

BODY SECTION

This service manual has been prepared to provide SUBARU service personnel with the necessary information and data for the correct maintenance and repair of SUBARU vehicles.

This manual includes the procedures for maintenance, disassembling, reassembling, inspection and adjustment of components and diagnostics for guidance of experienced mechanics.

Please peruse and utilize this manual fully to ensure complete repair work for satisfying our customers by keeping their vehicle in optimum condition. When replacement of parts during repair work is needed, be sure to use SUBARU genuine parts.

All information, illustration and specifications contained in this manual are based on the latest product information available at the time of publication approval.

FUJI HEAVY INDUSTRIES LTD.

**HVAC SYSTEM
(HEATER, VENTILATOR AND A/C) AC**

AIRBAG SYSTEM AB

SEAT BELT SYSTEM SB

LIGHTING SYSTEM LI

WIPER AND WASHER SYSTEMS WW

ENTERTAINMENT ET

COMMUNICATION SYSTEM COM

GLASS/WINDOWS/MIRRORS GW

BODY STRUCTURE BS

INSTRUMENTATION/DRIVER INFO IDI

SEATS SE

SECURITY AND LOCKS SL

**SUNROOF/T-TOP/CONVERTIBLE TOP
(SUNROOF) SR**

EXTERIOR/INTERIOR TRIM EI

EXTERIOR BODY PANELS EB

CRUISE CONTROL SYSTEM CC

AIRBAG SYSTEM (DIAGNOSTICS)



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BASIC DIAGNOSTIC PROCEDURE

Airbag System (Diagnostics)

1. Basic Diagnostic Procedure

S002627

A: PROCEDURE S002501E45

| No. | Step | Check | Yes | No |
|-----|---|-------------------------------------|---|---|
| 1 | Read Diagnostic Trouble Code. <Ref. to AB-27 Read Diagnostics Trouble Code.> | Is the normal code being detected? | Finish the diagnosis. | Go to step 2. |
| 2 | Read Diagnostic Trouble Code. <Ref. to AB-27 Read Diagnostics Trouble Code.> | Is the trouble code being detected? | Go to step 3. | Go to "Airbag Warning Light Failure". <Ref. to AB-30 Airbag Warning Light Failure.> |
| 3 | Perform the diagnosis. 1) Judge the possible cause from "List of Diagnostic Trouble Code" <Ref. to AB-36 List of Diagnostic Trouble Code.> 2) Inspect using "Diagnostic Chart with Trouble Code". (DTC) 3) Repair the cause of the trouble. 4) Perform the clear memory mode. <Ref. to AB-29 Clear Memory Mode.> 5) Perform the inspection mode. <Ref. to AB-28 Inspection Mode.> 6) Read diagnostic trouble code. | Is the trouble code being detected? | Perform the procedure 1) to 5) in step 3. | Finish the diagnosis. |

CHECK LIST FOR INTERVIEW

Airbag System (Diagnostics)

2. Check List for Interview S002502

A: CHECK S002502A04

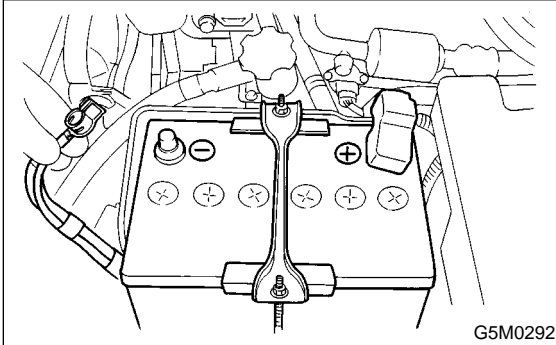
| | | | |
|----------------------------|---|-------------------|-----|
| Customer's Name | | Inspector's Name | |
| Date Vehicle Brought In | / / | Registration No. | |
| Odometer Reading | Km Miles | Vin No. | |
| Date Problem Occurred | / / | Registration Year | / / |
| Weather | <input type="checkbox"/> Fine <input type="checkbox"/> Cloudy <input type="checkbox"/> Rainy <input type="checkbox"/> Snowy <input type="checkbox"/> Other: | | |
| Temperature | °C (°F) | | |
| Road Condition | <input type="checkbox"/> Level road <input type="checkbox"/> Uphill <input type="checkbox"/> Downhill <input type="checkbox"/> Rough road <input type="checkbox"/> Other: | | |
| Vehicle Operation | <input type="checkbox"/> Starting <input type="checkbox"/> Idling <input type="checkbox"/> Driving (<input type="checkbox"/> Constant Speed <input type="checkbox"/> Acceleration <input type="checkbox"/> Deceleration) <input type="checkbox"/> Steering wheel turn <input type="checkbox"/> Other: | | |
| Details of Problem | | | |
| Check Airbag Warning Light | <input type="checkbox"/> Remains ON <input type="checkbox"/> Remains OFF | | |
| Check DTC | <input type="checkbox"/> Normal Code <input type="checkbox"/> Trouble Code: (Code:) | | |

GENERAL DESCRIPTION

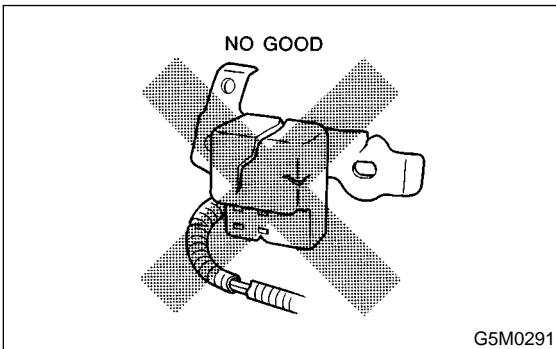
3. General Description S002001

A: CAUTION S002001A03

- When servicing a vehicle, be sure to turn the ignition switch OFF, disconnect the ground cable from the battery, and wait for more than 20 seconds before starting work.
- The airbag system is fitted with a backup power source. If the airbag system is serviced within 20 seconds after the ground cable is disconnected, it may inflate.

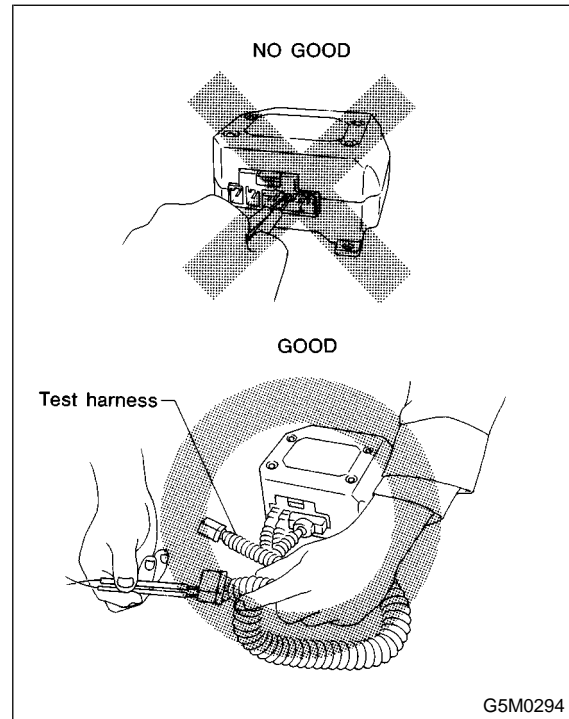
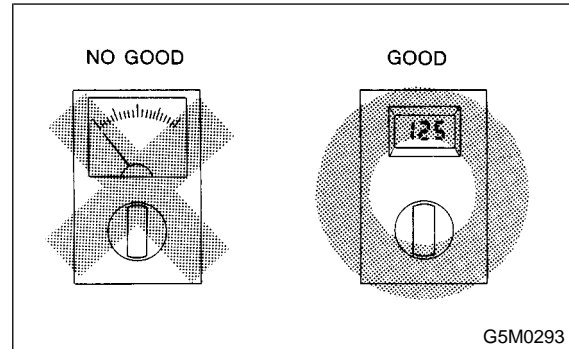


- If sensors, airbag module, airbag control module and harness are deformed or damaged, replace them with new genuine parts.
- Do not use the airbag system on other vehicles. When replacing parts, be sure to replace them with new parts.

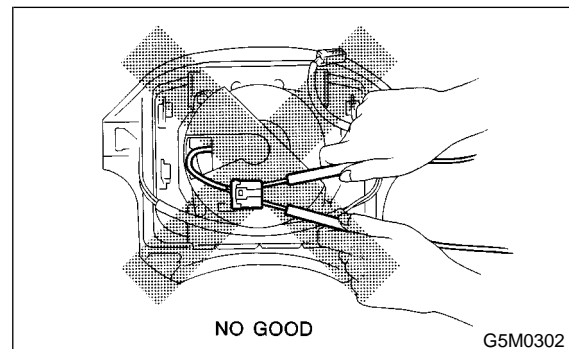


- When checking the system, be sure to use a digital circuit tester. Use of an analog circuit tester may cause the airbag to activate erroneously.

- When checking, use a test harness. Do not directly apply the tester probe to any connector terminal of the airbag.

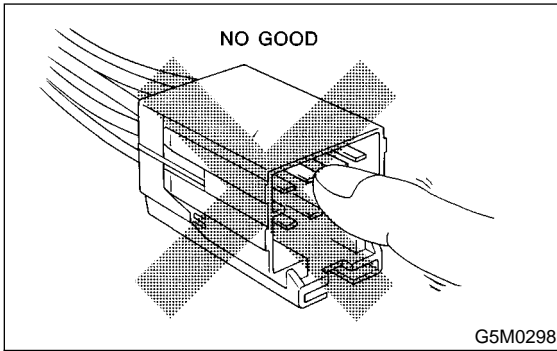


- Do not check continuity of the airbag module (driver, passenger, and side).

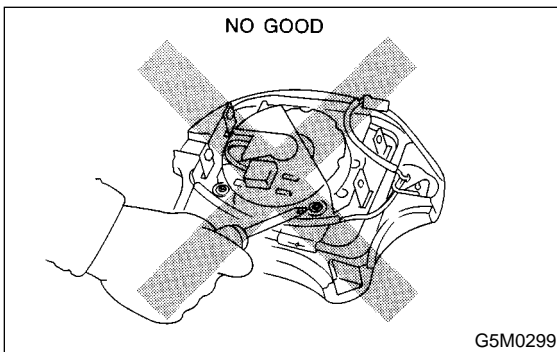


GENERAL DESCRIPTION

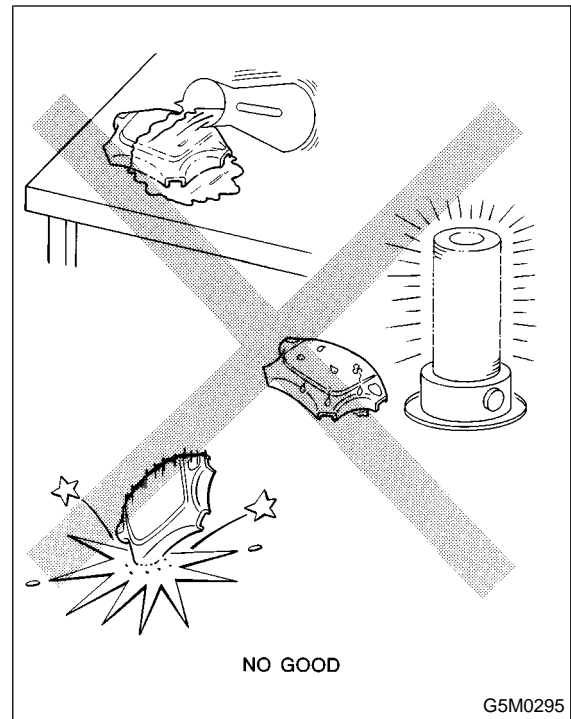
- Do not allow water or oil to come in contact with the connector terminals. Do not touch the connector terminals.



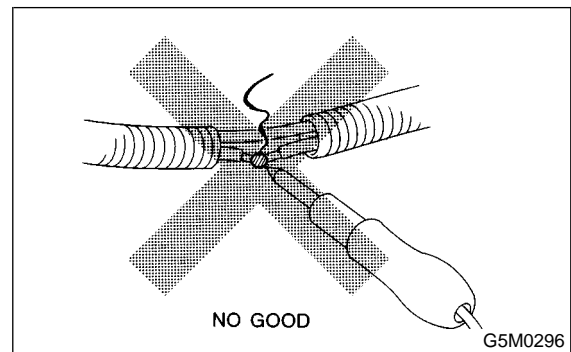
- The airbag module (driver, passenger, and side) must not be disassembled.
- The airbag module cannot be used again once inflated.



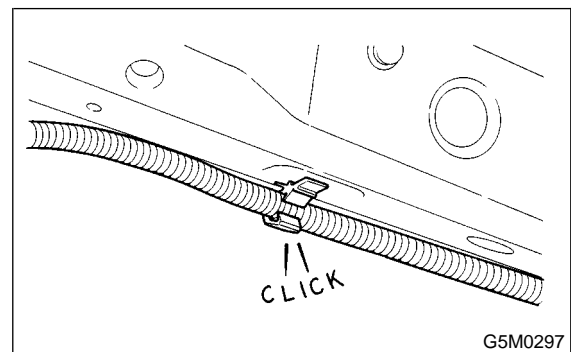
- Do not drop the airbag modulator parts, subject them to high temperature over 93°C (199°F), or let water, oil, or grease get on them; otherwise, the internal parts may be damaged and reliability greatly lowered.



- If any damage, opening or rust is found on the airbag system wire harness, do not attempt to repair using soldering equipment. Be sure to replace the faulty harness with a new genuine part.



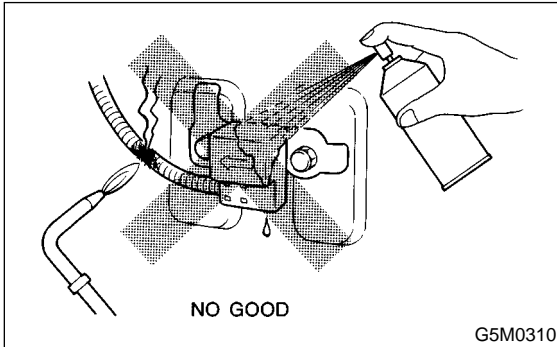
- Install the wire harness securely with the specified clips to avoid interference or tangled up with other parts.



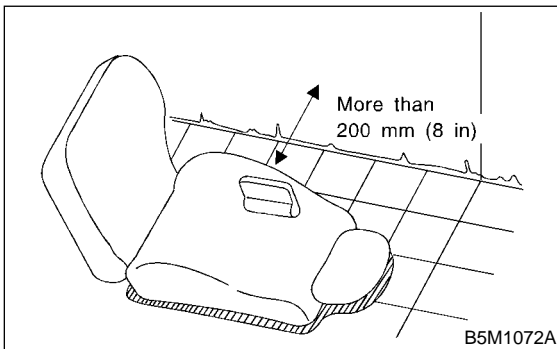
GENERAL DESCRIPTION

Airbag System (Diagnostics)

- When painting or performing sheet metal work on the front part of the vehicle, including the front wheel apron, front fender, and front side frame, remove the front sub sensors and wire harness of the airbag system.
- When painting or performing sheet metal work on the side of the vehicle, including the side sill, center pillar, and front and rear doors, remove the side airbag sensors and wire harness of the airbag system.



- The removed front seat with the airbag module must be kept at least 200 mm (8 in) away from walls and other objects.

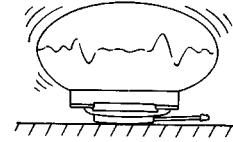
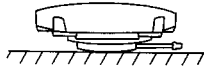


- When storing a removed airbag module, do not place any objects on it or pile airbag modules on top of each other. If the airbag inflates for some reason when it is placed with its pad side facing downward or under any object, a serious accident may result.

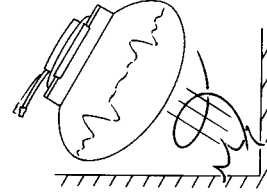
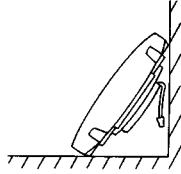
GENERAL DESCRIPTION

Driver side

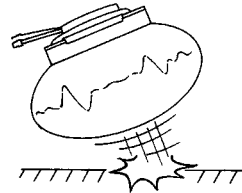
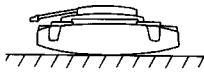
GOOD



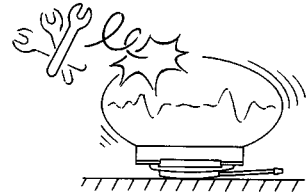
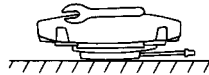
NO GOOD



NO GOOD

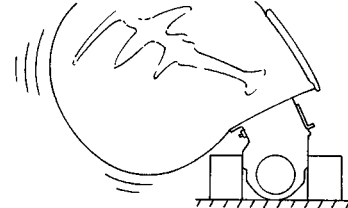
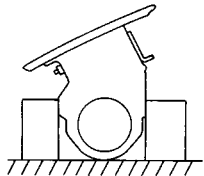


NO GOOD

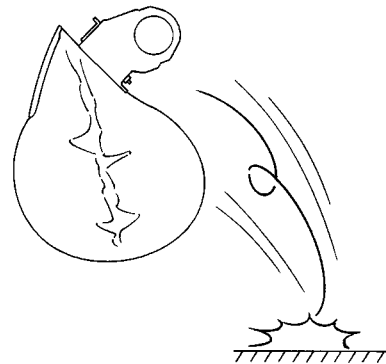
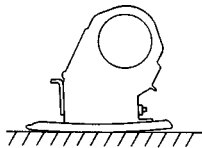


Passenger side

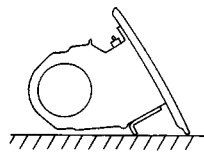
GOOD



NO GOOD



NO GOOD



GENERAL DESCRIPTION

Airbag System (Diagnostics)

- Do not discard undeployed airbag modules. They could easily cause a serious accident if accidentally deployed.

B: INSPECTION S002001A10

Before diagnosing, check the following items that might be related to the engine problem:

1. BATTERY S002001A1001

Measure battery voltage and specific gravity of electrolyte.

Standard voltage: 12V

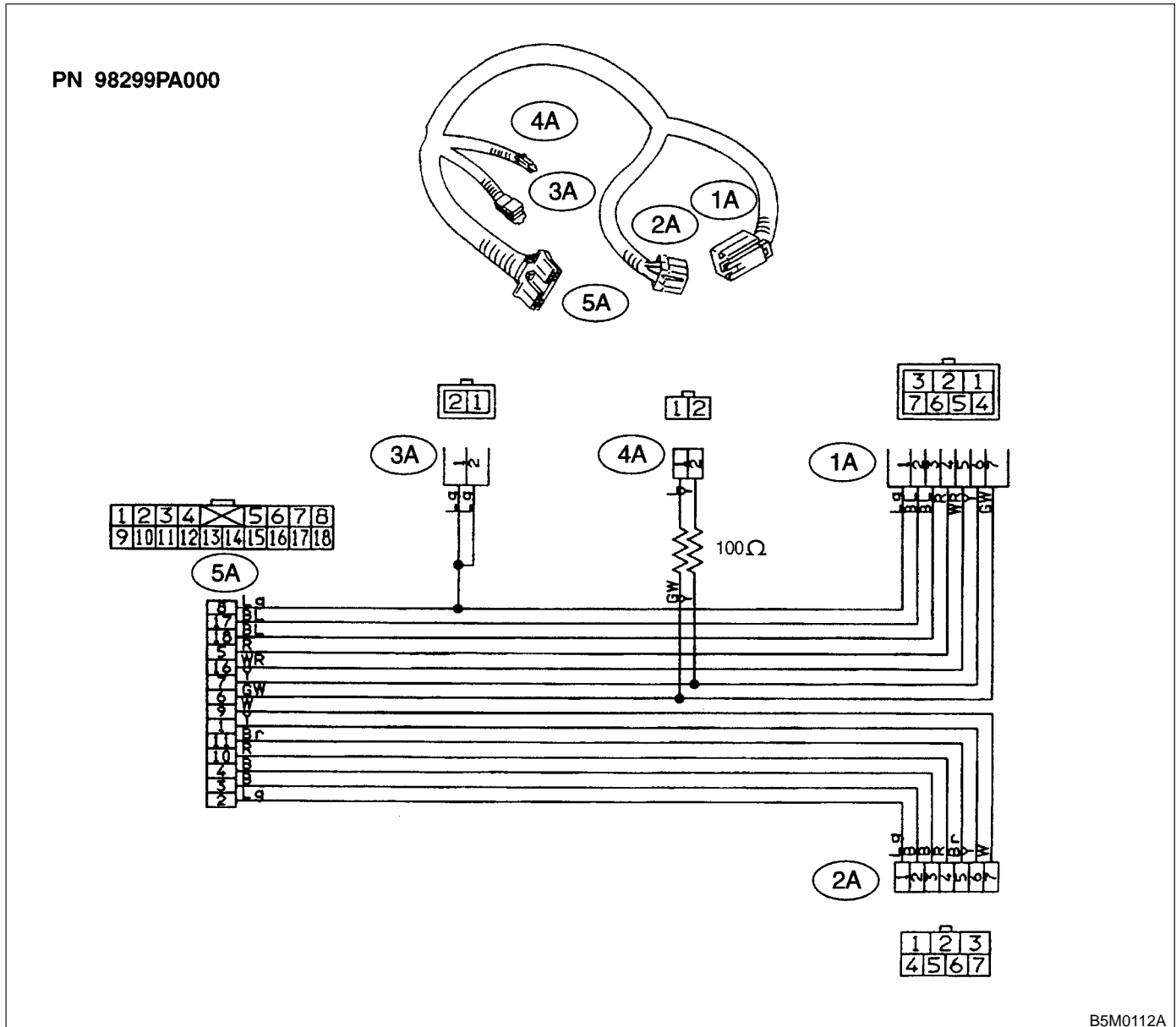
Specific gravity: Above 1.260

C: PREPARATION TOOL S002001A17

CAUTION:

Be sure to use specified test harness A, F, G, H and I or I2 when measuring voltage, resistance, etc. of AIRBAG system component parts.

