

13. Diagnostic Procedure with Diagnostic Trouble Code (DTC)

A: DTC 11

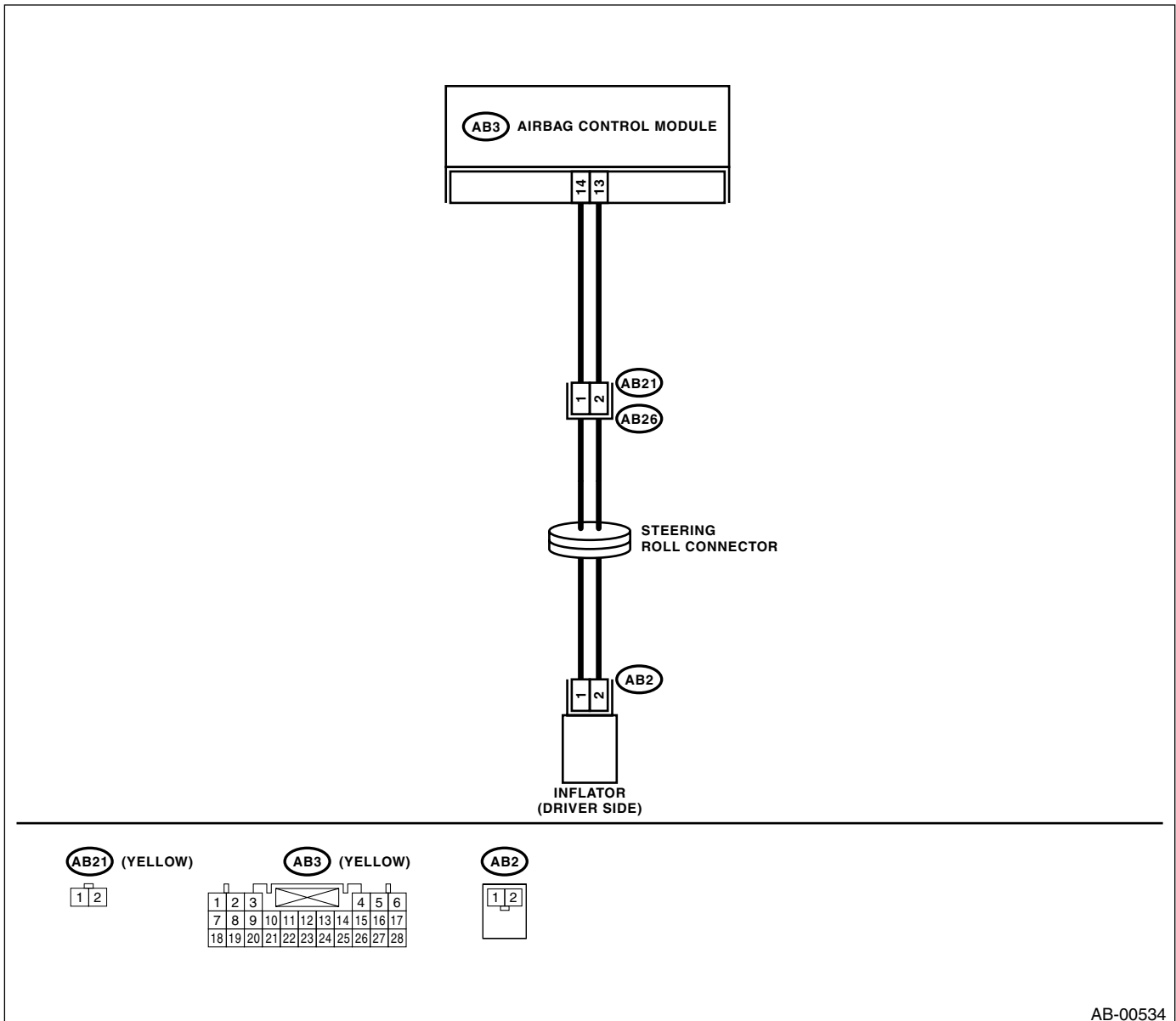
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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-00534

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK DRIVER'S AIRBAG MODULE. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, 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 (1N) in test harness N to connector (AB2). 4) Connect the airbag resistor to connector (2N) in test harness N. 5) Connect the battery ground cable and turn the ignition switch to ON.	Does the airbag warning light operate properly?	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 to OFF, disconnect the battery ground cable, and wait more than 20 second. 2) Disconnect the test harness N from the connector (AB2). 3) Remove the instrument panel lower cover, disconnect the connector (AB26) from (AB21) and connect the connector (1F) in test harness F to connector (AB21). 4) Connect the airbag resistor to connector (3F) in test harness F. 5) Connect the battery ground cable and turn the ignition switch to ON.	Does the airbag warning light operate properly?	Replace the roll connector. <Ref. to AB-18, Roll Connector.>	Go to step 3.
3 CHECK AIRBAG MAIN HARNESS. 1) Turn the ignition switch to 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-13, Passenger's Airbag Module.> and disconnect connectors (AB27) and (AB4). 4) Disconnect the connector (AB3) from the airbag control module, and connect the connector (1R) in test harness R. <Ref. to AB-16, Airbag Control Module.> 5) Measure the resistance between connector (2R) in test harness R and the connector (3F) in test harness F. Connector & terminal (2R) No. 2 — (3F) No. 3: (2R) No. 4 — (3F) No. 4:	Is the resistance less than 10 Ω?	Go to step 4.	Replace the body harness with airbag main harness.
4 CHECK AIRBAG MAIN HARNESS. Measure the resistance of the connector (2R) in test harness R. Connector & terminal (2R) No. 2 — (2R) No. 4: (2R) No. 4 — Chassis ground: (2R) No. 2 — Chassis ground:	Is the resistance more than 1 MΩ?	Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.>	Replace the body harness with airbag main harness.

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

B: DTC 12

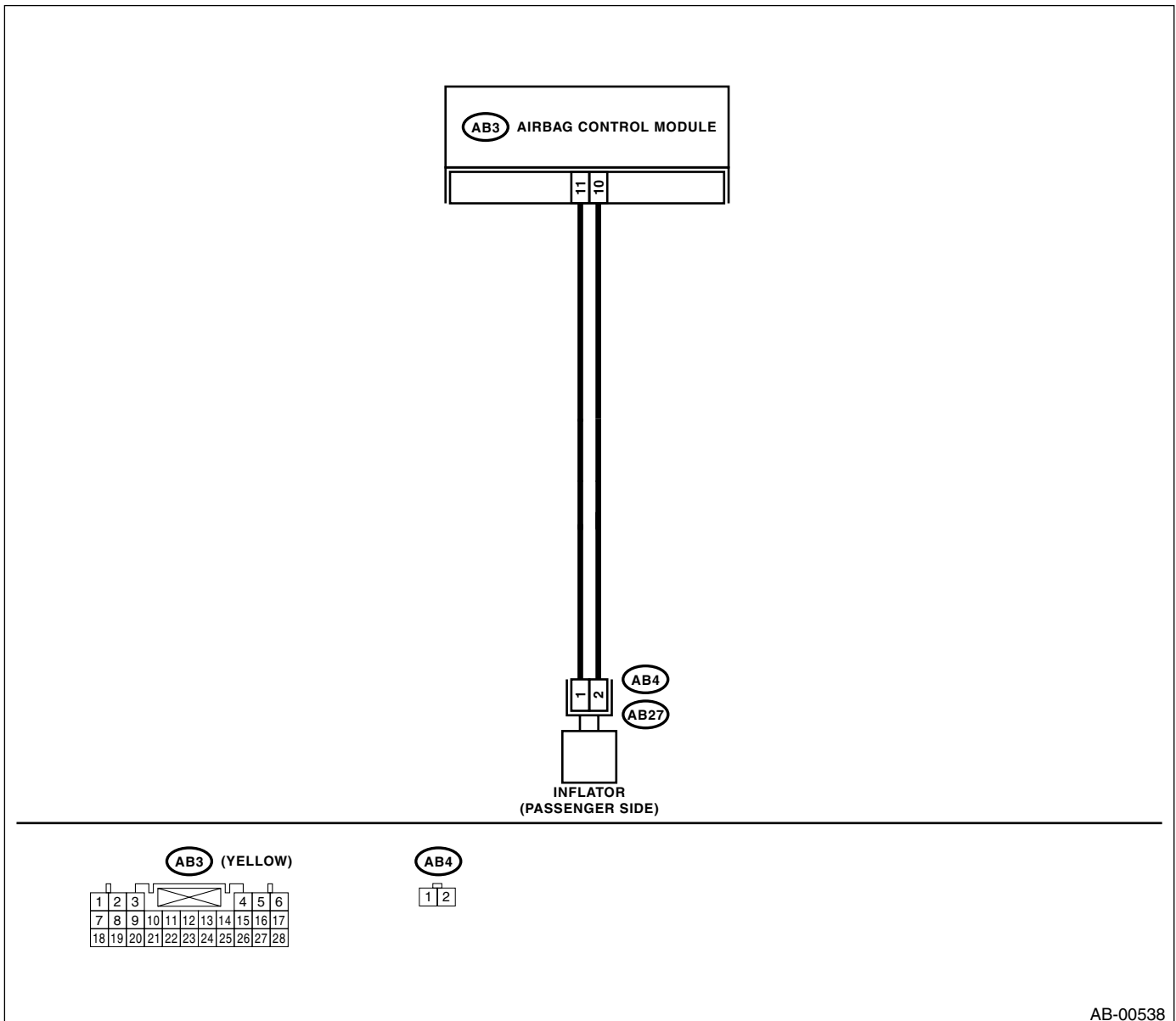
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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:



DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK PASSENGER'S AIRBAG MODULE. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Remove the glove box. 3) Disconnect the connector (AB27) from (AB4). 4) Connect the connector (1F) in test harness F to connector (AB4). 5) Connect the airbag resistor to connector (3F) in test harness F. 6) Connect the battery ground cable and turn the ignition switch to ON.	Does the airbag warning light operate properly?	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 to 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) Remove the instrument panel lower cover and disconnect the connector (AB26) from (AB21). 4) Disconnect the connector (AB3) from the airbag control module, and connect the connector (1R) in test harness R. <Ref. to AB-16, Airbag Control Module.> 5) Measure the resistance between connector (2R) in test harness R and the connector (3F) in test harness F. Connector & terminal (2R) No. 3 — (3F) No. 4: (2R) No. 5 — (3F) No. 3:	Is the resistance less than 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 (2R) in test harness R. Connector & terminal (2R) No. 3 — (2R) No. 5: (2R) No. 3 — Chassis ground: (2R) No. 5 — Chassis ground:	Is the resistance more than 1 MΩ?	Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.>	Replace the body harness with airbag main harness.

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

C: DTC 15

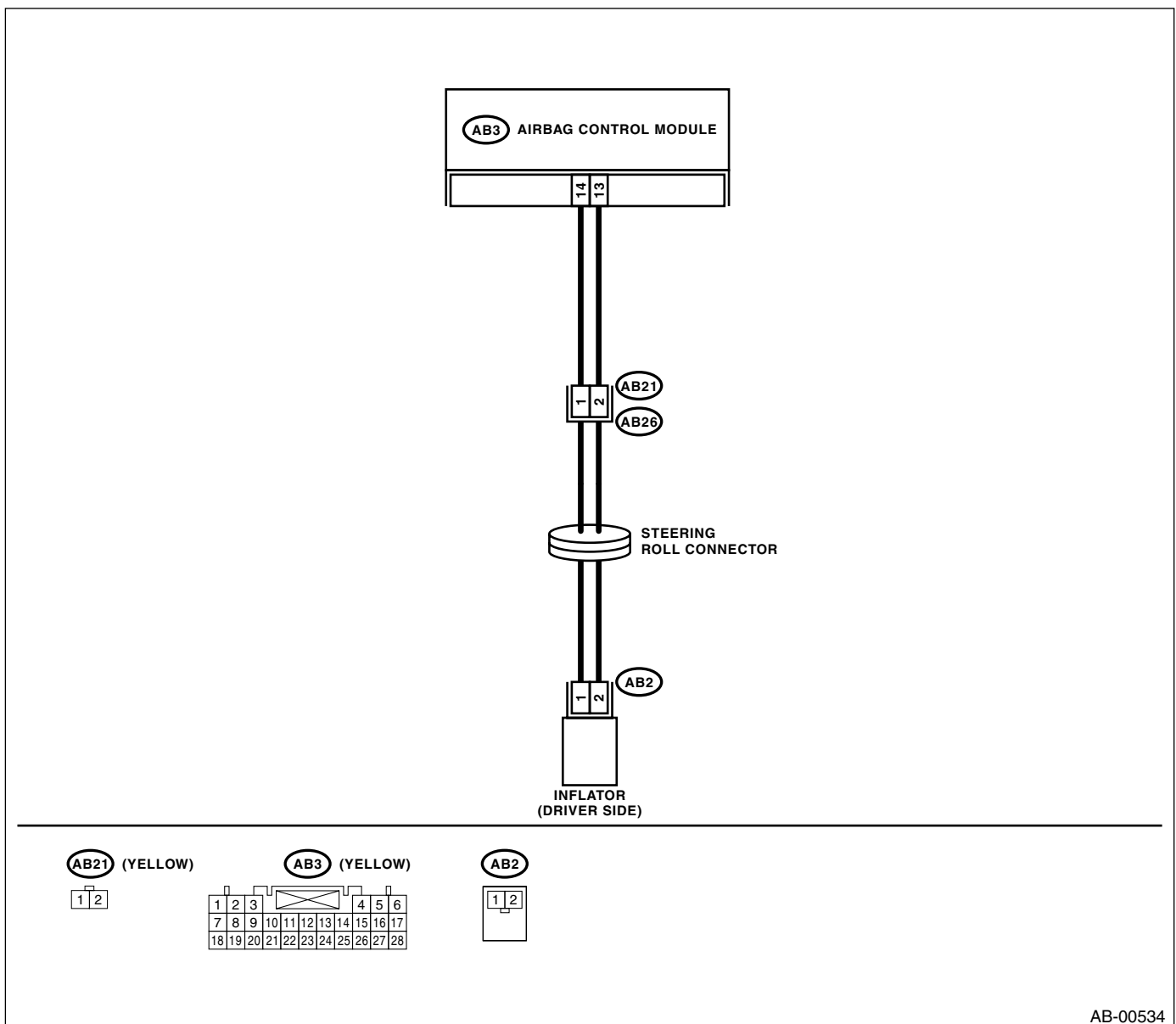
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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-00534

