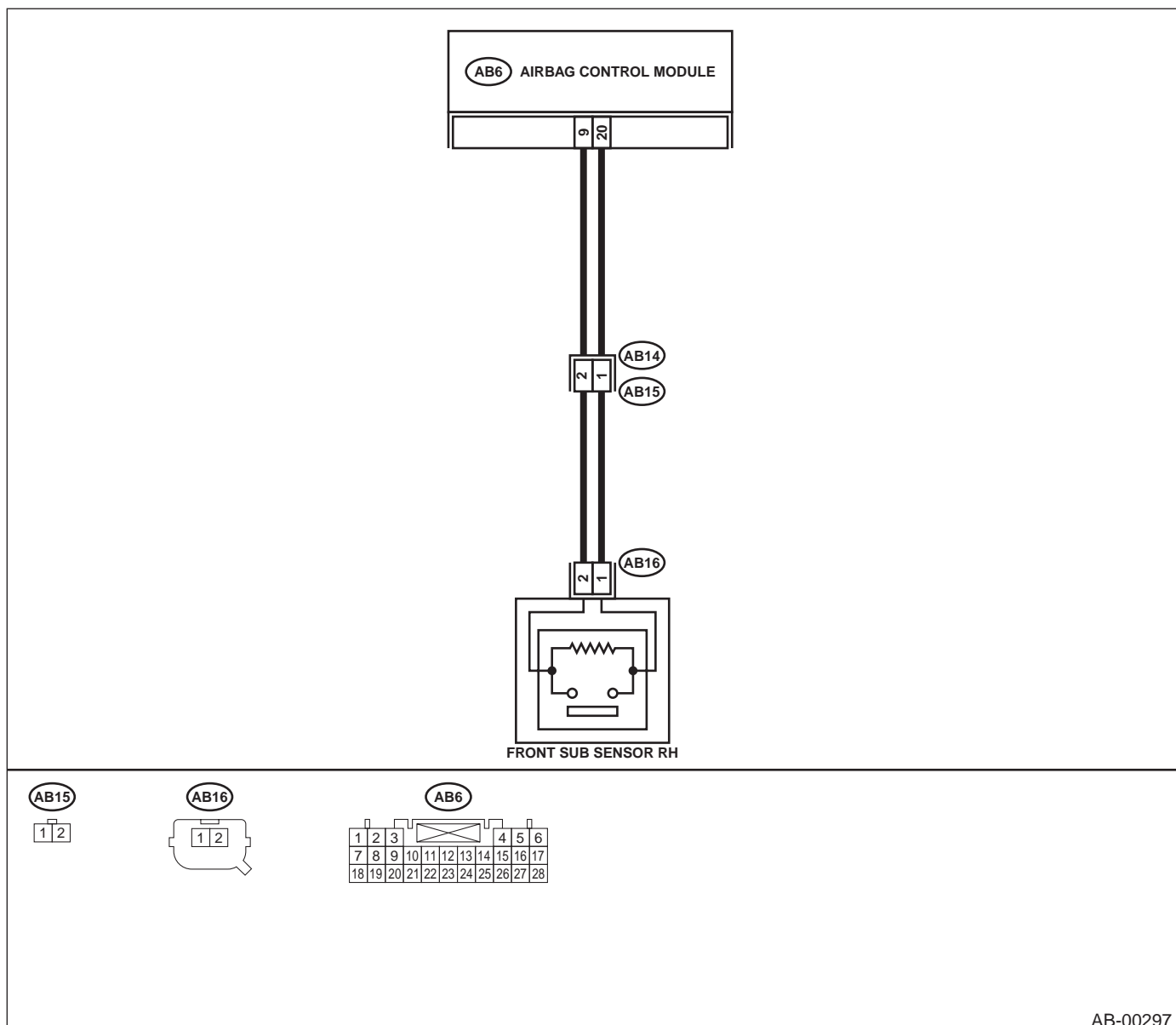
DIAGNOSIS:

- 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 cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, 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 DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
1 CHECK FRONT SUB-SENSOR (RH) AND FRONT SUB-SENSOR HARNESS (RH). 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB6) from the airbag control module, and connect the connector (1I) in test harness I2. <Ref. to AB-18, Airbag Control Module.> 3) Measure the resistance of the connector (3I) in test harness I2. Connector & terminal (3I) No. 2 — No. 4: Is the measured value within the specified range?	750 Ω — 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 test harness I2 and the chassis ground. Connector & terminal (3I) No. 2 — Chassis ground: (3I) No. 4 — Chassis ground: Does the measured value exceed the specified value?	1 MΩ	Replace the airbag control module. <Ref. to AB-18, Airbag Control Module.>	Go to step 3.
3 CHECK AIRBAG MAIN HARNESS AND FRONT SUB-SENSOR HARNESS (RH). 1) Disconnect connector (AB16) from the front sub-sensor. <Ref. to AB-21, Front Sub Sensor.> 2) Connect connector (IH) in test harness H to connector (AB16). 3) Measure the resistance between connector (3I) in test harness I2 and connector (3H) in 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 test harness I2 and the chassis ground. Connector & terminal (3I) No. 2 — Chassis ground: (3I) No. 4 — Chassis ground: Does the measured value exceed the specified value?	1 MΩ	Go to step 9.	Go to step 5.

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Step	Value	Yes	No
5 CHECK AIRBAG MAIN HARNESS 1) Remove the instrument panel. <Ref. to EI-37, Instrument Panel Assembly.> 2) Disconnect connector (AB15) from (AB14), and connect connector (2F) in test harness F to connector (AB14). 3) Measure the resistance between connector (3I) in test harness I2 and connector (3F) in test harness F. Connector & terminal (3I) No. 2 — (3F) No. 6: (3I) No. 4 — (3F) No. 5: Is the measured value less than the specified value?	10 Ω	Go to step 6.	Replace airbag main harness. <Ref. to AB-16, Main Harness.>
6 CHECK AIRBAG MAIN HARNESS Measure the resistance between connector (3I) in test harness I2 and the chassis ground. Connector & terminal (3I) No. 2 — Chassis ground: (3I) No. 4 — Chassis ground: Does the measured value exceed the specified value?	1 MΩ	Go to step 7.	Replace airbag main harness. <Ref. to AB-16, Main Harness.>
7 CHECK FRONT SUB-SENSOR HARNESS (RH). 1) Connect connector (1F) in test harness F to the connector (AB15). 2) Measure the resistance between connector (3H) in test harness H and connector (3F) in the test harness F. Connector & terminal (3F) No. 3 — (3H) No. 5: (3F) No. 4 — (3H) No. 6: Is the measured value less than the specified value?	10 Ω	Go to step 8.	Replace the front sub-sensor harness (RH) <Ref. to AB-22, Front Sub Sensor Harness.>
8 CHECK FRONT SUB-SENSOR HARNESS (RH). Measure the resistance between connector (3F) in test harness F and the chassis ground. Connector & terminal (3F) No. 3 — Chassis ground: (3F) No. 4 — Chassis ground: Does the measured value exceed the specified value?	1 MΩ	Go to step 9.	Replace the front sub-sensor harness (RH) <Ref. to AB-22, Front Sub Sensor Harness.>
9 CHECK FRONT SUB-SENSOR (RH). 1) Connect connector (2H) in test harness H to front sub-sensor (RH). 2) Measure the resistance of the connector (3H) in test harness H. Connector & terminal (3H) No. 3 — No. 4: Is the measured value within the specified range?	750 Ω — 1 KΩ	Go to step 10.	Replace the front sub-sensor (RH) <Ref. to AB-21, Front Sub Sensor.>

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Step	Value	Yes	No
10 CHECK FRONT SUB-SENSOR (RH). Measure the resistance between connector (3H) in 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> Does the measured value exceed the specified value?	1 MΩ	Finish the diagnosis.	Replace the front sub-sensor (RH) <Ref. to AB-21, Front Sub Sensor.>

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AIRBAG SYSTEM (DIAGNOSTICS)

K: DTC 32

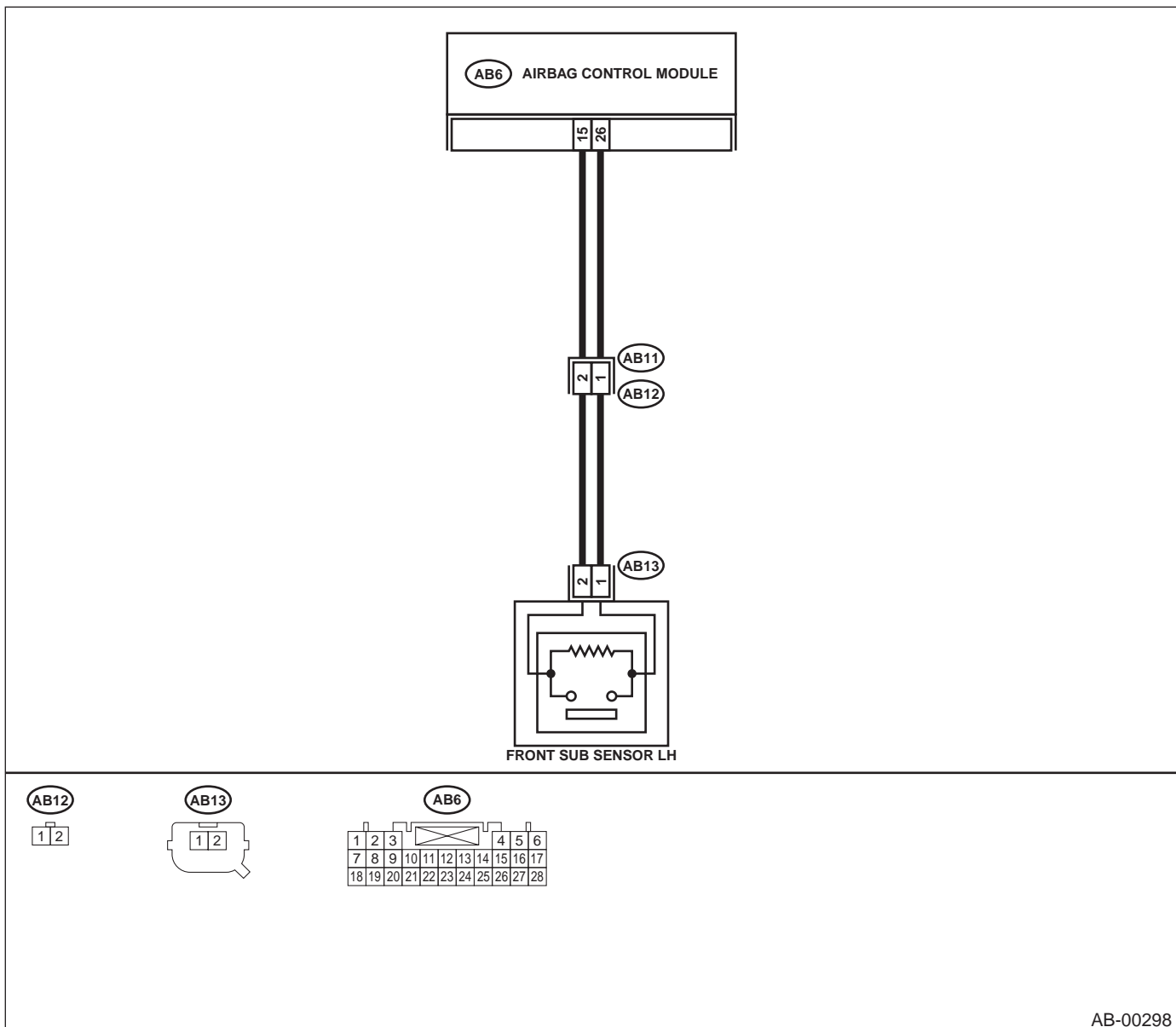
DIAGNOSIS:

- 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 cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, 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 DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
<p>1</p> <p>CHECK FRONT SUB-SENSOR (LH) AND FRONT SUB-SENSOR HARNESS (RH).</p> <p>1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds.</p> <p>2) Disconnect connector (AB6) from the airbag control module, and connect connector (1I) in the test harness I2 to connector (AB6). <Ref. to AB-18, Airbag Control Module.></p> <p>3) Measure the resistance of the connector (3I) in the test harness I2.</p> <p>Connector & terminal (3I) No. 1 — No. 3:</p> <p>Is the measured value within the specified range?</p>	750 Ω — 1 KΩ	Go to step 2.	Go to step 3.
<p>2</p> <p>CHECK FRONT SUB-SENSOR (LH) AND FRONT SUB-SENSOR HARNESS (RH).</p> <p>Measure the resistance between connector (3I) in test harness I2 and the chassis ground.</p> <p>Connector & terminal (3I) No. 1 — Chassis ground: (3I) No. 3 — Chassis ground:</p> <p>Does the measured value exceed the specified value?</p>	1 MΩ	Replace the airbag control module. <Ref. to AB-18, Airbag Control Module.>	Go to step 3.
<p>3</p> <p>CHECK AIRBAG MAIN HARNESS AND FRONT SUB-SENSOR HARNESS (LH).</p> <p>1) Disconnect the connector (AB13) from the front sub-sensor. <Ref. to AB-21, Front Sub Sensor.></p> <p>2) Connect connector (1H) in test harness H to connector (AB13).</p> <p>3) Measure the resistance between connector (3I) in test harness I2 and connector (3H) in test harness H.</p> <p>Connector & terminal (3I) No. 3 — (3H) No. 5: (3I) No. 1 — (3H) No. 6:</p> <p>Is the measured value less than the specified value?</p>	10 Ω	Go to step 4.	Go to step 5.
<p>4</p> <p>CHECK AIRBAG MAIN HARNESS AND FRONT SUB-SENSOR HARNESS (LH).</p> <p>Measure the resistance between connector (3I) in test harness I2 and the chassis ground.</p> <p>Connector & terminal (3I) No. 3 — Chassis ground: (3I) No. 1 — Chassis ground:</p> <p>Does the measured value exceed the specified value?</p>	1 MΩ	Go to step 9.	Go to step 5.

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
5 CHECK AIRBAG MAIN HARNESS. 1) Remove the instrument panel. <Ref. to EI-37, Instrument Panel Assembly.> 2) Disconnect connector (AB11) from (AB12), and connect connector (2F) in test harness F to (AB11). 3) Measure the resistance between connector (3I) in test harness I2 and connector (3F) in test harness F. Connector & terminal <i>(3I) No. 3 — (3F) No. 6:</i> <i>(3I) No. 1 — (3F) No. 5:</i> Is the measured value less than the specified value?	10 Ω	Go to step 6.	Replace the airbag main harness. <Ref. to AB-16, Main Harness.>
6 CHECK AIRBAG MAIN HARNESS. Measure the resistance between connector (3I) in the test harness I2 and the chassis ground. Connector & terminal <i>(3I) No. 3 — Chassis ground:</i> <i>(3I) No. 1 — Chassis ground:</i> Does the measured value exceed the specified value?	1 MΩ	Go to step 7.	Replace the airbag main harness. <Ref. to AB-16, Main Harness.>
7 CHECK FRONT SUB-SENSOR HARNESS (LH). 1) Connect connector (1F) in test harness F to connector (AB12). 2) Measure the resistance between connector (3H) in test harness H and connector (3F) in test harness F. Connector & terminal <i>(3F) No. 3 — (3H) No. 5:</i> <i>(3F) No. 4 — (3H) No. 6:</i> Is the measured value less than the specified value?	10 Ω	Go to step 8.	Replace the front sub-sensor harness (LH). <Ref. to AB-16, Main Harness.>
8 CHECK FRONT SUB-SENSOR HARNESS (LH). Measure the resistance between connector (3F) in test harness F and the chassis ground. Connector & terminal <i>(3F) No. 3 — Chassis ground:</i> <i>(3F) No. 4 — Chassis ground:</i> Does the measured value exceed the specified value?	1 MΩ	Go to step 9.	Replace the front sub-sensor harness (LH). <Ref. to AB-16, Main Harness.>
9 CHECK FRONT SUB-SENSOR (LH). 1) Connect connector (2H) in test harness H to front sub-sensor (LH). 2) Measure the resistance of the connector (3H) in test harness H. Connector & terminal <i>(3H) No. 3 — No. 4:</i> Is the measured value within the specified range?	750 Ω — 1 KΩ	Go to step 10.	Replace the front sub-sensor (LH). <Ref. to AB-21, Front Sub Sensor.>

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
10 CHECK FRONT SUB-SENSOR (LH). Measure the resistance between connector (3H) in 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> Does the measured value exceed the specified value?	1 MΩ	Finish the diagnosis.	Replace the front sub-sensor (LH). <Ref. to AB-21, Front Sub Sensor.>

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

L: DTC 41

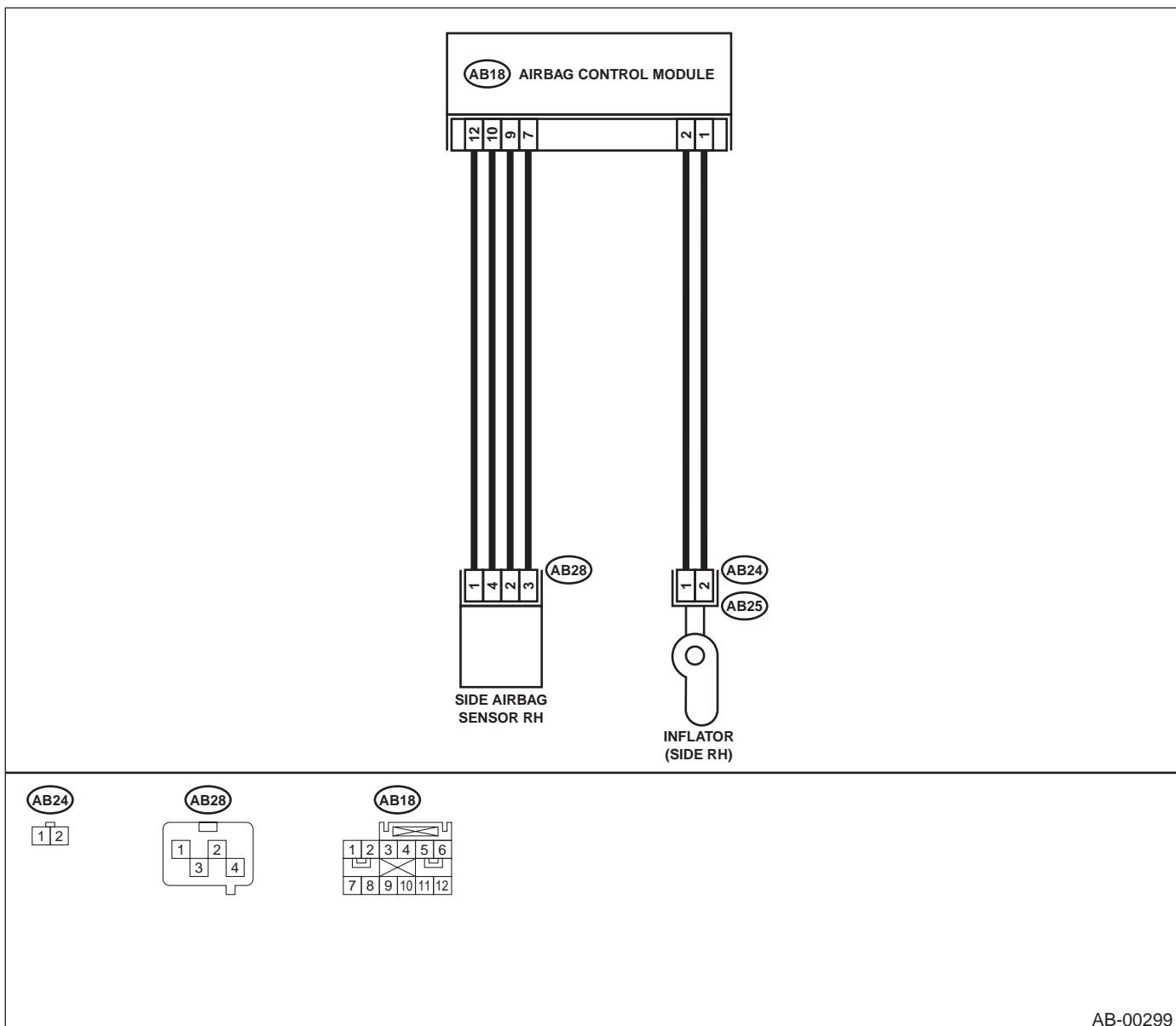
DIAGNOSIS:

- 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 cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, 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 DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
1 CHECK SIDE AIRBAG MODULE. 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB26) from the seat belt pretensioner (RH). <Ref. to SB-7, Front Seat Belt.> 3) Disconnect connector (AB25) from (AB24), and connect connector (1F) in test harness F to (AB24). 4) Connect air bag resistor to connector (3F) in test harness F. 5) Connect the battery ground cable, and turn the ignition switch ON. Does the airbag warning light operate properly?	Operates properly.	Replace front seat with side airbag module (RH). <Ref. to SB-7, Front Seat Belt.>	Go to step 2.
2 CHECK SIDE AIRBAG HARNESS (RH). 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect airbag resistor from test harness. 3) Disconnect the connector (AB18) from air bag control module. <Ref. to AB-18, Airbag Control Module.> 4) Connect connector (1I) in test harness I2 to connector (AB18). 5) Measure the resistance between connector (3I) in test harness I2 and connector (3F) in 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 side airbag harness. <Ref. to AB-17, Side Airbag Harness.>
3 CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance of the connector (3F) in test harness F. Connector & terminal (3F) No. 3 — No. 4: Does the measured value exceed the specified value?	1 MΩ	Go to step 4.	Replace side airbag harness. <Ref. to AB-17, Side Airbag Harness.>
4 CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance between connector (3F) in test harness F and the chassis ground. Connector & terminal (3F) No. 3 — Chassis ground: (3F) No. 4 — Chassis ground: Does the measured value exceed the specified value?	1 MΩ	Replace the airbag control module. <Ref. to AB-18, Airbag Control Module.>	Replace side airbag harness. <Ref. to AB-17, Side Airbag Harness.>

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

M: DTC 42

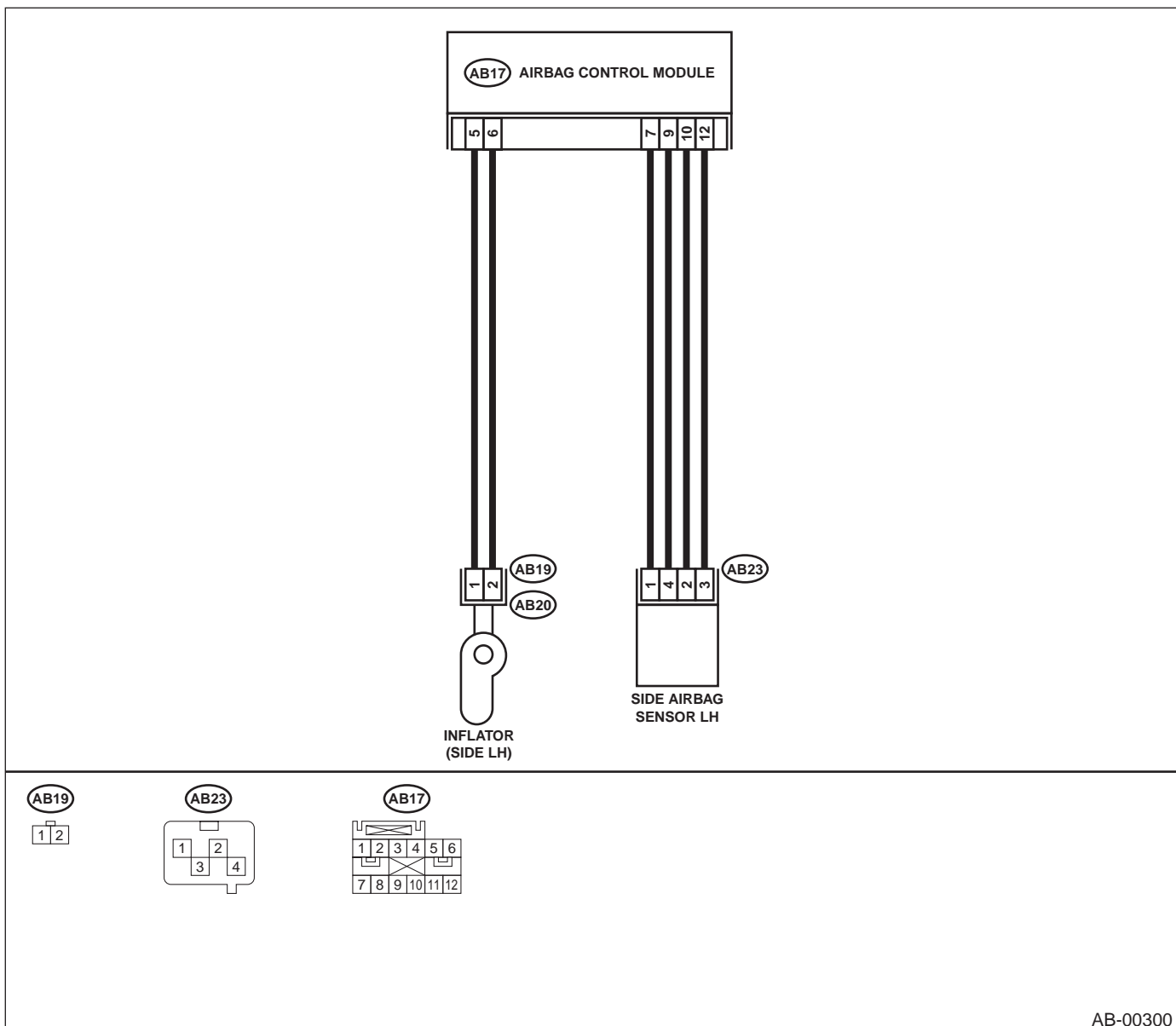
DIAGNOSIS:

- 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 cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, 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 DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
1 CHECK SIDE AIRBAG MODULE. 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB21) from the seat belt pretensioner (LH). <Ref. to SB-7, Front Seat Belt.> 3) Disconnect connector (AB20) from (AB19), and connect connector (1F) in test harness F to (AB19). 4) Connect airbag resistor to connector (3F) in test harness F. 5) Connect the battery ground cable, and turn the ignition switch ON. Does the air bag warning light operate properly?	Operates properly.	Replace front seat with side airbag module (LH). <Ref. to SB-7, Front Seat Belt.>	Go to step 2.
2 CHECK SIDE AIRBAG HARNESS (LH). 1) Turn ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect airbag resistor from the test harness. 3) Disconnect the connector (AB17) from the airbag control module. <Ref. to AB-18, Airbag Control Module.> 4) Connect connector (1I) in test harness I2 to connector (AB17). 5) Measure the resistance between connector (3I) in test harness I2 and connector (3F) in 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 side airbag harness. <Ref. to AB-17, Side Airbag Harness.>
3 CHECK SIDE AIRBAG HARNESS (LH). Measure the resistance of the connector (3F) in test harness F. Connector & terminal (3F) No. 3 — No. 4: Does the measured value exceed the specified value?	1 MΩ	Go to step 4.	Replace side airbag harness. <Ref. to AB-17, Side Airbag Harness.>
4 CHECK SIDE AIRBAG HARNESS (LH). Measure the resistance between connector (3F) in test harness F and the chassis ground. Connector & terminal (3F) No. 3 — Chassis ground: (3F) No. 4 — Chassis ground: Does the measured value exceed the specified value?	1 MΩ	Replace the airbag control module. <Ref. to AB-18, Airbag Control Module.>	Replace side airbag harness. <Ref. to AB-17, Side Airbag Harness.>

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

N: DTC 45

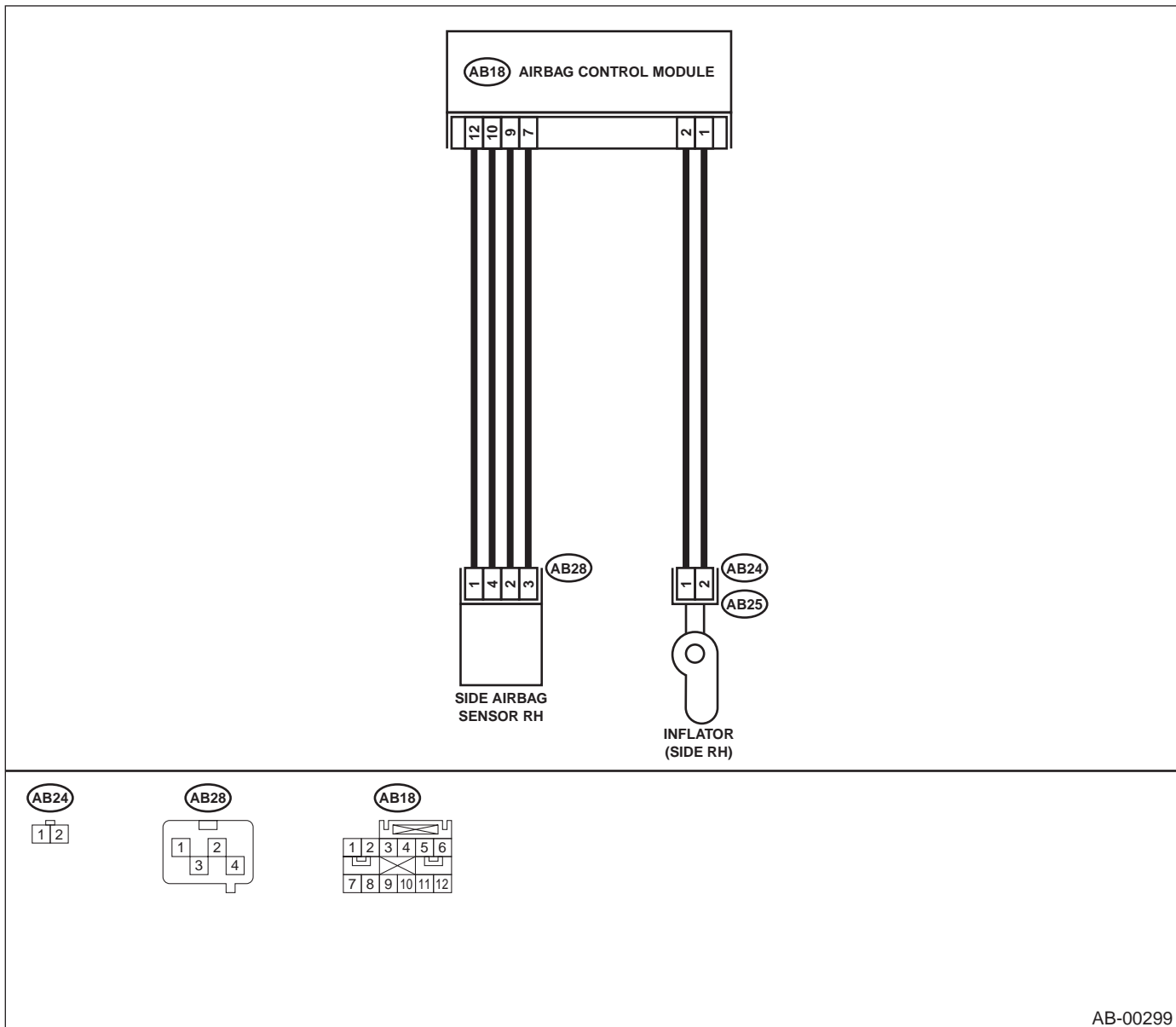
DIAGNOSIS:

- 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 OFF, disconnect the ground cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, 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 DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
<p>1</p> <p>CHECK SIDE AIRBAG MODULE.</p> <ol style="list-style-type: none"> 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB26) from the seat belt pretensioner (RH). <Ref. to SE-7, Front Seat.> 3) Disconnect the connector (AB25) from (AB24), and connect connector (1F) in test harness F to (AB24). 4) Connect airbag resistor to connector (3F) in test harness F. 5) Connect the battery ground cable, and turn the ignition switch ON. <p>Does air bag warning light operate properly?</p>	Operates properly.	Replace front seat with side airbag module (RH). <Ref. to SE-7, Front Seat.>	Go to step 2.
<p>2</p> <p>CHECK SIDE AIRBAG HARNESS (RH).</p> <ol style="list-style-type: none"> 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect airbag resistor from the test harness. 3) Disconnect the connector (AB18) from the airbag control module. <Ref. to AB-18, Airbag Control Module.> 4) Connect connector (1I) in test harness I2 to connector (AB18). 5) Connect the battery ground cable, and turn the ignition switch ON. 6) Measure the voltage between connector (3I) in test harness I2 and the chassis ground. <p>Connector & terminal</p> <p>(3I) No. 7 (+) — Chassis ground (-):</p> <p>(3I) No. 9 (+) — Chassis ground (-):</p> <p>Is the measured value less than the specified value?</p>	1 V	Replace the airbag control module. <Ref. to AB-18, Airbag Control Module.>	Replace side airbag harness. <Ref. to AB-17, Side Airbag Harness.>

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

O: DTC 46

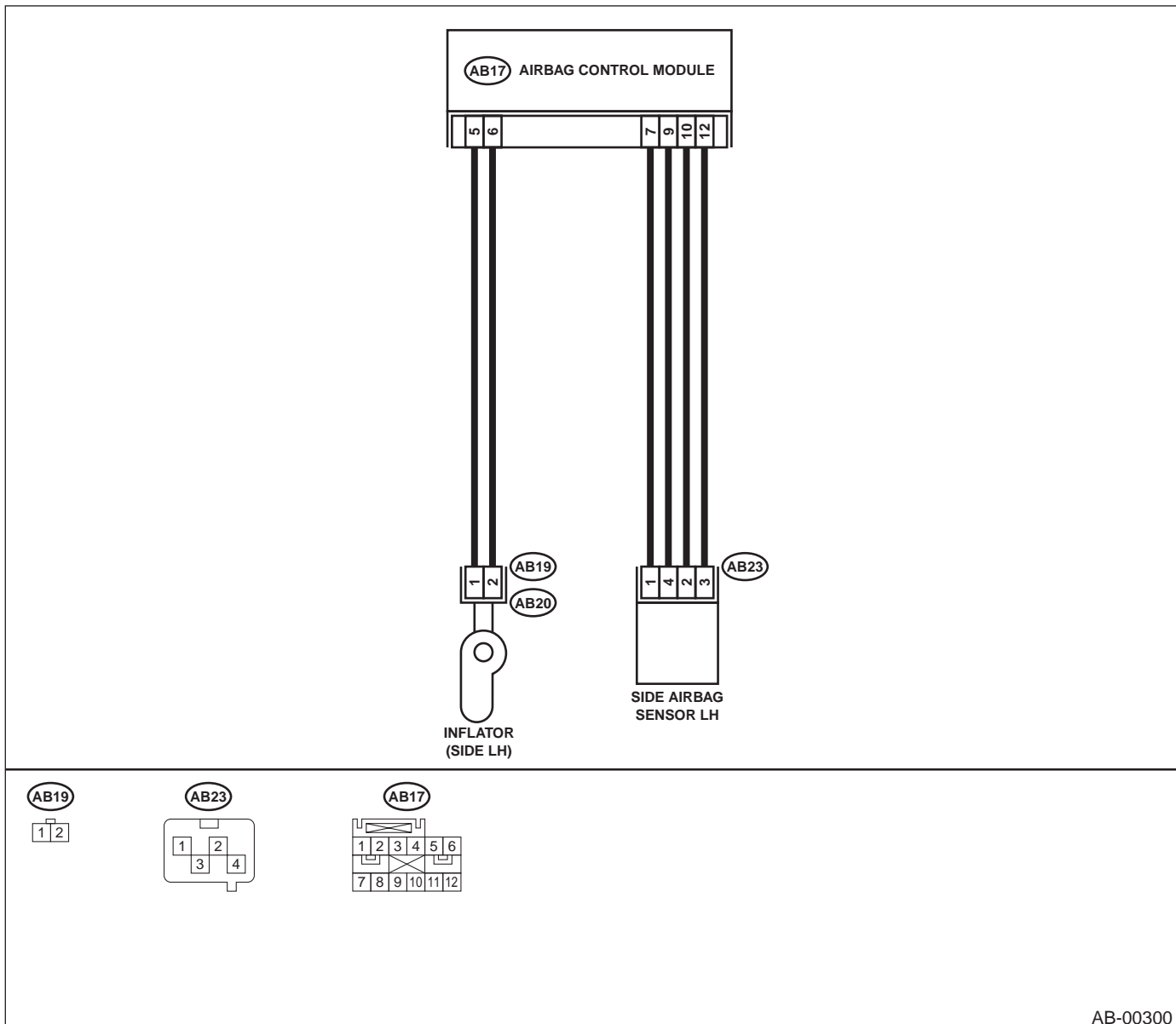
DIAGNOSIS:

- 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 OFF, disconnect the ground cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, 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 DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
<p>1</p> <p>CHECK SIDE AIRBAG MODULE.</p> <ol style="list-style-type: none"> 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect connector (AB21) from the seat belt pretensioner (LH). <Ref. to SE-7, Front Seat.> 3) Disconnect connector (AB20) from (AB19), and connect connector (1F) in test harness F to (AB19). 4) Connect airbag resistor to connector (3F) in test harness F. 5) Connect the battery ground cable and turn the ignition switch ON. Does air bag warning light operate properly? 	Operates properly.	Replace front seat with side airbag module (LH). <Ref. to SE-7, Front Seat.>	Go to step 2.
<p>2</p> <p>CHECK SIDE AIRBAG HARNESS (LH).</p> <ol style="list-style-type: none"> 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect airbag resistor from the test harness. 3) Disconnect the connector (AB17) from the airbag control module. <Ref. to AB-18, Airbag Control Module.> 4) Connect connector (11) in test harness I2 to connector (AB17). 5) Connect the battery ground cable, and turn the ignition switch ON. 6) Measure the voltage between connector (31) in test harness I2 and the chassis ground. <p>Connector & terminal (31) No. 10 (+) — Chassis ground (-): (31) No. 12 (+) — Chassis ground (-): Is the measured value less than the specified value?</p>	1 V	Replace the airbag control module. <Ref. to AB-18, Airbag Control Module.>	Replace side airbag harness. <Ref. to AB-17, Side Airbag Harness.>

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

P: DTC 51

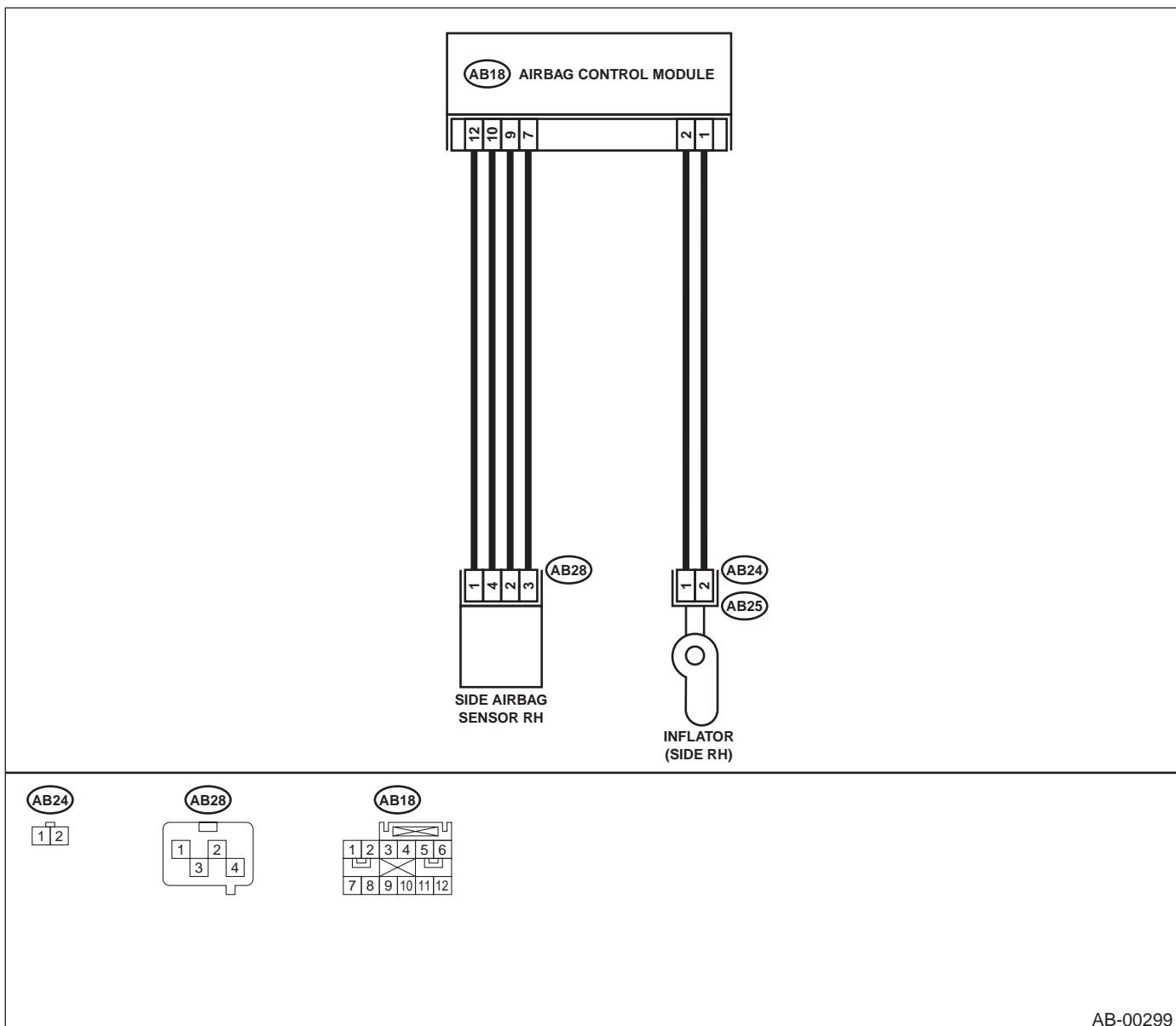
DIAGNOSIS:

- 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 cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, 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 DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

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

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Q: DTC 52

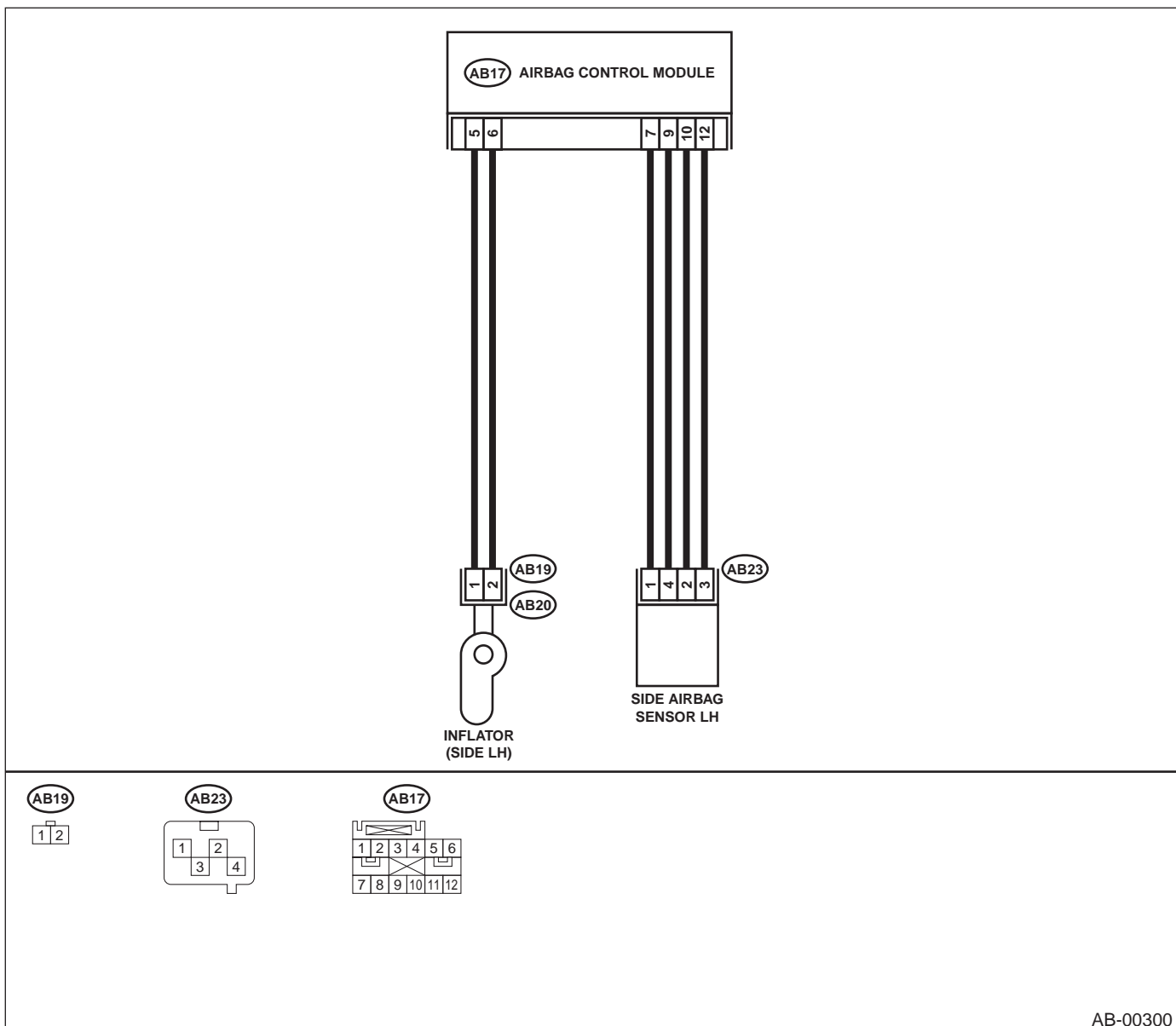
DIAGNOSIS:

- 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 cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, 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 DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
<p>1</p> <p>CHECK SIDE AIRBAG HARNESS (LH).</p> <p>1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds.</p> <p>2) Disconnect the connector (AB21) from the seat belt pretensioner (LH). <Ref. to SB-7, Front Seat Belt.></p> <p>3) Disconnect connector (AB20) from (AB19).</p> <p>4) Disconnect connector (AB17) from the airbag control module. <Ref. to AB-18, Airbag Control Module.></p> <p>5) Connect connector (1I) in test harness I2 to connector (AB17).</p> <p>6) Disconnect connector (AB23) from the side airbag sensor (LH), and connect connector (1G) in test harness G to connector (AB23).</p> <p>7) Measure the resistance between connector (3I) in test harness I2 and connector (3G) in test harness G.</p> <p>Connector & terminal</p> <p>(3I) No. 5 — (3G) No. 5:</p> <p>(3I) No. 14 — (3G) No. 1:</p> <p>(3I) No. 15 — (3G) No. 4:</p> <p>(3I) No. 16 — (3G) No. 2:</p> <p>Is the measured value less than the specified value?</p>	10 Ω	Go to step 2.	Replace side airbag harness. <Ref. to AB-17, Side Airbag Harness.>
<p>2</p> <p>CHECK SIDE AIRBAG HARNESS (RH).</p> <p>Measure the resistance between connector (3I) in test harness I2 and the chassis ground.</p> <p>Connector & terminal</p> <p>(3I) No. 5 — Chassis ground:</p> <p>(3I) No. 14 — Chassis ground:</p> <p>(3I) No. 15 — Chassis ground:</p> <p>(3I) No. 16 — Chassis ground:</p> <p>Does the measured value exceed the specified value?</p>	1 MΩ	Replace side airbag sensor (LH). <Ref. to AB-19, Side Airbag Sensor.> When sensor replacement is not OK, replace the airbag control module. <Ref. to AB-18, Airbag Control Module.>	Replace side airbag harness. <Ref. to AB-17, Side Airbag Harness.>

R: DTC 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-19, Side Airbag Sensor.>

S: DTC 54

DIAGNOSIS:

- Side airbag sensor (LH) is faulty.

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

<Ref. to AB-19, Side Airbag Sensor.>

T: DTC 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-18, 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-19, Side Airbag Sensor.>

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

U: DTC 61

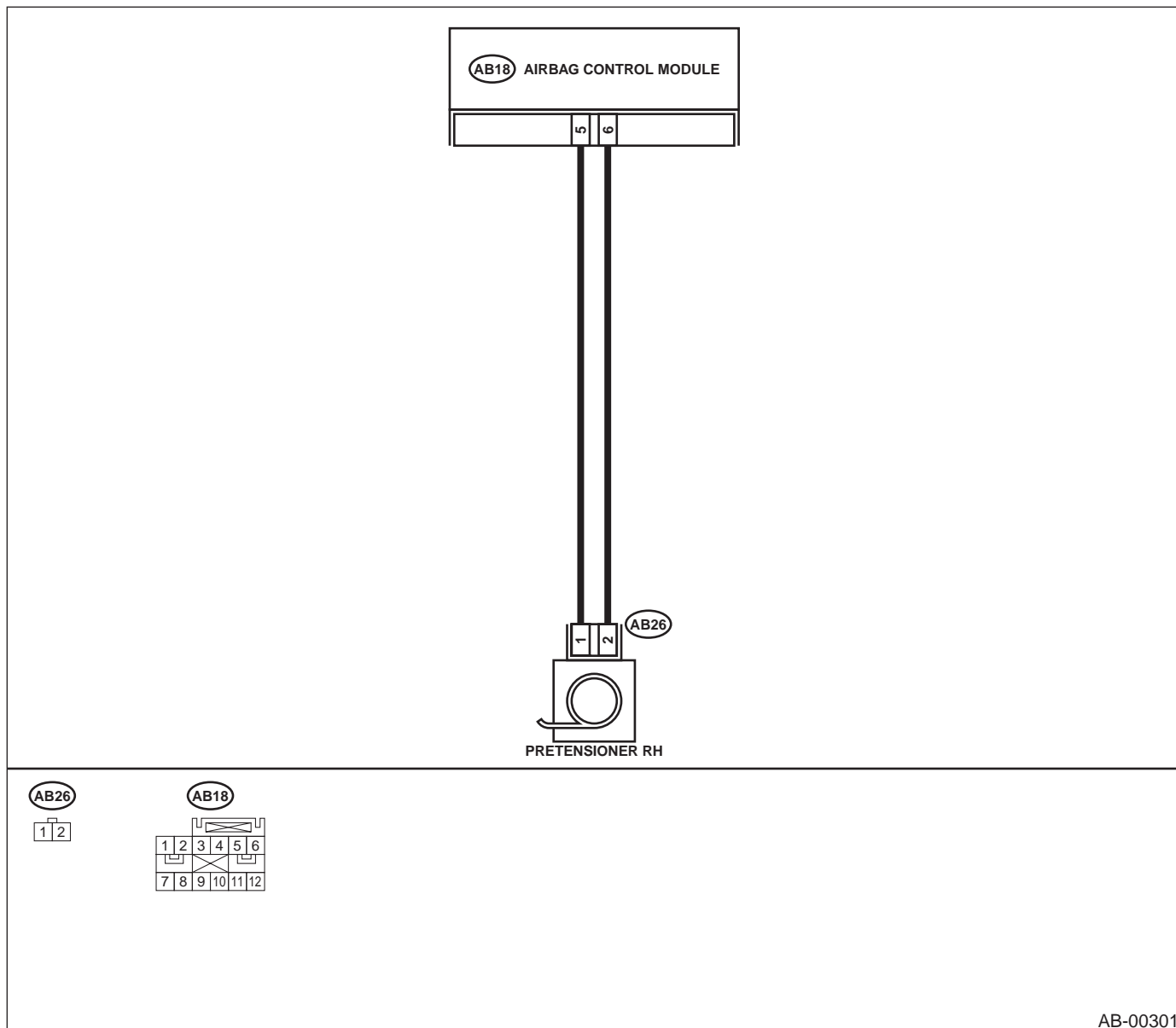
DIAGNOSIS:

- 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 cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, 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:



DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
1 CHECK SEAT BELT PRETENSIONER. 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB26) from the seat belt pretensioner (RH). <Ref. to SB-7, Front Seat Belt.> 3) Connect the connector (1F) in test harness F to (AB26). 4) Connect the airbag resistor to connector (3F) in test harness F. 5) Connect the battery ground cable and turn the ignition switch ON. Does the airbag warning light operate properly?	Operates properly.	Replace seat belt pretensioner (RH). <Ref. to SB-7, Front Seat Belt.>	Go to step 2.
2 CHECK SIDE AIRBAG HARNESS (RH). 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the airbag resistor from the test harness. 3) Disconnect the connector (AB25) from (AB24). 4) Disconnect the connectors (AB17) and (AB18) from the airbag control module. <Ref. to AB-18, Airbag Control Module.> 5) Connect the connector (1I) in test harness I2 to connector (AB18). 6) Measure the resistance between connector (3I) in test harness I2 and connector (3F) in test harness F. Connector & terminal (3I) No. 8 — (3F) No. 4: (3I) No. 6 — (3F) No. 3: Is the measured value less than the specified value?	10 Ω	Go to step 3.	Replace side airbag harness. <Ref. to AB-17, Side Airbag Harness.>
3 CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance of the connector (3I) in test harness I2. Connector & terminal (3I) No. 6 — No. 8: Does the measured value exceed the specified value?	1 MΩ	Go to step 4.	Replace side airbag harness. <Ref. to AB-17, Side Airbag Harness.>
4 CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance between connector (3I) in test harness I2 and the chassis ground. Connector & terminal (3I) No. 6 — Chassis ground: (3I) No. 8 — Chassis ground: Does the measured value exceed the specified value?	1 MΩ	Replace the airbag control module. <Ref. to AB-18, Airbag Control Module.>	Replace side airbag harness. <Ref. to AB-17, Side Airbag Harness.>

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

V: DTC 62

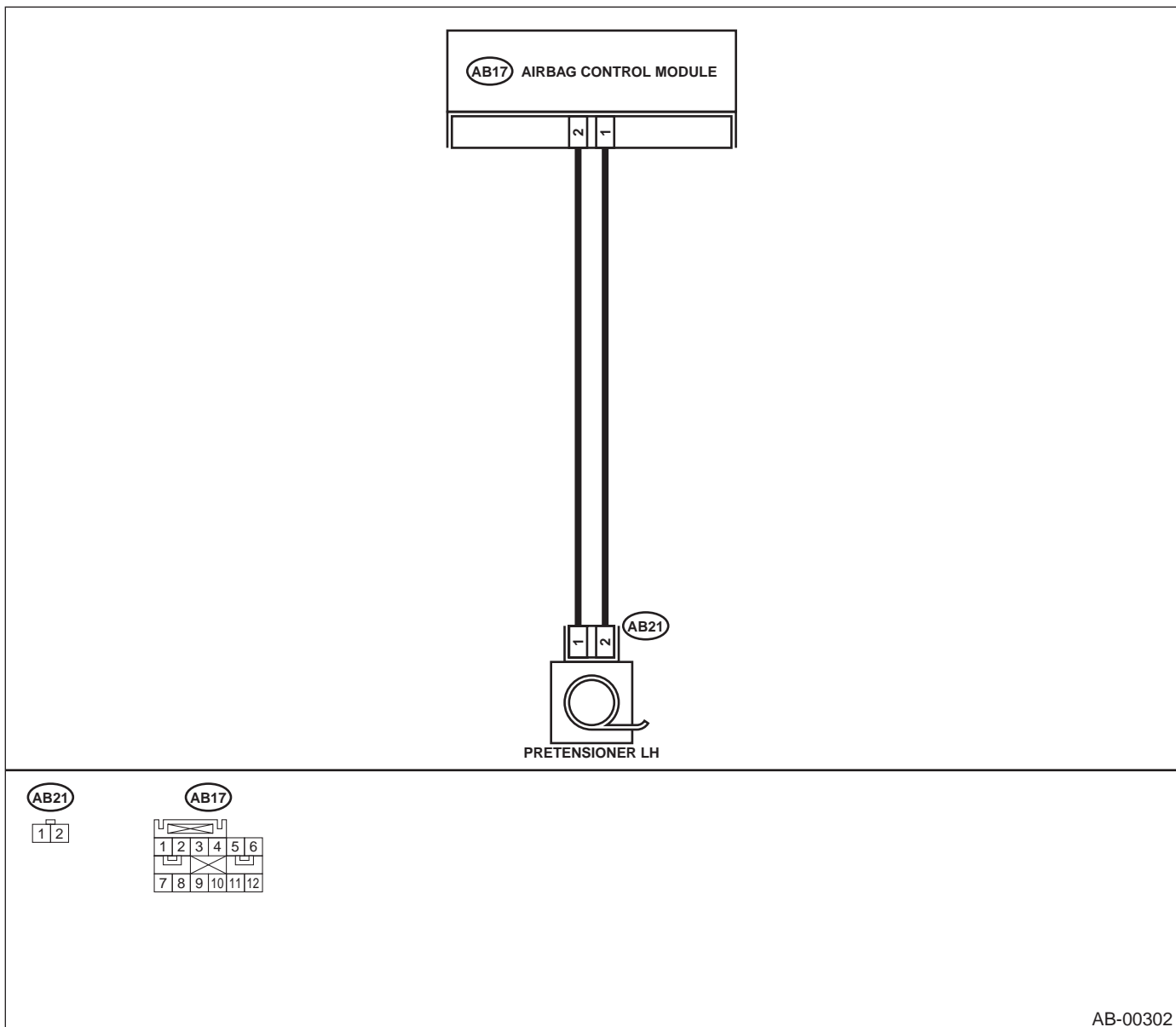
DIAGNOSIS:

- 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 cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, 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:



DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
1 CHECK SEAT BELT PRETENSIONER. 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB21) from the seatbelt pretensioner (LH). <Ref. to SB-7, Front Seat Belt.> 3) Connect the connector (1F) in test harness F to (AB21). 4) Connect the airbag resistor to the connector (3F) in test harness F. 5) Connect the battery ground cable and turn the ignition switch ON. Does the airbag warning light operate properly?	Operates properly.	Replace seat belt pretensioner (LH). <Ref. to SB-7, Front Seat Belt.>	Go to step 2.
2 CHECK SIDE AIRBAG HARNESS (LH). 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the airbag resistor from the test harness. 3) Disconnect the connector (AB20) from (AB19). 4) Disconnect the connectors (AB17) and (AB18) from the airbag control module. <Ref. to AB-18, Airbag Control Module.> 5) Connect the connector (1I) in test harness I2 to the connector (AB17). 6) Measure the resistance between connector (3I) in test harness I2 and the connector (3F) in test harness F. Connector & terminal (3I) No. 11 — (3F) No. 4: (3I) No. 13 — (3F) No. 3: Is the measured value less than the specified value?	10 Ω	Go to step 3.	Replace side airbag harness. <Ref. to AB-17, Side Airbag Harness.>
3 CHECK SIDE AIRBAG HARNESS (LH). Measure the resistance of the connector (3I) in test harness I2. Connector & terminal (3I) No. 11 — No. 13: Does the measured value exceed the specified value?	1 MΩ	Go to step 4.	Replace side airbag harness. <Ref. to AB-17, Side Airbag Harness.>
4 CHECK SIDE AIRBAG HARNESS (LH). Measure the resistance between the connector (3I) in test harness I2 and the chassis ground. Connector & terminal (3I) No. 11 — Chassis ground: (3I) No. 13 — Chassis ground: Does the measured value exceed the specified value?	1 MΩ	Replace the airbag control module. <Ref. to AB-18, Airbag Control Module.>	Replace side airbag harness. <Ref. to AB-17, Side Airbag Harness.>