1. TEST HARNESS A S002001A1701

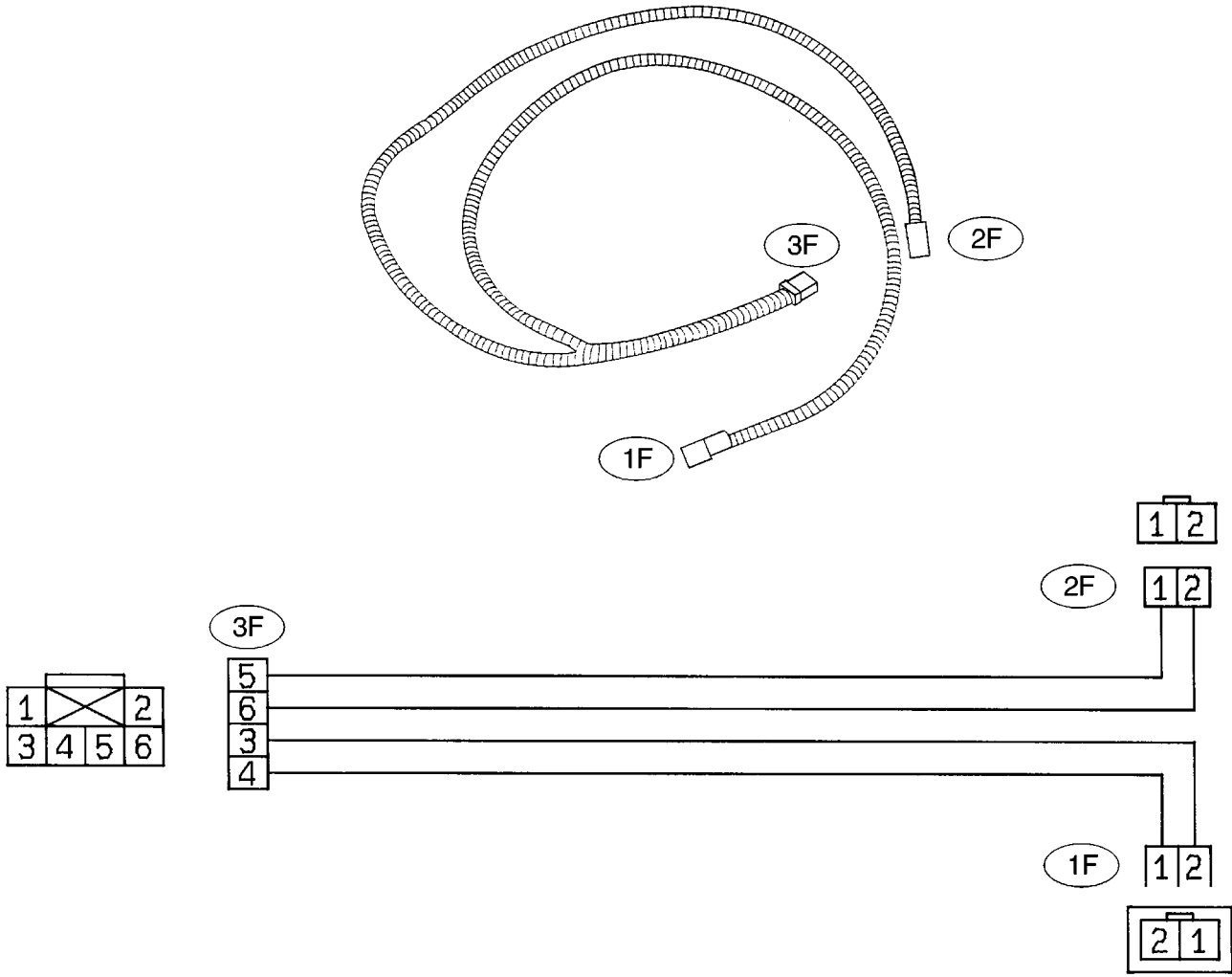


GENERAL DESCRIPTION

Airbag System (Diagnostics)

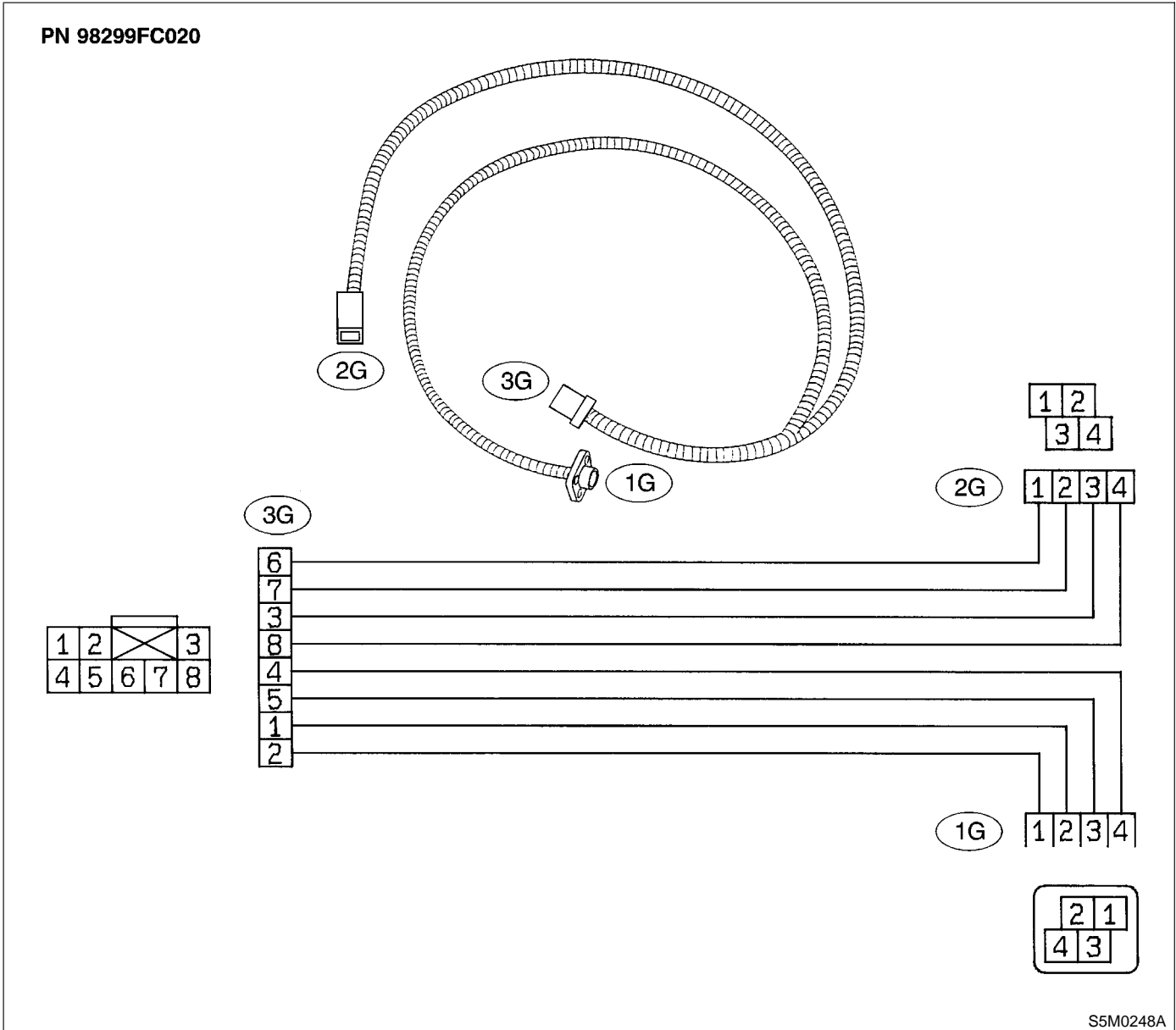
2. TEST HARNESS F S002001A1702

PN 98299FC010



S5M0247A

3. TEST HARNESS G S002001A1703

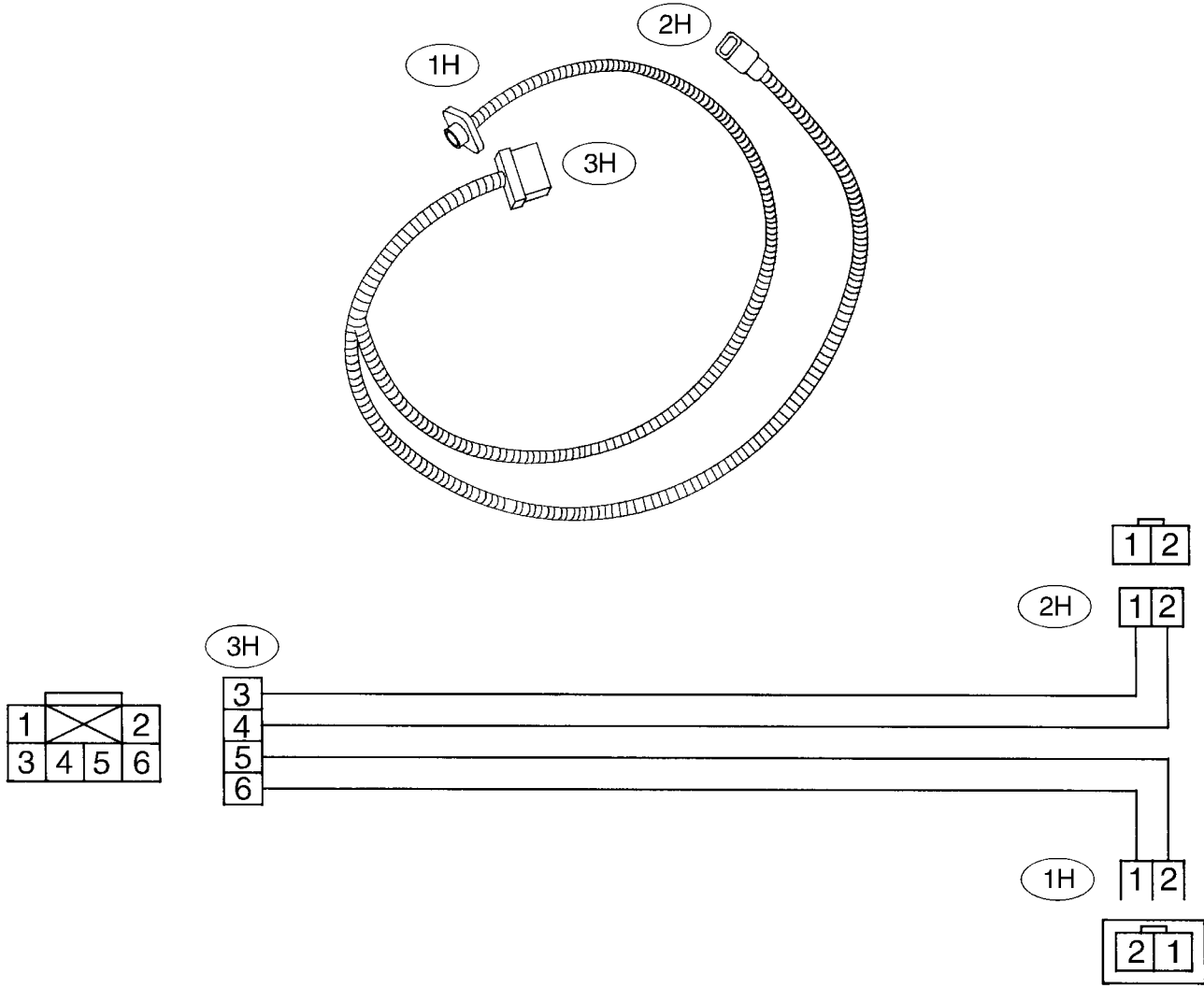


GENERAL DESCRIPTION

Airbag System (Diagnostics)

4. TEST HARNESS H S002001A1704

PN 98299FA030

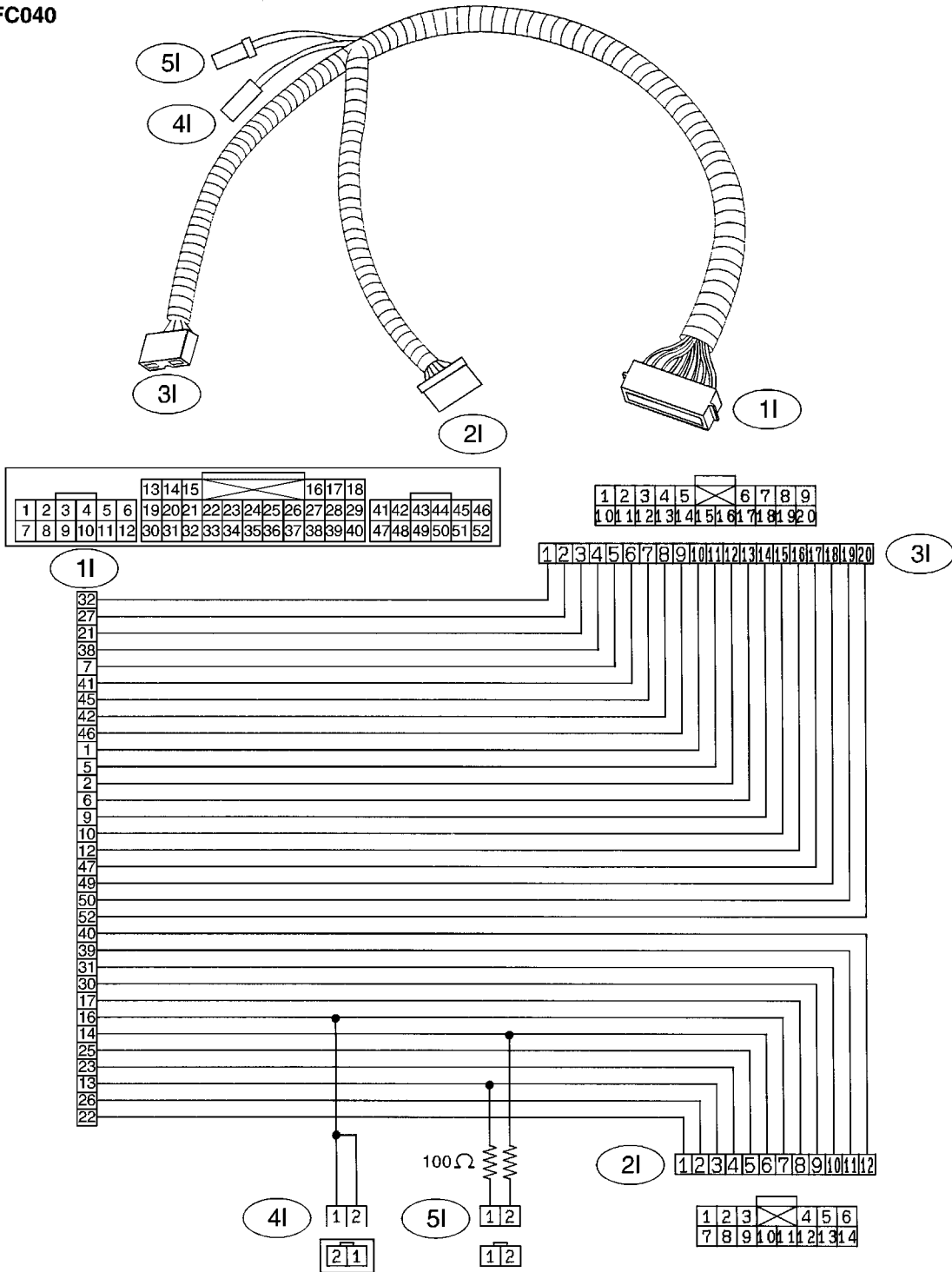


B5M0553B

GENERAL DESCRIPTION

5. TEST HARNESS I S002001A1705

PN 98299FC040



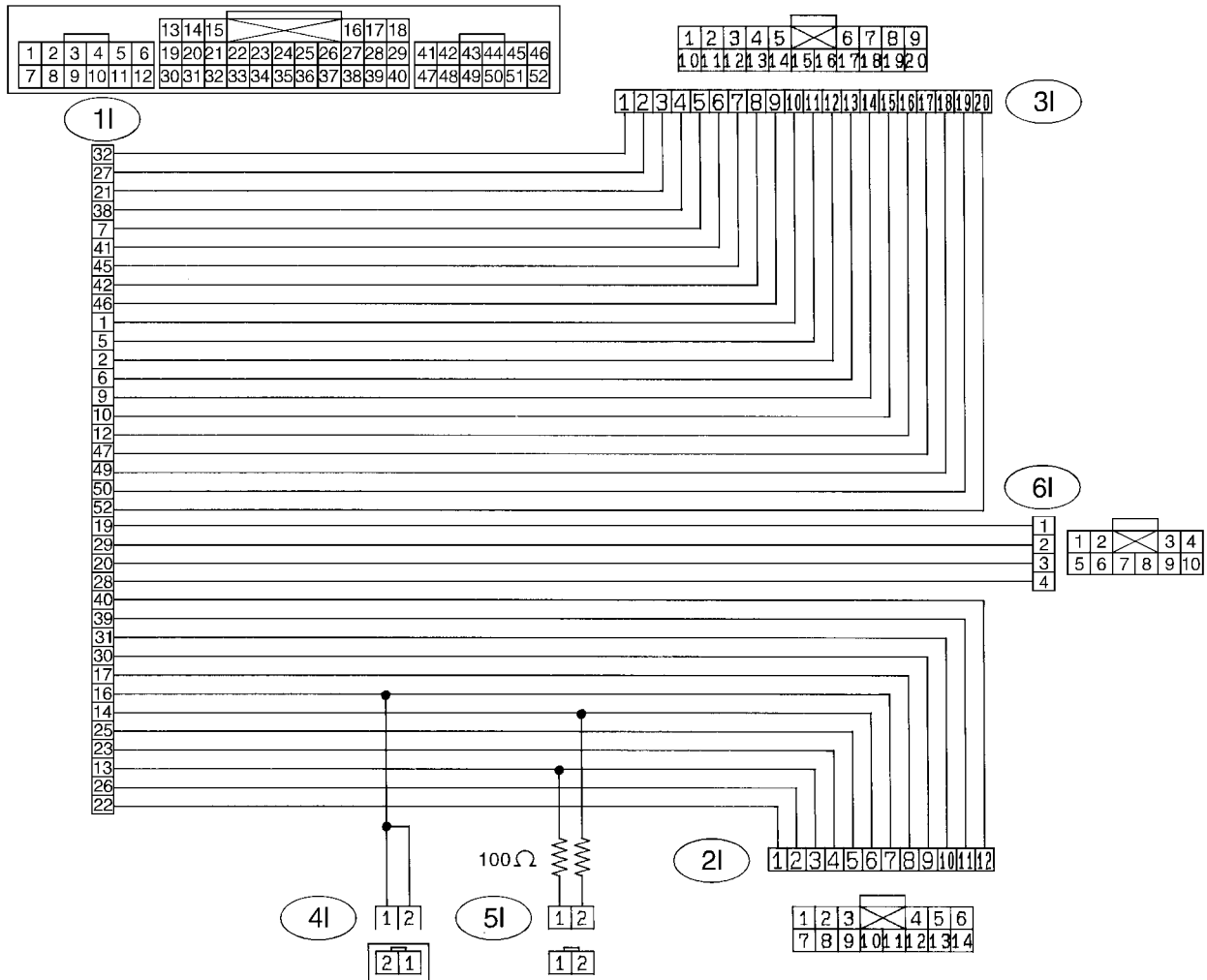
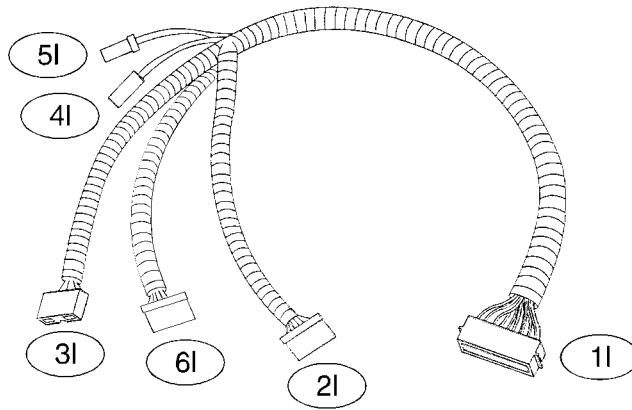
S5M0340A

GENERAL DESCRIPTION

Airbag System (Diagnostics)

6. TEST HARNESS I2 S002001A1706

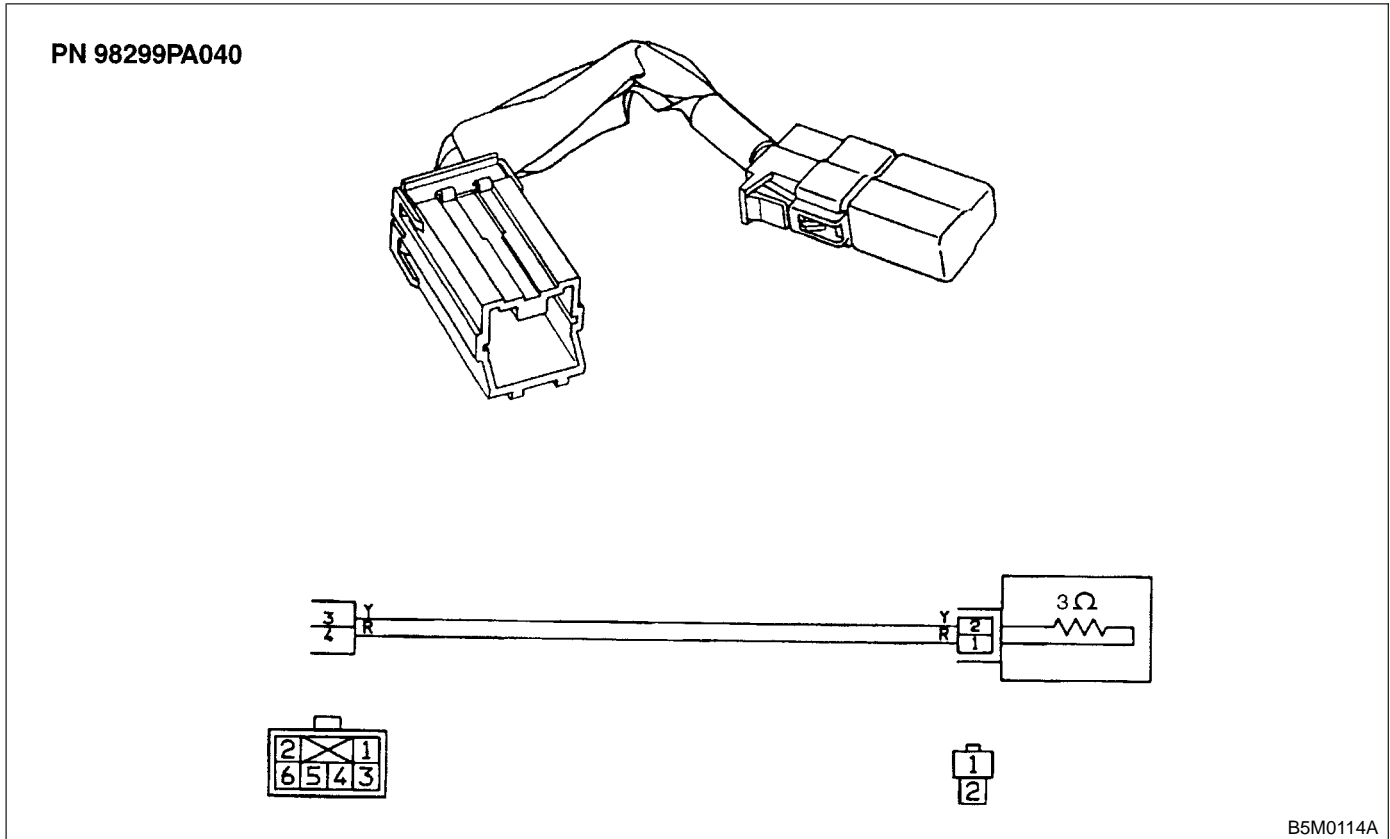
PN 98299FC041



B5M0927A

7. AIRBAG RESISTOR S002001A1707

The airbag resistor is used during diagnostics. The airbag resistor has the same resistance as the airbag module and thus provides safety when used instead of the airbag module. It also makes it possible to finish diagnostics in less time.