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK DRIVER'S AIRBAG MODULE. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, 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 (AB2) to connector (1N) in test harness N. 4) Connect the airbag resistor to connector (2N) in test harness N. 5) Connect the battery ground cable and turn the ignition switch to ON.	Does the airbag warning light operate properly?	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 to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the test harness N from the connector (AB2). 3) Remove the instrument panel lower cover panel and disconnect the connector (AB26) from (AB21). 4) Connect the connector (1F) in test harness F to connector (AB21). 5) Connect the airbag resistor to connector (3F) in test harness F. 6) Connect the battery ground cable and turn the ignition switch to ON.	Does the airbag warning light operate properly?	Replace the roll connector. <Ref. to AB-18, Roll Connector.>	Go to step 3.
3 CHECK AIRBAG MAIN HARNESS. 1) Turn the ignition switch to 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) Remove the glove box, and disconnect the connectors (AB27) and (AB4). 4) Disconnect the connector (AB3) from the airbag control module, and connect the connector (1R) in test harness R. <Ref. to AB-16, Airbag Control Module.> 5) Connect the battery ground cable and turn the ignition switch to ON. (engine OFF) 6) Measure the voltage between connector (2R) in test harness R and the chassis ground. Connector & terminal (2R) No. 4 (+) — Chassis ground (-): (2R) No. 2 (+) — Chassis ground (-):	Is the voltage less than 1 V?	Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.>	Replace the body harness with airbag main harness.

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

D: DTC 16

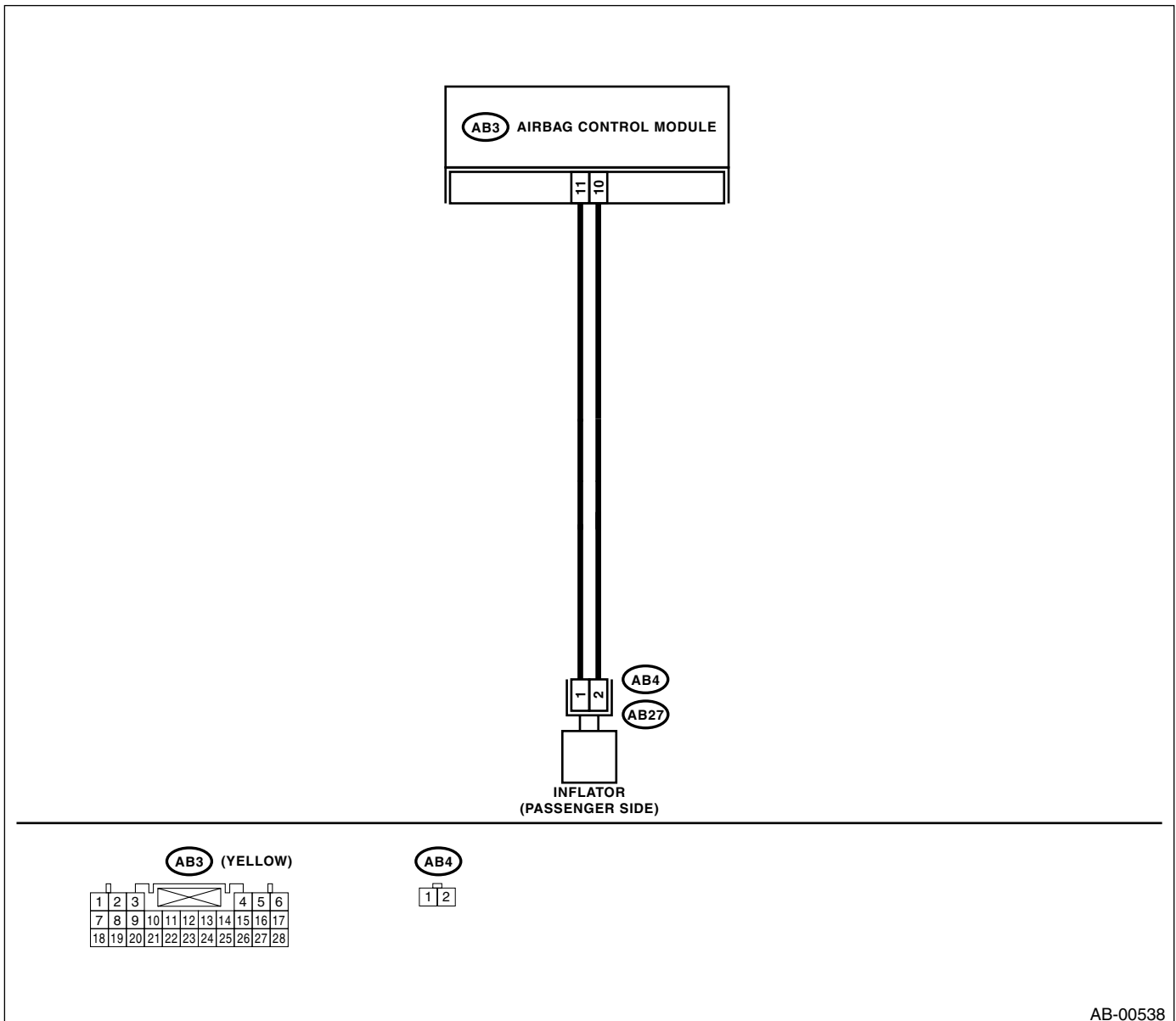
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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-00538

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK PASSENGER'S AIRBAG MODULE. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Remove the glove box. 3) Disconnect the connector (AB27) from (AB4) 4) Connect the connector (1F) in test harness F to connector (AB4). 5) Connect the airbag resistor to connector (3F) in test harness F. 6) Connect the battery ground cable and turn the ignition switch to ON.	Does the airbag warning light operate properly?	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 to 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) Remove the instrument panel lower cover and disconnect the connector (AB26) from (AB21). 4) Disconnect the connector (AB3) from the airbag control module, and connect the connector (1R) in test harness R. <Ref. to AB-16, Airbag Control Module.> 5) Measure the voltage between connector (2R) in test harness R and the chassis ground. Connector & terminal <i>(2R) No. 3 (+) — Chassis ground (-):</i> <i>(2R) No. 5 (+) — Chassis ground (-):</i>	Is the voltage less than 1 V?	Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.>	Replace the body harness with airbag main harness.

E: DTC 21

DIAGNOSIS:

- Airbag control module is faulty.

CAUTION:

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait 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.

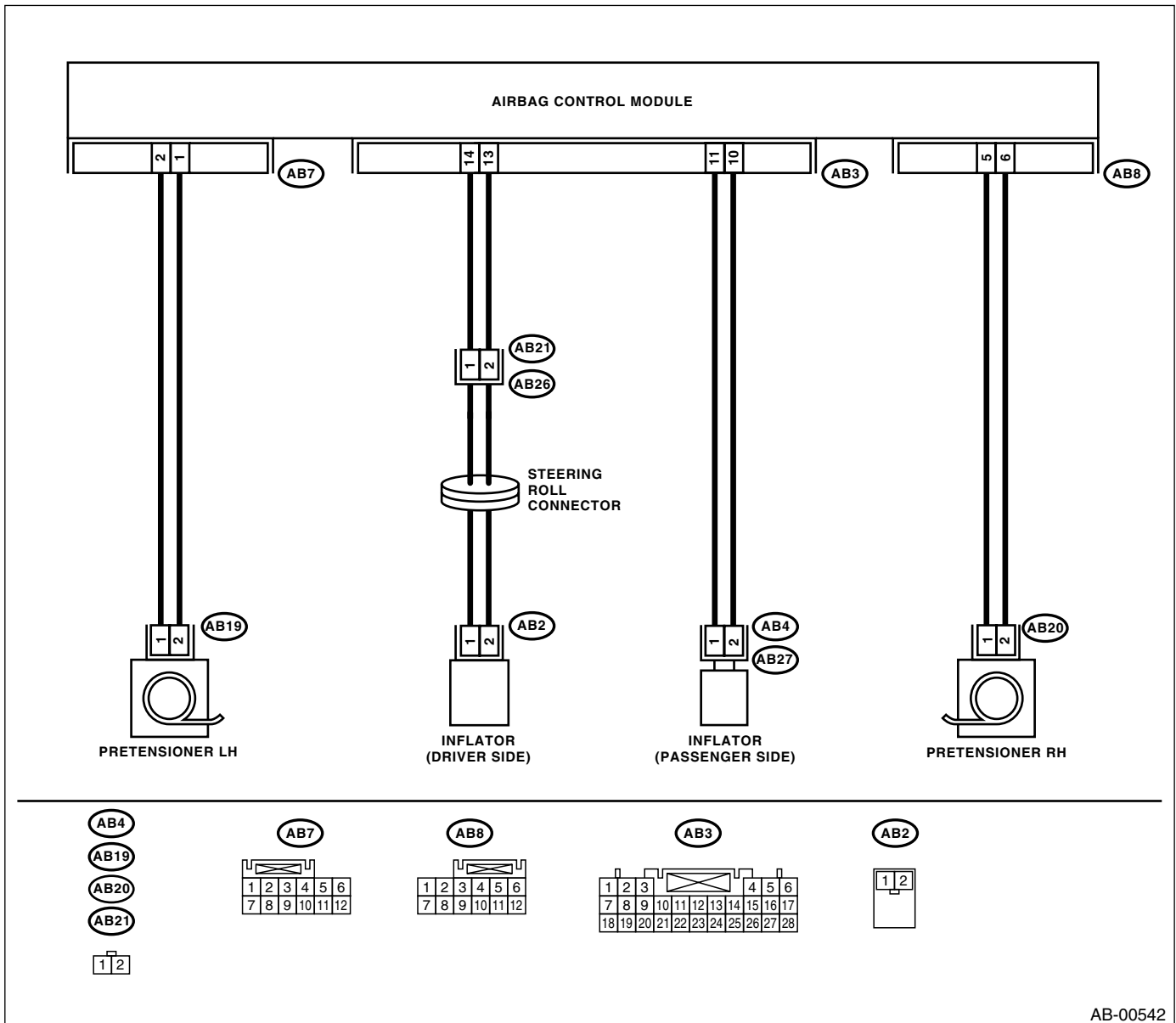
Step	Check	Yes	No
1 CHECK IF DTC 21 IS INDICATED. Read the DTC. <Ref. to AB-24, Read Diagnostic Trouble Code (DTC).>	Is the airbag warning light DTC 21 indicated?	Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.>	Perform clear memory. <Ref. to AB-26, Clear Memory Mode.>

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

F: DTC 22

WIRING DIAGRAM:



AB-00542

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-16, 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-19, Front Sub Sensor.>
- Front seat belt outer with pretensioner of both sides. <Ref. to SB-8, Front Seat Belt.>

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

G: DTC 23

DIAGNOSIS:

(AB3), (AB7) and (AB8) are not connected properly to airbag control module.