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

W: DTC 65

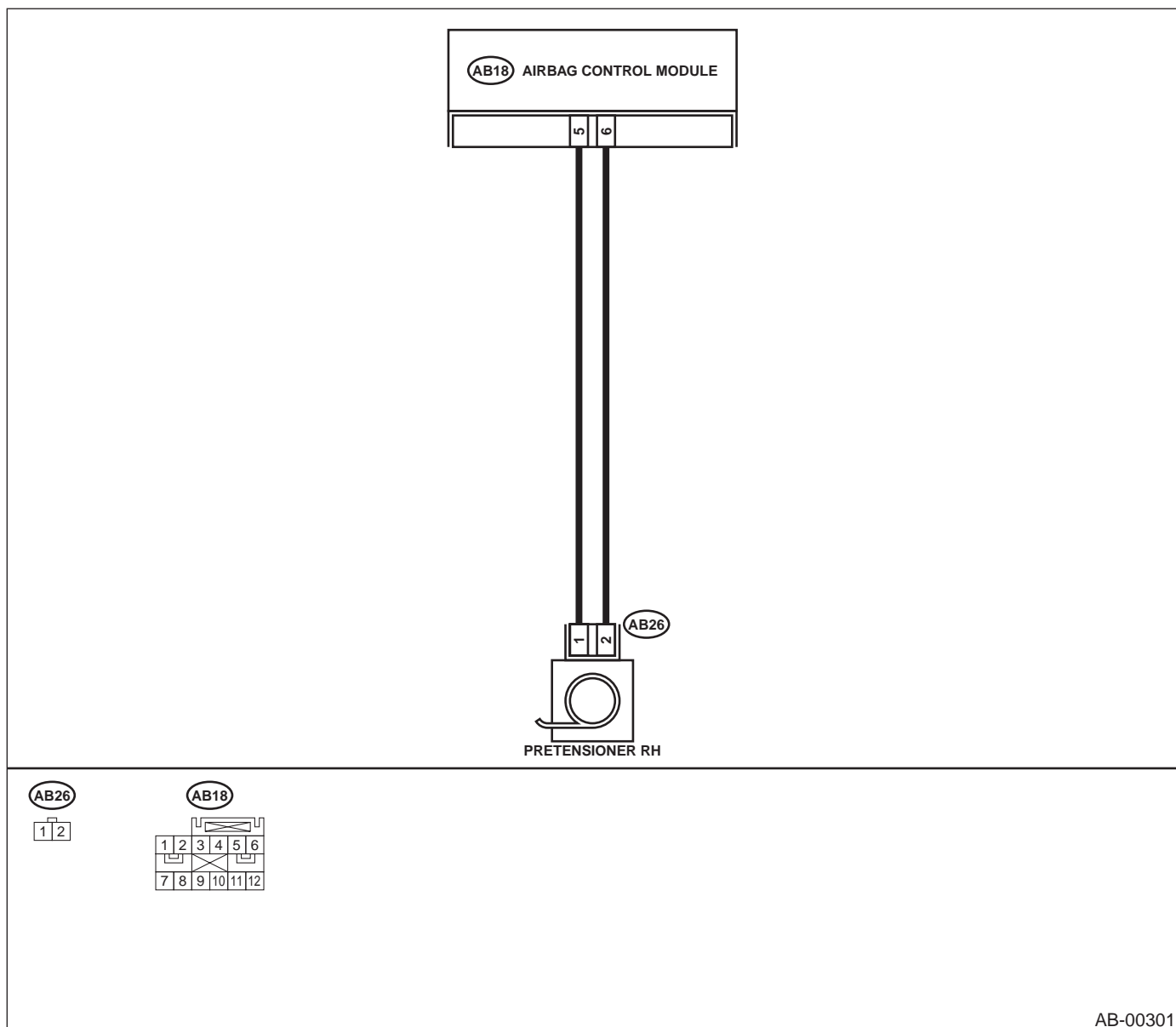
DIAGNOSIS:

- 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 cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, 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:



DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

	Step	Value	Yes	No
1	<p>CHECK SEAT BELT PRETENSIONER.</p> <ol style="list-style-type: none"> 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB26) from the seat belt pretensioner (RH). <Ref. to SB-7, Front Seat Belt.> 3) Connect the connector (1F) in test harness F to (AB26). 4) Connect the airbag resistor to connector (3F) in test harness F. 5) Connect the battery ground cable, and turn the ignition switch ON. <p>Does the airbag warning light operate properly?</p>	Operates properly.	Replace seat belt pretensioner (RH). <Ref. to SB-7, Front Seat Belt.>	Go to step 2.
2	<p>CHECK SIDE AIRBAG HARNESS (RH).</p> <ol style="list-style-type: none"> 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the airbag resistor from the test harness. 3) Disconnect the connector (AB25) from (AB24). 4) Disconnect the connectors (AB17) and (AB18) from the airbag control module. <Ref. to AB-18, Airbag Control Module.> 5) Connect the connector (1I) in test harness 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 test harness I2 and the chassis ground. <p>Connector & terminal (3I) No. 6 (+) — Chassis ground (-): (3I) No. 8 (+) — Chassis ground (-):</p> <p>Is the measured value less than the specified value?</p>	1 V	Replace the airbag control module. <Ref. to AB-18, Airbag Control Module.>	Replace side airbag harness. <Ref. to AB-17, Side Airbag Harness.>

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

X: DTC 66

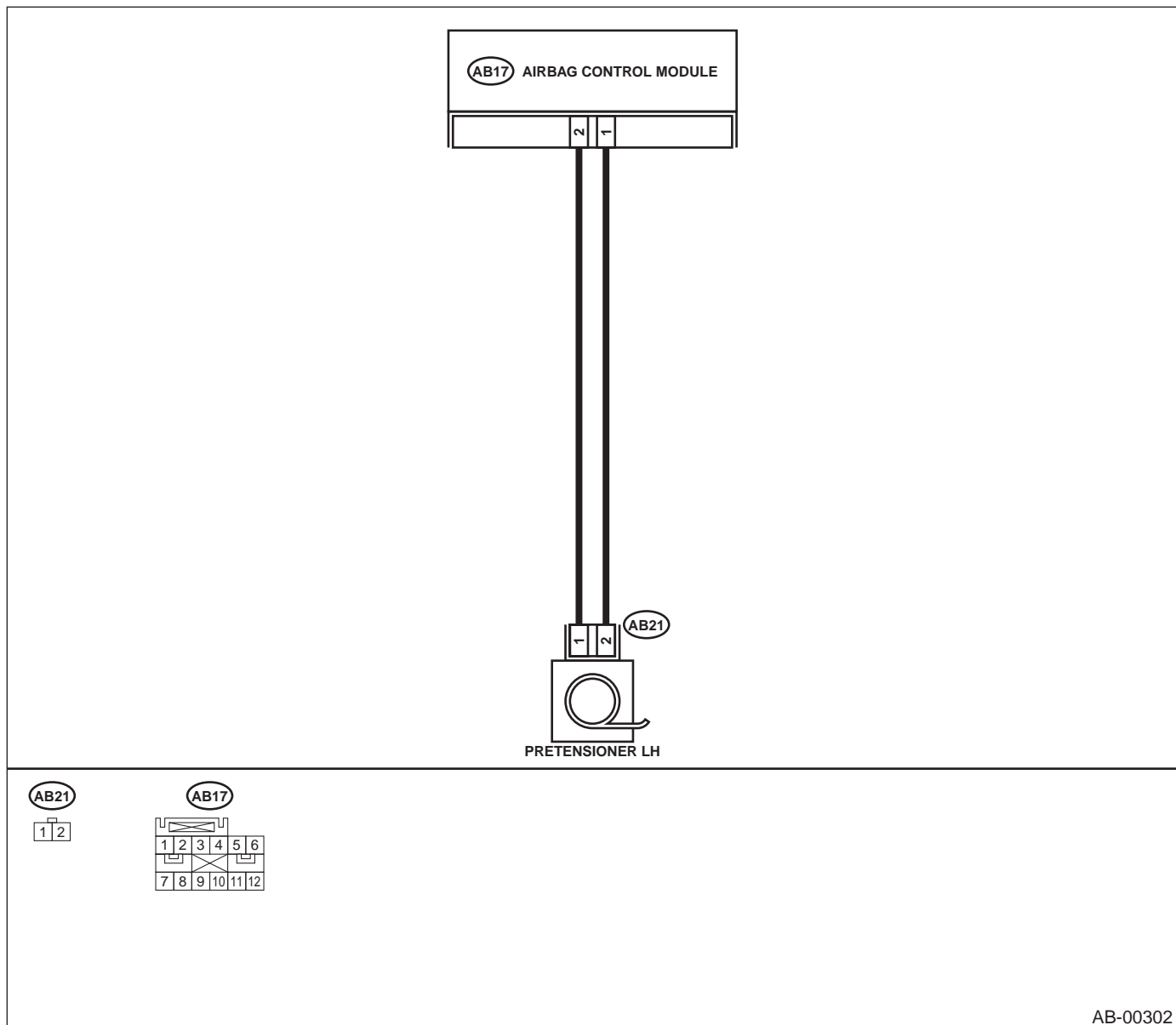
DIAGNOSIS:

- 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 cable from the battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, 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:



DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
<p>1</p> <p>CHECK SEAT BELT PRETENSIONER.</p> <ol style="list-style-type: none"> 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB21) from the seat belt pretensioner (LH). <Ref. to SB-7, Front Seat Belt.> 3) Connect the connector (1F) in test harness F to (AB21). 4) Connect the airbag resistor to the connector (3F) in test harness F. 5) Connect the battery ground cable and turn the ignition switch ON. <p>Does the airbag warning light operate properly?</p>	Operates properly.	Replace seat belt pre-tensioner(LH). <Ref. to SB-7, Front Seat Belt.>	Go to step 2.
<p>2</p> <p>CHECK SIDE AIRBAG HARNESS (LH).</p> <ol style="list-style-type: none"> 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the airbag resistor from the test harness. 3) Disconnect the connector (AB20) from (AB19). 4) Disconnect the connectors (AB17) and (AB18) from the airbag control module. <Ref. to AB-18, Airbag Control Module.> 5) Connect the connector (1I) in test harness I2 to the connector (AB17). 6) Connect the battery ground cable and turn the ignition switch ON. 7) Measure the voltage between connector (3I) in test harness I2 and the chassis ground. <p>Connector & terminal</p> <p>(3I) No. 11 (+) — Chassis ground (-):</p> <p>(3I) No. 13 (+) — Chassis ground (-):</p> <p>Is the measured value less than the specified value?</p>	1 V	Replace the airbag control module. <Ref. to AB-18, Airbag Control Module.>	Replace side airbag harness. <Ref. to AB-17, Side Airbag Harness.>