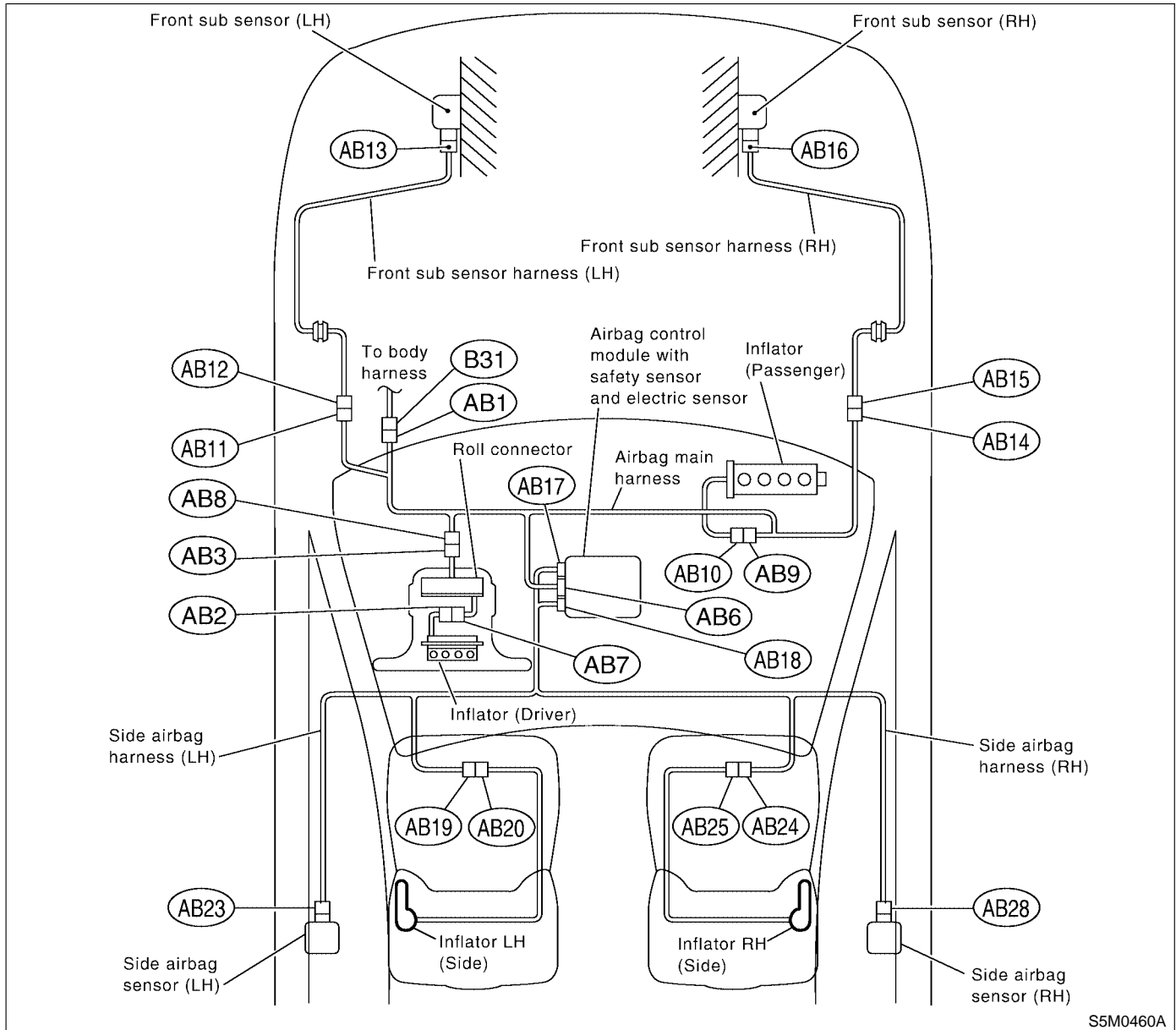
ELECTRICAL COMPONENTS LOCATION

Airbag System (Diagnostics)

4. Electrical Components Location S002507

A: LOCATION S002507A13

1. LHD MODEL S002507A1301



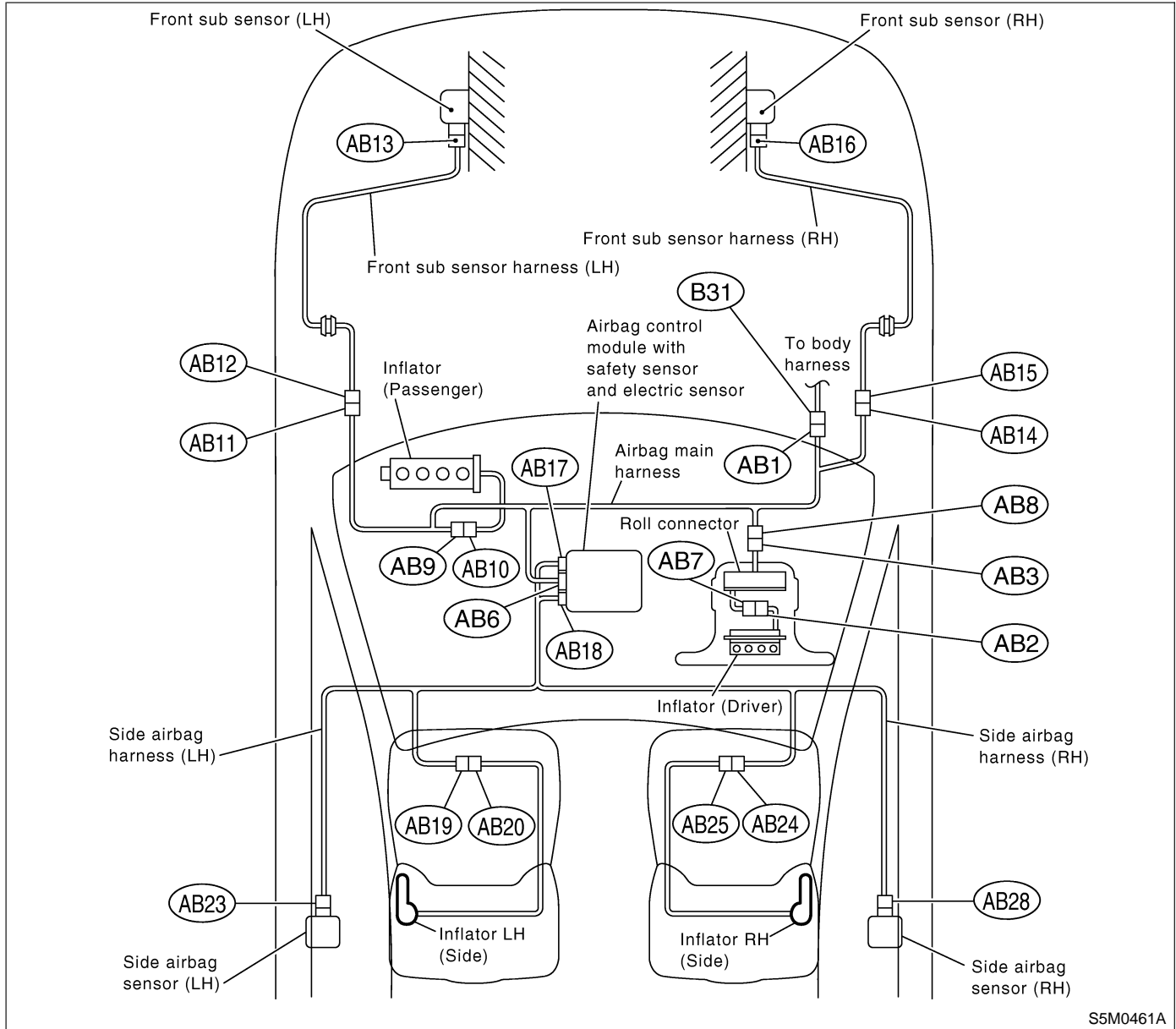
| | | | | | | | | | | | |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Connector No. | (AB1) | (AB2) | (AB3) | (AB6) | (AB7) | (AB8) | (AB9) | (AB10) | (AB11) | (AB12) | (AB13) |
| Pole | 7 | 2 | 2 | 28 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Color | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Blue | Blue | Yellow |
| Male/Female | Male | Male | Male | Female | Female | Female | Female | Male | Female | Male | Female |
| Connector No. | (AB14) | (AB15) | (AB16) | (AB17) | (AB18) | (AB19) | (AB20) | (AB23) | (AB24) | (AB25) | (AB28) |
| Pole | 2 | 2 | 2 | 12 | 12 | 2 | 2 | 4 | 2 | 2 | 4 |
| Color | Blue | Blue | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow |
| Male/Female | Female | Male | Female | Female | Female | Female | Male | Female | Female | Male | Female |

AB-16

ELECTRICAL COMPONENTS LOCATION

Airbag System (Diagnostics)

2. RHD MODEL S002507A1302



| | | | | | | | | | | | |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Connector No. | (AB1) | (AB2) | (AB3) | (AB6) | (AB7) | (AB8) | (AB9) | (AB10) | (AB11) | (AB12) | (AB13) |
| Pole | 7 | 2 | 2 | 28 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Color | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Blue | Blue | Yellow |
| Male/Female | Male | Male | Male | Female | Female | Female | Female | Male | Female | Male | Female |
| Connector No. | (AB14) | (AB15) | (AB16) | (AB17) | (AB18) | (AB19) | (AB20) | (AB23) | (AB24) | (AB25) | (AB28) |
| Pole | 2 | 2 | 12 | 12 | 2 | 2 | 4 | 2 | 2 | 4 | 2 |
| Color | Blue | Blue | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow | Yellow |
| Male/Female | Female | Male | Female | Female | Female | Female | Male | Female | Female | Male | Female |

A/B CONTROL MODULE I/O SIGNAL

Airbag System (Diagnostics)

5. A/B Control Module I/O Signal

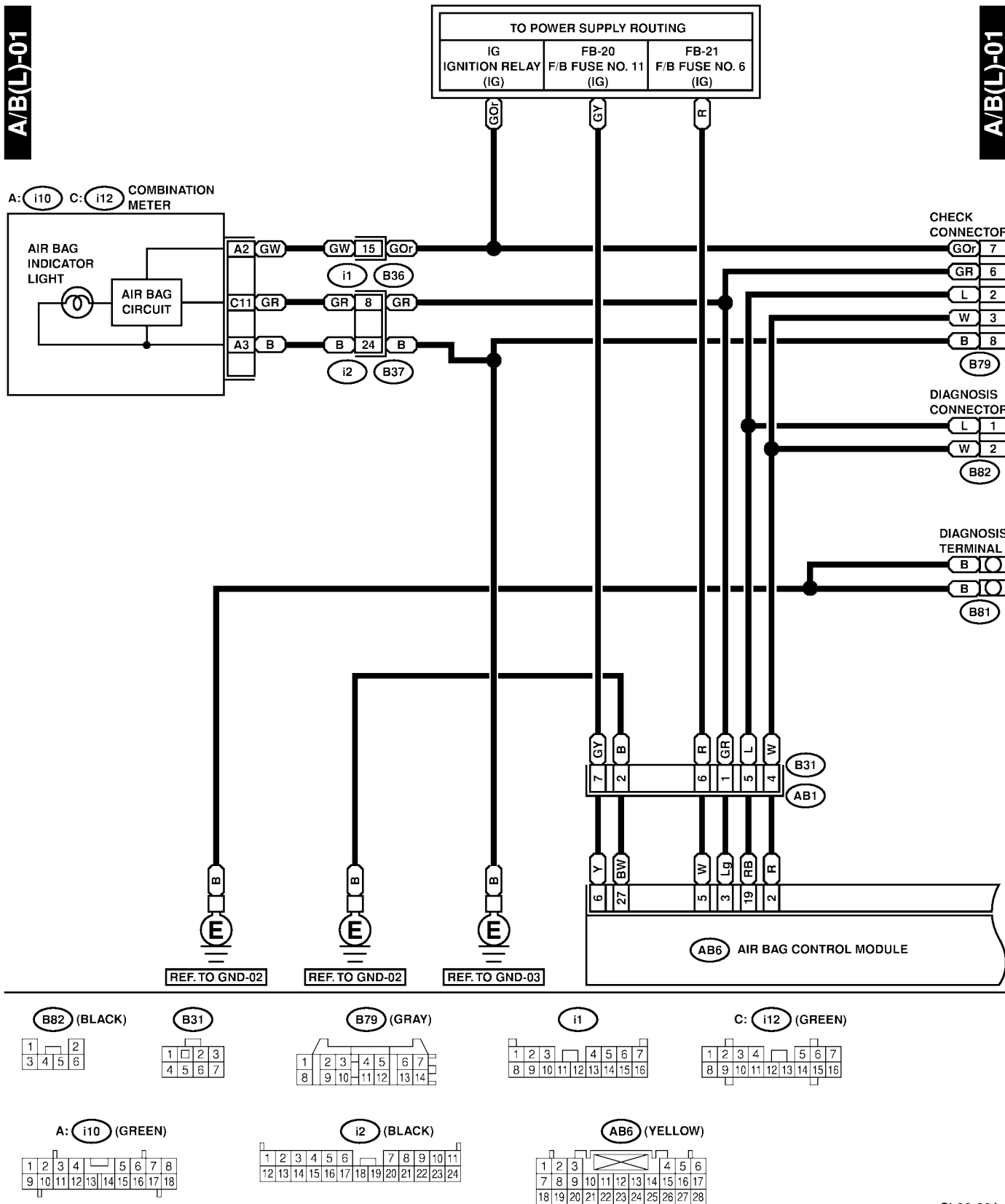
S002745

A: SCHEMATIC

S002745A21

1. AIRBAG LHD MODEL

S002745A2101

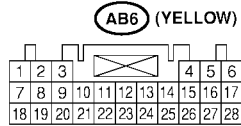
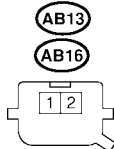
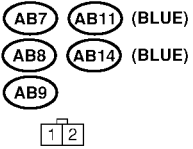
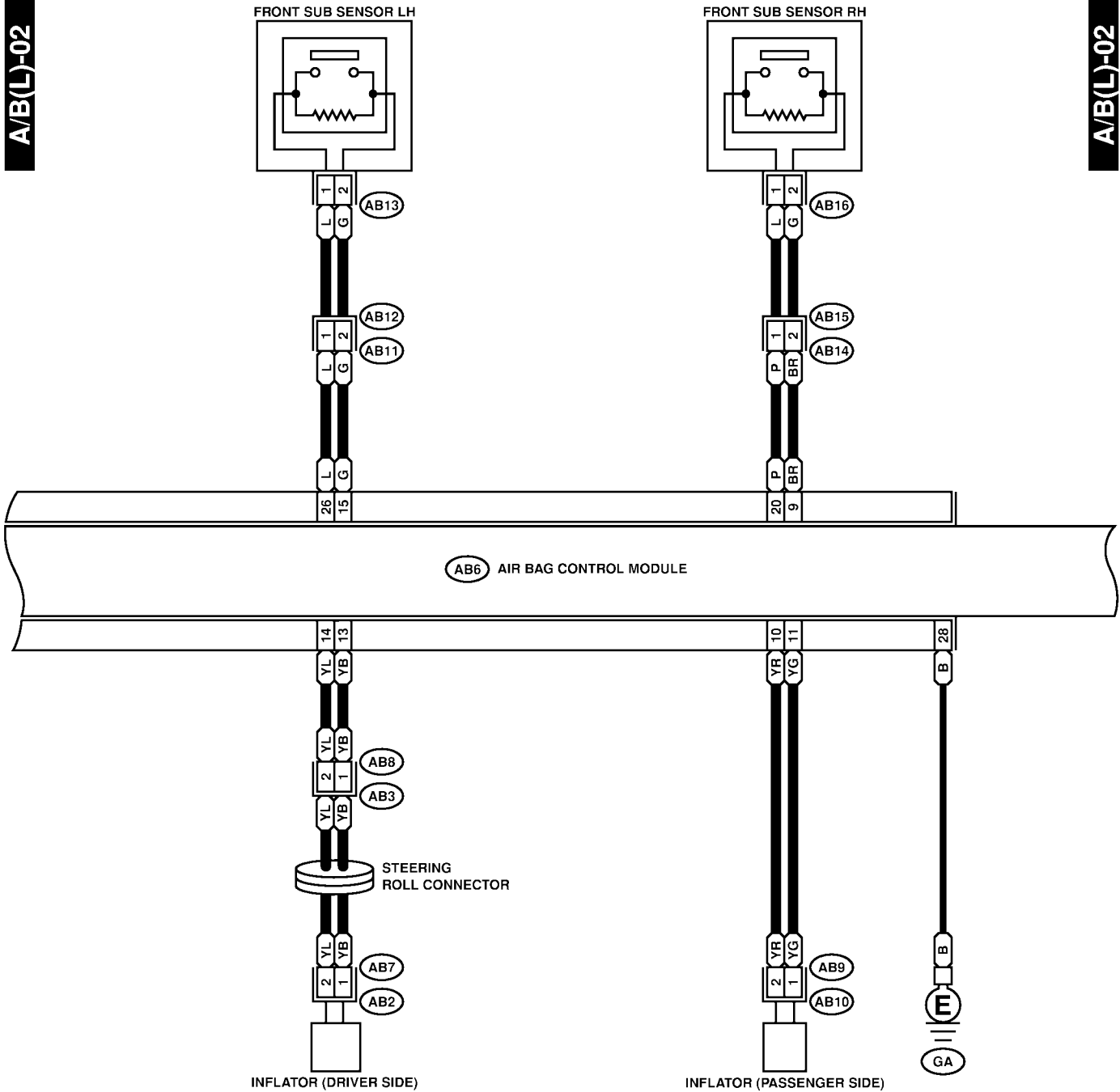


A/B CONTROL MODULE I/O SIGNAL

Airbag System (Diagnostics)

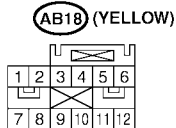
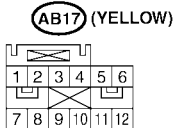
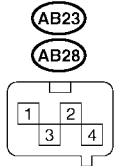
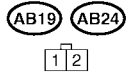
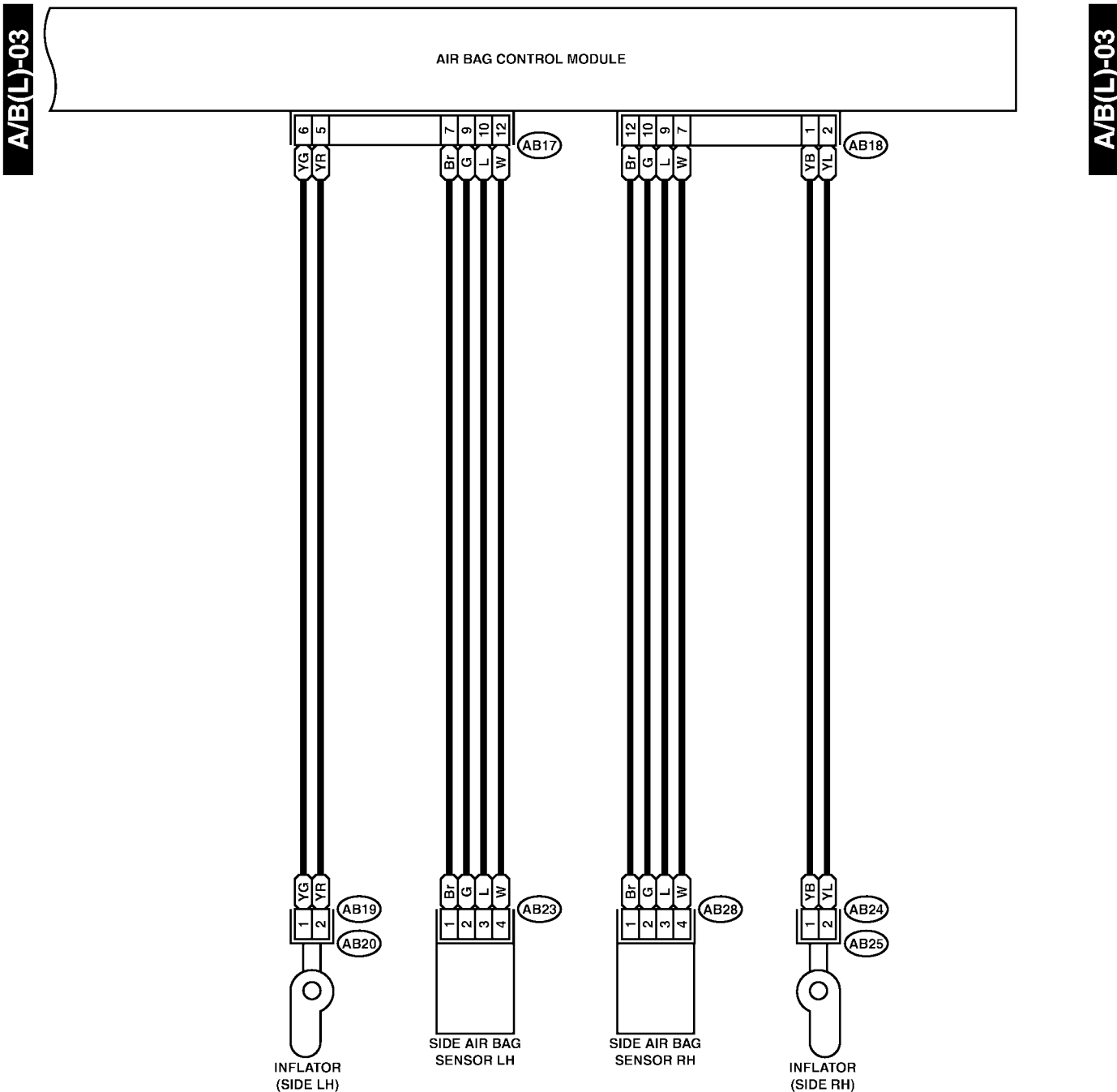
A/B(L)-02

A/B(L)-02



A/B CONTROL MODULE I/O SIGNAL

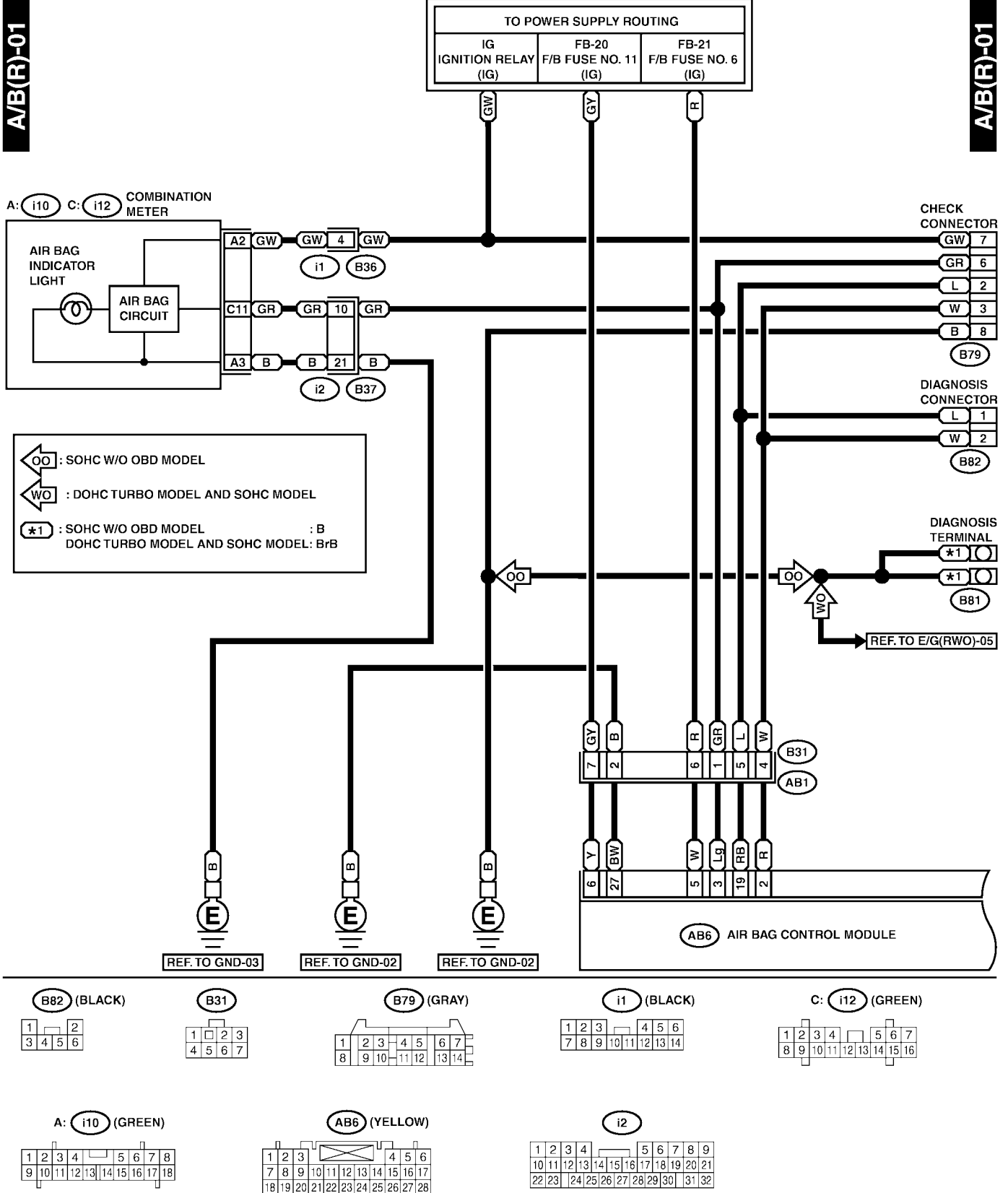
Airbag System (Diagnostics)



A/B CONTROL MODULE I/O SIGNAL

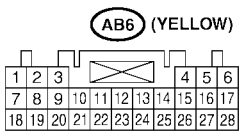
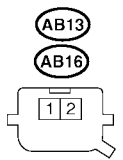
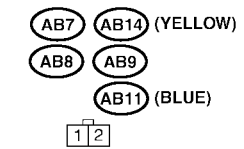
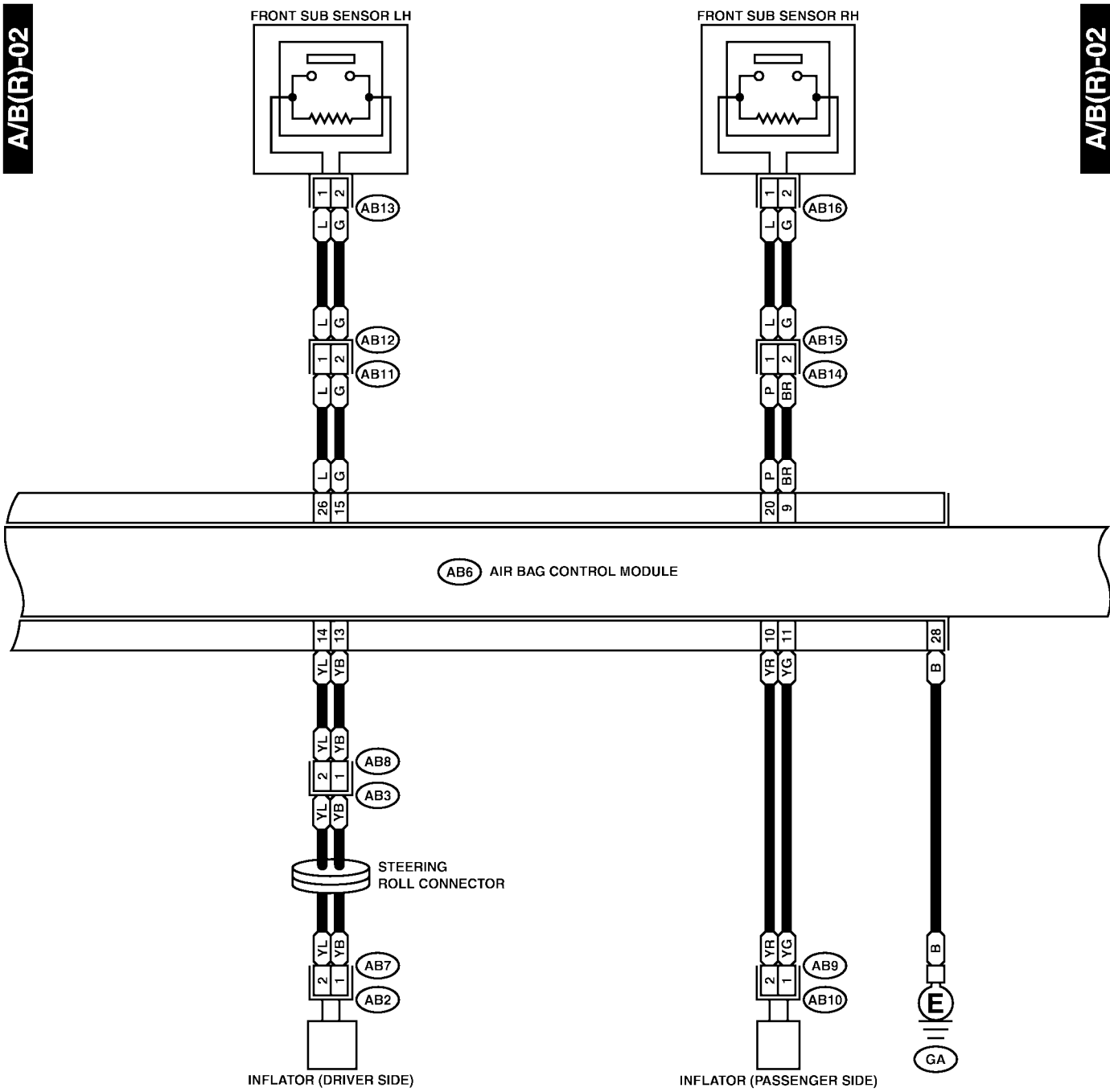
Airbag System (Diagnostics)

2. AIRBAG RHD MODEL S002745A2102



A/B CONTROL MODULE I/O SIGNAL

Airbag System (Diagnostics)

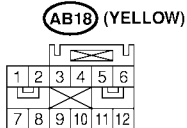
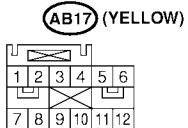
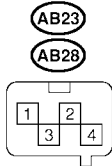
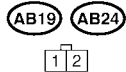
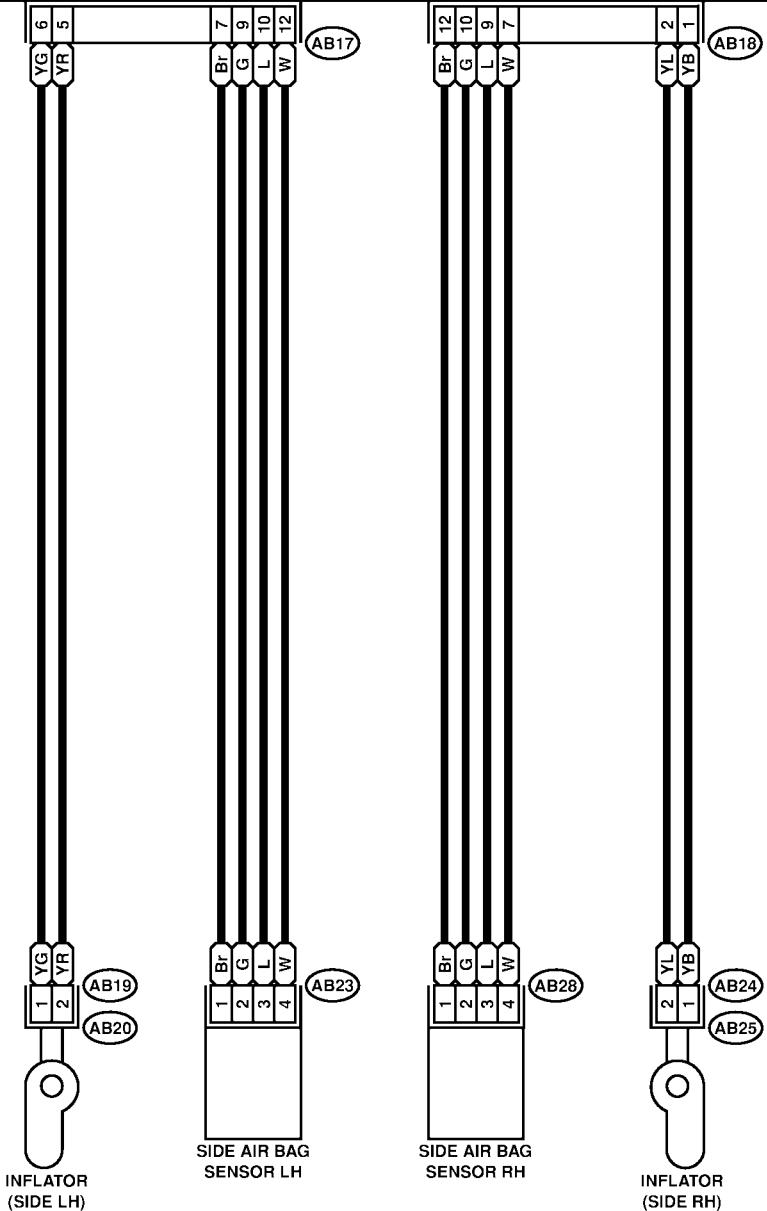


A/B CONTROL MODULE I/O SIGNAL

Airbag System (Diagnostics)

A/B(R)-03

A/B(R)-03



AIRBAG CONNECTOR

Airbag System (Diagnostics)

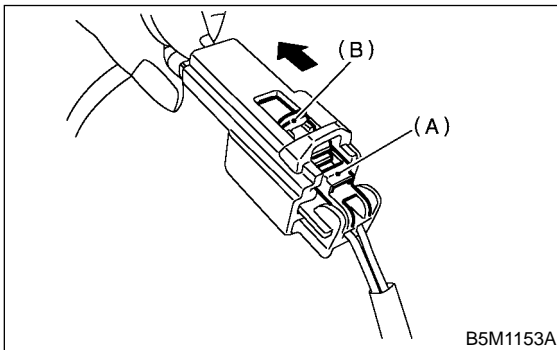
6. Airbag Connector S002659

A: OPERATION S002659A16

1. DRIVER'S AIRBAG, PASSENGER'S AIRBAG, SIDE AIRBAG S002659A1607

● How to disconnect:

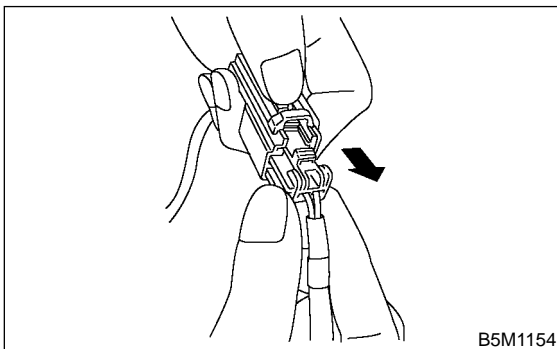
- 1) Push lock arm (A).
- 2) With lock arm (A) pushed in, move slide lock (B) in the direction of the arrow.



- 3) With slide lock (B) pulled, remove lock arm (A) to its original position, and then pull in the direction of the arrow and separate the connector.

CAUTION:

When pulling, be sure to hold onto the connector and not the wire.

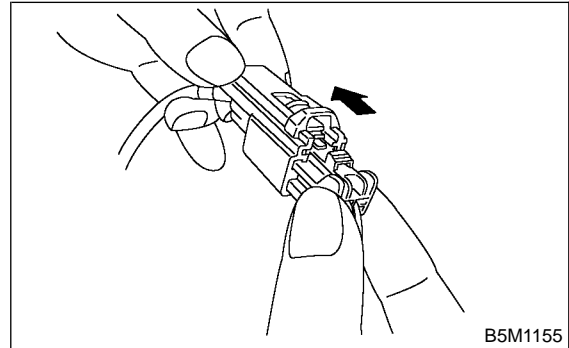


● How to connect:

Holding the connector, and push it in carefully until a connecting sound is heard.

CAUTION:

Be sure to insert the connector in until it locks. Then pull on it gently to make sure that it is locked.



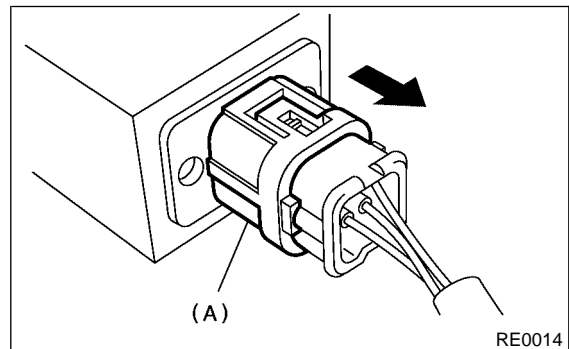
2. FRONT SUB-SENSOR, SIDE AIRBAG SENSOR S002659A1603

● How to disconnect:

- 1) Holding outer part (A), pull it in the direction of the arrow.

CAUTION:

When pulling, be sure to hold onto the connector and not the wire.

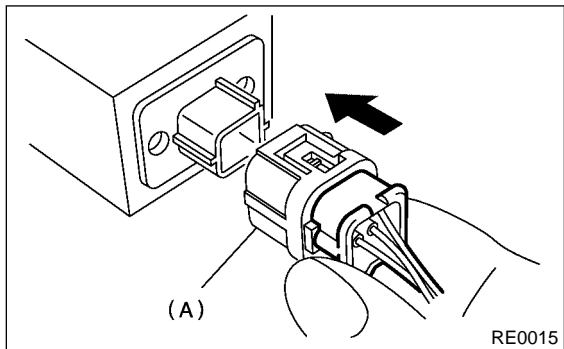


- **How to connect:**

Holding the connector, and push it in carefully until a connecting sound is heard.

CAUTION:

- **Outer (A) moves back, and so do not put your hand on the outer part.**
- **Be sure to insert the connector in until it locks. Then pull on it gently to make sure that it is locked.**



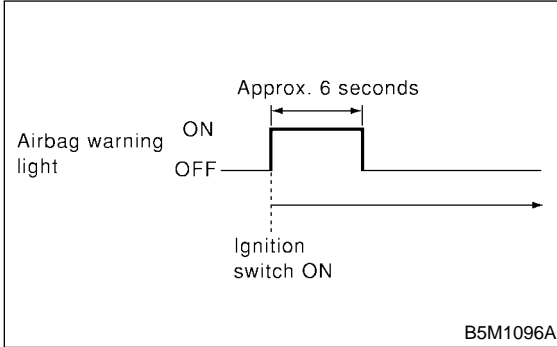
AIRBAG WARNING LIGHT ILLUMINATION PATTERN

Airbag System (Diagnostics)

7. Airbag Warning Light Illumination Pattern S002629

A: INSPECTION S002629A10

Keep the ignition switch ON, and confirm that the airbag warning light remains off approximately 6 seconds after being turned on.



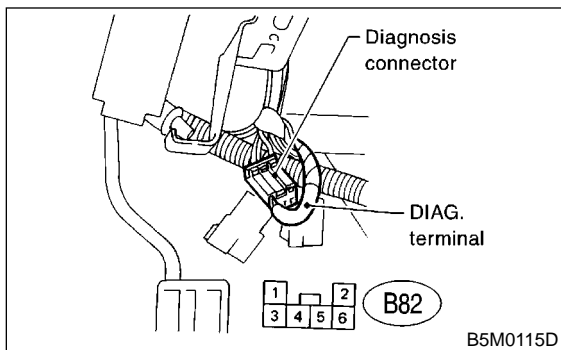
8. Read Diagnostic Trouble Code

S002508

A: OPERATION

S002508A16

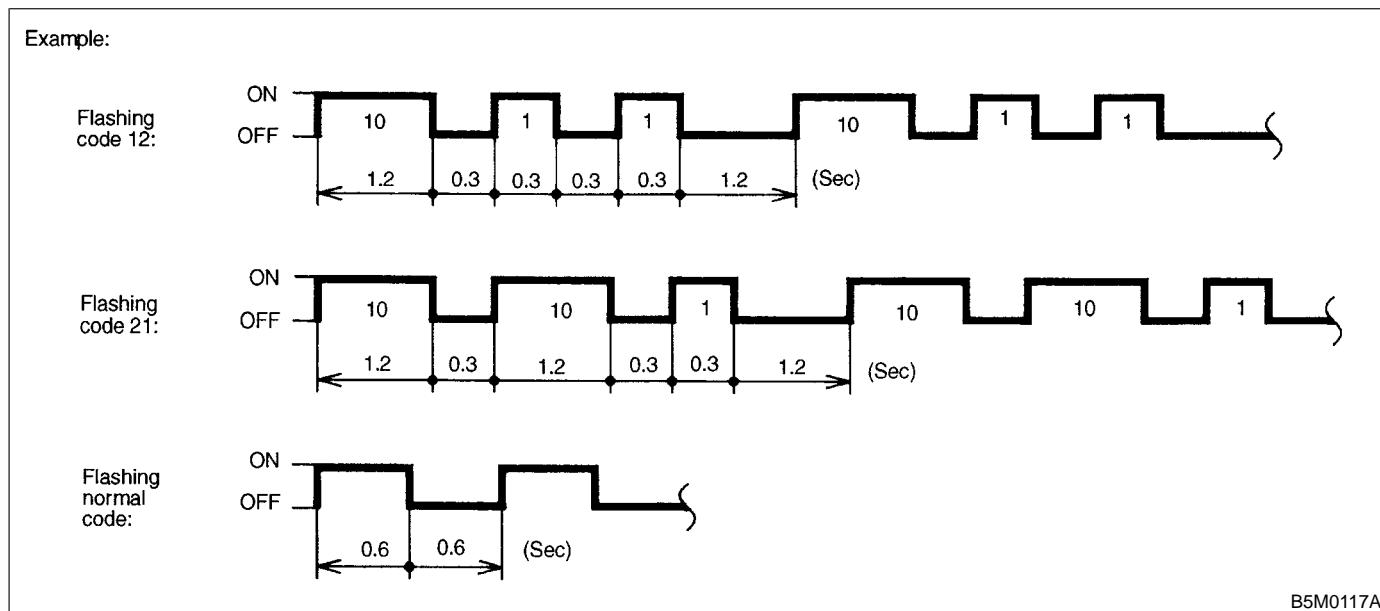
- 1) Turn the ignition switch ON.
- 2) Connect the diagnosis terminal to diagnosis connector terminal No. 1 in the driver's seat lower cover area.



- 3) Read trouble code by identifying the way the air bag warning light flashes.
The airbag warning light flashes a code corresponding to the faulty parts.
The long segment (1.2 sec on) indicates a "ten", and the short segment (0.3 sec on) indicates a "one".

NOTE:

- "List of Diagnostic Trouble Code" <Ref. to AB-36 List of Diagnostic Trouble Code.>
- "Airbag Warning Light Failure" <Ref. to AB-30 Airbag Warning Light Failure.>



B5M0117A

- 4) Turn the ignition switch OFF, and disconnect the diagnosis terminal from the diagnosis connector terminal No 1.
- 5) Wind tape around the diagnosis terminal and return it to its original position.

9. Inspection Mode S002510

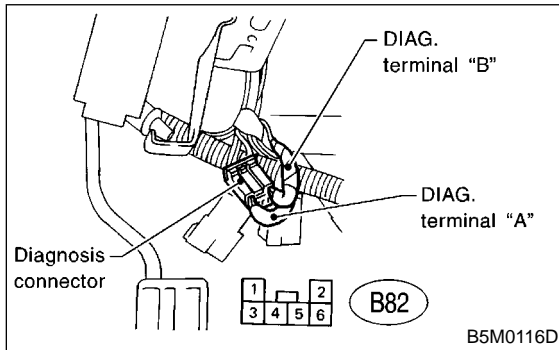
A: OPERATION S002510A16

Recreate the circumstance by referring to the conditions described in the checklist.

10. Clear Memory Mode S002513

A: OPERATION S002513A16

- 1) Turn the ignition switch ON.
- 2) Connect the diagnosis terminal "A" to diagnosis connector terminal No. 1 in the driver's seat lower cover area.



- 3) While the warning light flashes, connect another diagnosis terminal "B" to diagnosis connector terminal No.2.
- 4) Once the memory is erased, the warning light returns to the normal flash rate (0.6 sec on). The failure to recover the normal flash rate indicates that trouble parts still remain. Having repaired such parts, erase the memory again and confirm that the normal flash rate has returned.
- 5) When the memory has been cleared, disconnect the diagnosis terminal from the diagnosis connector.
- 6) Wind tape around the diagnosis terminal and return it to its original position.

11. Airbag Warning Light Failure S002681

A: AIRBAG WARNING LIGHT REMAINS ON. S002681E28

DIAGNOSIS:

- Airbag warning light unit is faulty.
- Airbag control module to airbag warning light circuit is shorted or open.
- Grounding circuit is faulty.
- Airbag control module is faulty.
- (AB1) and (B31) are not connected properly.
- (AB6) is not connected properly to airbag control module.

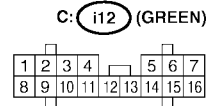
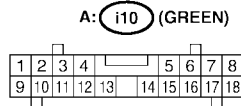
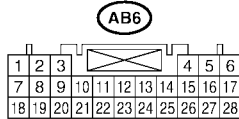
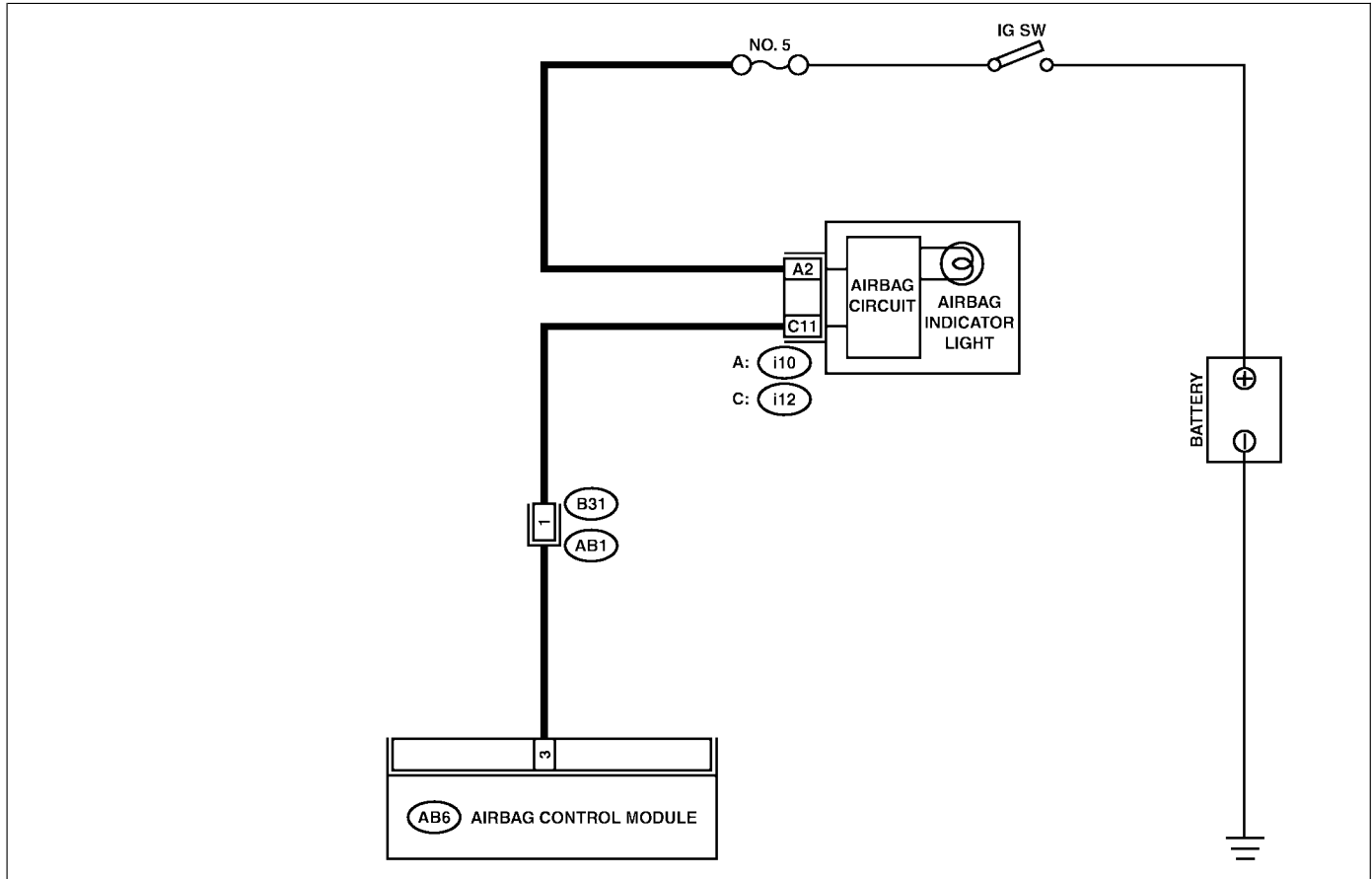
CAUTION:

- 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.
- 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.

AIRBAG WARNING LIGHT FAILURE

Airbag System (Diagnostics)

WIRING DIAGRAM:



S5M0462

| No. | Step | Check | Yes | No |
|-----|--|--|---|----------------------|
| 1 | <p>CHECK POOR CONTACT IN CONNECTORS (AB1) AND (B31).</p> <p>1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds.</p> <p>2) Remove front pillar lower trim. (Driver's side)</p> <p>3) Confirm that firm contact is secured between connectors (AB1) and (B31).</p> | <p>Is the poor contact in double lock of connectors (AB1) and (B31)?</p> | <p>Repair the body harness or replace airbag main harness.<Ref. to AB-16 Main Harness.></p> | <p>Go to step 2.</p> |

AIRBAG WARNING LIGHT FAILURE

Airbag System (Diagnostics)

| No. | Step | Check | Yes | No |
|-----|---|--|---|---|
| 2 | <p>CHECK AIRBAG WARNING LIGHT.</p> <p>1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds.</p> <p>2) Connect the connector (1A) in test harness A to the body harness connector (B31).</p> <p>3) Connect the battery ground cable and turn the ignition switch ON.</p> <p>4) Connect two connectors, (3A) and (4A) in test harness A.</p> | Is the airbag warning light turned off? | Go to step 4. | Go to step 3. |
| 3 | <p>CHECK BODY HARNESS.</p> <p>Check the body harness.</p> <p>NOTE: After problem has been eliminated, disconnect connectors (3A) and (4A).</p> | Is there anything unusual to body harness? | Repair the body harness. | Replace combination meter printed circuit. <Ref. to IDI-15 Combination Meter Assembly.> |
| 4 | <p>CHECK POOR CONTACT.</p> <p>Confirm that firm contact is secured between the airbag control module and the connector (AB6). <Ref. to AB-18 Airbag Control Module.></p> | Is there poor contact in connector (AB6)? | Replace airbag main harness. <Ref. to AB-16 Main Harness.> or Replace the airbag control module. <Ref. to AB-18 Airbag Control Module.> | Go to step 5. |
| 5 | <p>CHECK AIRBAG MAIN HARNESS.</p> <p>1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds.</p> <p>2) Connect the connector (AB1) to (B31).</p> <p>3) Disconnect connectors (AB3) and (AB8).</p> <p>4) Remove glove box and disconnect connectors (AB10) and (AB9).</p> <p>5) Disconnect the connector (AB6) from the airbag control module, and connect the connector (1I) in test harness I or I2. <Ref. to AB-18 Airbag Control Module.></p> <p>6) Connect the battery ground cable and turn the ignition switch ON.</p> <p>7) Connect connectors (4I) and (5I) in test harness I or I2.</p> <p>NOTE: After problem has been eliminated, disconnect connectors (4I) and (5I).</p> | Is the airbag warning light turned off? | Go to step 6. | Replace airbag main harness. <Ref. to AB-16 Main Harness.> |
| 6 | <p>CHECK GROUNDING CIRCUIT.</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 (AB1) from the body harness connector (B31).</p> <p>3) Connect the connector (1A) in test harness A to body harness connector (B31).</p> <p>4) Measure the resistance between connector (5A) in test harness A and the chassis ground.</p> <p>Connector & terminal (5A) No. 17 — Chassis ground: (5A) No. 18 — Chassis ground:</p> | Is the resistance less than 10 Ω? | Go to step 7. | Repair body-grounding circuit. |

AIRBAG WARNING LIGHT FAILURE

Airbag System (Diagnostics)

| No. | Step | Check | Yes | No |
|-----|--|---|---|--|
| 7 | <p>CHECK AIRBAG MAIN HARNESS.</p> <p>1) Connect the connector (AB1) to (B31). 2) Disconnect the connector (AB6) from the airbag control module, and connect the connector (11) in test harness I or I2. <Ref. to AB-18 Airbag Control Module.> 3) Measure the resistance between connector (21) in test harness I or I2 and the chassis ground.</p> <p>Connector & terminal (21) No. 9 — Chassis ground: (21) No. 10 — Chassis ground:</p> | Is the resistance less than 10 Ω ? | Replace the airbag control module. <Ref. to AB-18 Airbag Control Module.> | Replace airbag main harness. <Ref. to AB-16 Main Harness.> |

AIRBAG WARNING LIGHT FAILURE

Airbag System (Diagnostics)

B: AIRBAG WARNING LIGHT REMAINS OFF. S002681E27

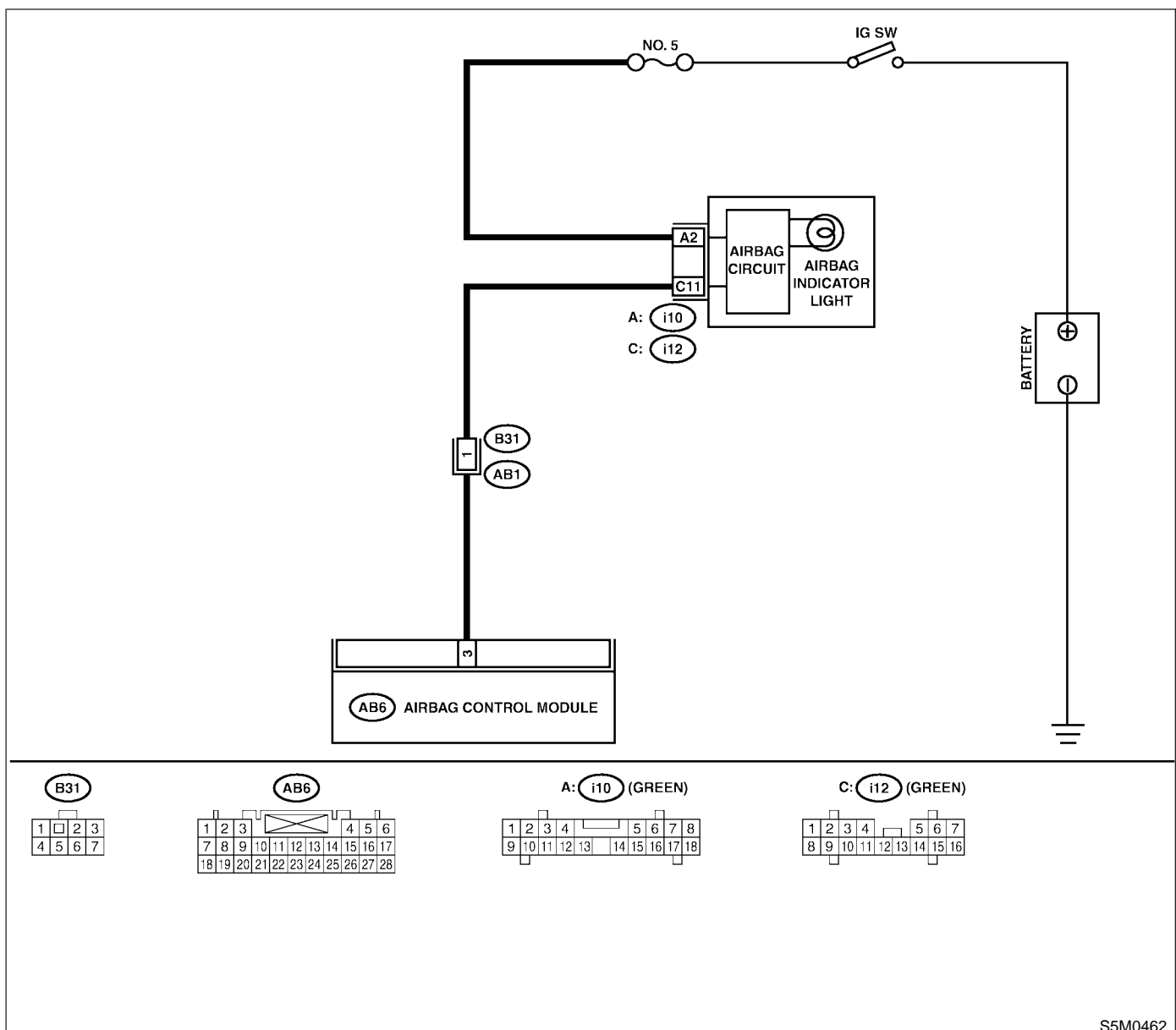
DIAGNOSIS:

- Fuse No. 5 (in fuse box) is blown.
- Body harness circuit is open.
- Airbag warning light is faulty.
- Airbag main 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 airbag main harness, disconnect the airbag module connector of the driver and passenger seats for safety reasons.

WIRING DIAGRAM:



S5M0462

AIRBAG WARNING LIGHT FAILURE

Airbag System (Diagnostics)

| No. | Step | Check | Yes | No |
|-----|---|---|---|--|
| 1 | CHECK COMBINATION METER. Turn the ignition switch ON, and confirm that warning lights equipped in the combination meter are turned on. | Do warning lights not for the airbag turn on? | Go to step 2. | Repair combination meter power supply. <Ref. to IDI-4 Combination Meter System.> |
| 2 | CHECK FUSE NO. 5 (IN MAIN FUSE BOX). Remove fuse No. 5 and perform visual inspection. | Is fuse No. 5 (in main fuse box) blown? | Replace fuse No. 5. If fuse No. 5 blows again, go to step 3. | Go to step 3. |
| 3 | CHECK AIRBAG WARNING LIGHT CIRCUIT (IN COMBINATION METER). 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect the connector (AB1) from (B31). 3) Connect the battery ground cable and turn the ignition switch ON. | Is the airbag warning light turned on? | Go to step 4. | Replace airbag warning light bulb or combination meter printed circuit. <Ref. to IDI-15 Combination Meter Assembly.> |
| 4 | CHECK AIRBAG MAIN HARNESS. 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Connect the connector (AB1) to (B31). 3) Disconnect the connector (AB6) from the airbag control module. <Ref. to AB-18 Airbag Control Module.> 4) Connect the battery ground cable and turn the ignition switch ON. | Is the airbag warning light turned on? | Replace the airbag control module. <Ref. to AB-18 Airbag Control Module.> | Replace airbag main harness. <Ref. to AB-16 Main Harness.> |

LIST OF DIAGNOSTIC TROUBLE CODE

Airbag System (Diagnostics)

12. List of Diagnostic Trouble Code S002511

A: LIST S002511A12

| Trouble code/ Contents of troubles | Memory function | Contents of diagnosis | Index No. |
|---------------------------------------|-----------------|---|--|
| 11 | Provided. | <ul style="list-style-type: none"> ● 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. ● Airbag control module is faulty. ● Driver's airbag module is faulty. | <Ref. to AB-39 TROUBLE CODE 11, Diagnostic Chart with Trouble Code.> |
| 12 | Provided. | <ul style="list-style-type: none"> ● Airbag main harness circuit is open, shorted or shorted to ground. ● Airbag module harness (passenger) circuit is open, shorted or shorted to ground. ● Airbag control module is faulty. ● Passenger's airbag module is faulty. | <Ref. to AB-43 TROUBLE CODE 12, Diagnostic Chart with Trouble Code.> |
| 15 | Provided. | <ul style="list-style-type: none"> ● Airbag main harness circuit (driver) is shorted to power supply. ● Airbag module harness (driver) is shorted to power supply. ● Roll connector is shorted to power supply. ● Airbag control module is faulty. ● Driver's airbag module is faulty. | <Ref. to AB-45 TROUBLE CODE 15, Diagnostic Chart with Trouble Code.> |
| 16 | Provided. | <ul style="list-style-type: none"> ● Airbag main harness circuit (passenger) is shorted to power supply. ● Airbag module harness (passenger) is shorted to power supply. ● Airbag control module is faulty. ● Passenger's airbag module is faulty. | <Ref. to AB-47 TROUBLE CODE 16, Diagnostic Chart with Trouble Code.> |
| 21 | Provided. | Airbag control module is faulty. | <Ref. to AB-48 TROUBLE CODE 21, Diagnostic Chart with Trouble Code.> |
| 22 | Provided. | Front airbag module is inflated. | <Ref. to AB-49 TROUBLE CODE 22, Diagnostic Chart with Trouble Code.> |
| 23 | Not provided. | (AB6), (AB17) and (AB18) are not connected properly to airbag control module. | <Ref. to AB-50 TROUBLE CODE 23, Diagnostic Chart with Trouble Code.> |
| 24 | Not provided. | <ul style="list-style-type: none"> ● Airbag control module is faulty. ● Airbag main harness circuit is open. ● Fuse No. 11 (in joint box) is blown. ● Body harness circuit is open. | <Ref. to AB-51 TROUBLE CODE 24, Diagnostic Chart with Trouble Code.> |
| 25 | Provided. | <ul style="list-style-type: none"> ● Airbag control module is faulty. ● Airbag main harness circuit is open. ● Fuse No. 6 (in joint box) is blown. ● Body harness circuit is open. | <Ref. to AB-53 TROUBLE CODE 25, Diagnostic Chart with Trouble Code.> |
| 31 | Provided. | <ul style="list-style-type: none"> ● 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. | <Ref. to AB-55 TROUBLE CODE 31, Diagnostic Chart with Trouble Code.> |

LIST OF DIAGNOSTIC TROUBLE CODE

Airbag System (Diagnostics)

| Trouble code/ Contents of troubles | Memory function | Contents of diagnosis | Index No. |
|---------------------------------------|-----------------|---|---|
| 32 | Provided. | <ul style="list-style-type: none"> ● 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. | <Ref. to AB-59 TROUBLE CODE 32, Diagnostic Chart with Trouble Code.> |
| 41 | Provided. | <ul style="list-style-type: none"> ● Side airbag harness (RH) is faulty. ● Side airbag module (RH) is faulty. ● Airbag control module is faulty. | <Ref. to AB-63 TROUBLE CODE 41, Diagnostic Chart with Trouble Code.> |
| 42 | Provided. | <ul style="list-style-type: none"> ● Side airbag harness (LH) is faulty. ● Side airbag module (LH) is faulty. ● Airbag control module is faulty. | <Ref. to AB-65 TROUBLE CODE 42, Diagnostic Chart with Trouble Code.> |
| 45 | Provided. | <ul style="list-style-type: none"> ● Side airbag harness (RH) is shorted to power supply. ● Airbag control module is faulty. | <Ref. to AB-67 TROUBLE CODE 45, Diagnostic Chart with Trouble Code.> |
| 46 | Provided. | <ul style="list-style-type: none"> ● Side airbag harness (LH) is shorted to power supply. ● Airbag control module is faulty. | <Ref. to AB-69 TROUBLE CODE 46, Diagnostic Chart with Trouble Code.> |
| 51 | Provided. | <ul style="list-style-type: none"> ● Side airbag sensor (RH) is faulty. ● Side airbag harness (RH) is faulty. ● Airbag control module is faulty. | <Ref. to AB-71 TROUBLE CODE 51, Diagnostic Chart with Trouble Code.> |
| 52 | Provided. | <ul style="list-style-type: none"> ● Side airbag sensor (LH) is faulty. ● Side airbag harness (LH) is faulty. ● Airbag control module is faulty. | <Ref. to AB-73 TROUBLE CODE 52, Diagnostic Chart with Trouble Code.> |
| 53 | Provided. | Side airbag sensor (RH) is faulty. | <Ref. to AB-74 TROUBLE CODE 53, Diagnostic Chart with Trouble Code.> |
| 54 | Provided. | Side airbag sensor (LH) is faulty. | <Ref. to AB-74 TROUBLE CODE 54, Diagnostic Chart with Trouble Code.> |
| 55 | Provided. | Side airbag module is inflated. | <Ref. to AB-74 TROUBLE CODE 55, Diagnostic Chart with Trouble Code.> |

LIST OF DIAGNOSTIC TROUBLE CODE

Airbag System (Diagnostics)

MEMO:

13. Diagnostic Chart with Trouble Code S002630

A: TROUBLE CODE 11 S002630C38

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.

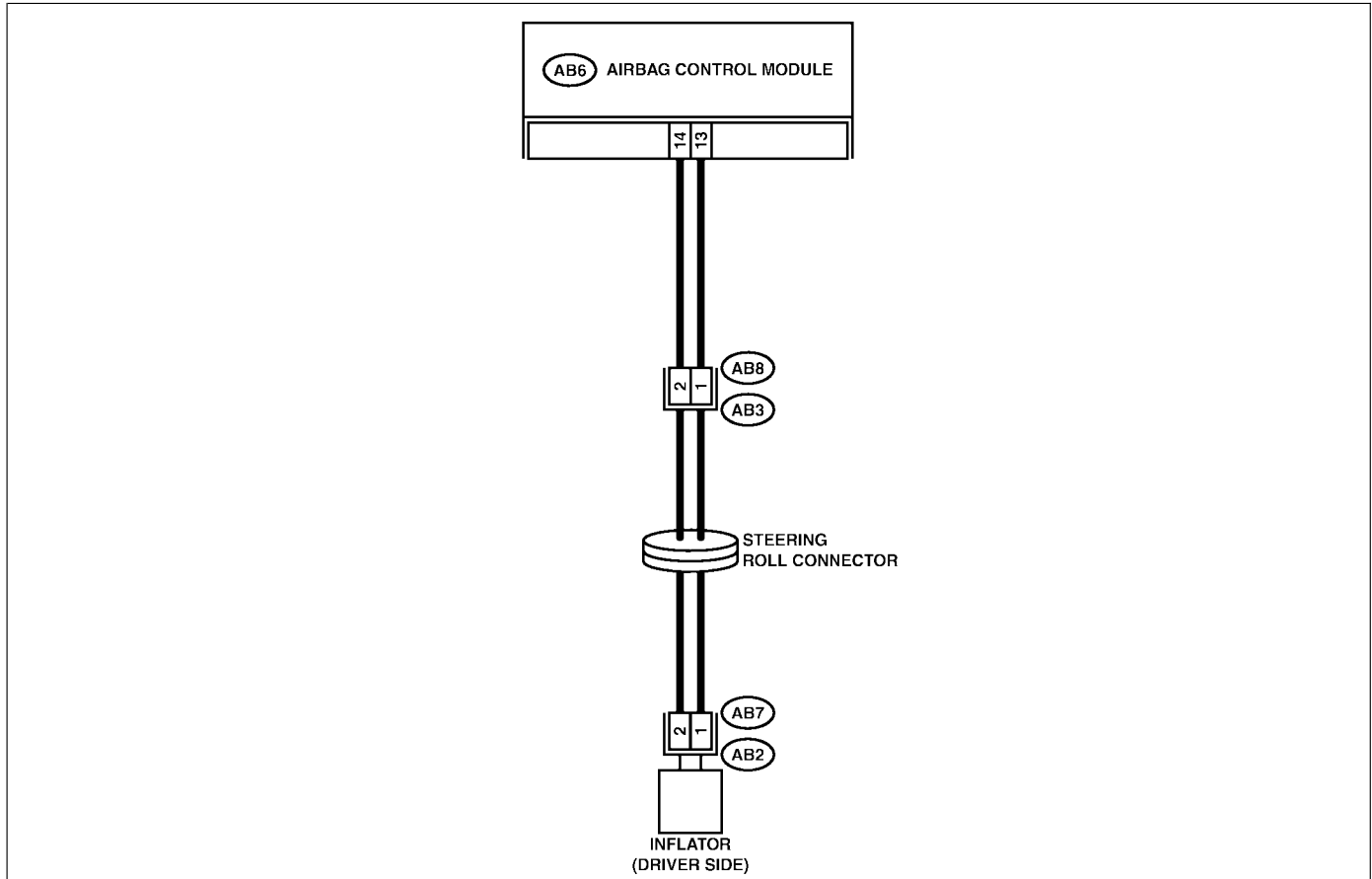
CAUTION:

- 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.

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

WIRING DIAGRAM:

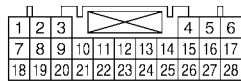


AB7 (YELLOW)

AB8 (YELLOW)



AB6 (YELLOW)



S5M0463

| No. | Step | Check | Yes | No |
|-----|--|---|---|---------------|
| 1 | <p>CHECK DRIVER'S AIRBAG MODULE.</p> <p>1) Turn the ignition switch OFF, disconnect battery ground cable, and wait more than 20 seconds.</p> <p>2) Remove the driver's airbag module. <Ref. to AB-12 Driver's Airbag Module.></p> <p>3) Connect the connector (1F) in test harness F to connector (AB7).</p> <p>4) Connect airbag resistor to connector (3F) in test harness F.</p> <p>5) Connect the battery ground cable and turn the ignition switch ON.</p> | 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. |

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

| No. | Step | Check | Yes | No |
|-----|--|---|---|--|
| 2 | <p>CHECK ROLL CONNECTOR.</p> <p>1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 second.</p> <p>2) Disconnect the test harness from the connector (AB7).</p> <p>3) Remove the lower cover panel, disconnect the connector (AB3) from (AB8) and connect the connector (1F) in test harness F to connector (AB8).</p> <p>4) Connect the airbag resistor to connector (3F) in test harness F.</p> <p>5) Connect the battery ground cable and turn the ignition switch ON.</p> | Does the airbag warning light operate properly? | Replace the roll connector. <Ref. to AB-20 Roll Connector.> | Go to step 3. |
| 3 | <p>CHECK AIRBAG MAIN HARNESS.</p> <p>1) Turn the ignition switch OFF, disconnect the ground cable, and wait more than 20 seconds.</p> <p>2) Disconnect the airbag resistor from the connector (3F) in test harness F.</p> <p>3) Remove the glove box, <Ref. to AB-14 Passenger's Airbag Module.> and disconnect connectors (AB10) and (AB9).</p> <p>4) Disconnect the connector (AB6) from the airbag control module, and connect the connector (1I) in test harness I or I2. <Ref. to AB-18 Airbag Control Module.></p> <p>5) Measure the resistance between connector (2I) in test harness I or I2 and the connector (3F) in test harness F.</p> <p>Connector & terminal</p> <p>(2I) No. 1 — (3F) No. 3:</p> <p>(2I) No. 4 — (3F) No. 4:</p> | Is the resistance less than 10 Ω? | Go to step 4. | Replace airbag main harness. <Ref. to AB-16 Main Harness.> |
| 4 | <p>CHECK AIRBAG MAIN HARNESS.</p> <p>Measure the resistance of the connector (2I) in test harness I or I2.</p> <p>Connector & terminal</p> <p>(2I) No. 1 — No. 4:</p> <p>(2I) No. 4 — Chassis ground:</p> <p>(2I) No. 1 — Chassis ground:</p> | Is the resistance more than 1 MΩ? | Replace the airbag control module. <Ref. to AB-18 Airbag Control Module.> | Replace airbag main harness. <Ref. to AB-16 Main Harness.> |

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

MEMO:

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

B: TROUBLE CODE 12 S002630C40

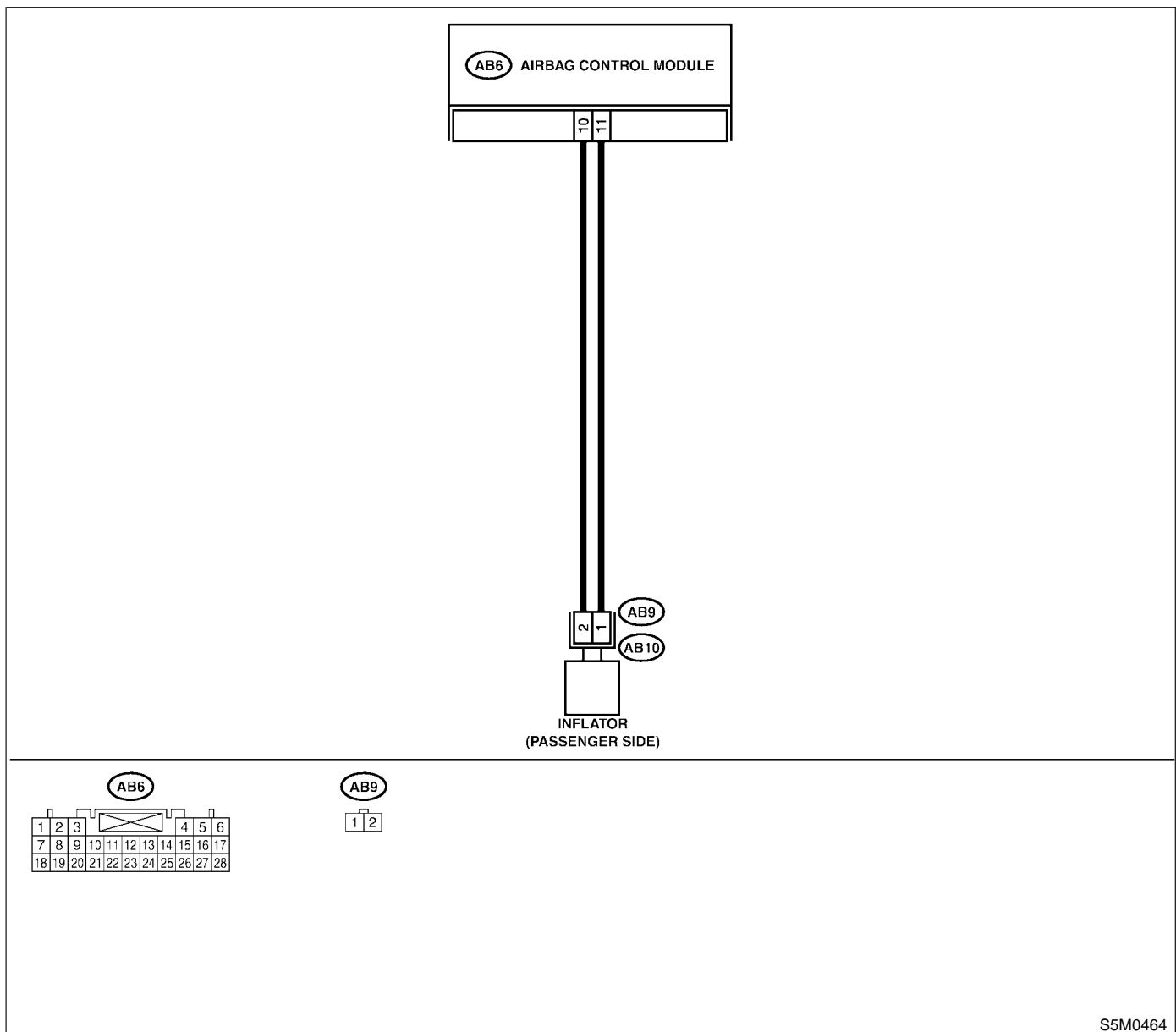
DIAGNOSIS:

- 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:



S5M0464

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

| No. | Step | Check | 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) Remove the glove box. 3) Disconnect the connector (AB10) from (AB9). 4) Connect the connector (1F) in test harness F to connector (AB9). 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? | 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 the airbag resistor from the connector (3F) in test harness F. 3) Remove lower cover and disconnect the connector (AB3) from (AB8). 4) Disconnect the connector (AB6) from the airbag control module, and connect the connector (1I) in test harness I or I2. <Ref. to AB-18 Airbag Control Module.> 5) Measure the resistance between connector (2I) in test harness I or I2 and the connector (3F) in test harness F. Connector & terminal (2I) No. 2 — (3F) No. 3: (2I) No. 5 — (3F) No. 4: | Is the resistance less than 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 I or I2. Connector & terminal (2I) No. 2 — No. 5: (2I) No. 2 — Chassis ground: (2I) No. 5 — Chassis ground: | Is the resistance more than 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 TROUBLE CODE

Airbag System (Diagnostics)

C: TROUBLE CODE 15 S002630C41

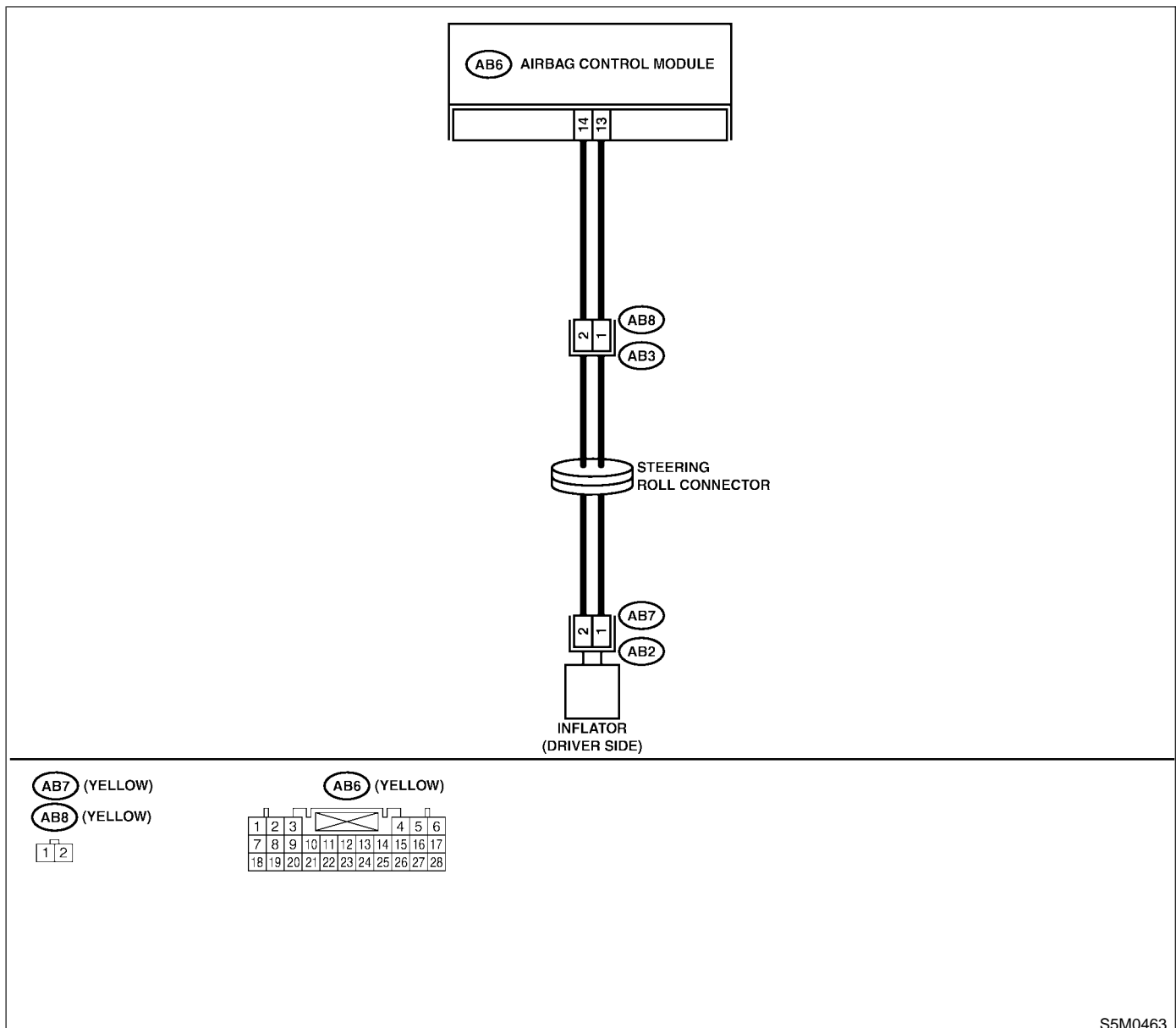
DIAGNOSIS:

- 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:



S5M0463

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

| No. | Step | Check | Yes | No |
|-----|---|---|---|--|
| 1 | <p>CHECK DRIVER'S AIRBAG MODULE.</p> <p>1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds.</p> <p>2) Remove the driver's airbag module. <Ref. to AB-12 Driver's Airbag Module.></p> <p>3) Connect the connector (AB7) to connector (1F) in test harness F.</p> <p>4) Connect the airbag resistor to connector (3F) in test harness F.</p> <p>5) Connect the battery ground cable and turn the ignition switch ON.</p> | 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 | <p>CHECK ROLL CONNECTOR.</p> <p>1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds.</p> <p>2) Disconnect the test harness from the connector (AB7).</p> <p>3) Remove the lower cover panel and disconnect the connector (AB3) from (AB8).</p> <p>4) Connect the connector (1F) in test harness F to connector (AB8).</p> <p>5) Connect the airbag resistor to connector (3F) in test harness F.</p> <p>6) Connect the battery ground cable and turn the ignition switch ON.</p> | Does the airbag warning light operate properly? | Replace the roll connector. <Ref. to AB-20 Roll Connector.> | Go to step 3. |
| 3 | <p>CHECK AIRBAG MAIN HARNESS.</p> <p>1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds.</p> <p>2) Disconnect the airbag resistor from the connector (3F) in test harness F.</p> <p>3) Remove the glove box, and disconnect connectors (AB10) and (AB9).</p> <p>4) Disconnect the connector (AB6) from the airbag control module, and connect the connector (1I) in test harness I or I2. <Ref. to AB-18 Airbag Control Module.></p> <p>5) Connect the battery ground cable and turn the ignition switch ON. (Engine OFF)</p> <p>6) Measure the voltage between connector (2I) in test harness I or I2 and the chassis ground.</p> <p>Connector & terminal</p> <p>(2I) No. 4 (+) — Chassis ground (-):</p> <p>(2I) No. 1 (+) — Chassis ground (-):</p> | Is the voltage less than 1 V? | Replace the airbag control module. <Ref. to AB-18 Airbag Control Module.> | Replace airbag main harness. <Ref. to AB-16 Main Harness.> |

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

D: TROUBLE CODE 16 S002630C42

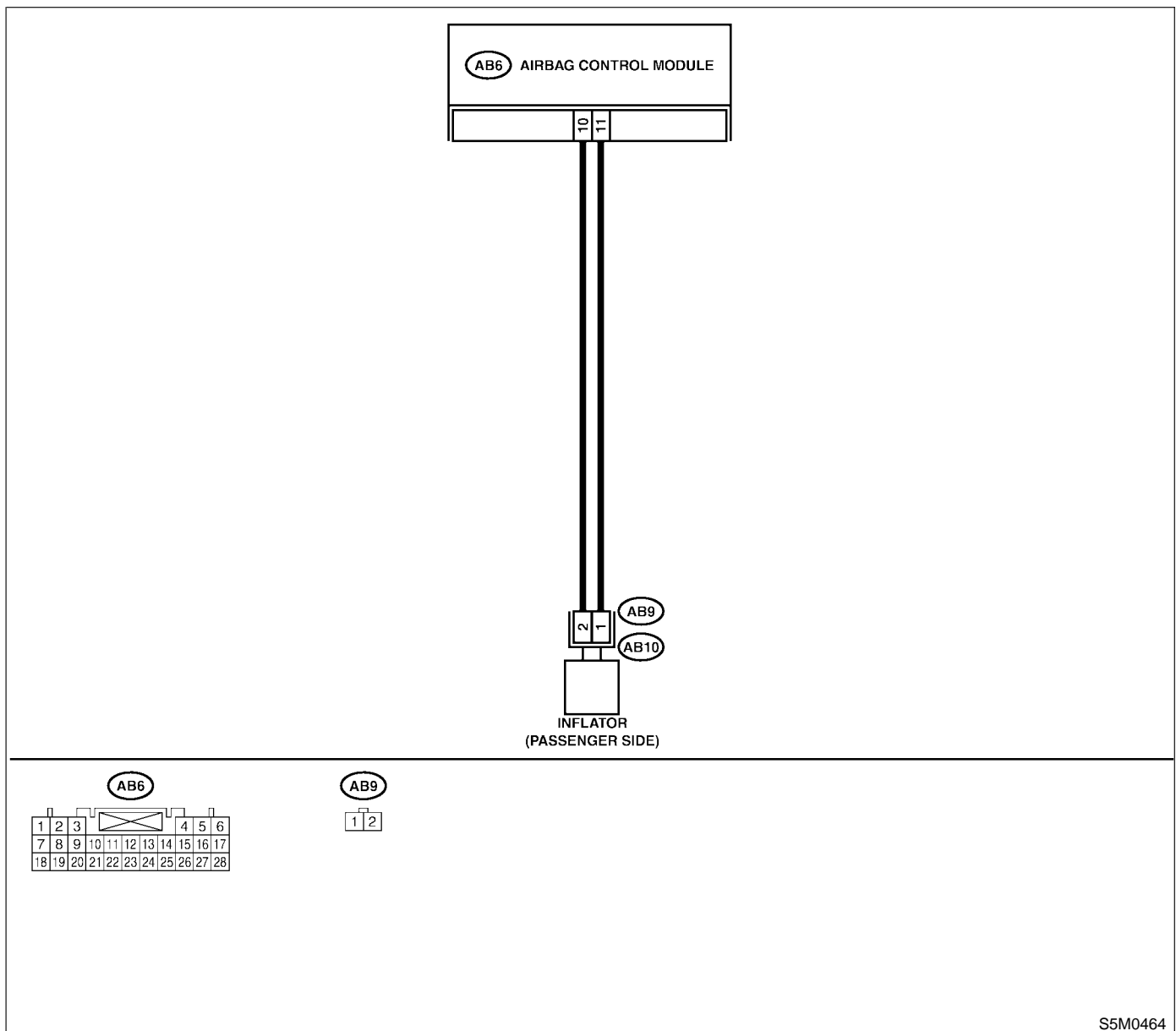
DIAGNOSIS:

- 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:



S5M0464

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

| No. | Step | Check | 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) Remove the glove box. 3) Disconnect the connector (AB10) from (AB9) 4) Connect the connector (1F) in test harness F to connector (AB9). 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? | 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 the airbag resistor from the connector (3F) in test harness F. 3) Remove the lower cover and disconnect the connector (AB3) from (AB8). 4) Disconnect the connector (AB6) from the airbag control module, and connect the connector (1I) in test harness I or I2. <Ref. to AB-18 Airbag Control Module.> 5) Measure the voltage between connector (2I) in test harness I or I2 and the chassis ground. Connector & terminal (2I) No. 2 — Chassis ground: (2I) No. 5 — Chassis ground: | Is the voltage less than 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: TROUBLE CODE 21 S002630C45

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.

| No. | Step | Check | Yes | No |
|-----|---|--|---|--|
| 1 | CHECK IF TROUBLE CODE 21 IS INDICATED. Read Diagnostic Trouble Code. <Ref. to AB-27 Read Diagnostics Trouble Code.> | Is airbag warning light trouble code 21 indicated? | Replace the airbag control module. <Ref. to AB-18 Airbag Control Module.> | Perform clear memory. <Ref. to AB-29 Clear Memory Mode.> |

F: TROUBLE CODE 22 S002630C51

This code is indicated when the front airbag is in operation.

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

- Airbag control module. <Ref. to AB-18 Airbag Control Module.>
- Driver's airbag module. <Ref. to AB-12 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.>

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

G: TROUBLE CODE 23 S002630C56

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.

| No. | Step | Check | 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. | 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.> | Go to step 2. |
| 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 airbag warning light operate properly? | Finish the diagnosis. | Replace the airbag control module. <Ref. to AB-18 Airbag Control Module.> |

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

H: TROUBLE CODE 24 S002630C61

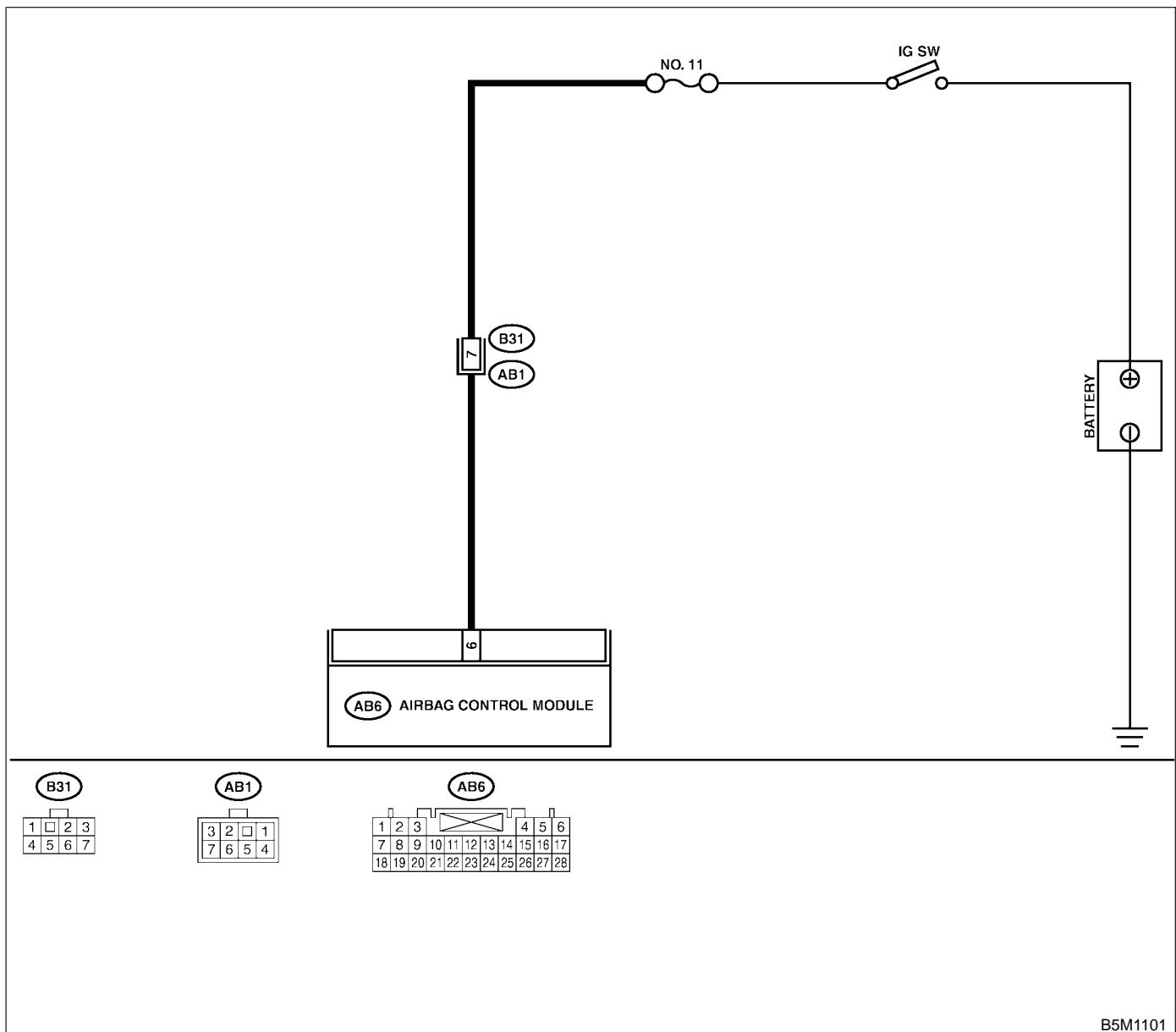
DIAGNOSIS:

- 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:



B5M1101

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

| No. | Step | Check | Yes | No |
|-----|---|-----------------------------------|---|--|
| 1 | <p>CHECK AIRBAG CONTROL MODULE.</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 (AB6) from the airbag control module. <Ref. to AB-18 Airbag Control Module.></p> <p>3) Connect the connector (1I) in test harness I or I2 to connector (AB6).</p> <p>4) Connect the battery ground cable and turn the ignition switch ON.</p> <p>5) Measure the voltage between connector (2I) in test harness I or I2 and chassis ground.</p> <p>Connector & terminal (2I) No. 3 (+) — Chassis ground (-):</p> | Is the voltage more than 10 V? | Replace the airbag control module. <Ref. to AB-18 Airbag Control Module.> | Go to step 2. |
| 2 | <p>CHECK AIRBAG MAIN HARNESS.</p> <p>1) While checking control module, turn the ignition switch OFF and disconnect the battery ground cable. Wait more than 20 seconds before operation.</p> <p>2) Disconnect the airbag connector (AB1) from the body harness (B31).</p> <p>3) Connect the connector (2A) in test harness A to connector (AB1).</p> <p>4) Measure the resistance between connector (5A) in test harness A and the connector (2I) in test harness I or I2.</p> <p>Connector & terminal (5A) No. 9 — (2I) No. 3:</p> | Is the resistance less than 10 Ω? | Go to step 3. | Replace airbag main harness. <Ref. to AB-16 Main Harness.> |
| 3 | <p>CHECK AIRBAG MAIN HARNESS.</p> <p>Measure the following resistance with the above-mentioned condition maintained.</p> <p>Connector & terminal (5A) No. 9 — Chassis ground: (2I) No. 3 — Chassis ground:</p> | Is the resistance more than 1 MΩ? | Go to step 4. | Replace airbag main harness. <Ref. to AB-16 Main Harness.> |
| 4 | <p>CHECK FUSE No. 11 (IN JOINT BOX).</p> <p>1) Confirm that the ignition switch is turned OFF.</p> <p>2) Remove fuse No. 11 (in joint box) and perform visual inspection.</p> | Is fuse No. 11 blown? | Replace fuse No. 11. If fuse No. 11 blows again, repair the body harness. | Repair the body harness. |

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

I: TROUBLE CODE 25 S002630C66

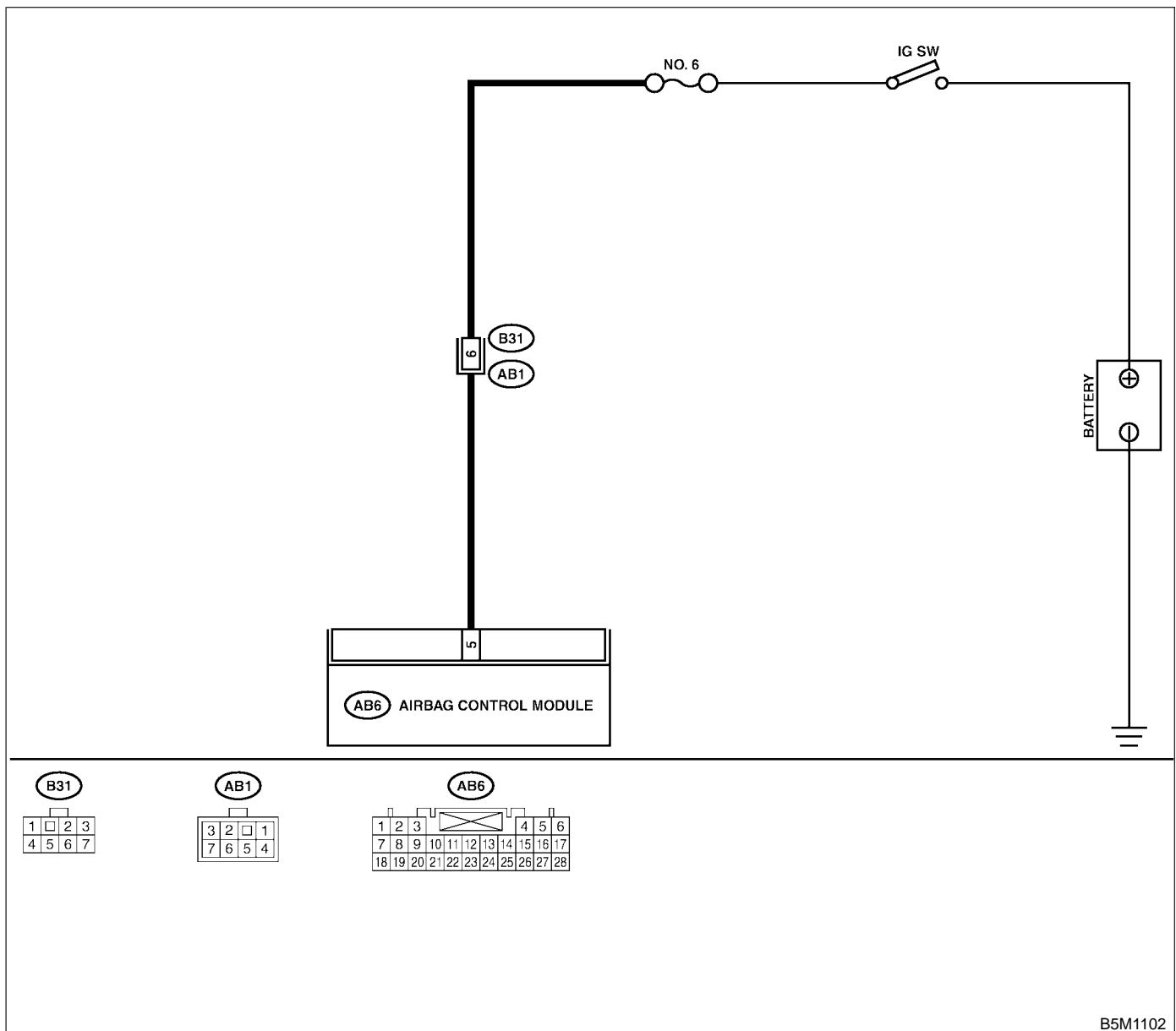
DIAGNOSIS:

- 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:



B5M1102

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

| No. | Step | Check | Yes | No |
|-----|--|-----------------------------------|--|--|
| 1 | <p>CHECK AIRBAG CONTROL MODULE.</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 (AB6) from airbag control module. <Ref. to AB-18 Airbag Control Module.></p> <p>3) Connect the connector (11) in test harness I or I2 to connector (AB6).</p> <p>4) Connect the battery ground cable, and turn the ignition switch ON.</p> <p>5) Measure the voltage between the connector (21) in test harness I or I2 and the chassis ground.</p> <p>Connector & terminal (21) No. 6 (+) — Chassis ground (-):</p> | Is the voltage more than 10 V? | Replace the airbag control module. <Ref. to AB-18 Airbag Control Module.> | Go to step 2. |
| 2 | <p>CHECK AIRBAG MAIN HARNESS.</p> <p>1) While checking control module, turn the ignition switch OFF and disconnect the battery ground cable. Wait more than 20 seconds before operation.</p> <p>2) Disconnect the airbag connector (AB1) from the body harness (B31).</p> <p>3) Connect the connector (2A) in test harness A to the airbag connector (AB1).</p> <p>4) Measure the resistance between the connector (5A) in test harness A and the connector (21) in test harness I or I2.</p> <p>Connector & terminal (5A) No. 1 — (21) No. 6:</p> | Is the resistance less than 10 Ω? | Go to step 3. | Replace the airbag main harness. <Ref. to AB-16 Main Harness.> |
| 3 | <p>CHECK AIRBAG MAIN HARNESS.</p> <p>Measure the following resistance with the above-mentioned condition maintained.</p> <p>Connector & terminal (5A) No. 1 — Chassis ground: (21) No. 6 — Chassis ground:</p> | Is the resistance more than 1 MΩ? | Go to step 4. | Replace the airbag main harness. <Ref. to AB-16 Main Harness.> |
| 4 | <p>CHECK FUSE NO. 6 (IN JOINT BOX).</p> <p>1) Confirm that the ignition switch is turned OFF.</p> <p>2) Remove No. 6 fuse (in joint box) and perform visual inspection.</p> | Is fuse No. 6 blown? | Replace fuse No. 6. If fuse No. 6 is blown again, repair the body harness. | Repair the body harness. |

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

J: TROUBLE CODE 31 S002630C89

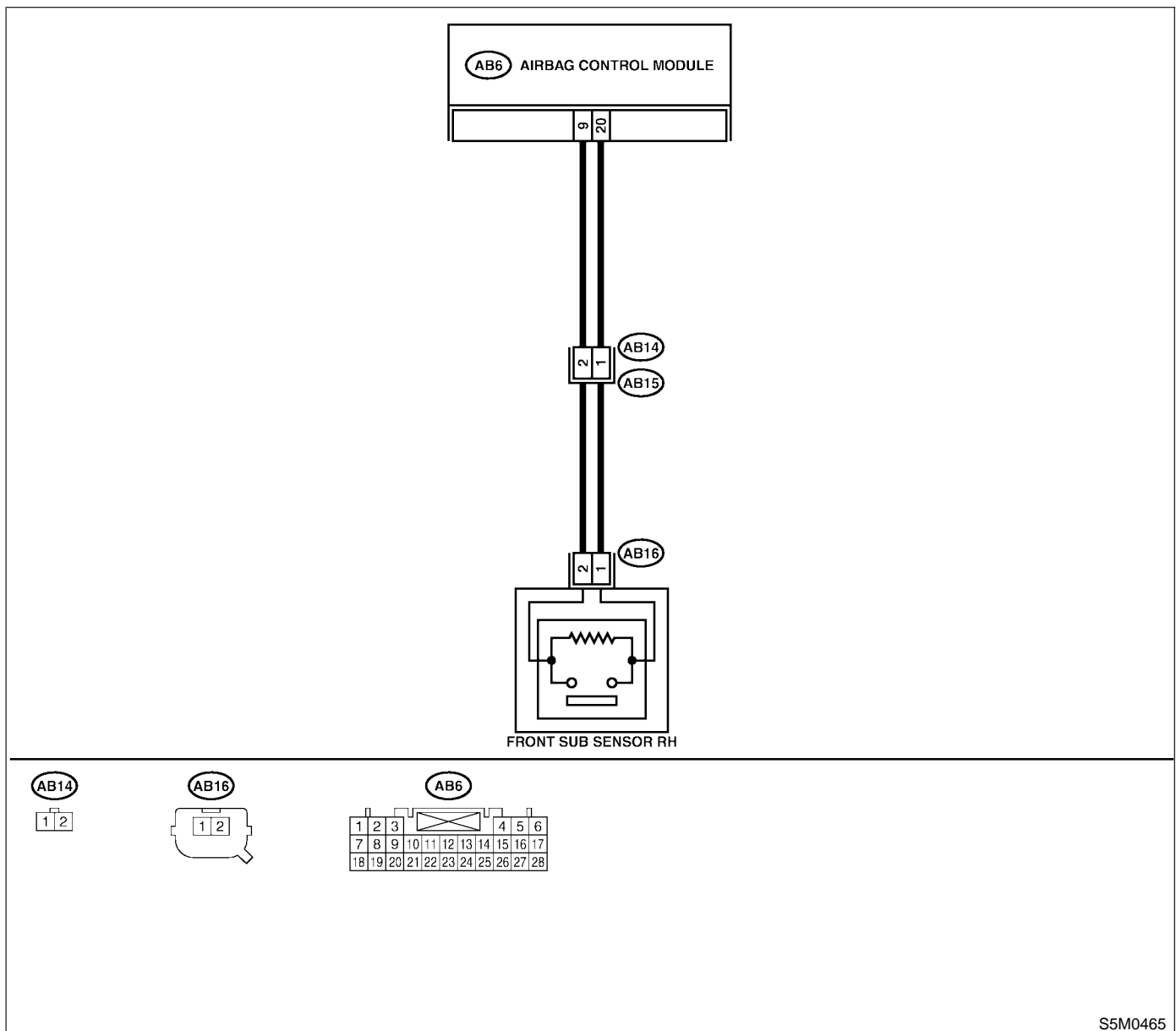
DIAGNOSIS:

- 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:



S5M0465

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

| No. | Step | Check | Yes | No |
|-----|--|--|---|--|
| 1 | <p>CHECK FRONT SUB-SENSOR (RH) 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 the connector (AB6) from the airbag control module, and connect the connector (1I) in test harness I or I2. <Ref. to AB-18 Airbag Control Module.></p> <p>3) Measure the resistance of the connector (3I) in test harness I or I2.</p> <p>Connector & terminal (3I) No. 2 — No. 4:</p> | Is the resistance between 750Ω and 1 KΩ? | Go to step 2. | Go to step 3. |
| 2 | <p>CHECK FRONT SUB-SENSOR (RH) AND FRONT SUB-SENSOR HARNESS (RH).</p> <p>Measure the resistance between connector (3I) in test harness I or I2 and the chassis ground.</p> <p>Connector & terminal (3I) No. 2 — Chassis ground: (3I) No. 4 — Chassis ground:</p> | Is the resistance more than 1 MΩ? | Replace the airbag control module. <Ref. to AB-18 Airbag Control Module.> | Go to step 3. |
| 3 | <p>CHECK AIRBAG MAIN HARNESS AND FRONT SUB-SENSOR HARNESS (RH).</p> <p>1) Disconnect connector (AB16) from the front sub-sensor. <Ref. to AB-21 Front Sub Sensor.></p> <p>2) Connect connector (1H) in test harness H to connector (AB16).</p> <p>3) Measure the resistance between connector (3I) in test harness I or I2 and connector (3H) in test harness H.</p> <p>Connector & terminal (3I) No. 2 — (3H) No. 5: (3I) No. 4 — (3H) No. 6:</p> | Is the resistance less than 10Ω? | Go to step 4. | Go to step 5. |
| 4 | <p>CHECK AIRBAG MAIN HARNESS AND FRONT SUB-SENSOR HARNESS (RH).</p> <p>Measure the resistance between connector (3I) in test harness I or I2 and the chassis ground.</p> <p>Connector & terminal (3I) No. 2 — Chassis ground: (3I) No. 4 — Chassis ground:</p> | Is the resistance more than 1 MΩ? | Go to step 9. | Go to step 5. |
| 5 | <p>CHECK AIRBAG MAIN HARNESS</p> <p>1) Remove the instrument panel. <Ref. to EI-31 Instrument Panel Assembly.></p> <p>2) Disconnect connector (AB15) from (AB14), and connect connector (1F) in test harness F to connector (AB14).</p> <p>3) Measure the resistance between connector (3I) in test harness I or I2 and connector (3F) in test harness F.</p> <p>Connector & terminal (3I) No. 2 — (3F) No. 3: (3I) No. 4 — (3F) No. 4:</p> | Is the resistance less than 10 Ω? | Go to step 6. | Replace airbag main harness. <Ref. to AB-16 Main Harness.> |

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

| No. | Step | Check | Yes | No |
|-----|---|---|-----------------------|---|
| 6 | <p>CHECK AIRBAG MAIN HARNESS Measure the resistance between connector (3I) in test harness I or I2 and the chassis ground.</p> <p>Connector & terminal (3I) No. 2 — Chassis ground: (3I) No. 4 — Chassis ground:</p> | Is the resistance more than 1 M Ω ? | Go to step 7. | Replace airbag main harness. <Ref. to AB-16 Main Harness.> |
| 7 | <p>CHECK FRONT SUB-SENSOR HARNESS (RH). 1) Connect connector (2F) 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.</p> <p>Connector & terminal (3F) No. 6 — (3H) No. 5: (3F) No. 5 — (3H) No. 6:</p> | Is the resistance less than 10 Ω ? | Go to step 8. | Replace the front sub-sensor harness (RH) <Ref. to AB-22 Front Sub Sensor Harness.> |
| 8 | <p>CHECK FRONT SUB-SENSOR HARNESS (RH). Measure the resistance between connector (3H) in test harness H and connector (3F) in test harness F.</p> <p>Connector & terminal (3F) No. 6 — (3H) No. 6: (3F) No. 5 — (3H) No. 5:</p> | Is the resistance more than 1 M Ω ? | Go to step 9. | Replace the front sub-sensor harness (RH). <Ref. to AB-22, Front Sub Sensor Harness.> |
| 9 | <p>CHECK FRONT SUB-SENSOR HARNESS (RH). Measure the resistance between connector (3F) in test harness F and the chassis ground.</p> <p>Connector & terminal (3F) No. 6 — Chassis ground: (3F) No. 5 — Chassis ground:</p> | Is the resistance more than 1 M Ω ? | Go to step 10. | Replace the front sub-sensor harness (RH) <Ref. to AB-22 Front Sub Sensor Harness.> |
| 10 | <p>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.</p> <p>Connector & terminal (3H) No. 3 — No. 4:</p> | Is the resistance between 750 Ω and 1 K Ω ? | Go to step 11. | Replace the front sub-sensor (RH) <Ref. to AB-21 Front Sub Sensor.> |
| 11 | <p>CHECK FRONT SUB-SENSOR (RH). Measure the resistance between connector (3H) in test harness H and the chassis ground.</p> <p>Connector & terminal (3H) No. 3 — Chassis ground: (3H) No. 4 — Chassis ground:</p> | Is the resistance more than 1 M Ω ? | Finish the diagnosis. | Replace the front sub-sensor (RH) <Ref. to AB-21 Front Sub Sensor.> |

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

MEMO:

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

K: TROUBLE CODE 32 S002630C95

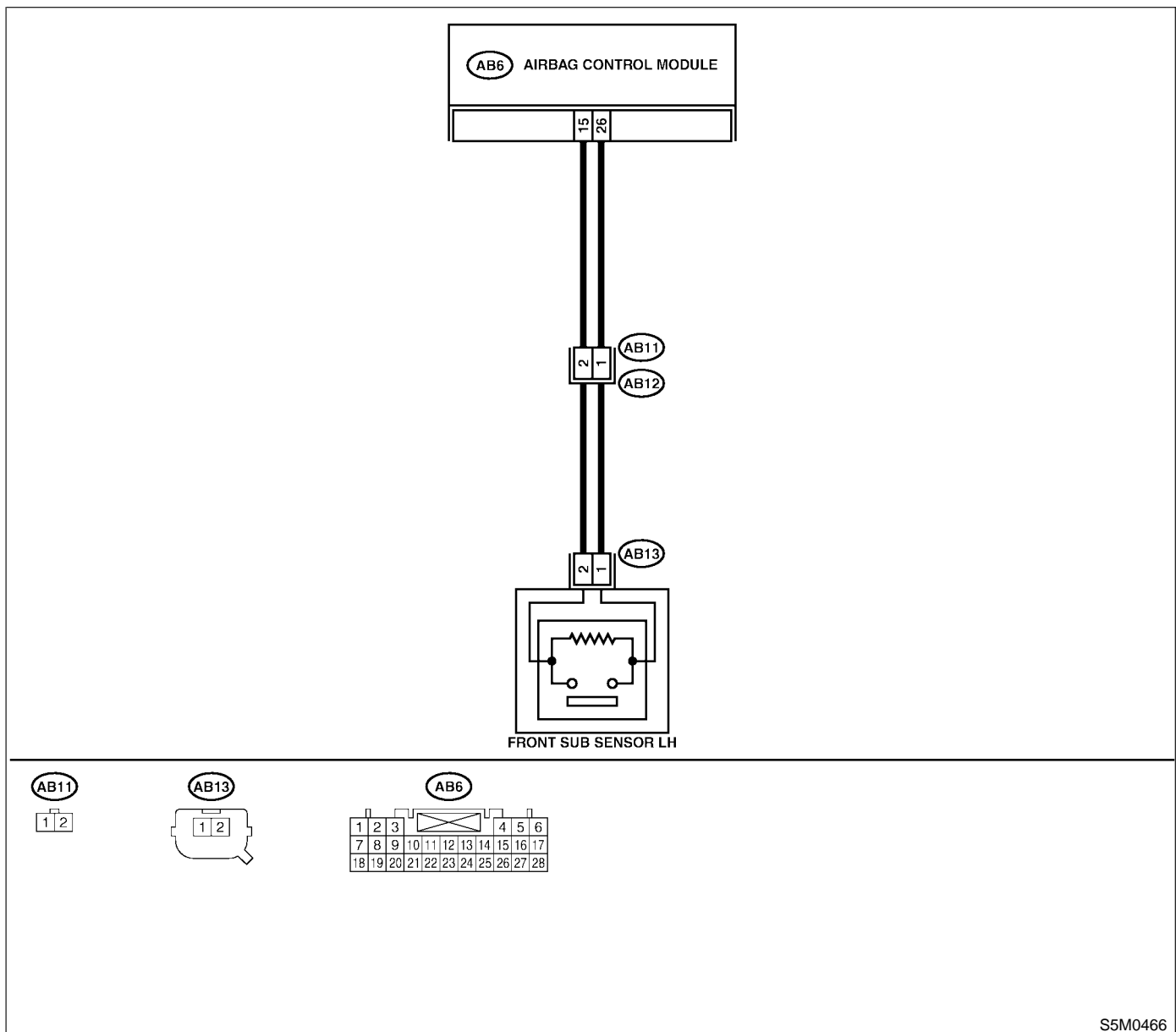
DIAGNOSIS:

- 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:



S5M0466

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

| No. | Step | Check | Yes | No |
|-----|---|--|---|--|
| 1 | <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 I or 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 I or I2.</p> <p>Connector & terminal (3I) No. 1 — No. 3:</p> | Is the resistance between 750Ω and 1 KΩ? | Go to step 2. | Go to step 3. |
| 2 | <p>CHECK FRONT SUB-SENSOR (LH) AND FRONT SUB-SENSOR HARNESS (RH).</p> <p>Measure the resistance between connector (3I) in test harness I or I2 and the chassis ground.</p> <p>Connector & terminal (3I) No. 1 — Chassis ground: (3I) No. 3 — Chassis ground:</p> | Is the resistance more than 1 MΩ? | Replace the airbag control module. <Ref. to AB-18 Airbag Control Module.> | Go to step 3. |
| 3 | <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 I or 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> | Is the resistance less than 10 Ω? | Go to step 4. | Go to step 5. |
| 4 | <p>CHECK AIRBAG MAIN HARNESS AND FRONT SUB-SENSOR HARNESS (LH).</p> <p>Measure the resistance between connector (3I) in test harness I or I2 and the chassis ground.</p> <p>Connector & terminal (3I) No. 3 — Chassis ground: (3I) No. 1 — Chassis ground:</p> | Is the resistance more than 1 MΩ? | Go to step 9. | Go to step 5. |
| 5 | <p>CHECK AIRBAG MAIN HARNESS.</p> <p>1) Remove the instrument panel. <Ref. to EI-31 Instrument Panel Assembly.></p> <p>2) Disconnect connector (AB11) from (AB12), and connect connector (1F) in test harness F to (AB11).</p> <p>3) Measure the resistance between connector (3I) in test harness I or I2 and connector (3F) in test harness F.</p> <p>Connector & terminal (3I) No. 3 — (3F) No. 3: (3I) No. 1 — (3F) No. 4:</p> | Is the resistance less than 10 Ω? | Go to step 6. | Replace the airbag main harness. <Ref. to AB-16 Main Harness.> |

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

| No. | Step | Check | Yes | No |
|-----|--|---|-----------------------|---|
| 6 | <p>CHECK AIRBAG MAIN HARNESS. Measure the resistance between connector (3I) in the test harness I or I2 and the chassis ground. <i>Connector & terminal</i> <i>(3I) No. 3 — Chassis ground:</i> <i>(3I) No. 1 — Chassis ground:</i></p> | Is the resistance more than 1 M Ω ? | Go to step 7. | Replace the airbag main harness. <Ref. to AB-16 Main Harness.> |
| 7 | <p>CHECK FRONT SUB-SENSOR HARNESS (LH). 1) Connect connector (2F) 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. <i>Connector & terminal</i> <i>(3F) No. 6 — (3H) No. 5:</i> <i>(3F) No. 5 — (3H) No. 6:</i></p> | Is the resistance less than 10 Ω ? | Go to step 8. | Replace the front sub-sensor harness (LH). <Ref. to AB-22 Front Sub Sensor Harness.> |
| 8 | <p>CHECK FRONT SUB-SENSOR HARNESS (LH). Measure the resistance between connector (3H) in test harness H and connector (3F) in test harness F. <i>Connector & terminal</i> <i>(3F) No. 6 — (3H) No. 6:</i> <i>(3F) No. 5 — (3H) No. 5:</i></p> | Is the resistance more than 1 M Ω ? | Go to step 9. | Replace the front sub-sensor harness (LH). <Ref. to AB-22, Front Sub Sensor Harness.> |
| 9 | <p>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. 6 — Chassis ground:</i> <i>(3F) No. 5 — Chassis ground:</i></p> | Is the resistance more than 1 M Ω ? | Go to step 10. | Replace the front sub-sensor harness (LH). <Ref. to AB-22 Front Sub Sensor Harness.> |
| 10 | <p>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. <i>Connector & terminal</i> <i>(3H) No. 3 — No. 4:</i></p> | Is the resistance between 750 Ω and 1 K Ω ? | Go to step 11. | Replace the front sub-sensor (LH). <Ref. to AB-21 Front Sub Sensor.> |
| 11 | <p>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></p> | Is the resistance more than 1 M Ω ? | Finish the diagnosis. | Replace the front sub-sensor (LH). <Ref. to AB-21 Front Sub Sensor.> |

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

MEMO:

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

L: TROUBLE CODE 41 S002630D28

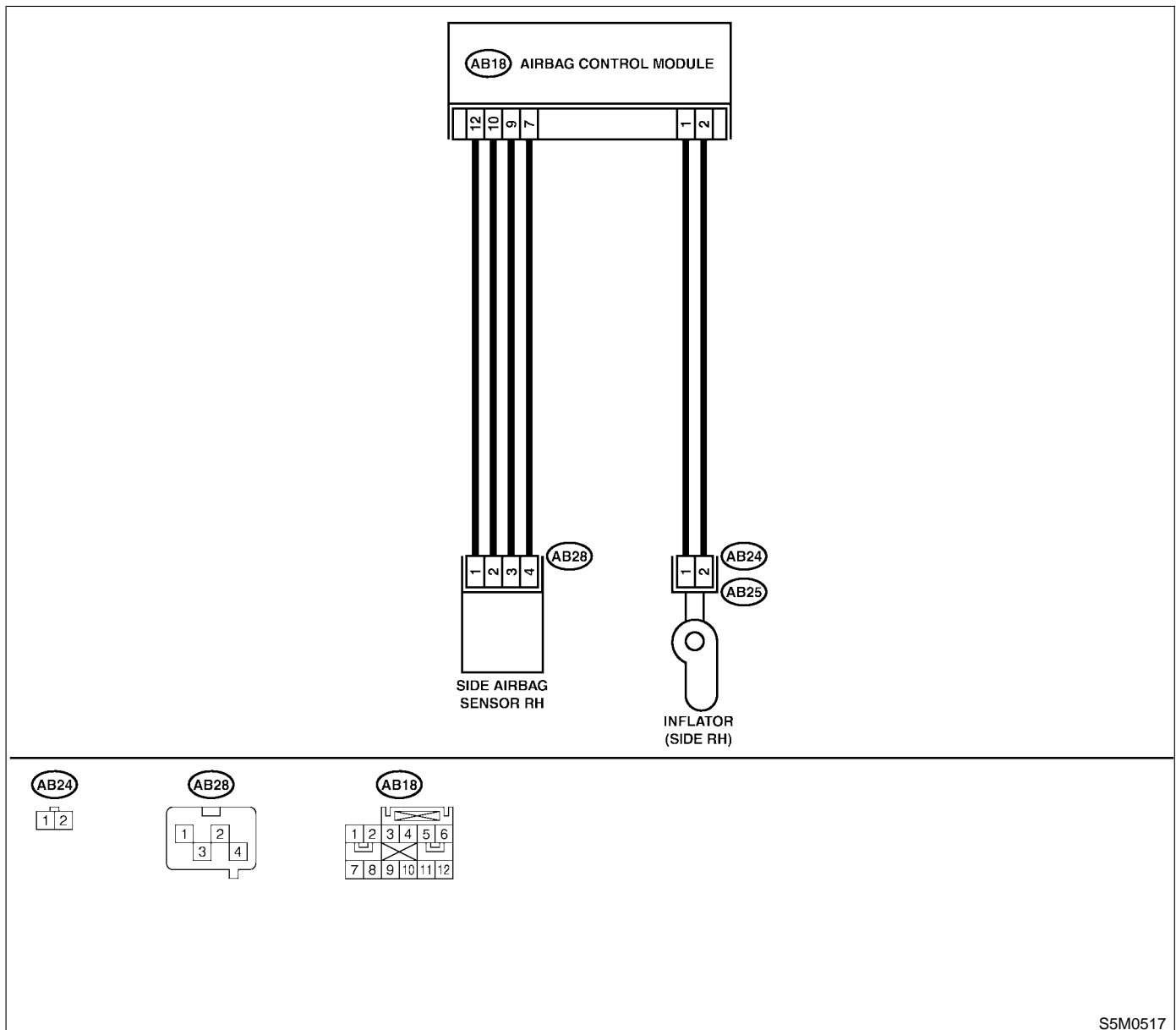
DIAGNOSIS:

- 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 side airbag harness, disconnect the side airbag module connector for the safety reasons.

WIRING DIAGRAM:



S5M0517

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

| No. | Step | Check | 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 connector (AB25) from (AB24), and connect connector (1F) in test harness F to (AB24). 3) Connect airbag resistor to connector (3F) in test harness F. 4) Connect the battery ground cable, and turn the ignition switch ON. | Does the airbag warning light operate properly? | Replace front seat with side airbag module (RH). <Ref. to SE-5 Front Seat.> | 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 I or I2 to connector (AB18). 5) Measure the resistance between connector (3I) in test harness I or I2 and connector (3F) in test harness F. Connector & terminal (3I) No. 7 — (3F) No. 3: (3I) No. 9 — (3F) No. 4: | Is the resistance less than 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 I or I2. Connector & terminal (3I) No. 7 — No. 9: | Is the resistance more than 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 of the connector (3F) in test harness F. Connector & terminal (3F) No. 3 — No. 4: | Is the resistance more 1MΩ? | Go to step 5. | Replace side airbag harness. <Ref. to AB-17 Side Airbag Harness.> |
| 5 | 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: | Is the resistance more than 1 MΩ? | Go to step 6. | Replace side airbag harness. <Ref. to AB-17 Side Airbag Harness.> |
| 6 | CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance between connector (3I) in test harness I or I2 and the chassis ground. Connector & terminal (3I) No. 7 — Chassis ground: (3I) No. 9 — Chassis ground: | Is the resistance more than 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 TROUBLE CODE

Airbag System (Diagnostics)

M: TROUBLE CODE 42 S002630D33

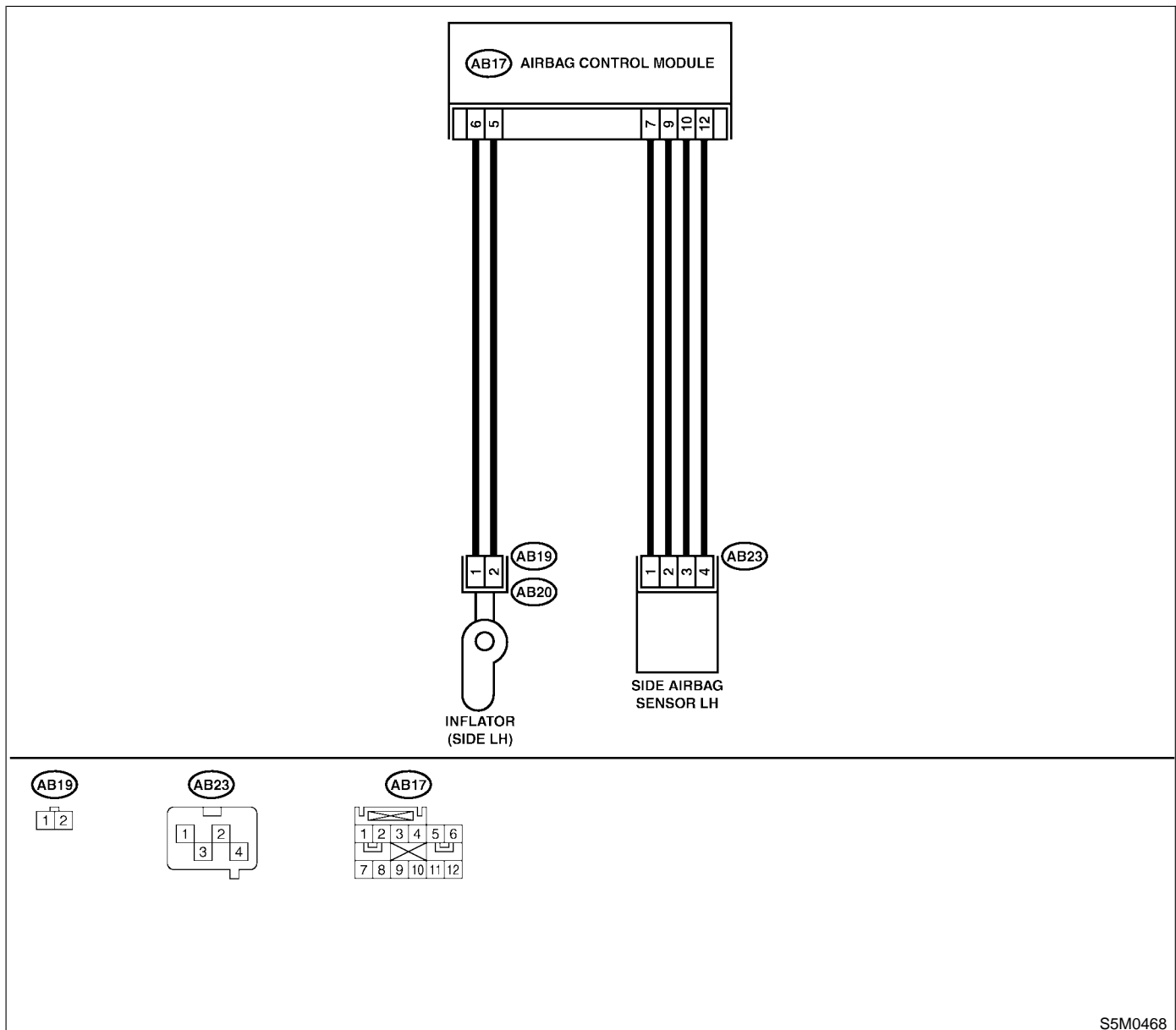
DIAGNOSIS:

- 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 side airbag harness, disconnect the side airbag module connector for the safety reasons.

WIRING DIAGRAM:



S5M0468

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

| No. | Step | Check | 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 connector (AB20) from (AB19), and connect connector (1F) in test harness F to (AB19). 3) Connect airbag resistor to connector (3F) in test harness F. 4) Connect the battery ground cable, and turn the ignition switch ON. | Does the airbag warning light operate properly? | Replace front seat with side airbag module (LH). <Ref. to SE-5 Front Seat.> | 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 I or I2 to connector (AB17). 5) Measure the resistance between connector (3I) in test harness I or I2 and connector (3F) in test harness F. Connector & terminal (3I) No. 10 — (3F) No. 4: (3I) No. 12 — (3F) No. 3: | Is the resistance less than 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 I or I2. Connector & terminal (3I) No. 10 — No. 12: | Is the resistance more than 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 of the connector (3F) in test harness F. Connector & terminal (3F) No. 3 — No. 4: | Is the resistance more than 1 MΩ? | Go to step 5. | Replace side airbag harness. <Ref. to AB-17 Side Airbag Harness.> |
| 5 | 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: | Is the resistance more than 1 MΩ? | Go to step 6. | Replace side airbag harness. <Ref. to AB-17 Side Airbag Harness.> |
| 6 | CHECK SIDE AIRBAG HARNESS (LH). Measure the resistance between connector (3I) in test harness I or I2 and the chassis ground. Connector & terminal (3I) No. 10 — Chassis ground: (3I) No. 12 — Chassis ground: | Is the resistance more than 1 MΩ? | Replace airbag control module. <Ref. to AB-18 Airbag Control Module.> | Replace side airbag harness. <Ref. to AB-17 Side Airbag Harness.> |

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

N: TROUBLE CODE 45 S002630D45

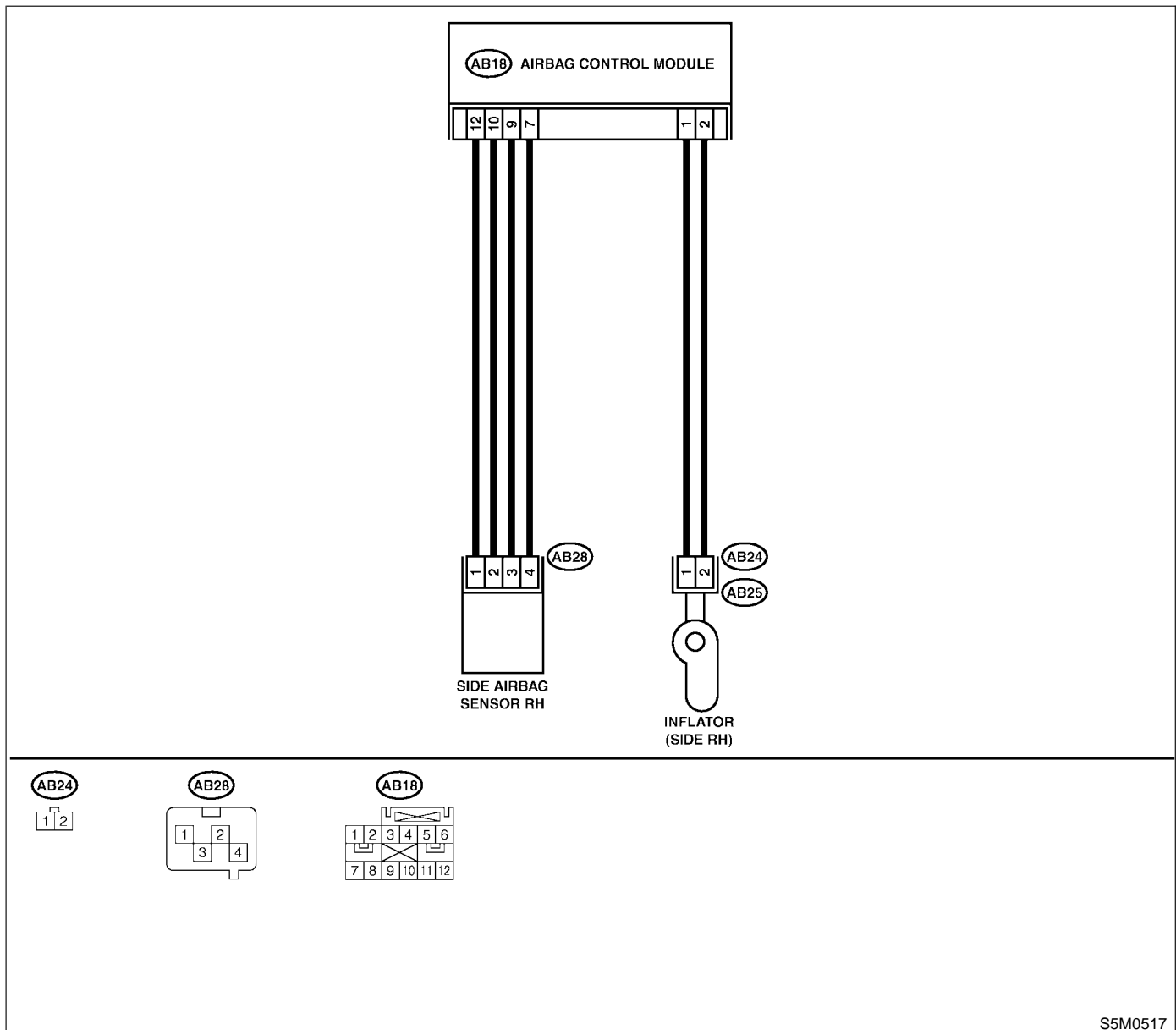
DIAGNOSIS:

- 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 side airbag harness, disconnect the side airbag module connector for the safety reasons.

WIRING DIAGRAM:



DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

| No. | Step | Check | Yes | No |
|-----|---|---|---|---|
| 1 | <p>CHECK SIDE AIRBAG MODULE.</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 (AB25) from (AB24), and connect connector (1F) in test harness F to (AB24).</p> <p>3) Connect airbag resistor to connector (3F) in test harness F.</p> <p>4) Connect the battery ground cable, and turn the ignition switch ON.</p> | Does airbag warning light operate properly? | Replace front seat with side airbag module (RH). <Ref. to SE-5 Front Seat.> | Go to step 2. |
| 2 | <p>CHECK SIDE AIRBAG 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 airbag resistor from the test harness.</p> <p>3) Disconnect the connector (AB18) from the airbag control module. <Ref. to AB-18 Airbag Control Module.></p> <p>4) Connect connector (1I) in test harness I or I2 to connector (AB18).</p> <p>5) Connect the battery ground cable, and turn the ignition switch ON.</p> <p>6) Measure the voltage between connector (3I) in test harness I or I2 and the chassis ground.</p> <p>Connector & terminal</p> <p>(3I) No. 7 (+) — Chassis ground (-):</p> <p>(3I) No. 9 (+) — Chassis ground (-):</p> | Is the voltage less than 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 TROUBLE CODE

Airbag System (Diagnostics)

O: TROUBLE CODE 46 S002630D50

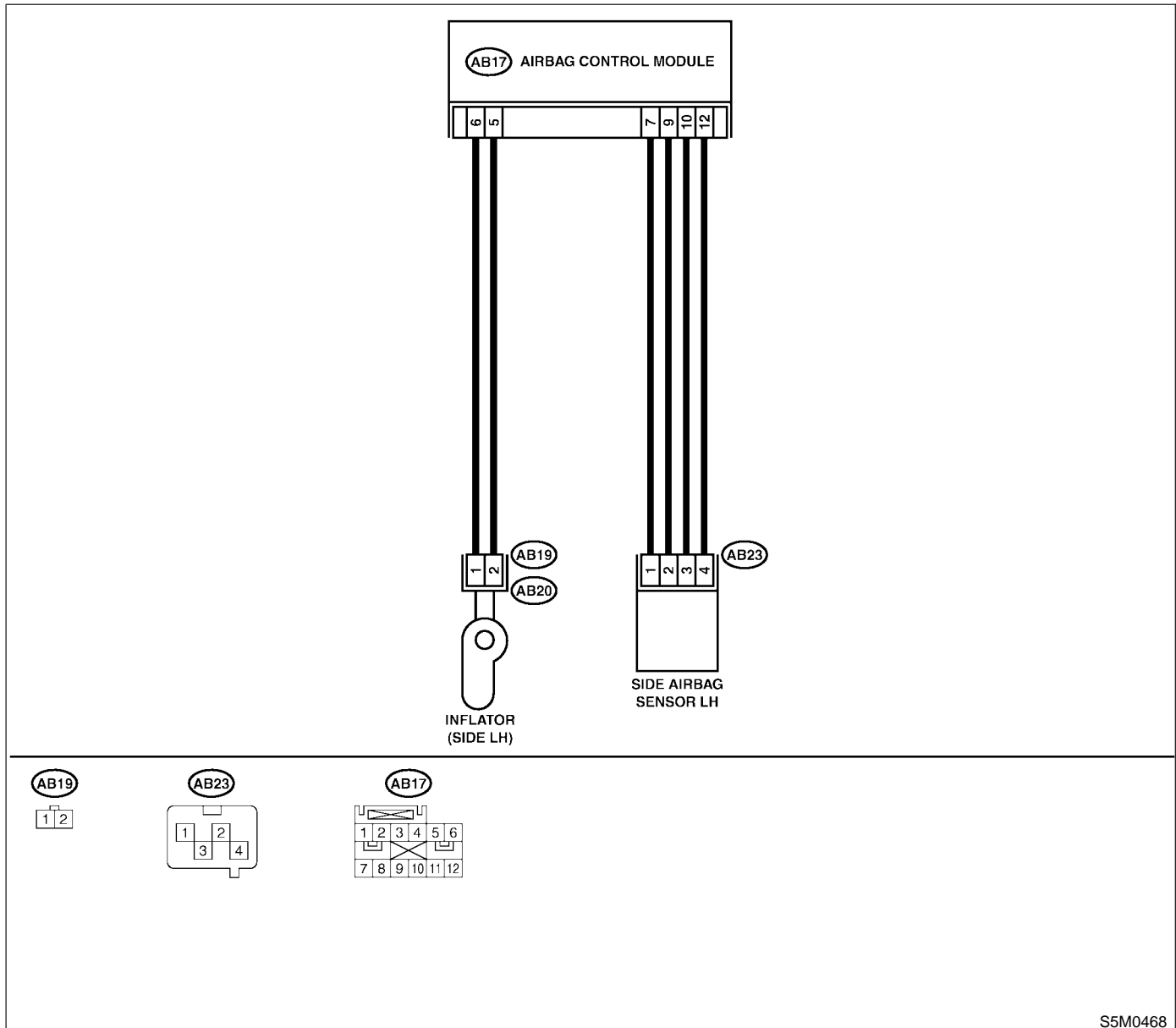
DIAGNOSIS:

- 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 side airbag harness, disconnect the side airbag module connector for the safety reasons.

WIRING DIAGRAM:



S5M0468

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

| No. | Step | Check | Yes | No |
|-----|---|---|---|---|
| 1 | <p>CHECK SIDE AIRBAG MODULE.</p> <p>1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds.</p> <p>2) Disconnect connector (AB20) from (AB19), and connect connector (1F) in test harness F to (AB19).</p> <p>3) Connect airbag resistor to connector (3F) in test harness F.</p> <p>4) Connect the battery ground cable and turn the ignition switch ON.</p> | Does airbag warning light operate properly? | Replace front seat with side airbag module (LH). <Ref. to SE-5 Front Seat.> | Go to step 2. |
| 2 | <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 airbag resistor from the test harness.</p> <p>3) Disconnect the connector (AB17) from the airbag control module. <Ref. to AB-18 Airbag Control Module.></p> <p>4) Connect connector (1I) in test harness I or I2 to connector (AB17).</p> <p>5) Connect the battery ground cable, and turn the ignition switch ON.</p> <p>6) Measure the voltage between connector (3I) in test harness I or I2 and the chassis ground.</p> <p>Connector & terminal (3I) No. 10 (+) — Chassis ground (-): (3I) No. 12 (+) — Chassis ground (-):</p> | Is the voltage less than 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 TROUBLE CODE

Airbag System (Diagnostics)

P: TROUBLE CODE 51 S002630D60

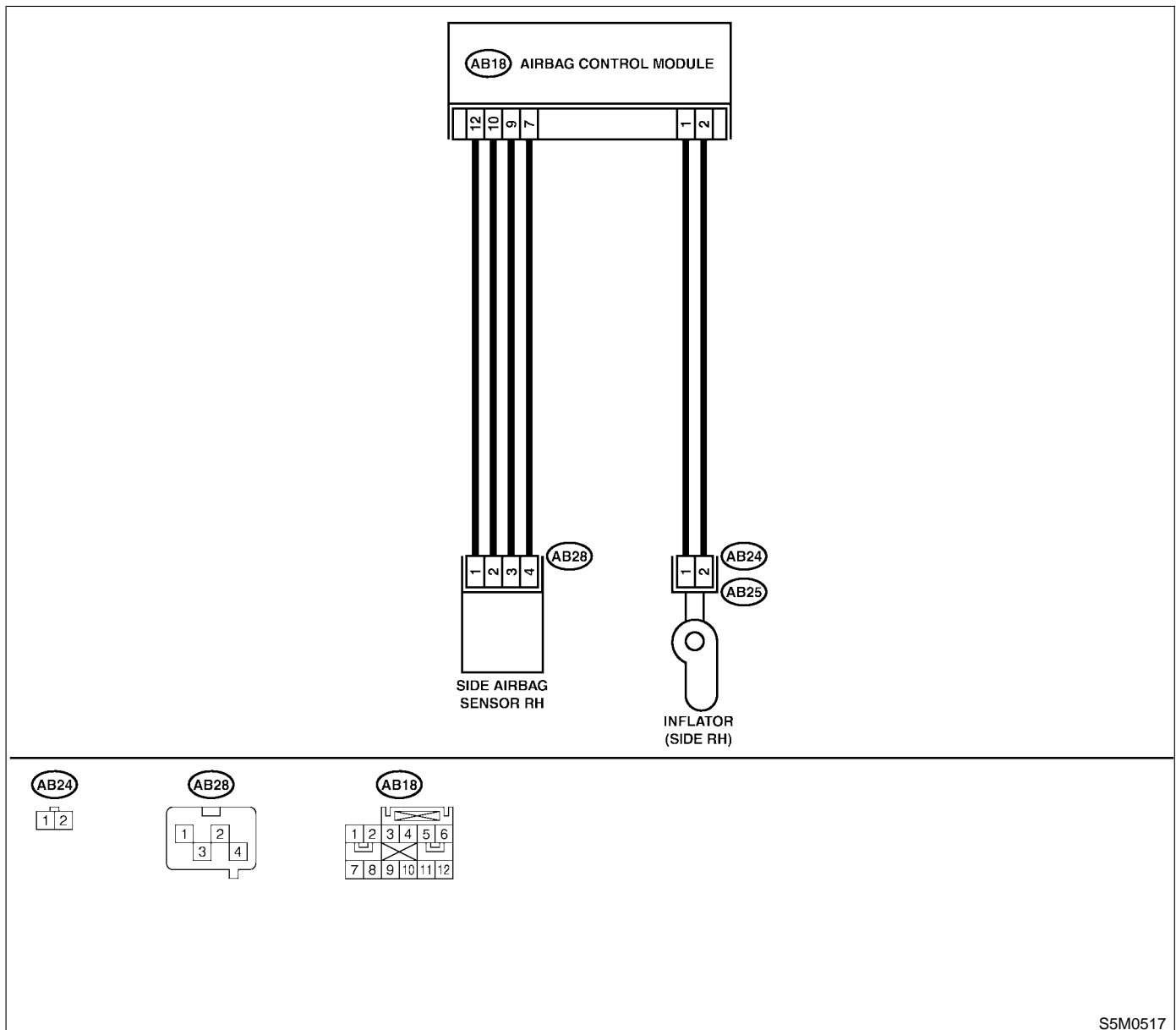
DIAGNOSIS:

- 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 side airbag harness, disconnect the side airbag module connector for the safety reasons.

WIRING DIAGRAM:



S5M0517

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

| No. | Step | Check | Yes | No |
|-----|--|-----------------------------------|---|---|
| 1 | <p>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 (AB25) from (AB24). 3) Disconnect connector (AB18) from the airbag control module. <Ref. to AB-18 Airbag Control Module.> 4) Connect connector (1I) in test harness I or I2 to the connector (AB18). 5) Disconnect connector (AB28) from the side airbag sensor (RH), and connect connector (1G) in test harness G to connector (AB28). 6) Measure the resistance between connector (3I) in test harness I or I2 and connector (3G) in test harness G.</p> <p>Connector & terminal (3I) No. 17 — (3G) No. 2: (3I) No. 18 — (3G) No. 1: (3I) No. 19 — (3G) No. 5: (3I) No. 20 — (3G) No. 4:</p> | Is the resistance less than 10 Ω? | Go to step 2. | Replace side airbag harness. <Ref. to AB-17 Side Airbag Harness.> |
| 2 | <p>CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance between connector (3I) in test harness I or I2 and the chassis ground.</p> <p>Connector & terminal (3I) No. 17 — Chassis ground: (3I) No. 18 — Chassis ground: (3I) No. 19 — Chassis ground: (3I) No. 20 — Chassis ground:</p> | Is the resistance more than 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 TROUBLE CODE

Airbag System (Diagnostics)

Q: TROUBLE CODE 52 S002630D64

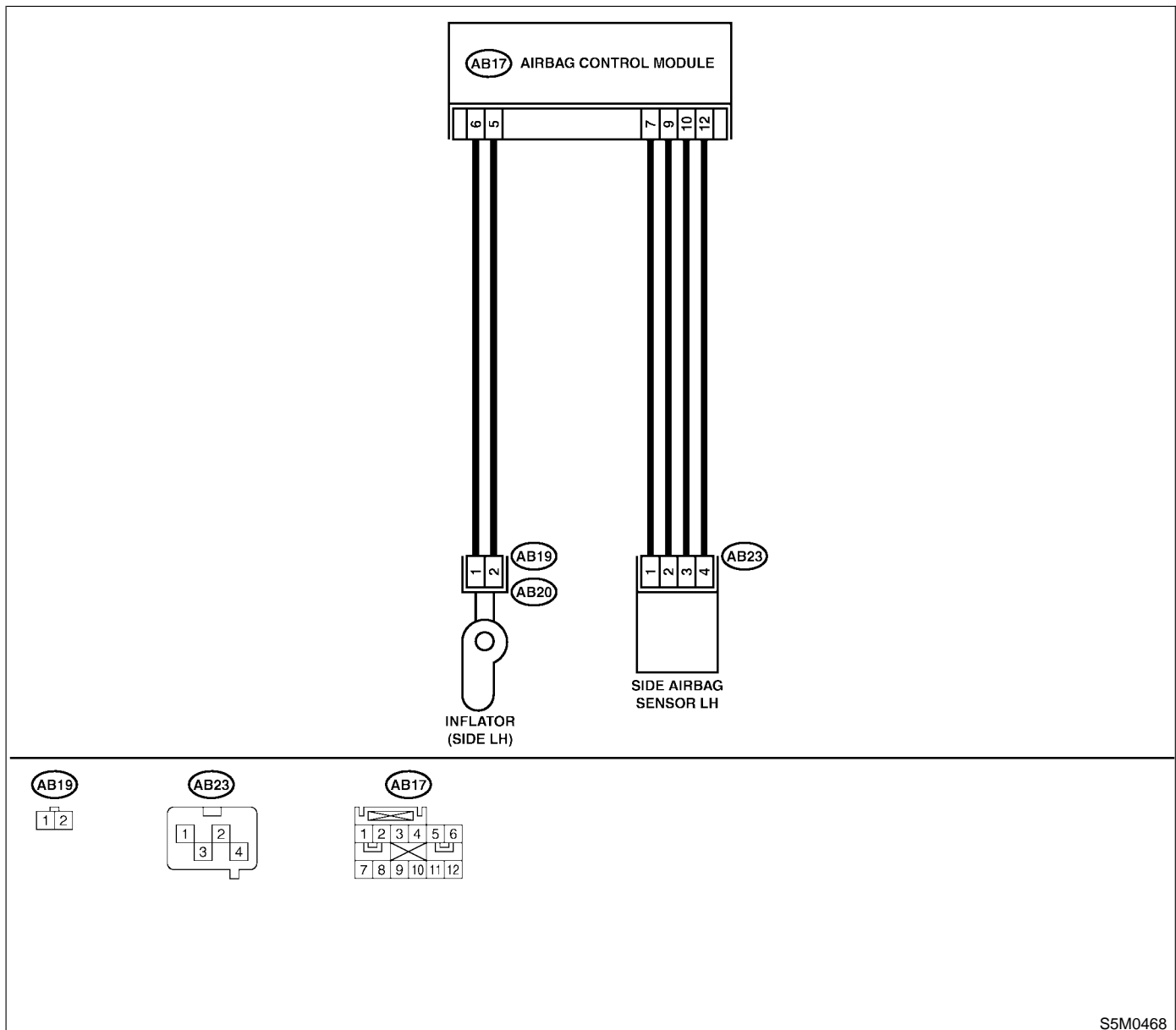
DIAGNOSIS:

- 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 side airbag harness, disconnect the side airbag module connector for the safety reasons.

WIRING DIAGRAM:



S5M0468

DIAGNOSTIC CHART WITH TROUBLE CODE

Airbag System (Diagnostics)

| No. | Step | Check | Yes | No |
|-----|---|-----------------------------------|---|---|
| 1 | <p>CHECK SIDE AIRBAG HARNESS (LH). 1) Turn the ignition switch OFF, disconnect the battery ground cable, and wait more than 20 seconds. 2) Disconnect connector (AB20) from (AB19). 3) Disconnect connector (AB17) from the airbag control module. <Ref. to AB-18 Airbag Control Module.> 4) Connect connector (1I) in test harness I or I2 to connector (AB17). 5) Disconnect connector (AB23) from the side airbag sensor (LH), and connect connector (1G) in test harness G to connector (AB23). 6) Measure the resistance between connector (3I) in test harness I or I2 and connector (3G) in test harness G.</p> <p>Connector & terminal (3I) No. 5 — (3G) No. 4: (3I) No. 14 — (3G) No. 5: (3I) No. 15 — (3G) No. 1: (3I) No. 16 — (3G) No. 2:</p> | Is the resistance less than 10 Ω? | Go to step 2. | Replace side airbag harness. <Ref. to AB-17 Side Airbag Harness.> |
| 2 | <p>CHECK SIDE AIRBAG HARNESS (RH). Measure the resistance between connector (3I) in test harness I or I2 and the chassis ground.</p> <p>Connector & terminal (3I) No. 5 — Chassis ground: (3I) No. 14 — Chassis ground: (3I) No. 15 — Chassis ground: (3I) No. 16 — Chassis ground:</p> | Is the resistance more than 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: TROUBLE CODE 53 S002630D69

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: TROUBLE CODE 54 S002630D70

DIAGNOSIS:

- Side airbag sensor (LH) is faulty.
- When Code 54 is displayed, the circuit within the side airbag sensor (LH) is faulty. Replace the side airbag sensor (LH).
 <Ref. to AB-19 Side Airbag Sensor.>

T: TROUBLE CODE 55 S002630D73

- 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-5 Front Seat.>
 - Side airbag sensor. (Operating side) <Ref. to AB-19 Side Airbag Sensor.>