CAUTION:

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

	Step	Check	Yes	No
1	CHECK POOR CONTACT IN CONECTORS (AB3), (AB7) AND (AB8). 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connectors (AB3), (AB7) and (AB8) from the airbag control module. <Ref. to AB-16, Airbag Control Module.>	Check if rust or damage appear on the harness connector and the control module connector.	Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.> Replace the body harness with airbag main harness. Replace the body harness with side airbag harness.	Go to step 2.
2	CHECK POOR CONTACT IN CONECTORS (AB3), (AB7) AND (AB8). 1) Ensure that connectors are firmly reconnected. 2) Connect the battery ground cable and turn the ignition switch to ON.	Does the airbag warning light operate properly?	Finish the diagnosis.	Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.>

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

H: DTC 24

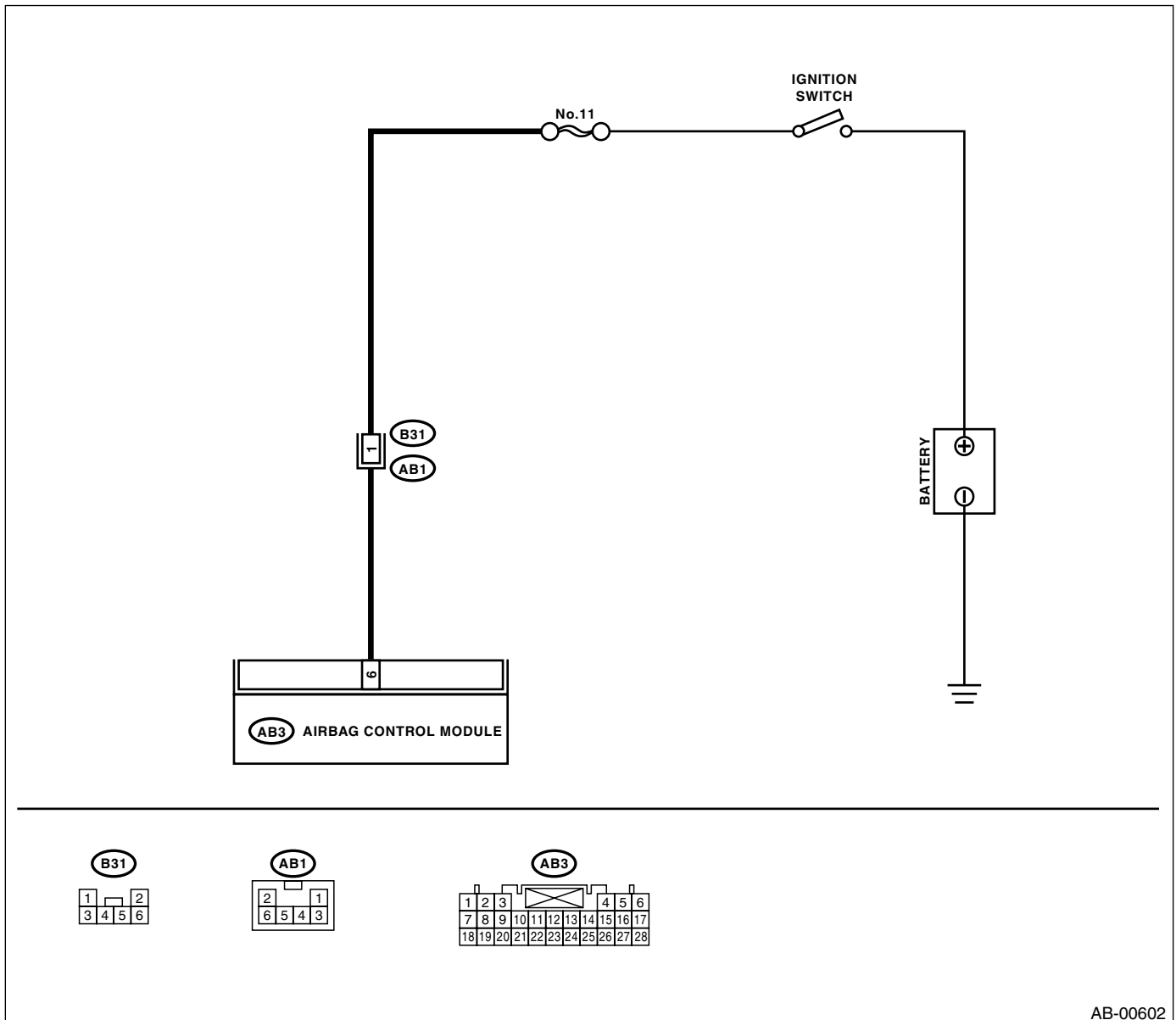
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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-00602

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK AIRBAG CONTROL MODULE. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB3) from the airbag control module. <Ref. to AB-16, Airbag Control Module.> 3) Connect the connector (1R) in test harness R to connector (AB3). 4) Connect the battery ground cable and turn the ignition switch to ON. 5) Measure the voltage between connector (2R) in test harness R and chassis ground. Connector & terminal (2R) No. 1 (+) — Chassis ground (-):	Is the voltage more than 10 V?	Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.>	Go to step 2.
2 CHECK AIRBAG MAIN HARNESS. 1) While checking control module, turn the ignition switch to 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) Connect the connector (2M) in test harness M to connector (AB1). 4) Measure the resistance between connector (5M) in test harness M and the connector (2R) in test harness R. Connector & terminal (5M) No. 2 — (2R) No. 1:	Is the resistance less than 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: (2R) No. 1 — Chassis ground:	Is the resistance more than 1 MΩ?	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 the fuse No. 11 blown out?	Replace the fuse No. 11. If fuse No. 11 is blown out again, repair the body harness.	Repair the body harness.

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

I: DTC 25

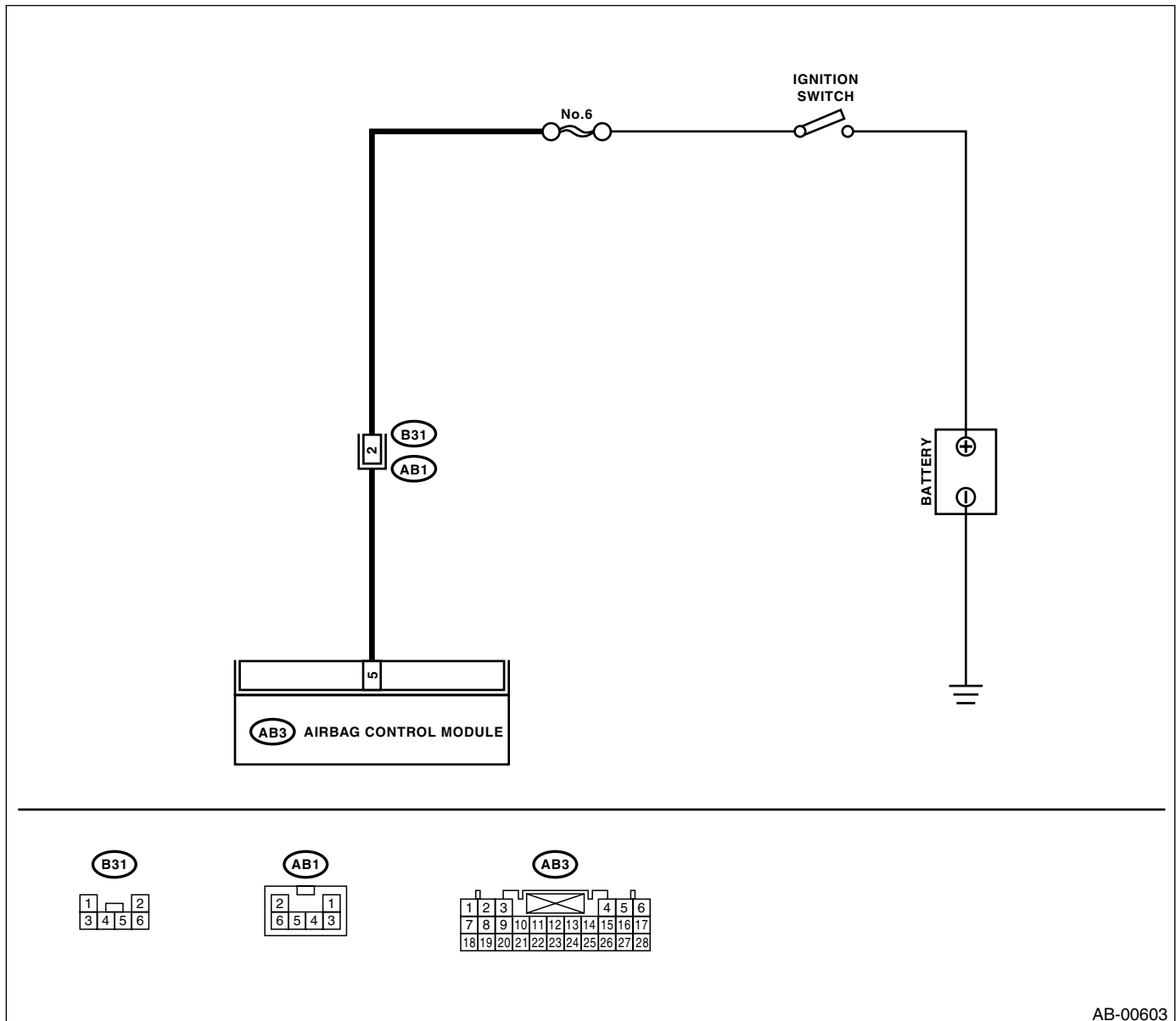
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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-00603

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK AIRBAG CONTROL MODULE. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB3) from airbag control module. <Ref. to AB-16, Airbag Control Module.> 3) Connect the connector (1R) in test harness R to connector (AB3). 4) Connect the battery ground cable, and turn the ignition switch to ON. 5) Measure the voltage between the connector (2R) in test harness R and the chassis ground. Connector & terminal (2R) No. 6 (+) — Chassis ground (-):	Is the voltage more than 10 V?	Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.>	Go to step 2.
2 CHECK AIRBAG MAIN HARNESS. 1) While checking control module, turn the ignition switch to 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) Connect the connector (2M) in test harness M to the airbag connector (AB1). 4) Measure the resistance between the connector (5M) in test harness M and the connector (2R) in test harness R. Connector & terminal (5M) No. 4 — (2R) No. 6:	Is the resistance less than 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: (2R) No. 6 — Chassis ground:	Is the resistance more than 1 M Ω ?	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 No. 6 fuse (in joint box) and perform visual inspection.	Is the fuse No. 6 blown out?	Replace the fuse No. 6. If fuse No. 6 is blown out again, repair the body harness.	Repair the body harness.

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

J: DTC 31

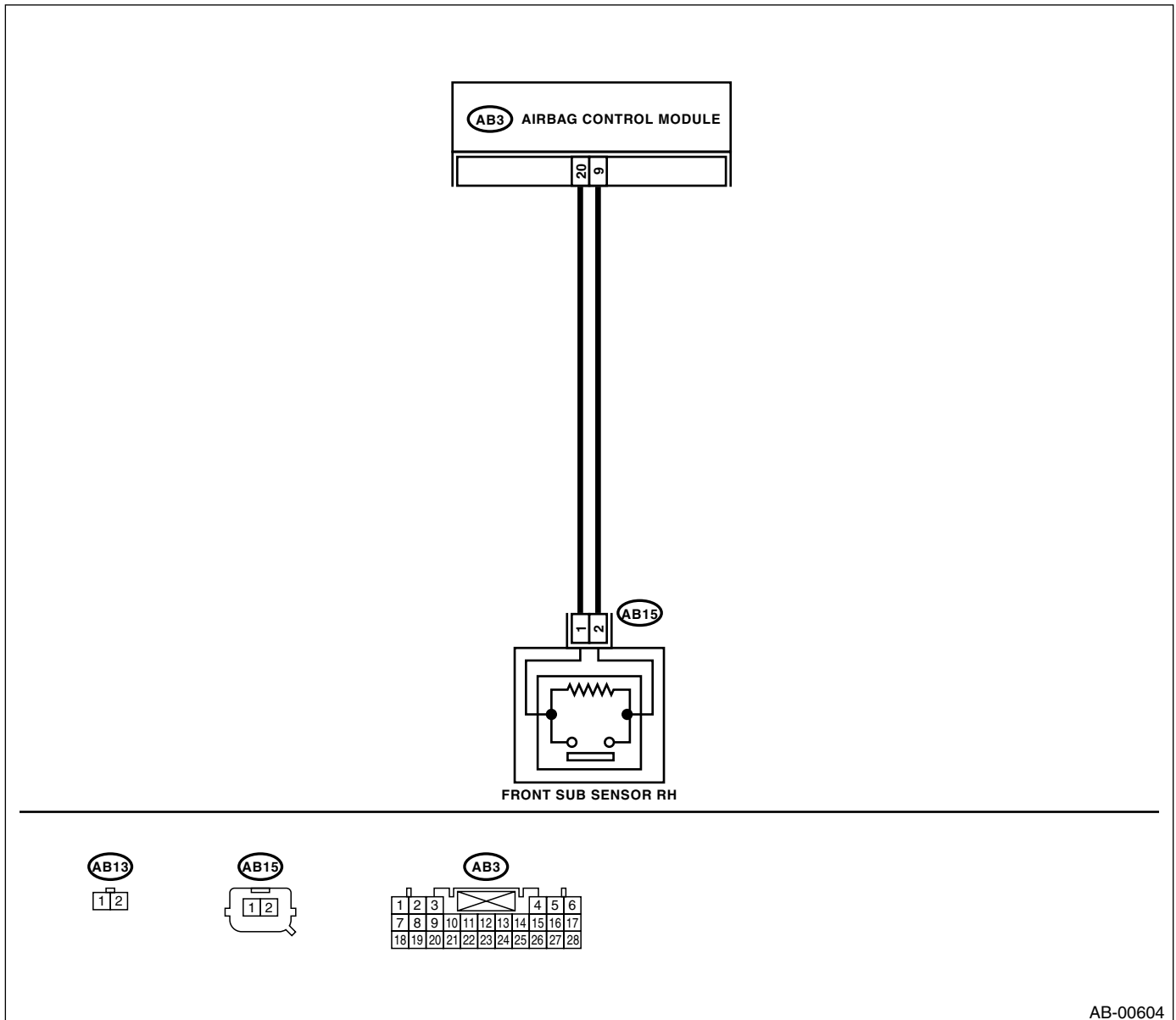
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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-00604

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK FRONT SUB-SENSOR (RH) AND FRONT SUB-SENSOR HARNESS (RH). 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB3) from the airbag control module, and connect the connector (1R) in test harness R. <Ref. to AB-16, Airbag Control Module.> 3) Measure the resistance of the connector (3R) in test harness R. Connector & terminal (3R) No. 7 — (3R) No. 9:	Is the resistance 750 Ω — 1 k Ω ?	Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.>	Go to step 2.
2 CHECK FRONT SUB-SENSOR (RH) AND FRONT SUB-SENSOR HARNESS (RH). Measure the resistance between connector (3R) in test harness R and the chassis ground. Connector & terminal (3R) No. 7 — Chassis ground: (3R) No. 9 — Chassis ground:	Is the resistance more than 1 M Ω ?	Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.>	Go to step 3.
3 CHECK AIRBAG MAIN HARNESS AND FRONT SUB-SENSOR HARNESS (RH). 1) Disconnect the connector (AB15) from the front sub-sensor. <Ref. to AB-19, Front Sub Sensor.> 2) Connect the connector (1H) in test harness H to connector (AB15). 3) Measure the resistance between connector (3R) in test harness R and connector (3H) in test harness H. Connector & terminal (3R) No. 7 — (3H) No. 6: (3R) No. 9 — (3H) No. 5:	Is the resistance less than 10 Ω ?	Go to step 4.	Replace the body harness with airbag main harness.
4 CHECK AIRBAG MAIN HARNESS AND FRONT SUB-SENSOR HARNESS (RH). Measure the resistance between connector (3R) in test harness R and the chassis ground. Connector & terminal (3R) No. 7 — Chassis ground: (3R) No. 9 — Chassis ground:	Is the resistance more than 1 M Ω ?	Finish the diagnosis.	Replace the front sub-sensor (RH). <Ref. to AB-19, Front Sub Sensor.>

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

K: DTC 32

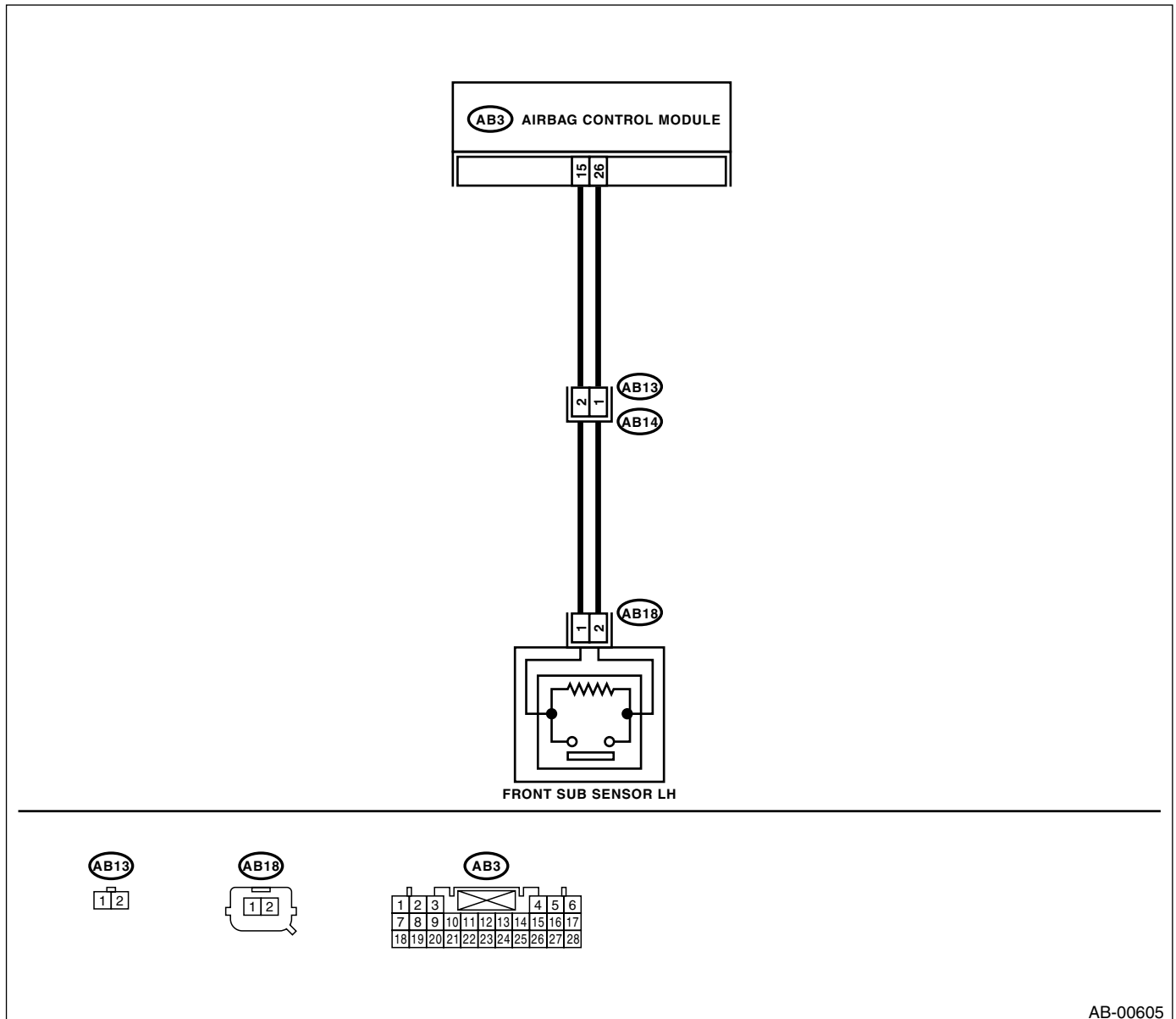
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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-00605

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
<p>1</p> <p>CHECK FRONT SUB-SENSOR (LH) AND FRONT SUB-SENSOR HARNESS (LH). 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB3) from the airbag control module, and connect connector (1R) in the test harness R to connector (AB3). <Ref. to AB-16, Airbag Control Module.> 3) Measure the resistance of the connector (3R) in the test harness R.</p> <p>Connector & terminal (3R) No. 8 — (3R) No. 6:</p>	<p>Is the resistance 750 Ω — 1 kΩ?</p>	<p>Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.></p>	<p>Go to step 2.</p>
<p>2</p> <p>CHECK FRONT SUB-SENSOR (LH) AND FRONT SUB-SENSOR HARNESS (LH). Measure the resistance between connector (3R) in test harness R and the chassis ground.</p> <p>Connector & terminal (3R) No. 8 — Chassis ground: (3R) No. 6 — Chassis ground:</p>	<p>Is the resistance more than 1 MΩ?</p>	<p>Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.></p>	<p>Go to step 3.</p>
<p>3</p> <p>CHECK AIRBAG MAIN HARNESS AND FRONT SUB-SENSOR HARNESS (LH). 1) Disconnect the connector (AB18) from the front sub-sensor. <Ref. to AB-19, Front Sub Sensor.> 2) Connect the connector (1H) in test harness H to connector (AB18). 3) Measure the resistance between connector (3R) in test harness R and connector (3H) in test harness H.</p> <p>Connector & terminal (3R) No. 6 — (3H) No. 5: (3R) No. 8 — (3H) No. 6:</p>	<p>Is the resistance less than 10 Ω?</p>	<p>Go to step 4.</p>	<p>Go to step 5.</p>
<p>4</p> <p>CHECK AIRBAG MAIN HARNESS AND FRONT SUB-SENSOR HARNESS (LH). Measure the resistance between connector (3R) in test harness R and the chassis ground.</p> <p>Connector & terminal (3R) No. 6 — Chassis ground: (3R) No. 8 — Chassis ground:</p>	<p>Is the resistance more than 1 MΩ?</p>	<p>Go to step 9.</p>	<p>Go to step 5.</p>
<p>5</p> <p>CHECK AIRBAG MAIN HARNESS. 1) Disconnect the connector (AB13) from (AB14), and connect the connector (1F) in test harness F to (AB13). 2) Measure the resistance between connector (3R) in test harness R and connector (3F) in test harness F.</p> <p>Connector & terminal (3R) No. 6 — (3F) No. 3: (3R) No. 8 — (3F) No. 4:</p>	<p>Is the resistance less than 10 Ω?</p>	<p>Go to step 6.</p>	<p>Replace the body harness with airbag main harness.</p>
<p>6</p> <p>CHECK AIRBAG MAIN HARNESS. Measure the resistance between connector (3R) in the test harness R and the chassis ground.</p> <p>Connector & terminal (3R) No. 6 — Chassis ground: (3R) No. 8 — Chassis ground:</p>	<p>Is the resistance more than 1 MΩ?</p>	<p>Go to step 7.</p>	<p>Replace the body harness with airbag main harness.</p>

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
7 CHECK FRONT SUB-SENSOR HARNESS (LH). 1)Connect the connector (2F) in test harness F to connector (AB14). 2)Measure the resistance between connector (3H) in test harness H and connector (3F) in test harness F. <i>Connector & terminal</i> <i>(3F) No. 5 — (3H) No. 5:</i> <i>(3F) No. 6 — (3H) No. 6:</i>	Is the resistance less than 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 (3F) in test harness F and the chassis ground. <i>Connector & terminal</i> <i>(3F) No. 5 — Chassis ground:</i> <i>(3F) No. 6 — Chassis ground:</i>	Is the resistance more than 1 M Ω ?	Go to step 9 .	Replace the body harness with front sub-sensor harness (LH).
9 CHECK FRONT SUB-SENSOR (LH). 1)Connect the connector (2H) in test harness H to front sub-sensor (LH). 2)Measure the resistance of the connector (3H) in test harness H. <i>Connector & terminal</i> <i>(3H) No. 3 — (3H) No. 4:</i>	Is the resistance 750 Ω — 1 k Ω ?	Go to step 10 .	Replace the front sub-sensor (LH). <Ref. to AB-19, Front Sub Sensor.>
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>	Is the resistance more than 1 M Ω ?	Finish the diagnosis.	Replace the front sub-sensor (LH). <Ref. to AB-19, Front Sub Sensor.>

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

L: DTC 41

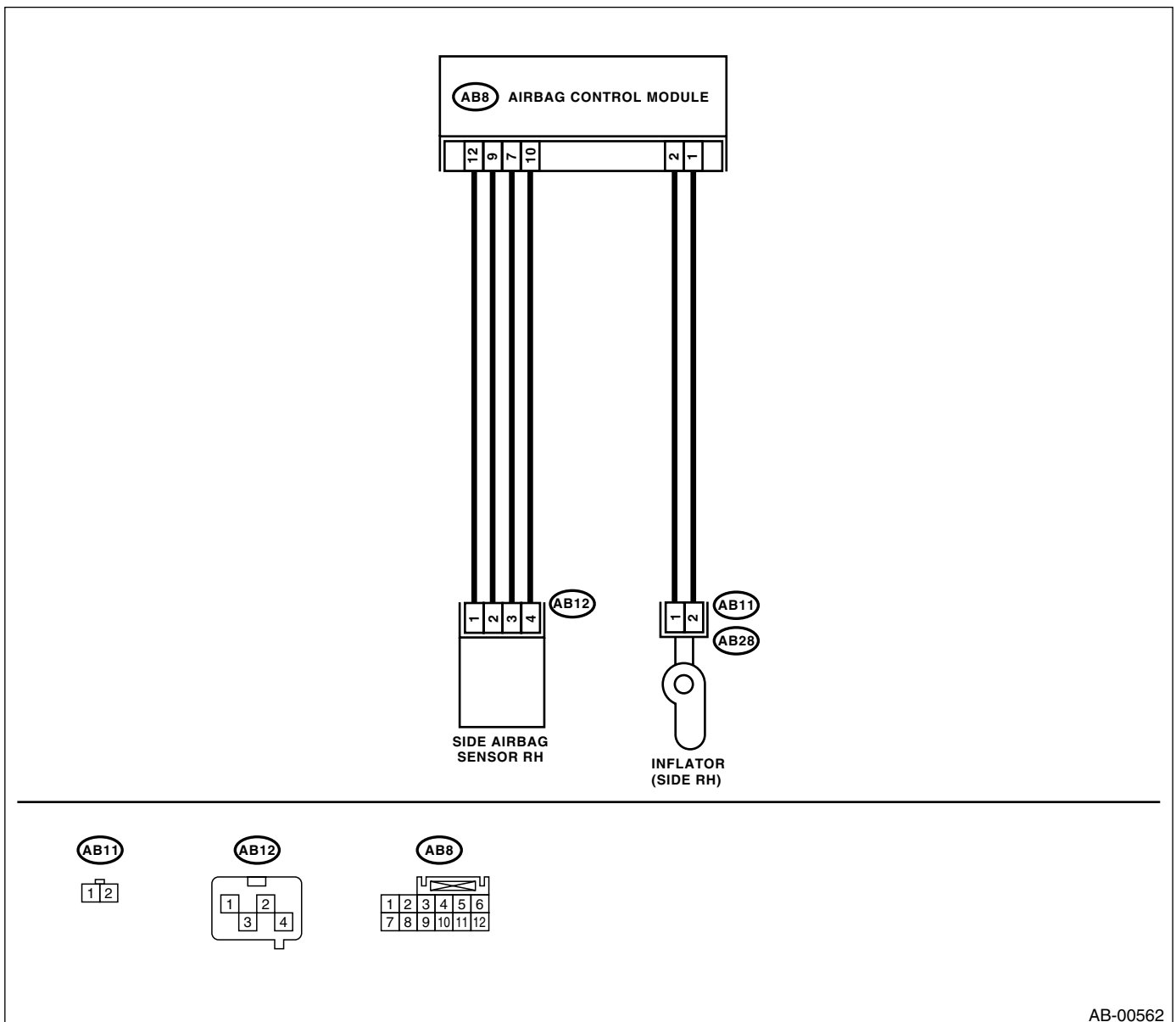
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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-00562

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK SIDE AIRBAG MODULE. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB20) from the seat belt pretensioner (RH). <Ref. to SB-8, Front Seat Belt.> 3) Disconnect the connector (AB28) from (AB11), and connect the connector (1F) in test harness F to (AB11). 4) Connect the airbag resistor to connector (3F) in test harness F. 5) Connect the battery ground cable, and turn the ignition switch to ON.	Does the airbag warning light operate properly?	Replace the front seat with side airbag module (RH). <Ref. to SE-6, Front Seat.>	Go to step 2.
2 CHECK SIDE AIRBAG HARNESS (RH). 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the airbag resistor from test harness F. 3) Disconnect the connector (AB8) from air bag control module. <Ref. to AB-16, Airbag Control Module.> 4) Connect the connector (1R) in test harness R to connector (AB8). 5) Measure the resistance between connector (3R) in test harness R and connector (3F) in test harness F. <i>Connector & terminal</i> <i>(3R) No. 20 — (3F) No. 4:</i> <i>(3R) No. 18 — (3F) No. 3:</i>	Is the resistance less than 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 (3R) in test harness R. <i>Connector & terminal</i> <i>(3R) No. 20 — (3R) No. 18:</i>	Is the resistance more than 1 M Ω ?	Go to step 4.	Replace the body harness with side airbag harness.
4 CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance of the connector (3F) in test harness F. <i>Connector & terminal</i> <i>(3F) No. 3 — (3F) No. 4:</i>	Is the resistance more than 1 M Ω ?	Go to step 5.	Replace the body harness with side airbag harness.
5 CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance between connector (3F) in test harness F and the chassis ground. <i>Connector & terminal</i> <i>(3F) No. 3 — Chassis ground:</i> <i>(3F) No. 4 — Chassis ground:</i>	Is the resistance more than 1 M Ω ?	Go to step 6.	Replace the body harness with side airbag harness.
6 CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance between connector (3R) in test harness R and the chassis ground. <i>Connector & terminal</i> <i>(3R) No. 20 — Chassis ground:</i> <i>(3R) No. 18 — Chassis ground:</i>	Is the resistance more than 1 M Ω ?	Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.>	Replace the body harness with side airbag harness.

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

M: DTC 42

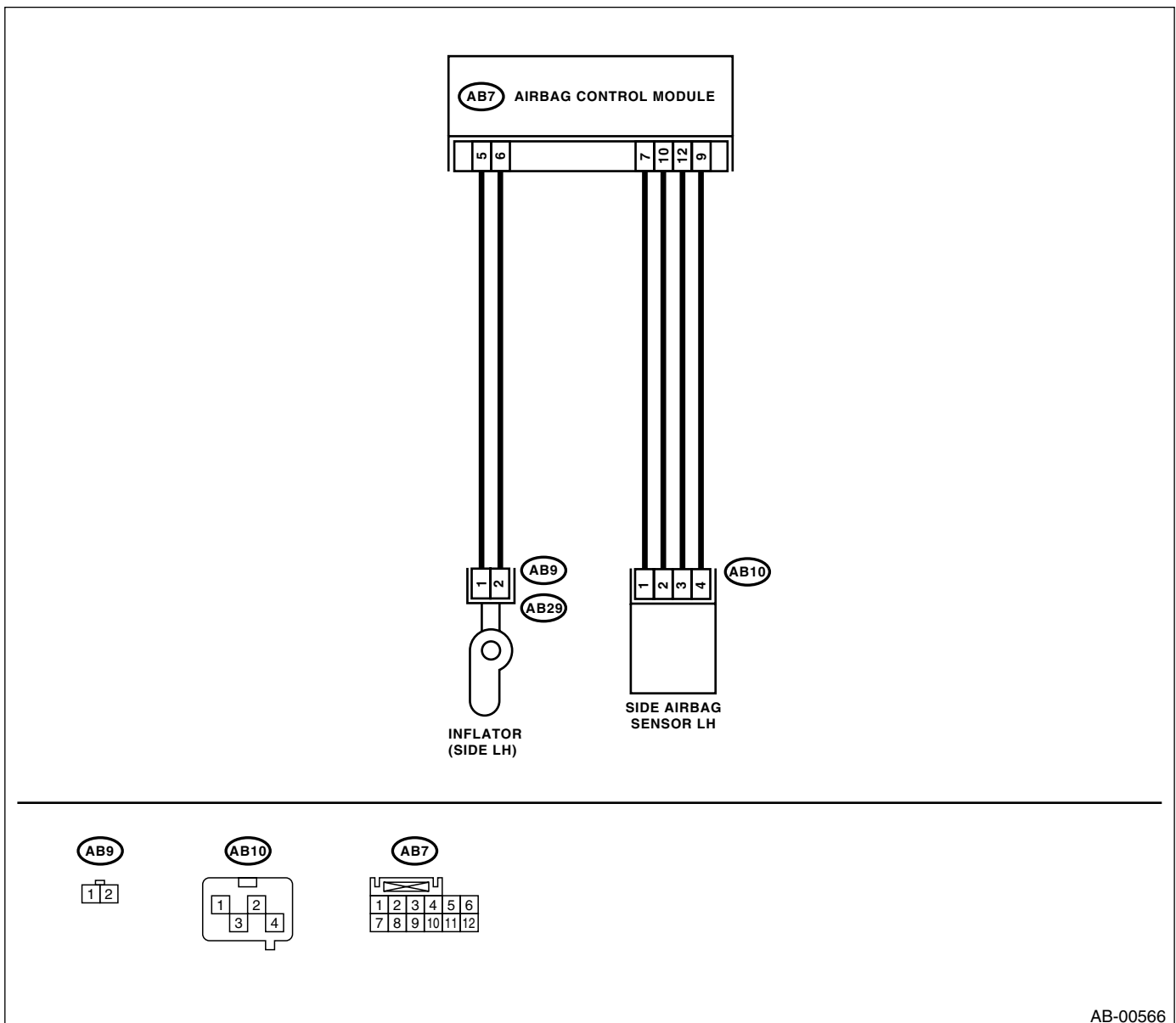
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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-00566

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK SIDE AIRBAG MODULE. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB19) from the seat belt pretensioner (LH). <Ref. to SB-8, Front Seat Belt.> 3) Disconnect the connector (AB29) from (AB9), and connect the connector (1F) in test harness F to (AB9). 4) Connect the airbag resistor to connector (3F) in test harness F. 5) Connect the battery ground cable, and turn the ignition switch to ON.	Does the airbag warning light operate properly?	Replace the front seat with side airbag module (LH). <Ref. to SE-6, Front Seat.>	Go to step 2.
2 CHECK SIDE AIRBAG HARNESS (LH). 1) Turn ignition switch to 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 (AB7) from the airbag control module. <Ref. to AB-16, Airbag Control Module.> 4) Connect the connector (1R) in test harness R to connector (AB7). 5) Measure the resistance between connector (3R) in test harness R and connector (3F) in test harness F. <i>Connector & terminal</i> <i>(3R) No. 12 — (3F) No. 3:</i> <i>(3R) No. 10 — (3F) No. 4:</i>	Is the resistance less than 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 (3R) in test harness R. <i>Connector & terminal</i> <i>(3R) No. 12 — (3R) No. 10:</i>	Is the resistance more than 1 MΩ?	Go to step 4.	Replace the body harness with side airbag harness.
4 CHECK SIDE AIRBAG HARNESS (LH). Measure the resistance of the connector (3F) in test harness F. <i>Connector & terminal</i> <i>(3F) No. 3 — (3F) No. 4:</i>	Is the resistance more than 1 MΩ?	Go to step 5.	Replace the body harness with side airbag harness.
5 CHECK SIDE AIRBAG HARNESS (LH). Measure the resistance between connector (3F) in test harness F and the chassis ground. <i>Connector & terminal</i> <i>(3F) No. 3 — Chassis ground:</i> <i>(3F) No. 4 — Chassis ground:</i>	Is the resistance more than 1 MΩ?	Go to step 6.	Replace the body harness with side airbag harness.
6 CHECK SIDE AIRBAG HARNESS (LH). Measure the resistance between connector (3R) in test harness R and the chassis ground. <i>Connector & terminal</i> <i>(3R) No. 12 — Chassis ground:</i> <i>(3R) No. 10 — Chassis ground:</i>	Is the resistance more than 1 MΩ?	Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.>	Replace the body harness with side airbag harness.

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

N: DTC 45

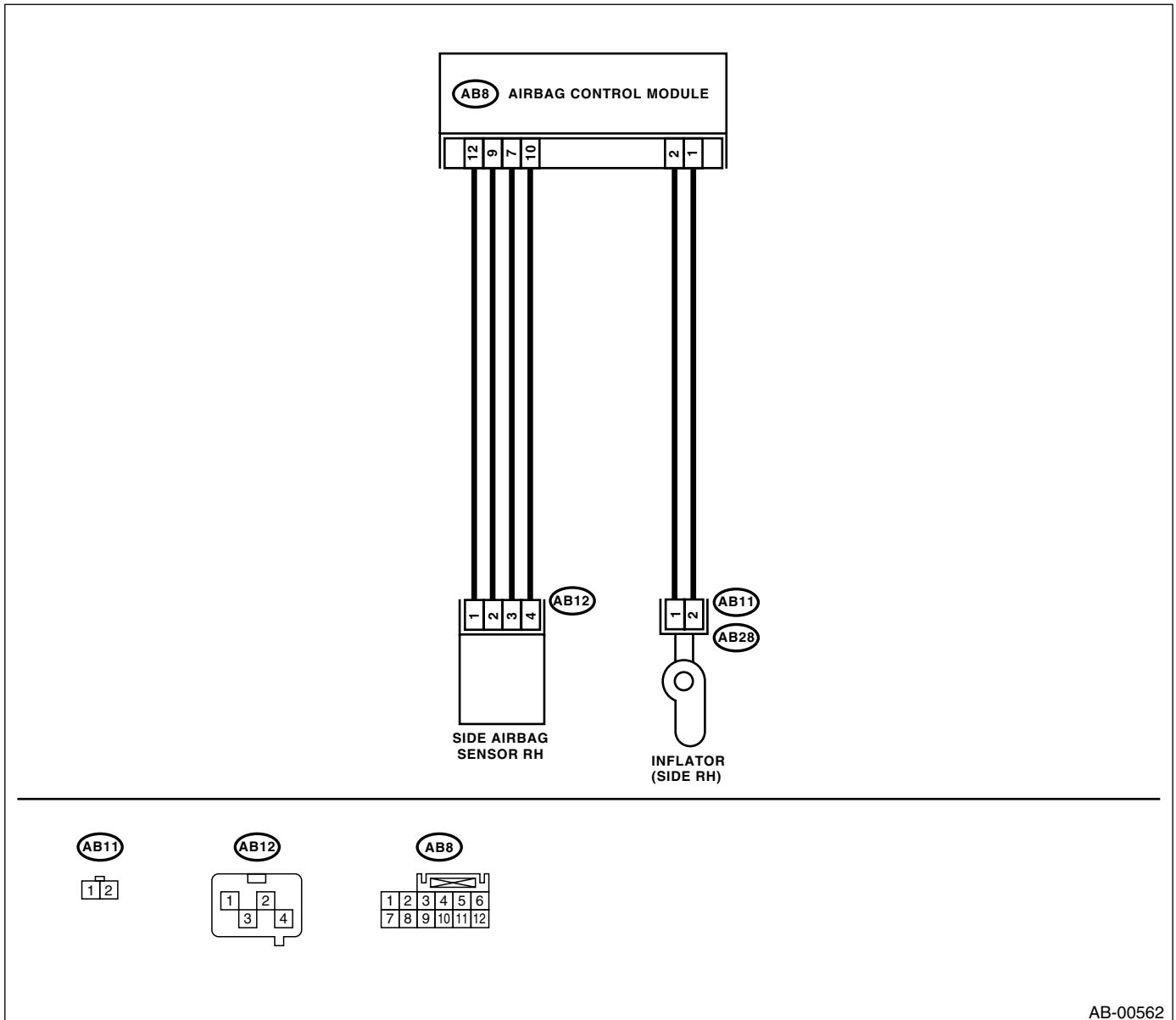
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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-00562

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK SIDE AIRBAG MODULE. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB20) from the seat belt pretensioner (RH). <Ref. to SB-8, Front Seat Belt.> 3) Disconnect the connector (AB28) from (AB11), and connect the connector (1F) in test harness F to (AB11). 4) Connect the airbag resistor to connector (3F) in test harness F. 5) Connect the battery ground cable, and turn the ignition switch to ON.	Does the airbag warning light operate properly?	Replace the front seat with side airbag module (RH). <Ref. to SE-6, Front Seat.>	Go to step 2.
2 CHECK SIDE AIRBAG HARNESS (RH). 1) Turn the ignition switch to 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 (AB8) from the airbag control module. <Ref. to AB-16, Airbag Control Module.> 4) Connect the connector (1R) in test harness R to connector (AB8). 5) Connect the battery ground cable, and turn the ignition switch to ON. 6) Measure the voltage between connector (3R) in test harness R and the chassis ground. Connector & terminal <i>(3R) No. 20 (+) — Chassis ground (-):</i> <i>(3R) No. 18 (+) — Chassis ground (-):</i>	Is the voltage less than 1 V?	Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.>	Replace the body harness with side airbag harness.

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

O: DTC 46

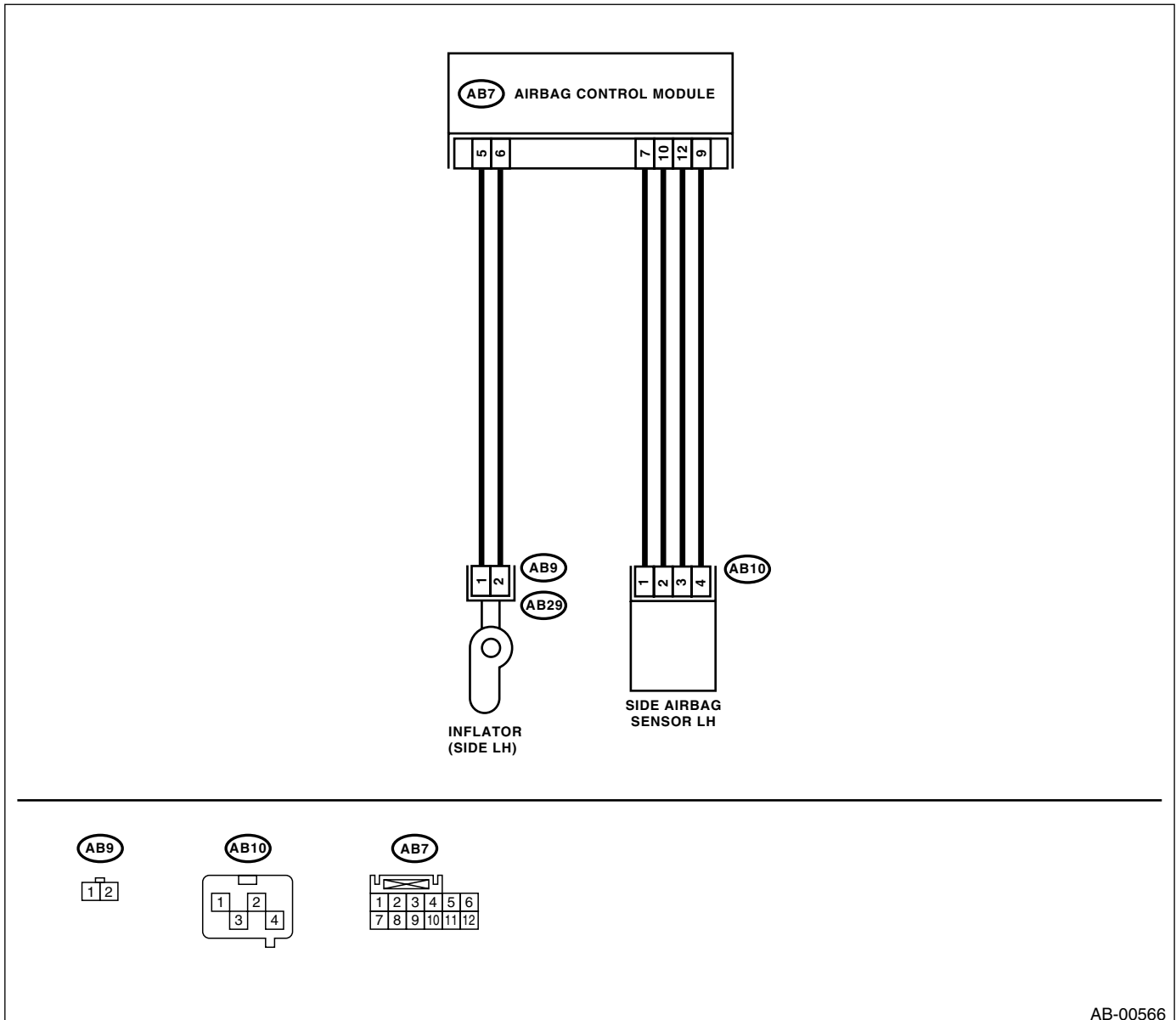
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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-00566

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
<p>1 CHECK SIDE AIRBAG MODULE. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB19) from the seat belt pretensioner (LH). <Ref. to SB-8, Front Seat Belt.> 3) Disconnect the connector (AB29) from (AB9), and connect the connector (1F) in test harness F to (AB9). 4) Connect the airbag resistor to connector (3F) in test harness F. 5) Connect the battery ground cable and turn the ignition switch to ON.</p>	<p>Does the airbag warning light operate properly?</p>	<p>Replace the front seat with side airbag module (LH). <Ref. to SE-6, Front Seat.></p>	<p>Go to step 2.</p>
<p>2 CHECK SIDE AIRBAG HARNESS (LH). 1) Turn the ignition switch to 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 (AB7) from the airbag control module. <Ref. to AB-16, Airbag Control Module.> 4) Connect the connector (1R) in test harness R to connector (AB7). 5) Connect the battery ground cable, and turn the ignition switch to ON. 6) Measure the voltage between connector (3R) in test harness R and the chassis ground. Connector & terminal <i>(3R) No. 12 (+) — Chassis ground (-):</i> <i>(3R) No. 10 (+) — Chassis ground (-):</i></p>	<p>Is the voltage less than 1 V?</p>	<p>Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.></p>	<p>Replace the body harness with side airbag harness.</p>

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

P: DTC 51

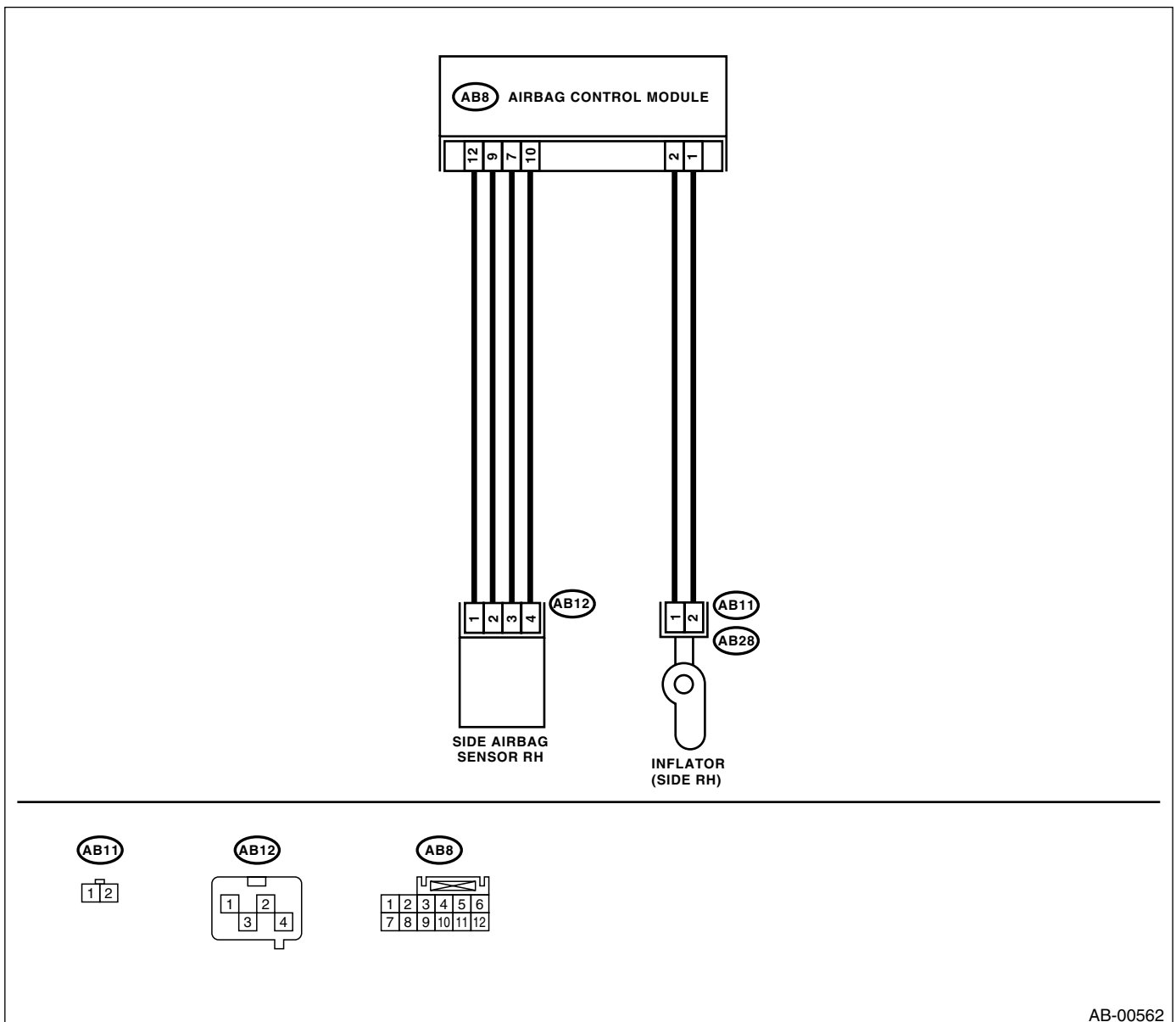
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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-00562

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
<p>1</p> <p>CHECK SIDE AIRBAG HARNESS (RH). 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB20) from the seat belt pretensioner (RH). <Ref. to SB-8, Front Seat Belt.> 3) Disconnect the connector (AB28) from (AB11). 4) Disconnect the connector (AB8) from the airbag control module. <Ref. to AB-16, Airbag Control Module.> 5) Connect the connector (1R) in test harness R to the connector (AB8). 6) Disconnect the connector (AB12) from the side airbag sensor (RH), and connect the connector (1G) in test harness G to connector (AB12). 7) Measure the resistance between connector (4R) in test harness R and connector (3G) in test harness G.</p> <p>Connector & terminal <i>(4R) No. 5 — (3G) No. 2:</i> <i>(4R) No. 7 — (3G) No. 1:</i> <i>(4R) No. 8 — (3G) No. 5:</i> <i>(4R) No. 6 — (3G) No. 4:</i></p>	<p>Is the resistance less than 10 Ω?</p>	<p>Go to step 2.</p>	<p>Replace the body harness with side airbag harness.</p>
<p>2</p> <p>CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance between connector (4R) in test harness R and the chassis ground.</p> <p>Connector & terminal <i>(4R) No. 5 — Chassis ground:</i> <i>(4R) No. 7 — Chassis ground:</i> <i>(4R) No. 8 — Chassis ground:</i> <i>(4R) No. 6 — Chassis ground:</i></p>	<p>Is the resistance more than 1 MΩ?</p>	<p>Replace the side airbag sensor (RH). <Ref. to AB-17, Side Airbag Sensor.> When sensor replacement is not OK, replace the airbag control module. <Ref. to AB-16, Airbag Control Module.></p>	<p>Replace the body harness with side airbag harness.</p>

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Q: DTC 52

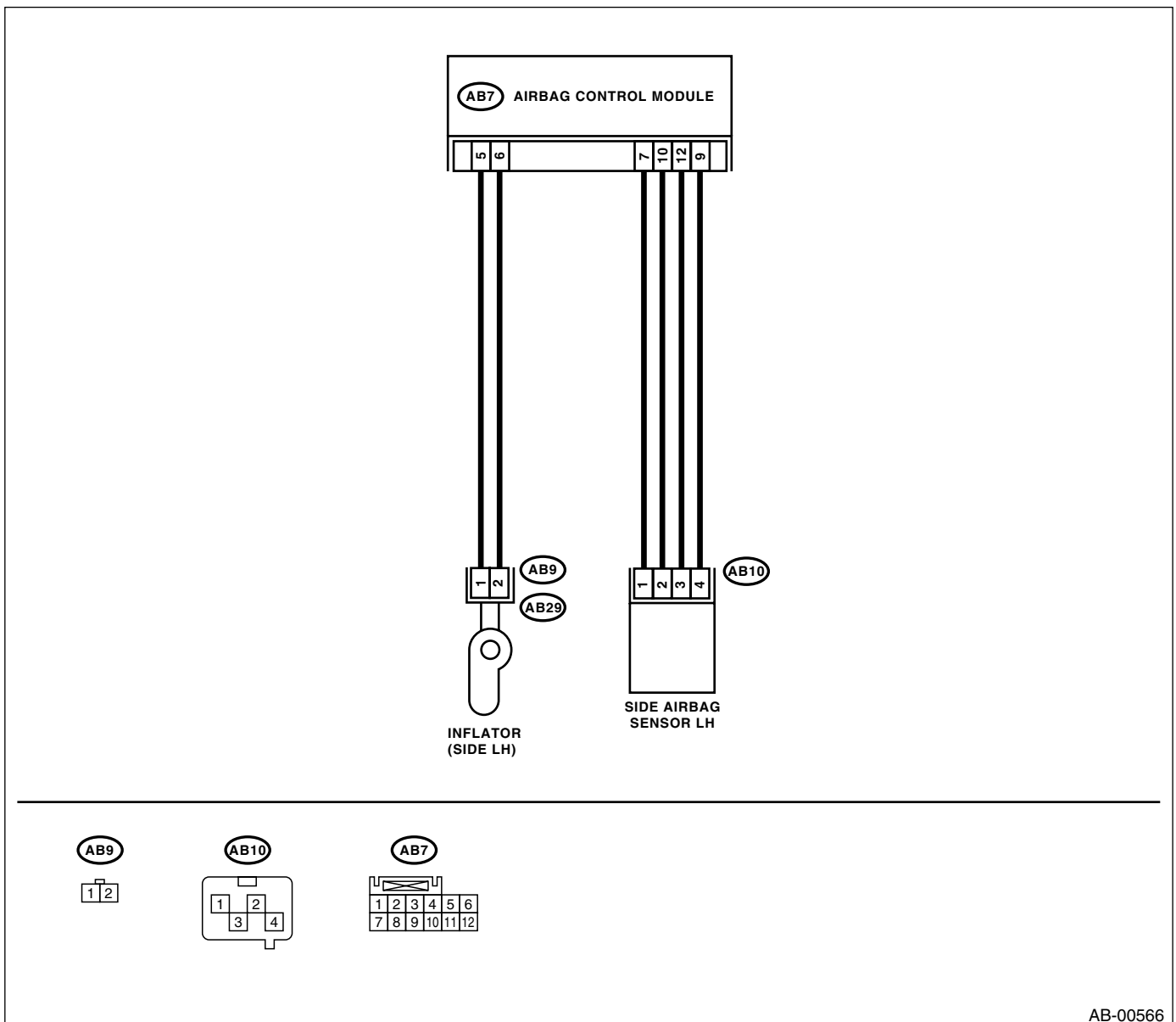
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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-00566

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
<p>1</p> <p>CHECK SIDE AIRBAG HARNESS (LH). 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB19) from the seat belt pretensioner (LH). <Ref. to SB-8, Front Seat Belt.> 3) Disconnect the connector (AB29) from (AB9). 4) Disconnect the connector (AB7) from the airbag control module. <Ref. to AB-16, Airbag Control Module.> 5) Connect the connector (1R) in test harness R to connector (AB7). 6) Disconnect the connector (AB10) from the side airbag sensor (LH), and connect the connector (1G) in test harness G to connector (AB10). 7) Measure the resistance between connector (4R) in test harness R and connector (3G) in test harness G.</p> <p>Connector & terminal (4R) No. 3 — (3G) No. 4: (4R) No. 1 — (3G) No. 5: (4R) No. 2 — (3G) No. 1: (4R) No. 4 — (3G) No. 2:</p>	<p>Is the resistance less than 10 Ω?</p>	<p>Go to step 2.</p>	<p>Replace the body harness with side airbag harness.</p>
<p>2</p> <p>CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance between connector (4R) in test harness R and the chassis ground.</p> <p>Connector & terminal (4R) No. 3 — Chassis ground: (4R) No. 1 — Chassis ground: (4R) No. 2 — Chassis ground: (4R) No. 4 — Chassis ground:</p>	<p>Is the resistance more than 1 MΩ?</p>	<p>Replace the side airbag sensor (LH). <Ref. to AB-17, Side Airbag Sensor.> When sensor replacement is not OK, replace the airbag control module. <Ref. to AB-16, Airbag Control Module.></p>	<p>Replace the body harness with side airbag harness.</p>

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

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-17, 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-17, 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-16, Airbag Control Module.>
- Front seat with side airbag module. (Operating side) <Ref. to SE-6, Front Seat.>
- Side airbag sensor. (Operating side) <Ref. to AB-17, Side Airbag Sensor.>

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

U: DTC 61

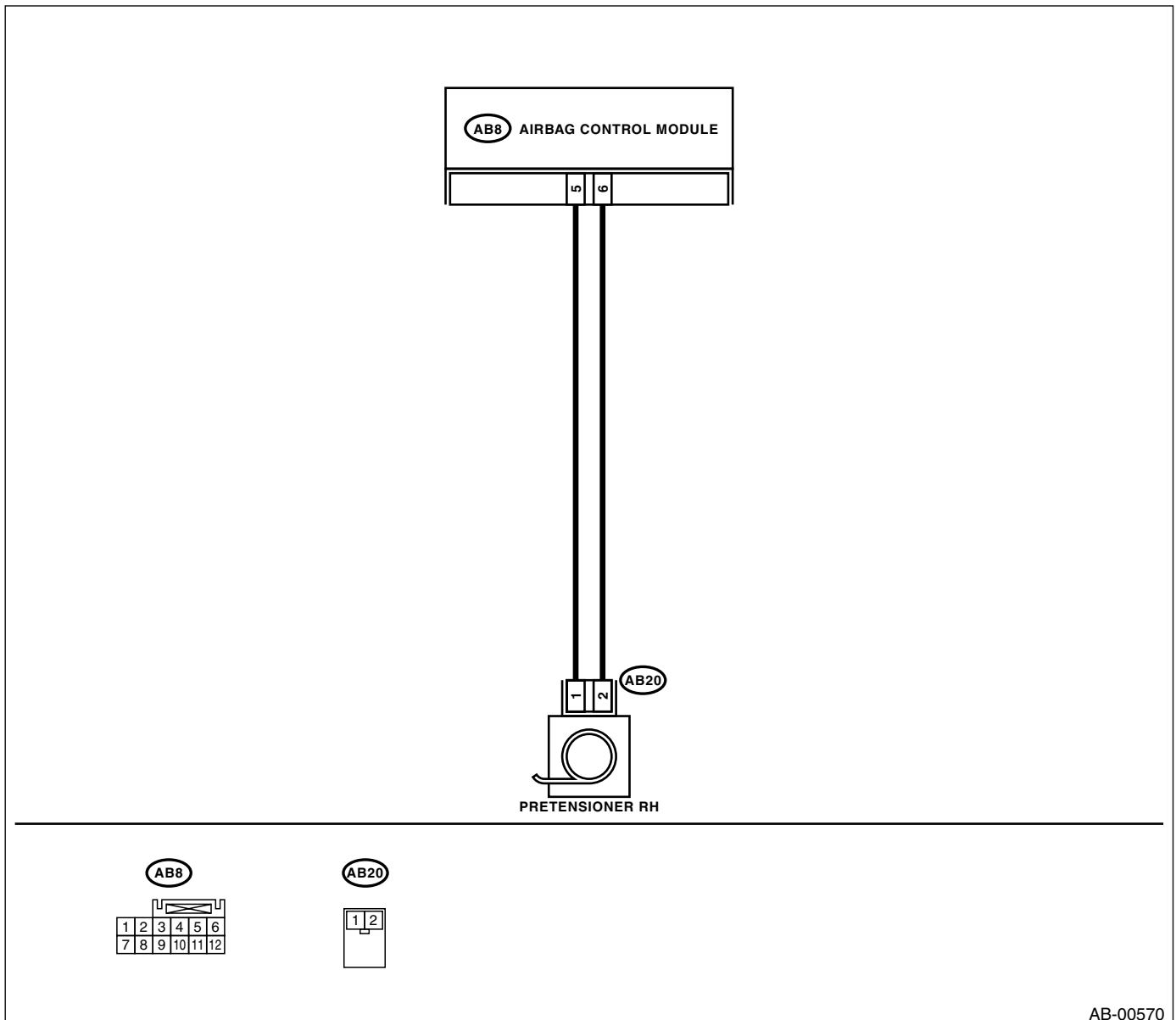
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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-00570

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK SEAT BELT PRETENSIONER. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB20) from the seat belt pretensioner (RH). <Ref. to SB-8, Front Seat Belt.> 3) Connect the connector (1N) in test harness N to (AB20). 4) Connect the airbag resistor to connector (2N) in test harness N. 5) Connect the battery ground cable and turn the ignition switch to ON.	Does the airbag warning light operate properly?	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 to 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 (AB28) from (AB11). 4) Disconnect the connectors (AB7) and (AB8) from the airbag control module. <Ref. to AB-16, Airbag Control Module.> 5) Connect the connector (1R) in test harness R to connector (AB8). 6) Measure the resistance between connector (3R) in test harness R and connector (2N) in test harness N. Connector & terminal <i>(3R) No. 19 — (2N) No. 1:</i> <i>(3R) No. 17 — (2N) No. 2:</i>	Is the resistance less than 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 (3R) in test harness R. Connector & terminal <i>(3R) No. 17 — (3R) No. 19:</i>	Is the resistance more than 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 (3R) in test harness R and the chassis ground. Connector & terminal <i>(3R) No. 17 — Chassis ground:</i> <i>(3R) No. 19 — Chassis ground:</i>	Is the resistance more than 1 MΩ?	Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.>	Replace the body harness with side airbag harness.

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

V: DTC 62

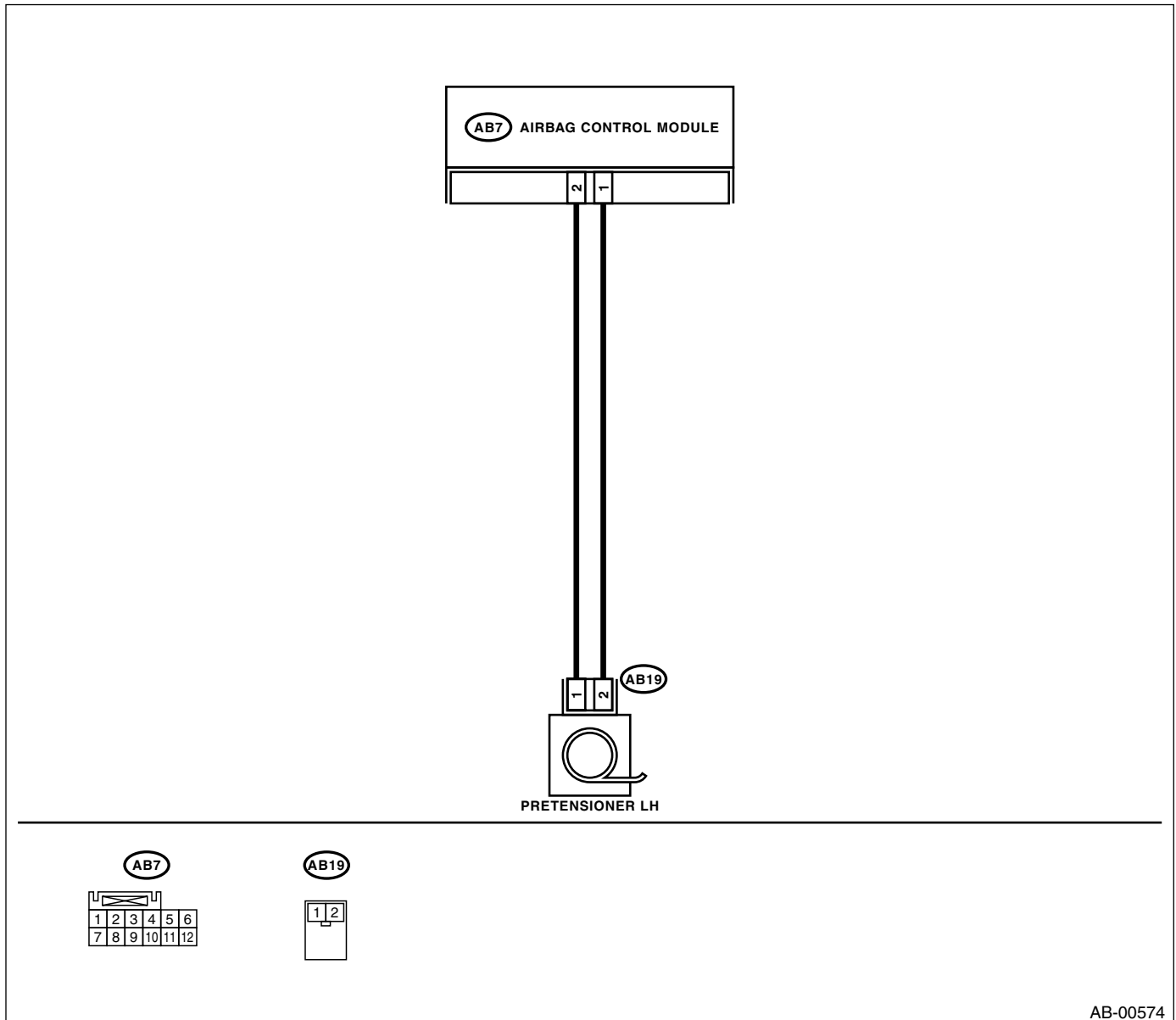
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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:



DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK SEAT BELT PRETENSIONER. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB19) from the seat belt pretensioner (LH). <Ref. to SB-8, Front Seat Belt.> 3) Connect the connector (1N) in test harness N to (AB19). 4) Connect the airbag resistor to the connector (2N) in test harness N. 5) Connect the battery ground cable and turn the ignition switch to ON.	Does the airbag warning light operate properly?	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 to 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 (AB29) from (AB9). 4) Disconnect the connectors (AB7) and (AB8) from the airbag control module. <Ref. to AB-16, Airbag Control Module.> 5) Connect the connector (1R) in test harness R to the connector (AB7). 6) Measure the resistance between connector (3R) in test harness R and the connector (2N) in test harness N. <i>Connector & terminal</i> <i>(3R) No. 11 — (2N) No. 2:</i> <i>(3R) No. 13 — (2N) No. 1:</i>	Is the resistance less than 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 (3R) in test harness R. <i>Connector & terminal</i> <i>(3R) No. 11 — (3R) No. 13:</i>	Is the resistance more than 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 (3R) in test harness R and the chassis ground. <i>Connector & terminal</i> <i>(3R) No. 11 — Chassis ground:</i> <i>(3R) No. 13 — Chassis ground:</i>	Is the resistance more than 1 MΩ?	Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.>	Replace the body harness with side airbag harness.

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

W: DTC 65

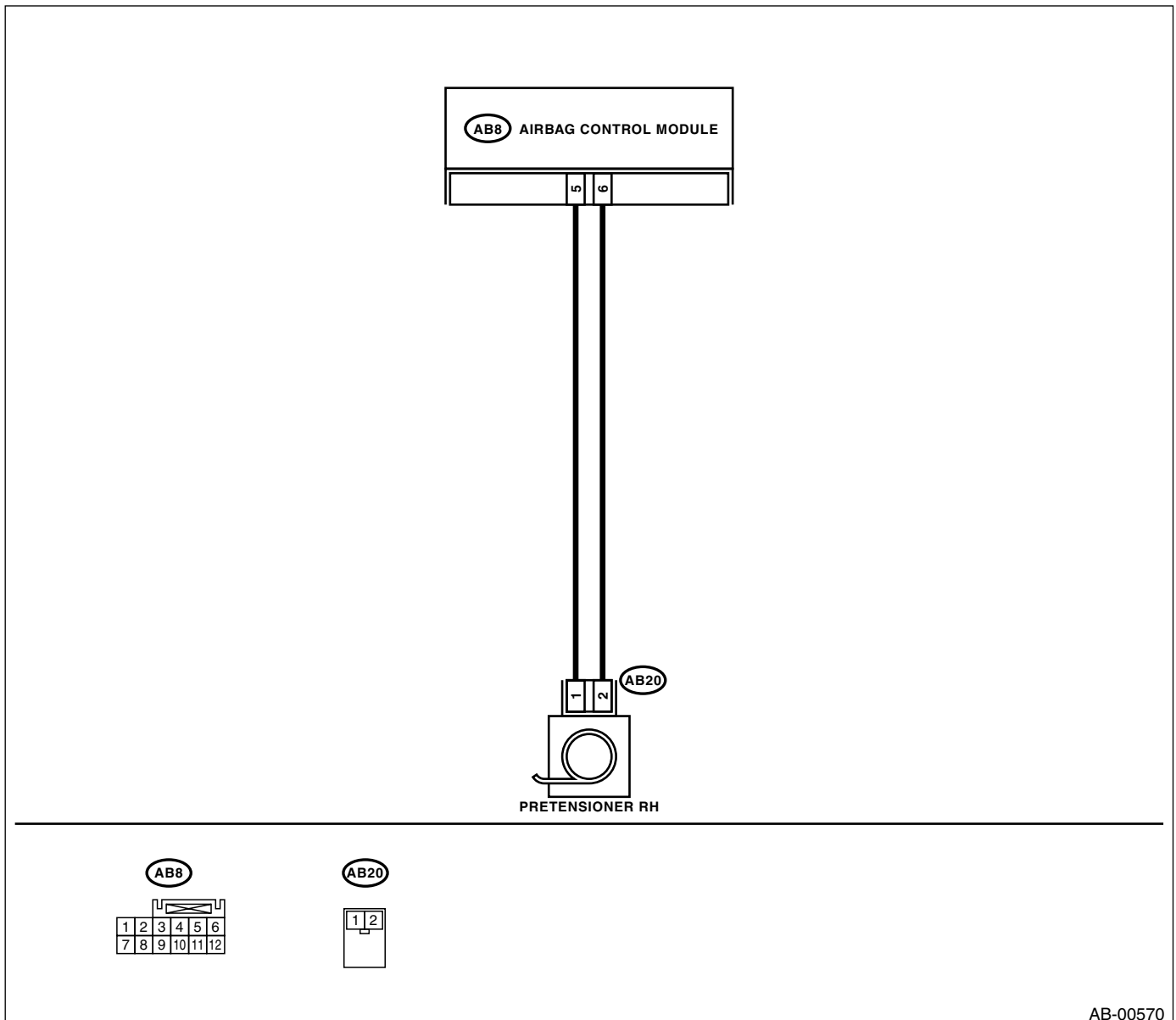
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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:



DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
<p>1 CHECK SEAT BELT PRETENSIONER.</p> <p>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.</p> <p>2) Disconnect the connector (AB20) from the seat belt pretensioner (RH). <Ref. to SB-8, Front Seat Belt.></p> <p>3) Connect the connector (1N) in test harness N to (AB20).</p> <p>4) Connect the airbag resistor to connector (2N) in test harness N.</p> <p>5) Connect the battery ground cable, and turn the ignition switch to ON.</p>	<p>Does the airbag warning light operate properly?</p>	<p>Replace the seat belt pretensioner (RH). <Ref. to SB-8, Front Seat Belt.></p>	<p>Go to step 2.</p>
<p>2 CHECK SIDE AIRBAG HARNESS (RH).</p> <p>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.</p> <p>2) Disconnect the airbag resistor from the test harness.</p> <p>3) Disconnect the connector (AB28) from (AB11).</p> <p>4) Disconnect the connectors (AB7) and (AB8) from the airbag control module. <Ref. to AB-16, Airbag Control Module.></p> <p>5) Connect the connector (1R) in test harness R to the connector (AB8).</p> <p>6) Connect the battery ground cable and turn the ignition switch to ON.</p> <p>7) Measure the voltage between connector (3R) in test harness R and the chassis ground.</p> <p>Connector & terminal</p> <p>(3R) No. 17 (+) — Chassis ground (-):</p> <p>(3R) No. 19 (+) — Chassis ground (-):</p>	<p>Is the voltage less than 1 V?</p>	<p>Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.></p>	<p>Replace the body harness with side airbag harness.</p>

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

X: DTC 66

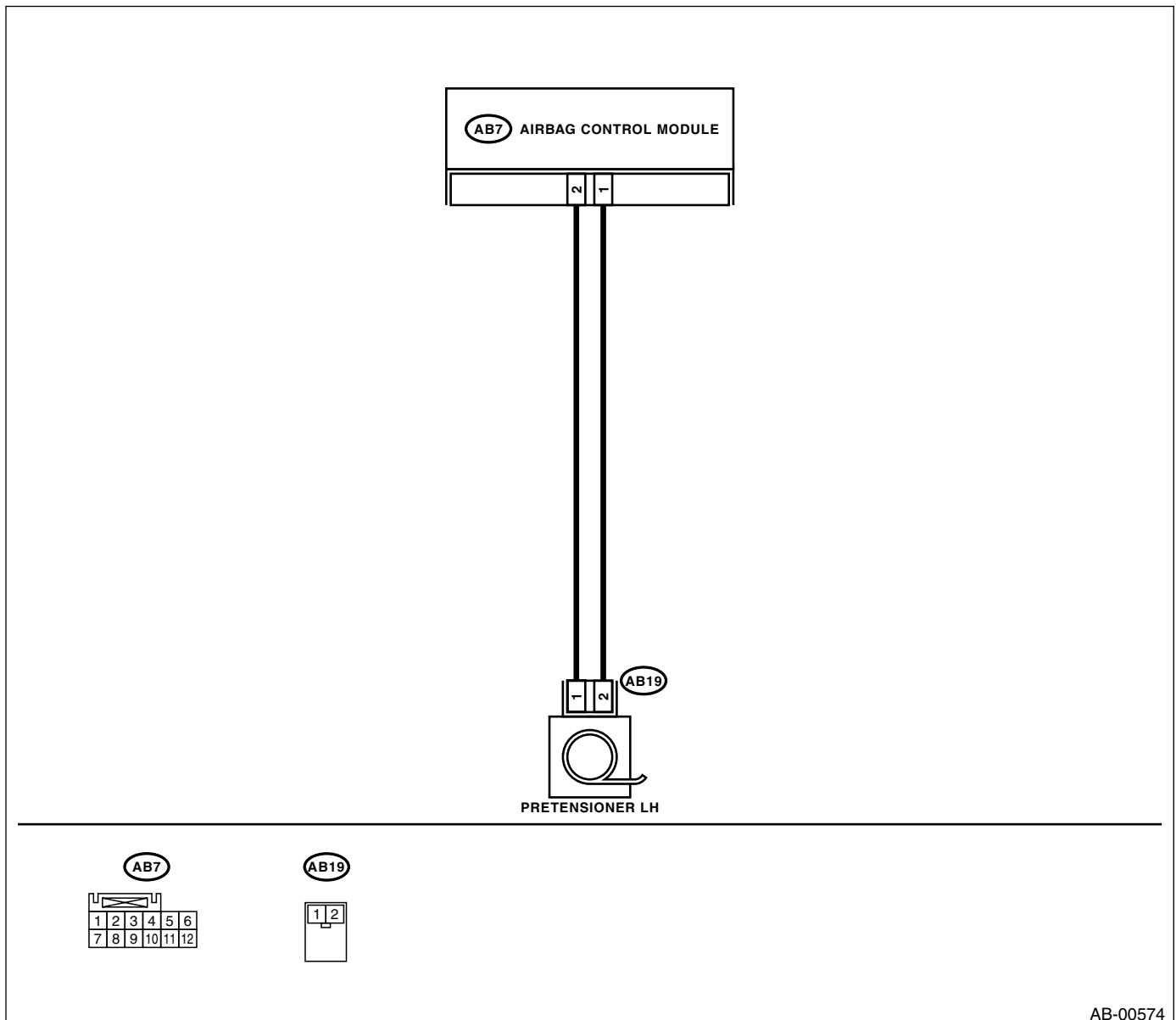
DIAGNOSIS:

- 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 to OFF, disconnect the ground cable from 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-00574

DIAGNOSTIC PROCEDURE WITH DIAGNOSTIC TROUBLE CODE (DTC)

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
1 CHECK SEAT BELT PRETENSIONER. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB19) from the seat belt pretensioner (LH). <Ref. to SB-8, Front Seat Belt.> 3) Connect the connector (1N) in test harness N to (AB19). 4) Connect the airbag resistor to the connector (2N) in test harness N. 5) Connect the battery ground cable and turn the ignition switch to ON.	Does the airbag warning light operate properly?	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 to 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 (AB29) from (AB9). 4) Disconnect the connectors (AB7) and (AB8) from the airbag control module. <Ref. to AB-16, Airbag Control Module.> 5) Connect the connector (1R) in test harness R to the connector (AB7). 6) Connect the battery ground cable and turn the ignition switch to ON. 7) Measure the voltage between connector (3R) in test harness R and the chassis ground. Connector & terminal <i>(3R) No. 11 (+) — Chassis ground (-):</i> <i>(3R) No. 13 (+) — Chassis ground (-):</i>	Is the voltage less than 1 V?	Replace the airbag control module. <Ref. to AB-16, Airbag Control Module.>	Replace the body harness with side airbag harness.