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Y: DTC 72

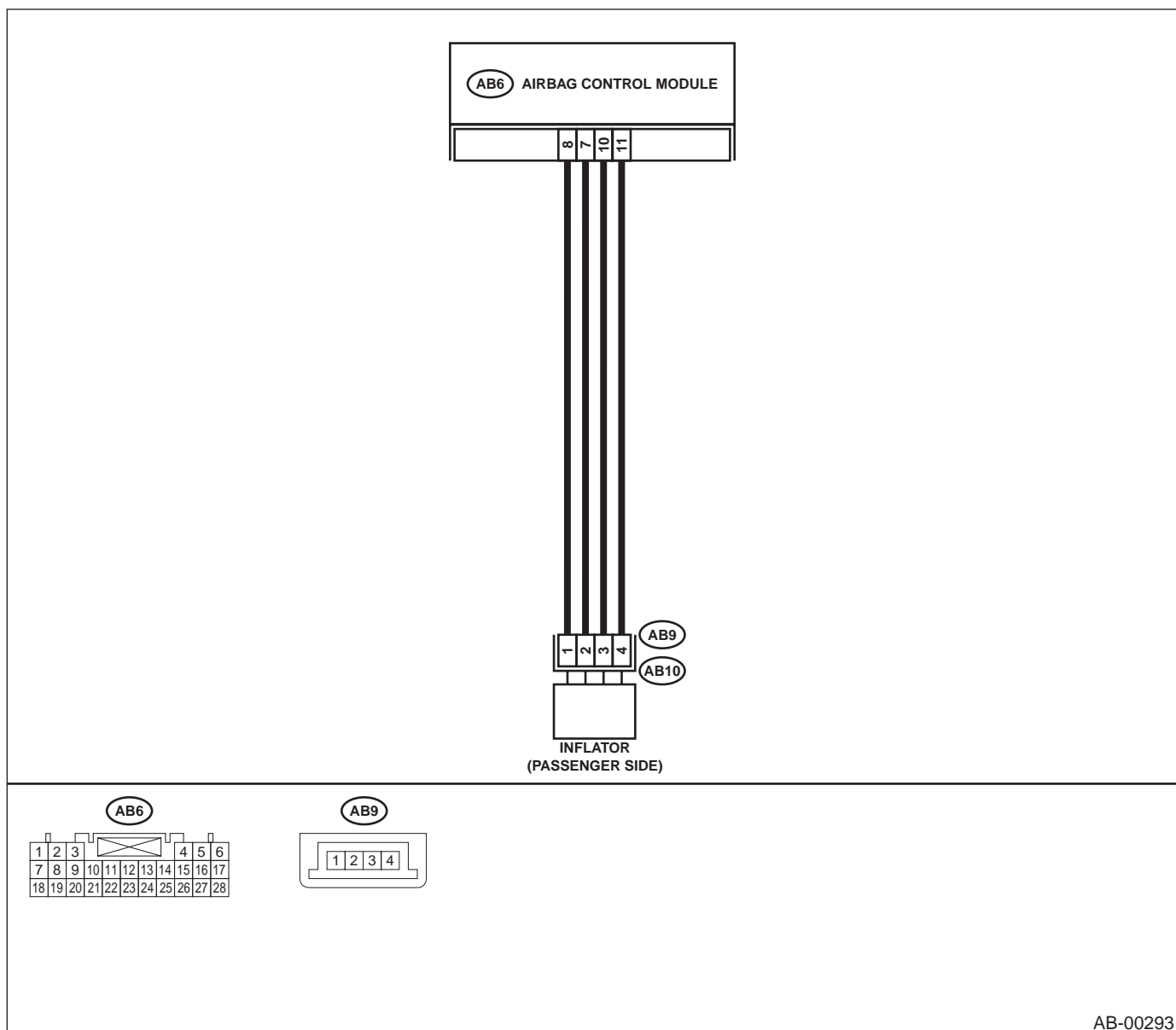
DIAGNOSIS:

- Airbag harness 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 cable from the battery, and wait more than 20 seconds before starting to work.
- 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 DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

Step	Value	Yes	No
1 CHECK PASSENGER'S AIRBAG MODULE. 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Pull out the two stopper pins and lower the glove box. 3) Disconnect the connector passenger's airbag module from (AB9). 4) Connect the connector (1K) in test harness K to connector (AB9). 5) Connect two airbag resistors to connectors (3K) and (4K) in test harness K. 6) Connect the battery ground cable and turn the ignition switch ON. Does the airbag warning light operate properly?	Operates properly.	Replace the passenger's airbag module. <Ref. to AB-13, Passenger's Airbag Module S802308.>	Go to step 2.
2 CHECK AIRBAG MAIN HARNESS. 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect two airbag resistors from the connectors (3K) and (4K) in test harness K. 3) Remove the lower cover and disconnect the connector (AB3) from (AB8). 4) Disconnect the connector (AB6) from the air bag control module, and connect the connector (1I) in test harness I2. 5) Measure the resistance between connector (6I) in test harness I2 and the connector (4K) in test harness K. Connector & terminal (6I) No. 2 — (4K) No. 3: (6I) No. 4 — (4K) No. 4: Is the measured value less than specified value?	10 Ω	Go to step 3.	Replace the airbag main harness. <Ref. to AB-16, Main Harness.>
3 CHECK AIRBAG MAIN HARNESS. Measure the resistance of the connector (6I) in test harness I2. Connector & terminal (6I) No. 2 — No. 4: (6I) No. 2 — Chassis ground: (6I) No. 4 — Chassis ground: Is the measured value more than specified value?	1 MΩ	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module S802302.>	Replace the airbag main harness. <Ref. to AB-16, Main Harness.>

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Z: DTC 76

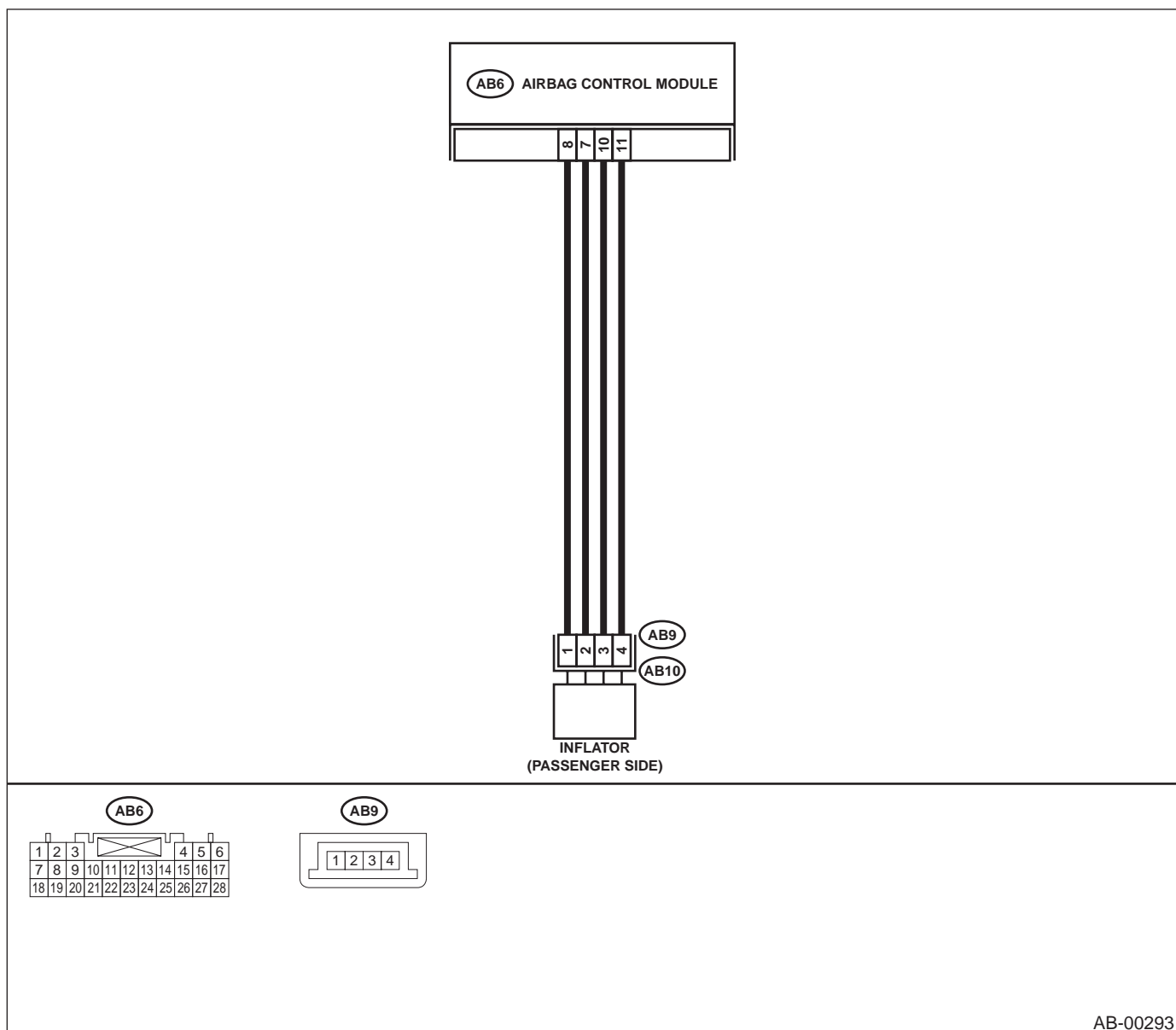
DIAGNOSIS:

- Airbag main harness (Passenger) circuit 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 cable from the battery, and wait more than 20 seconds before starting to work.
- 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 DIAGNOSTIC TROUBLE CODE (DTC)
AIRBAG SYSTEM (DIAGNOSTICS)

	Step	Value	Yes	No
1	<p>CHECK PASSENGER'S AIRBAG MODULE.</p> <ol style="list-style-type: none"> 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Pull out the two stopper pins and lower the glove box. 3) Disconnect the connector (AB9) from passenger's airbag module. 4) Connect the connector (1K) in test harness K to connector (AB9). 5) Connect two airbag resistors to connectors (3K) and (4K) in test harness K. 6) Connect the battery ground cable and turn the ignition switch ON. <p>Does the airbag warning light operate properly?</p>	Operates properly.	Replace the passenger's airbag module. <Ref. to AB-13, Passenger's Airbag Module S802308.>	Go to step 2.
2	<p>CHECK AIRBAG MAIN HARNESS.</p> <ol style="list-style-type: none"> 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect two airbag resistors from the connectors (3K) and (4K) in test harness K. 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 test harness I2. 5) Measure the voltage between connector (6I) in test harness I2 and the chassis ground. <p>Connector & terminal (6I) No. 2 (+) — Chassis ground (-): (6I) No. 4 (+) — Chassis ground (-):</p> <p>Is the measured value less than specified value?</p>	1 V	Replace the airbag control module. <Ref. to AB-15, Airbag Control Module S802302.>	Replace the airbag main harness. <Ref. to AB-16, Main Harness.>

DIAGNOSTIC CHART WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

MEMO: