

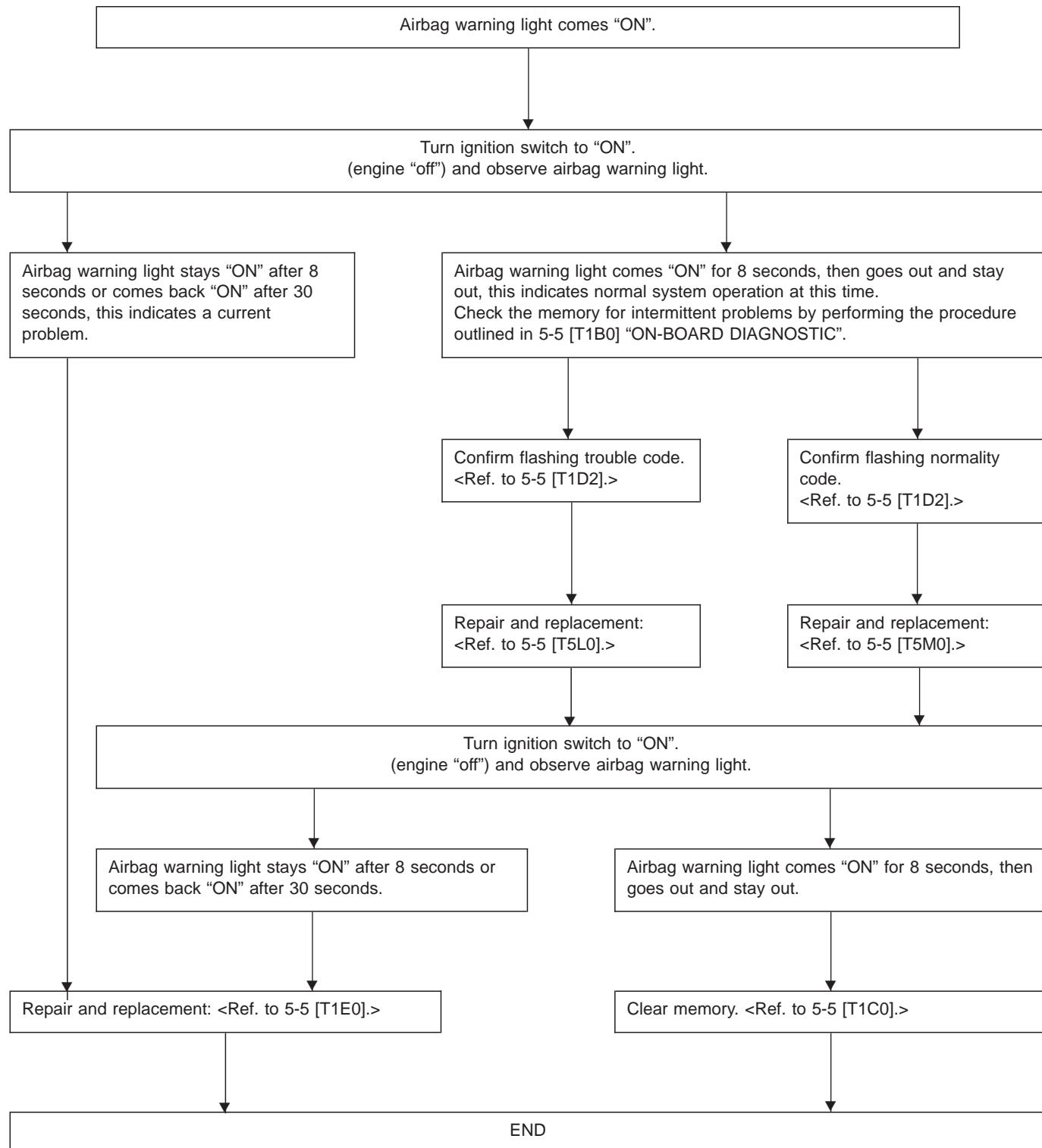
SUPPLEMENTAL RESTRAINT SYSTEM

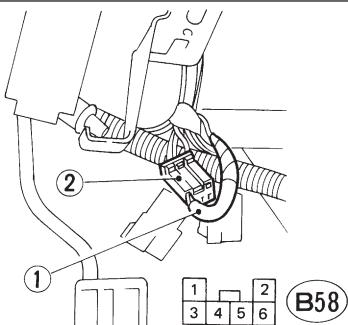
5-5

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1. Diagnostics Chart for On-board Diagnostic System

A: BASIC DIAGNOSTICS PROCEDURE



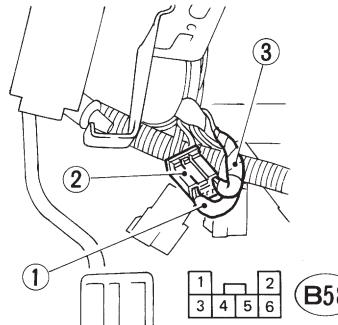


B: ON-BOARD DIAGNOSTIC

When the airbag system is in functioning condition, the airbag warning light will remain on for 8 seconds and go out when the ignition switch is set to ON.

If there is any malfunction, the airbag warning light will either stay on or off continuously. In such cases, perform on-board diagnostic in accordance with the specified procedure to determine trouble codes.

- 1) Turn ignition switch ON (with engine OFF).
- 2) Connect DIAG. terminal ① to No. 1 terminal of diagnosis connector ② located below lower cover.
- 3) Check in accordance with the trouble code indicated by the AIRBAG warning light, and record the trouble codes.
- 4) Turn the ignition switch "OFF" and remove the DIAG. terminal from No.1 terminal of diagnosis connector.



C: CLEAR MEMORY

After eliminating problem as per trouble code, clear memory as follows:

Make sure ignition switch is ON (and engine off). Connect one DIAG. terminal ① on diagnosis connector ② terminal No. 1.

While warning light is flashing, contact the other DIAG. terminal ③ on terminal No. 2 for at least three seconds.

After memory is cleared, normal warning light flashing rate resumes. (Warning light flashes every 0.6 seconds ON-OFF operation). Memory cannot be cleared if any problem exists.

D: LIST OF TROUBLE CODES

1. TROUBLE CODES

Trouble code/Contents of troubles	Memory function	Contents of diagnosis	Page
04	Provided.	1) Airbag main harness circuit is shorted. 2) Airbag module harness (Ps) circuit is shorted. 3) Airbag control module is faulty.	16
11	Provided.	1) Airbag control module is faulty. 2) Airbag main harness circuit is open. 3) Fuse No. 8 is blown. 4) Body harness circuit is open.	17
12	Provided.	1) Airbag main harness circuit is open. 2) Airbag module harness (Dr) circuit is open. 3) Roll connector circuit is open. 4) Airbag control module is faulty.	19
13	Provided.	1) Airbag main harness circuit is shorted. 2) Airbag module harness (Dr) is shorted. 3) Roll connector circuit is shorted. 4) Airbag control module is faulty.	20
14	Not provided.	1) (AB9) and (AB10) are not connected properly. 2) (AB2) and (AB7) are not connected properly. 3) (AB3) and (AB8) are not connected properly. 4) (AB6) is not connected properly to airbag control module.	21
21	Provided.	Airbag control module is faulty.	23
22	Provided.	1) Airbag main harness circuit is open. 2) Airbag module harness (Ps) circuit is open. 3) Airbag control module is faulty.	24
34	Provided.	1) Airbag main harness circuit (Ps) is shorted to power supply. 2) Airbag module harness (Ps) is shorted to power supply. 3) Airbag control module is faulty.	25
41	Provided.	1) Airbag main harness circuit (Dr) is shorted to ground. 2) Airbag module harness circuit (Dr) is shorted to ground. 3) Roll connector circuit is shorted to ground. 4) Airbag control module is faulty.	26
42	Provided.	1) Airbag main harness circuit (Ps) is shorted to ground. 2) Airbag module harness circuit (Ps) is shorted to ground. 3) Airbag control module is faulty.	27
43	Provided.	1) Airbag main harness circuit (Dr) is shorted to power supply. 2) Airbag module harness (Dr) is shorted to power supply. 3) Roll connector is shorted to power supply. 4) Airbag control module is faulty.	28

NOTE: Dr: Driver side Ps: Passenger side

Trouble code/Contents of troubles	Memory function	Contents of diagnosis	Page
Airbag warning light remains on.	Not provided.	1) Airbag warning light is faulty. 2) Airbag control module to airbag warning light harness circuit is shorted or open. 3) Grounding circuit is faulty. 4) Airbag control module is faulty. 5) (AB1) and (B39) are not connected properly.	29
Airbag warning light remains off.	Not provided.	1) Fuse No. 15 is blown. 2) Body harness circuit is open. 3) Airbag warning light is faulty. 4) Airbag main harness is faulty. 5) Airbag control module is faulty.	32
Warning light indicates trouble code, then normality code.	Flashing trouble code.	Provided.	Airbag system component parts are faulty.
	Flashing normality code.	Not provided.	1) Airbag connector is faulty. 2) Fuse No. 16 is blown. 3) Airbag main harness is faulty. 4) Airbag control module is faulty. 5) Body harness is faulty.

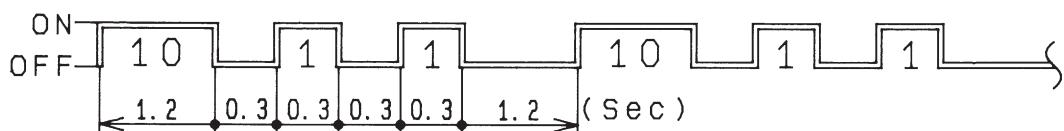
2. HOW TO READ TROUBLE CODES

The AIRBAG warning light flashes a code corresponding to the faulty parts.

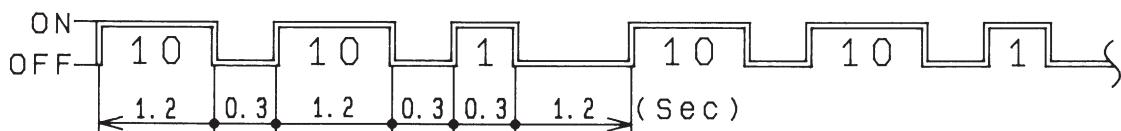
The long segment (1.2 sec on) indicates a “ten”, and the short segment (0.3 sec on) indicates a “one”.

Example:

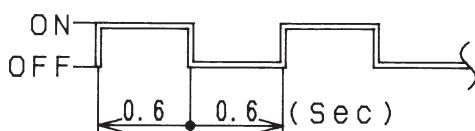
Flashing
code 12:



Flashing
code 21:



Flashing
normality
code:

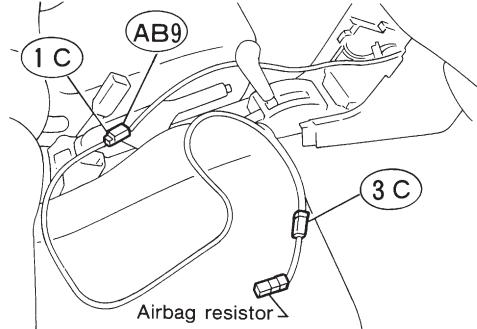


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E: DIAGNOSTICS PROCEDURE

Airbag warning light stays on after 8 seconds.

- 1) Perform on-board diagnostic. <Ref. to 5-5 [T1B0].>
- 2) Are trouble codes 4, 12, 13, 22, 34, 41, 42 or 43 indicated? <Ref. to 5-5 [T1D1].> <Ref. to 5-5 [T1D2].> Record trouble codes. If "YES" proceed to step 4). If "NO" proceed to step 3).
- 3) Proceed with diagnostics and repair according to trouble code indicated then perform step 15).
- 4) If codes 4, 22, 34, 42 are indicated, proceed to step 5). If codes 4, 22, 34, 42 are not indicated, proceed to step 10).
- 5) If codes 12, 13, 41, 43 are indicated, proceed to step 6). If codes 12, 13, 41, 43 are not indicated, proceed to step 11).
- 6) Turn ignition switch "OFF", disconnect battery ground cable, and wait 20 seconds. Disconnect passenger side airbag module connector (AB9) to (AB10). Connect test harness C connector (1C) to (AB9). Connect airbag resistor to test harness C connector (3C).



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Remove lower cover panel and connect test harness C connector (1C) to (AB8) <Ref. to 5-4 [W1A0].> with airbag resistor attached to test harness C connector (3C).

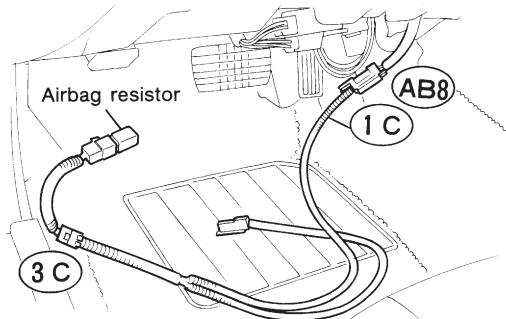
Connect battery ground cable and turn ignition switch "ON".

Does airbag warning light go "OFF" after 8 seconds and remain off for more than 30 seconds?

See notes 1) and 2). (Refer to end of chart.)

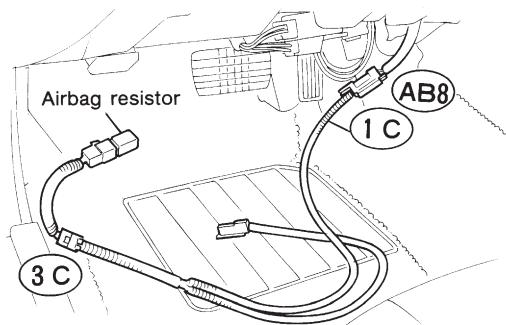
If "YES" proceed to step 7).

If "NO" proceed to step 3).



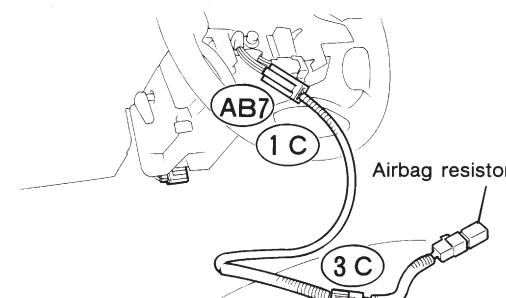
G5M0429

- 7) Turn ignition switch "OFF", disconnect battery ground cable, and wait 20 seconds. Connect passenger side airbag module connector (AB9) to (AB10). Connect battery ground cable and turn ignition switch "ON". Does airbag warning light go "OFF" after 8 seconds and remain off for more than 30 seconds?
- See notes 1) and 2). (Refer to end of chart.)
- If "YES" proceed to step 8).
- If "NO" proceed to step 13).



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- 8) Turn ignition switch "OFF", disconnect battery ground cable, and wait 20 seconds. Connect connector (AB8) to (AB3). Remove driver side airbag module and connect test harness C connector (1C) to (AB7). <Ref. to 5-5 [W2A1].> Connect airbag resistor to test harness C connector (3C). Connect battery ground cable and turn ignition switch "ON". Does airbag warning light go "OFF" after 8 seconds and remain off for more than 30 seconds?
- See note 1) and 2). (Refer to end of chart.)
- If "YES" proceed to step 9).
- If "NO" proceed to step 14).



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- 9) Turn ignition switch "OFF", disconnect battery ground cable, and wait 20 seconds. Replace with a new driver side airbag module. <Ref. to 5-5 [W2A1].> Proceed to step 15).

- 10) Turn ignition switch "OFF", disconnect battery ground cable, and wait 20 seconds. Remove lower cover panel and connect test harness C connector (1C) to (AB8) <Ref. to 5-4 [W1A0].> with airbag resistor attached to test harness C connector (3C).

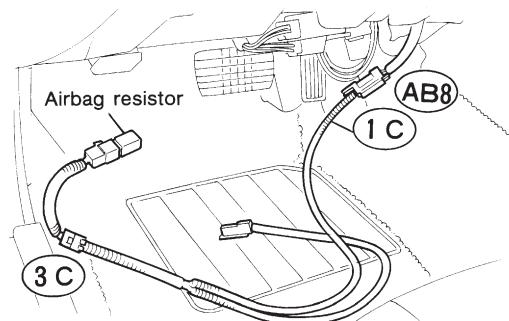
Connect battery ground cable and turn ignition switch "ON".

Does airbag warning light go "OFF" after 8 seconds and remain off for more than 30 seconds?

See notes 1) and 2). (Refer to end of chart.)

If "YES" proceed to step 8).

If "NO" proceed to step 3).



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- 11) Turn ignition switch "OFF", disconnect battery ground cable, and wait 20 seconds. Disconnect passenger side airbag module connector (AB9) to (AB10).

Connect test harness C connector (1C) to (AB9). Connect airbag resistor to test harness C connector (3C).

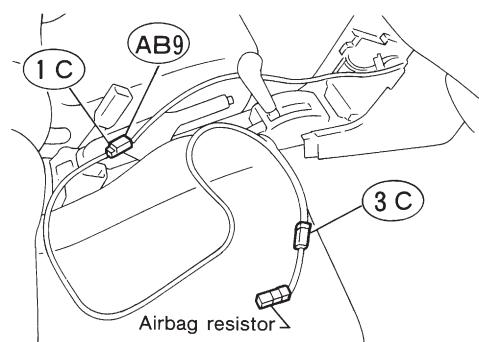
Connect battery ground cable and turn ignition switch "ON".

Does airbag warning light go "OFF" after 8 seconds and remain off for more than 30 seconds?

See notes 1) and 2). (Refer to end of chart.)

If "YES" proceed to step 12).

If "NO" proceed to step 3).



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- 12) Turn ignition switch "OFF", disconnect battery ground cable, and wait 20 seconds. Replace with a new passenger side airbag module <Ref. to 5-5 [W2A2].> then proceed to step 15).

- 13) Turn ignition switch "OFF", disconnect battery ground cable and wait 20 seconds. Replace with a new passenger side airbag module <Ref. to 5-5 [W2A2].> then proceed to step 7).

- 14) Turn ignition switch "OFF", disconnect battery ground cable, and wait 20 seconds. Replace with a new combination switch, <Ref. to 5-5 [W5A0].> and install driver side airbag module <Ref. to 5-5 [W2A1].>.

Connect battery ground cable and turn ignition switch "ON". Does airbag warning light go "OFF" after 8 seconds and remain off for more than 30 seconds?

See notes 1) and 2). (Refer to end of chart.)

If "YES" proceed to step 16).

If "NO" proceed to step 9).

- 15) Connect battery ground cable and turn ignition switch "ON". Does airbag warning light go "OFF" after 8 seconds and remain off for more than 30 seconds? See notes 1) and 2). (Refer to end of chart.)

If "YES" proceed to step 16).

If "NO" proceed to step 1).

- 16) Perform clear memory procedure. <Ref. to 5-5 [T1C0].>

If memory cannot be cleared, another trouble code exists. Return to step 1).

If memory can be cleared, proceed to step 17).

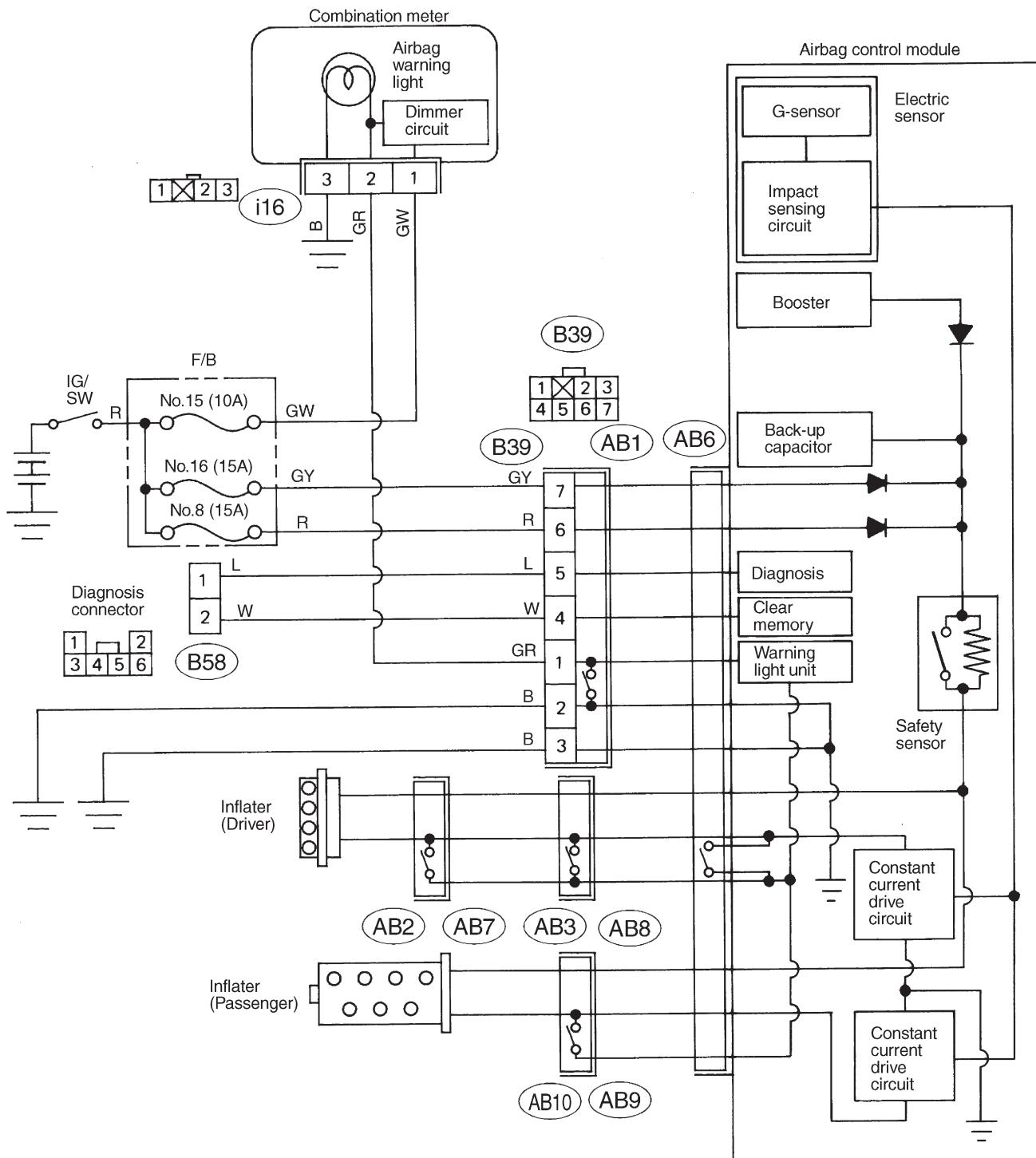
- 17) END

NOTES:

1) Always remember to secure the green double locks before turning the ignition switch "ON".

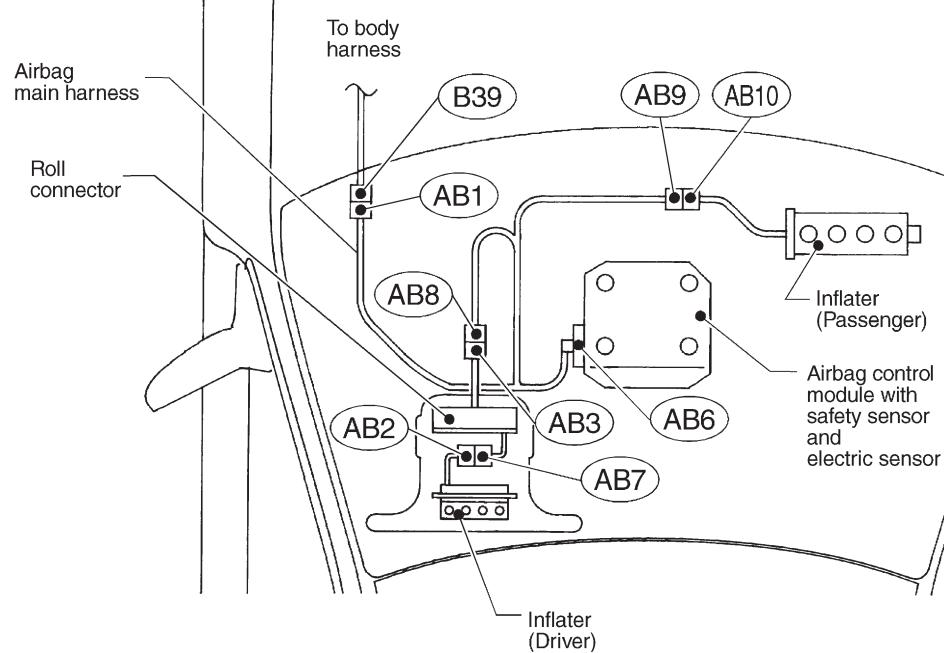
2) In some cases the airbag warning light will go "OFF" after 8 seconds but will turn "ON" again within 30 seconds. In this case continue diagnostics with the basic diagnostics procedures or trouble code procedures.

2. Diagram of SRS Airbag



H5M0667A

3. Wiring Location



H5M0668A

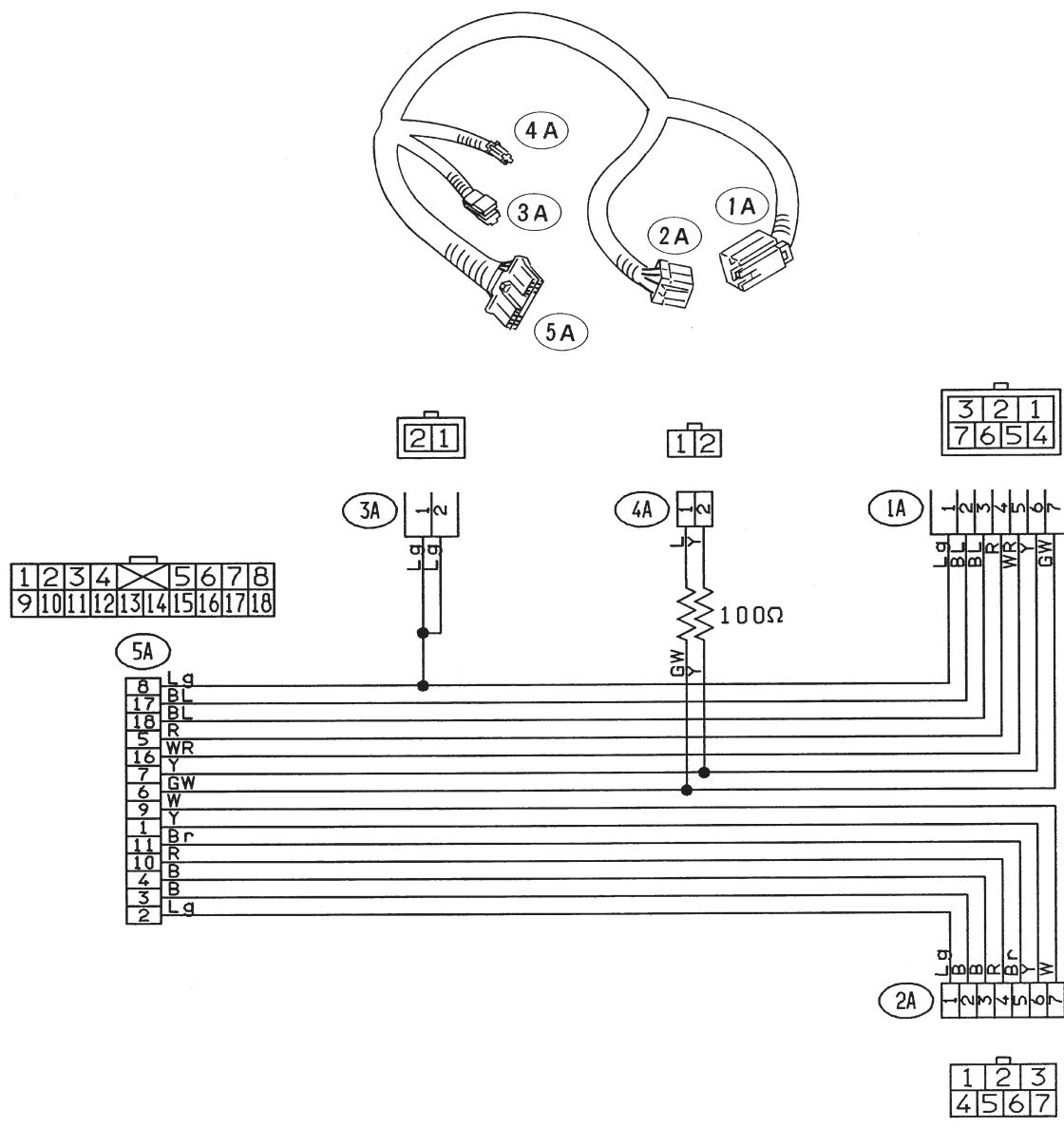
Connector No.	(AB1)	(AB2)	(AB3)	(AB6)	(AB7)	(AB8)	(AB9)	(AB10)
Pole	7	3	3	12	3	3	3	3
Color	Yellow							
Male/Female	Male	Female	Female	Female	Male	Male	Male	Female

4. Test Harnesses and Airbag Resistor

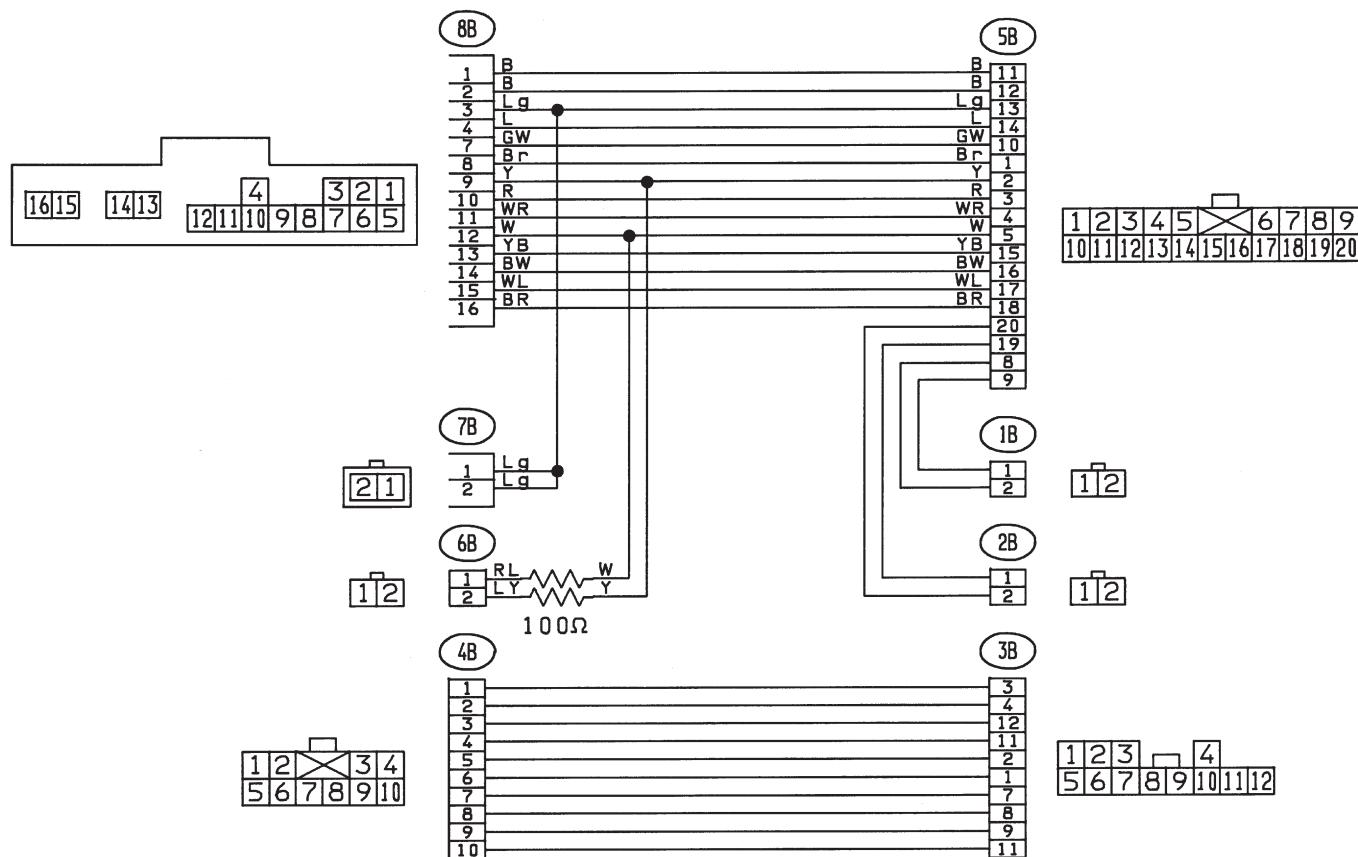
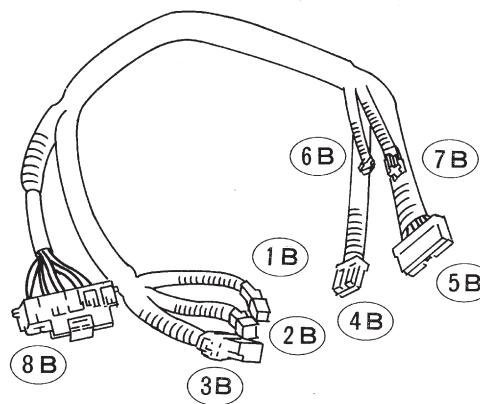
CAUTION:

Be sure to use specified test harness A, B or C when measuring voltage, resistance, etc. of AIRBAG system component parts.

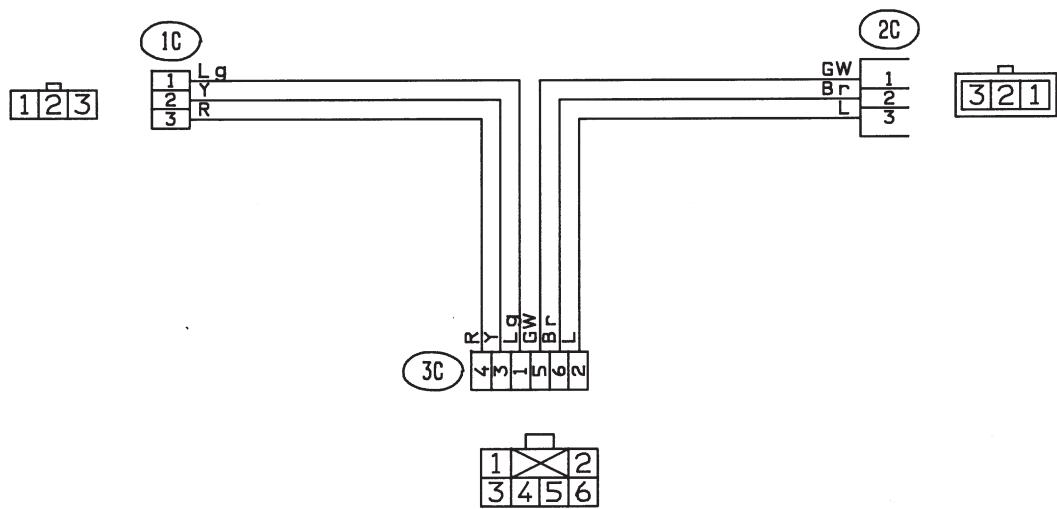
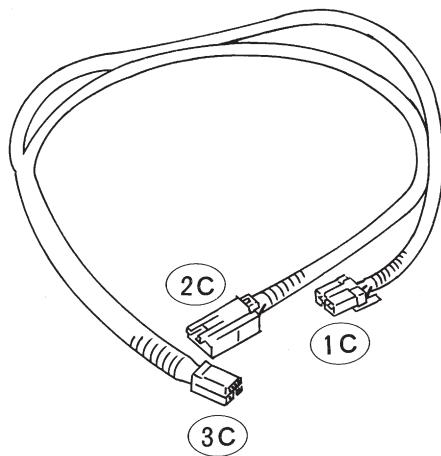
A: TEST HARNESS A (PN98299PA000)



B: TEST HARNESS B (PN98299PA010)



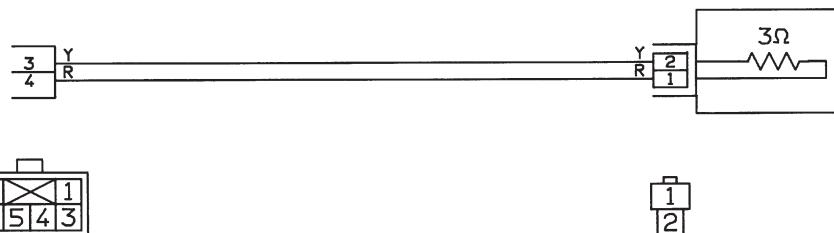
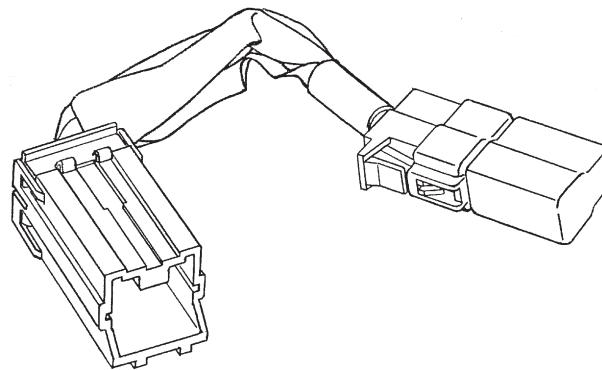
C: TEST HARNESS C (PN98299PA020)



G5M0437

D: AIRBAG RESISTOR (PN98299PA040)

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.



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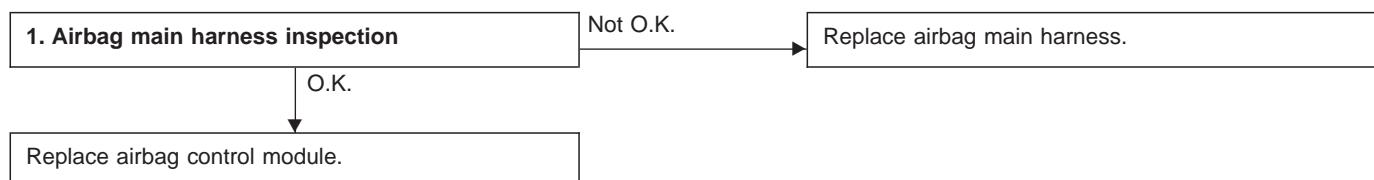
5. Diagnostics Chart with Trouble Code

Trouble code/Contents of troubles	Memory function	Contents of diagnosis	Page
04	Provided.	1) Airbag main harness circuit is shorted. 2) Airbag module harness (Ps) circuit is shorted. 3) Airbag control module is faulty.	16
11	Provided.	1) Airbag control module is faulty. 2) Airbag main harness circuit is open. 3) Fuse No. 8 is blown. 4) Body harness circuit is open.	17
12	Provided.	1) Airbag main harness circuit is open. 2) Airbag module harness (Dr) circuit is open. 3) Roll connector circuit is open. 4) Airbag control module is faulty.	19
13	Provided.	1) Airbag main harness circuit is shorted. 2) Airbag module harness (Dr) is shorted. 3) Roll connector circuit is shorted. 4) Airbag control module is faulty.	20
14	Not provided.	1) (AB9) and (AB10) are not connected properly. 2) (AB2) and (AB7) are not connected properly. 3) (AB3) and (AB8) are not connected properly. 4) (AB6) is not connected properly to airbag control module.	21
21	Provided.	Airbag control module is faulty.	23
22	Provided.	1) Airbag main harness circuit is open. 2) Airbag module harness (Ps) circuit is open. 3) Airbag control module is faulty.	24
34	Provided.	1) Airbag main harness circuit (Ps) is shorted to power supply. 2) Airbag module harness (Ps) is shorted to power supply. 3) Airbag control module is faulty.	25
41	Provided.	1) Airbag main harness circuit (Dr) is shorted to ground. 2) Airbag module harness circuit (Dr) is shorted to ground. 3) Roll connector circuit is shorted to ground. 4) Airbag control module is faulty.	26
42	Provided.	1) Airbag main harness circuit (Ps) is shorted to ground. 2) Airbag module harness circuit (Ps) is shorted to ground. 3) Airbag control module is faulty.	27
43	Provided.	1) Airbag main harness circuit (Dr) is shorted to power supply. 2) Airbag module harness (Dr) is shorted to power supply. 3) Roll connector is shorted to power supply. 4) Airbag control module is faulty.	28
Airbag warning light remains on.	Not provided.	1) Airbag warning light is faulty. 2) Airbag control module to airbag warning light harness circuit is shorted or open. 3) Grounding circuit is faulty. 4) Airbag control module is faulty. 5) (AB1) and (B39) are not connected properly.	29
Airbag warning light remains off.	Not provided.	1) Fuse No. 15 is blown. 2) Body harness circuit is open. 3) Airbag warning light is faulty. 4) Airbag main harness is faulty. 5) Airbag control module is faulty.	32
Warning light indicates trouble code, then normality code.	Provided.	Airbag system component parts are faulty.	34
	Not provided.	1) Airbag connector is faulty. 2) Fuse No. 16 is blown. 3) Airbag main harness is faulty. 4) Airbag control module is faulty. 5) Body harness is faulty.	37

NOTE: Dr: Driver side Ps: Passenger side

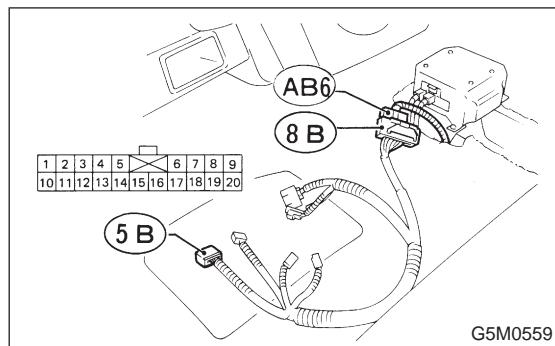
A: TROUBLE CODE 04**DIAGNOSIS:**

- Airbag main harness circuit is shorted.
- Airbag module harness (Passenger) circuit is shorted.
- Airbag control module is faulty.

**CAUTION:**

Before performing diagnostics on airbag system, turn ignition switch "OFF", disconnect battery ground cable and then wait at least 20 seconds.

After 20 seconds elapse, remove instrument panel lower cover, and disconnect (AB3) and (AB8), (AB9) and (AB10).

**1. AIRBAG MAIN HARNESS INSPECTION**

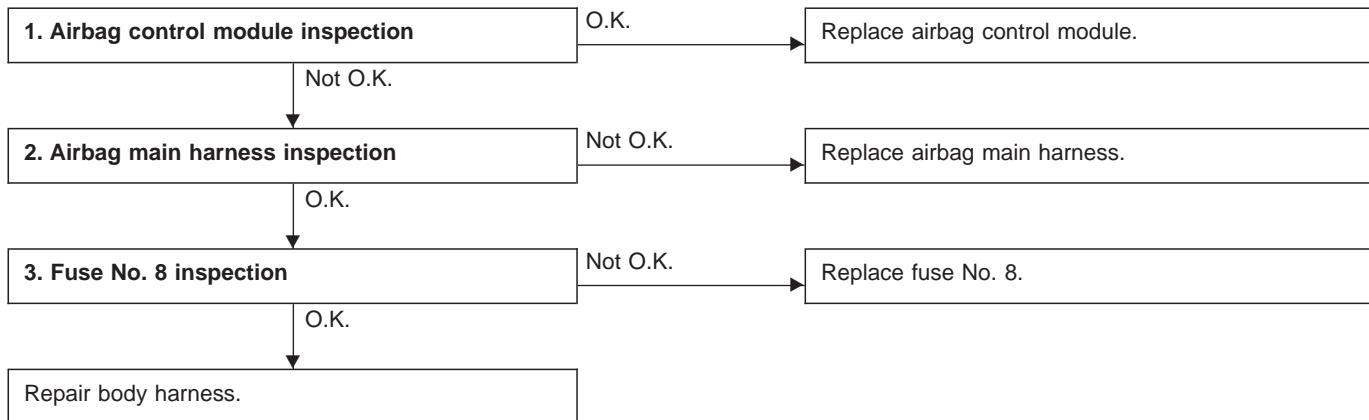
1) Disconnect connector (AB6) from airbag control module <Ref. to 5-5 [W6A0].>, and connect (AB6) to test harness-B connector (8B).

2) Measure resistance between test harness-B connector (5B) terminals.

(5B) Terminal / Specified resistance:
No. 6 — No. 7 / 10 k Ω , or more

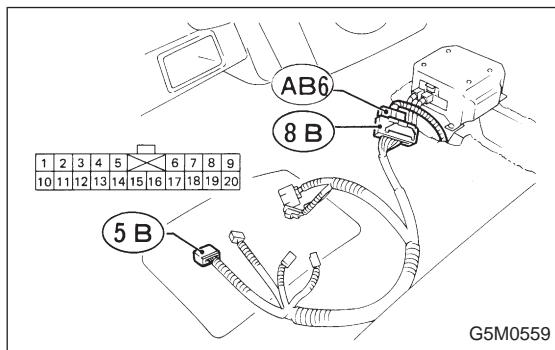
B: TROUBLE CODE 11**DIAGNOSIS:**

- Airbag control module is faulty.
- Airbag main harness circuit is open.
- Fuse No. 8 is blown.
- Body harness circuit is open.

**CAUTION:**

Before performing diagnostics on airbag system, turn ignition switch "OFF", disconnect battery ground cable and then wait at least 20 seconds.

After 20 seconds elapse, remove instrument panel lower cover, and disconnect (AB3) and (AB8).



Test harness B-PN98299PA010

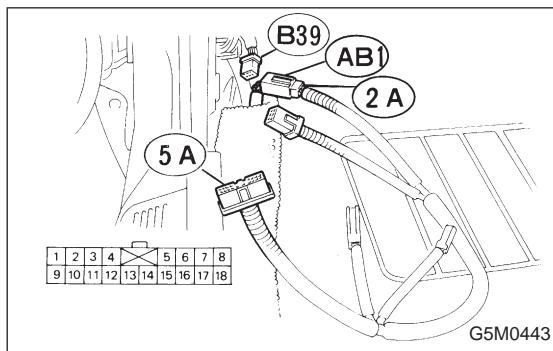
1. AIRBAG CONTROL MODULE INSPECTION

- 1) Disconnect connector (AB6) from airbag control module <Ref. to 5-5 [W5A0].> and connect it to test harness-B connector (8B).
- 2) Connect battery ground cable and turn ignition switch "ON". (engine off)
- 3) Measure voltage across connector (5B) terminal and body.

(5B) Terminal / Specified voltage:
No. 2 — Body / 10 V, or more

2. AIRBAG MAIN HARNESS INSPECTION

- 1) Go to step 2) below after performing diagnostics on air-bag system as per flowchart under "1. Airbag Control Module Inspection" previously outlined.
 - 2) Turn ignition switch "OFF", disconnect battery ground terminal and then wait at least 20 seconds.



Test harness A-PN98299PA000

- 3) Disconnect bulk harness connector (B39) from connector (AB1) at front lower pillar, and connect connector (AB1) to test harness-A connector (2A).

- 4) Measure resistance between test harness-A connector (5A) terminal and test harness-B connector (5B) terminal.

Connector & terminal / Specified resistance:

(5A) No. 1 — (5B) No. 2 / 10 Ω , or less

- 5) Measure resistance between terminals of connectors (5A) and (5B).

(5A) Terminal / Specified resistance:

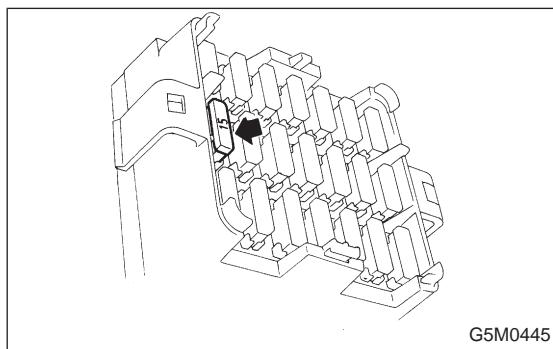
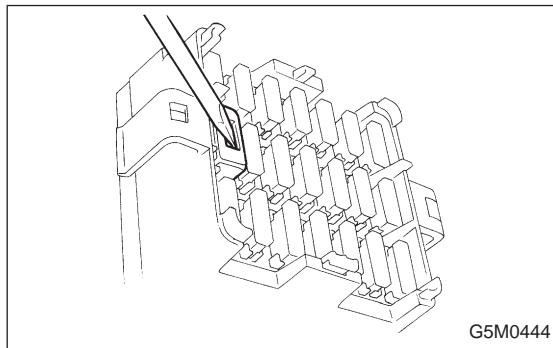
No. 1 = Body / 10 k Ω , or more

(5B) Terminal / Specified resistance:

No. 2 = Body / 10 k Ω , or more.

3. FUSE NO. 8 INSPECTION

- 1) Turn ignition switch “OFF”, and remove airbag fuse protector.

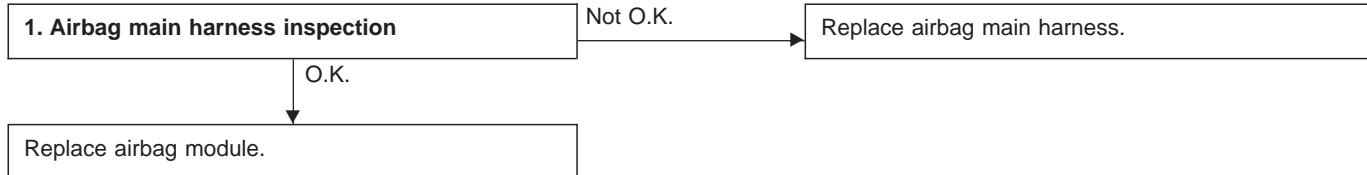


- 2) Remove and visually check fuse No. 8.

C: TROUBLE CODE 12

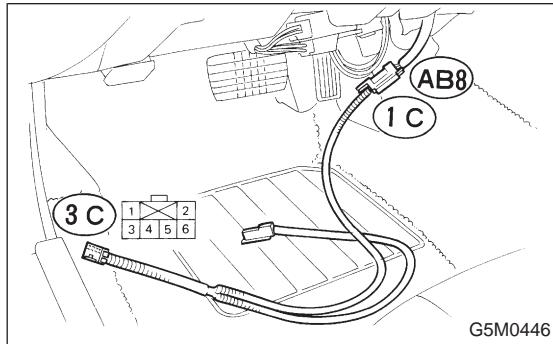
DIAGNOSIS:

- Airbag main harness circuit is open.
- Airbag module harness circuit is open.
- Roll connector circuit is open.
- Airbag control module is faulty.



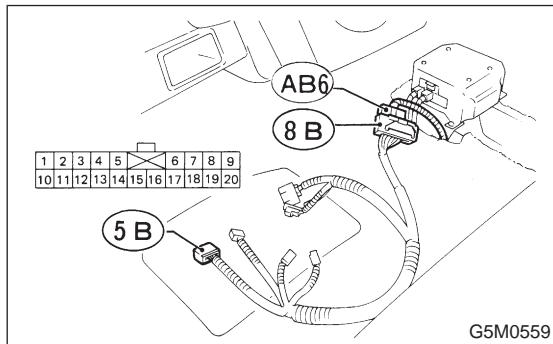
CAUTION:

Before performing diagnostics on airbag system, turn ignition switch "OFF", disconnect battery ground cable and then wait at least 20 seconds.



1. AIRBAG MAIN HARNESS INSPECTION

- 1) Remove lower cover panel <Ref. to 5-4 [W1A0].>, and connect connector (AB8) below steering column to test harness-C connector (1C).



- 2) Disconnect connector (AB6) <Ref. to 5-5 [W5A0].> from airbag control module, and connect it to test harness-B connector (8B) terminal.
- 3) Measure resistance between test harness-B connector (5B) and test harness-C connector (3C) terminals.

Connector & terminal / Specified resistance:

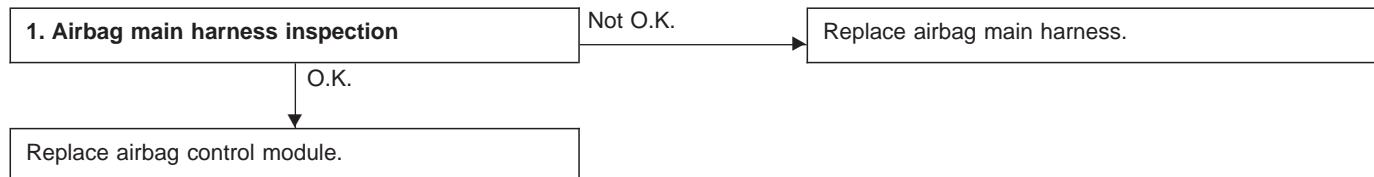
- (5B) No. 14 — (3C) No. 2 / 10 Ω , or less
 (5B) No. 1 — (3C) No. 3 / 10 Ω , or less

Test harness B-PN98299PA010
 Test harness C-PN98299PA020

D: TROUBLE CODE 13

DIAGNOSIS:

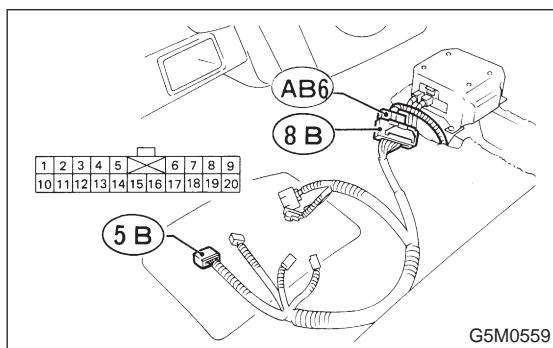
- Airbag main harness circuit is shorted.
- Airbag module harness is shorted.
- Roll connector circuit is shorted.
- Airbag control module is faulty.



CAUTION:

Before performing diagnostics on airbag system, turn ignition switch "OFF", disconnect battery ground cable and then wait at least 20 seconds.

After 20 seconds elapse, remove instrument panel lower cover, and disconnect (AB3) and (AB8).



1. AIRBAG MAIN HARNESS INSPECTION

- 1) Disconnect connector (AB6) from airbag control module <Ref. to 5-5 [W5A0].>, and connect it to test harness-B connector (8B).
- 2) Measure resistance between test harness-B connector (5B) terminals.

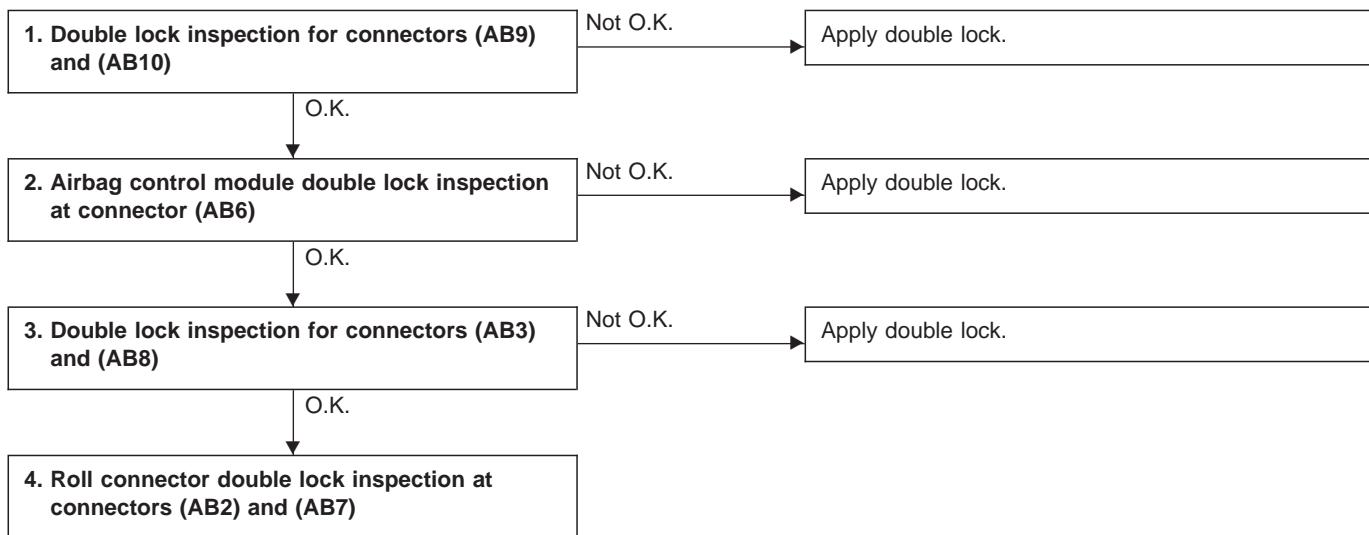
(5B) Terminal / Specified resistance:

No. 1 — No. 14 / 10 kΩ, or more

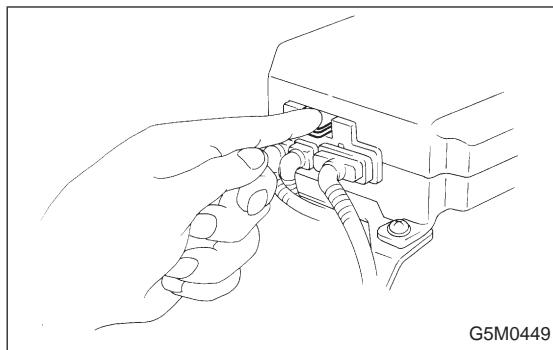
Test harness B-PN98299PA010

E: TROUBLE CODE 14**DIAGNOSIS:**

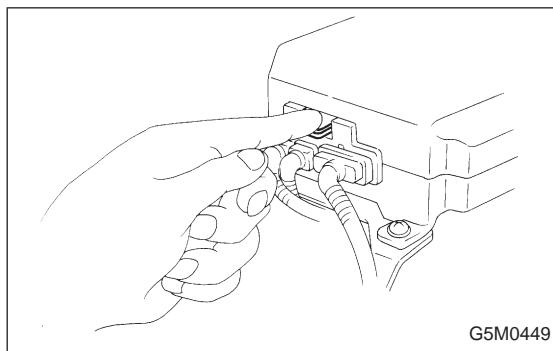
- (AB9) and (AB10) are not connected properly.
- (AB2) and (AB7) are not connected properly.
- (AB3) and (AB8) are not connected properly.
- (AB6) is not connected properly to airbag control module.

**CAUTION:**

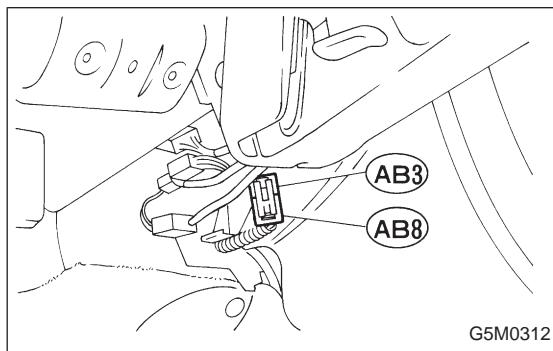
Before performing diagnostics on airbag system, turn ignition switch "OFF", disconnect battery ground cable and then wait at least 20 seconds.

**1. AIRBAG CONTROL MODULE DOUBLE LOCK INSPECTION AT CONNECTORS (AB4) (AB5) (AB6)**

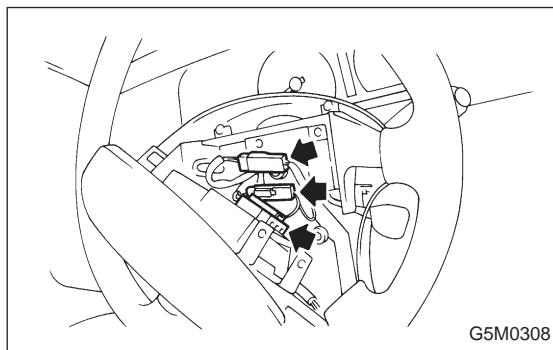
- 1) Check double lock of connectors (AB4) (AB5) (AB6) connected to airbag control module. <Ref. to 5-5 [W5A0].>

**2. AIRBAG CONTROL MODULE DOUBLE LOCK INSPECTION AT CONNECTOR (AB6)**

- 1) Check double lock of connector (AB6) connected to airbag control module. <Ref. to 5-5 [W5A0].>

**3. DOUBLE LOCK INSPECTION FOR CONNECTORS (AB3) AND (AB8) BELOW STEERING COLUMN**

- 1) Remove lower cover panel. <Ref. to 5-4 [W1A0].>
- 2) Check double lock of connectors (AB3) and (AB8) below steering column.

**4. ROLL CONNECTOR DOUBLE LOCK INSPECTION AT CONNECTORS (AB2) AND (AB7)**

- 1) Remove airbag module <Ref. to 5-5 [W2A0].>, and check double lock of connectors (AB2) and (AB7) at roll connector.

F: TROUBLE CODE 21**DIAGNOSIS:**

- Airbag control module is faulty.

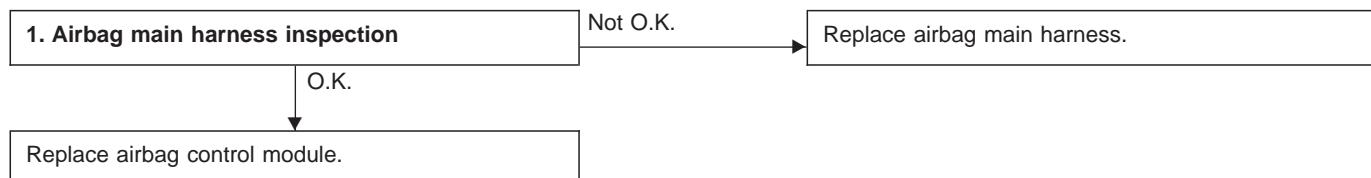
Replace airbag control module.

CAUTION:

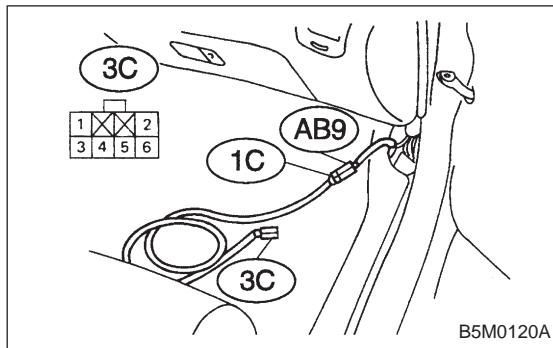
Before performing diagnostics on airbag system, turn ignition switch “OFF”, disconnect battery ground terminal, and then wait at least 20 seconds.

G: TROUBLE CODE 22**DIAGNOSIS:**

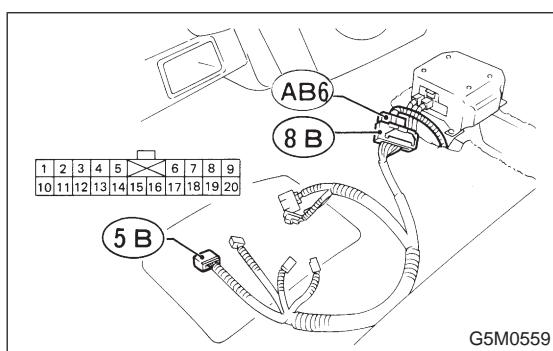
- Airbag main harness circuit is open.
- Airbag module harness (Passenger) circuit is open.
- Airbag control module is faulty.

**CAUTION:**

Before performing diagnostics on airbag system, turn ignition switch "OFF", disconnect battery ground cable and then wait at least 20 seconds.

**1. AIRBAG MAIN HARNESS INSPECTION**

- 1) Remove front pillar lower trim (Passenger side). *<Ref. to 5-3 [C700].>*, disconnect connector (AB9) and (AB10) and connect connector (AB9) to test harness C connector (1C).



- 2) Disconnect connector (AB6) *<Ref. to 5-5 [W6A0].>* from airbag control module, and connect (AB6) to test harness-B connector (8B) terminal.

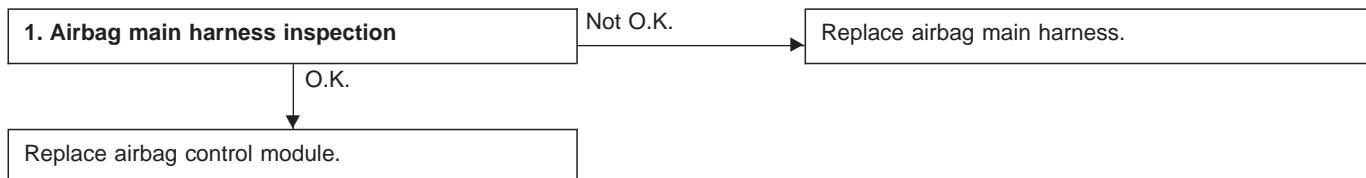
- 3) Measure resistance between test harness-B connector (5B) and test harness C connector (3C) terminals.

Connector & terminal / Specified resistance:

- (5B) No. 6 — (3C) No. 4 / 10 Ω , or less
 (5B) No. 7 — (3C) No. 3 / 10 Ω , or less

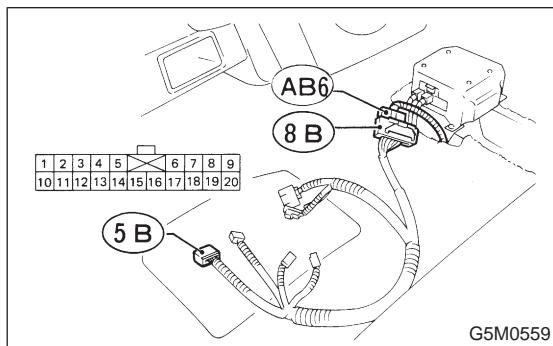
H: TROUBLE CODE 34**DIAGNOSIS:**

- Airbag main harness circuit (Passenger) is shorted to power supply.
- Airbag module harness (Passenger) is shorted to power supply.
- Airbag control module is faulty.

**CAUTION:**

Before performing diagnostics on airbag system, turn ignition switch "OFF", disconnect battery ground terminal and then wait at least 20 seconds.

After 20 seconds elapse, remove instrument panel lower cover, and disconnect (AB3) and (AB8), (AB9) and (AB10).

**1. AIRBAG MAIN HARNESS INSPECTION**

- 1) Disconnect connector (AB6) from airbag control module <Ref. to 5-5 [W5A0].>, and connect it to test harness-B connector (8B).
- 2) Connect battery ground cable and turn ignition switch "ON" (engine off).
- 3) Measure voltage across each test harness-B connector (5B) terminal and body.

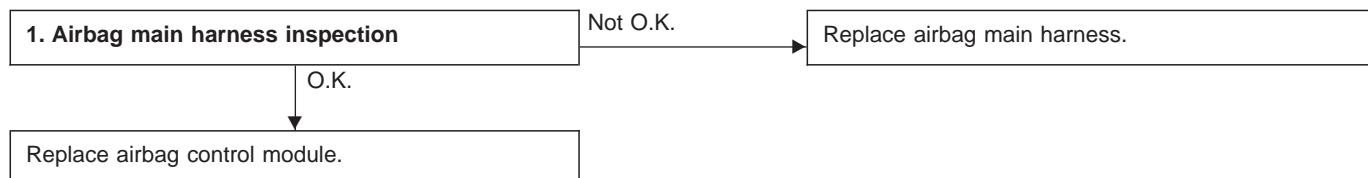
(5B) Terminals / Specified voltage:

No. 6 — Body / 1 V, or less

No. 7 — Body / 1 V, or less

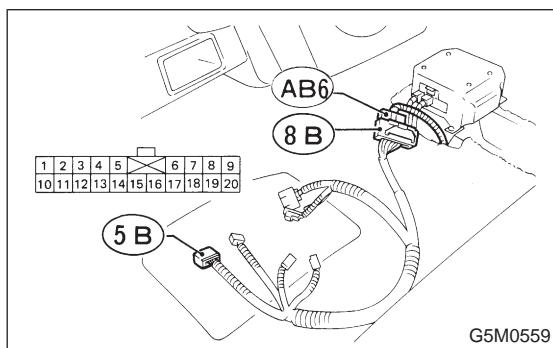
I: TROUBLE CODE 41**DIAGNOSIS:**

- Airbag main harness circuit (Driver) is shorted to ground.
- Airbag module harness circuit (Driver) is shorted to ground.
- Roll connector circuit is shorted to ground.
- Airbag control module is faulty.

**CAUTION:**

Before performing diagnostics on airbag system, turn ignition switch “OFF”, disconnect battery ground cable and then wait at least 20 seconds.

After 20 seconds elapse, remove instrument panel lower cover, and disconnect (AB3) and (AB8), (AB9) and (AB10).

**1. AIRBAG MAIN HARNESS INSPECTION**

1) Disconnect connector (AB6) from airbag control module <Ref. to 5-5 [W5A0].>, and connect it to test harness-B connector (8B).

2) Measure resistance between test harness-B connector (5B) terminals and body.

(5B) Terminal / Specified resistance:

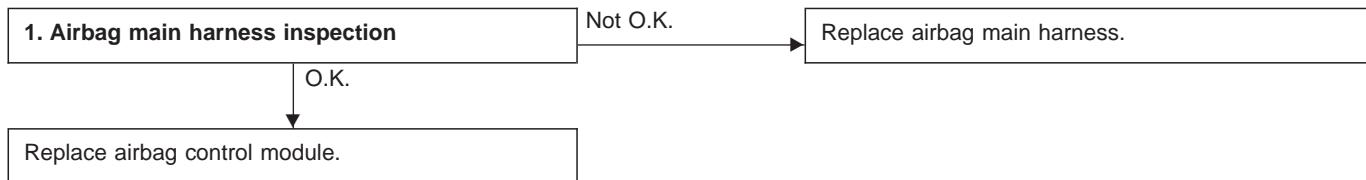
No. 1 — Body / 200 Ω , or more

No. 14 — Body / 200 Ω , or more

J: TROUBLE CODE 42

DIAGNOSIS:

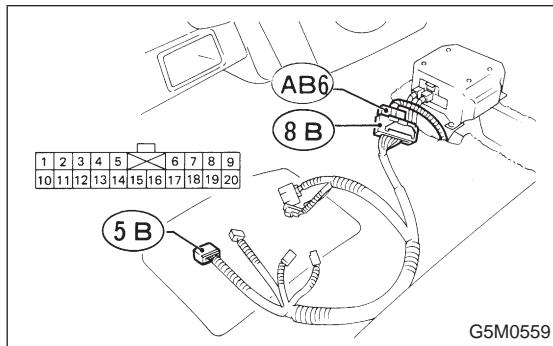
- Airbag main harness circuit (Passenger) is shorted to ground.
- Airbag module harness circuit (Passenger) is shorted to ground.
- Airbag control module is faulty.



CAUTION:

Before performing diagnostics on airbag system, turn ignition switch “OFF”, disconnect battery ground cable and then wait at least 20 seconds.

After 20 seconds elapse, remove instrument panel lower cover, and disconnect (AB3) and (AB8), (AB9) and (AB10).



1. AIRBAG MAIN HARNESS INSPECTION

1) Disconnect connector (AB6) from airbag control module <Ref. to 5-5 [W5A0].>, and connect it to test harness-B connector (8B).

2) Measure resistance between test harness-B connector (5B) terminals and body.

(5B) Terminal / Specified resistance:

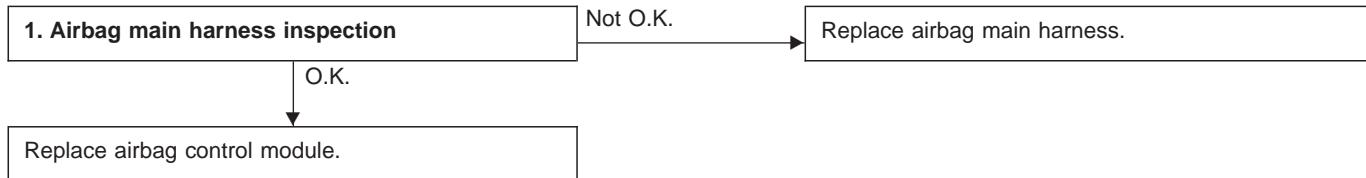
No. 6 — Body / 200 Ω , or more

No. 7 — Body / 200 Ω , or more

K: TROUBLE CODE 43

DIAGNOSIS:

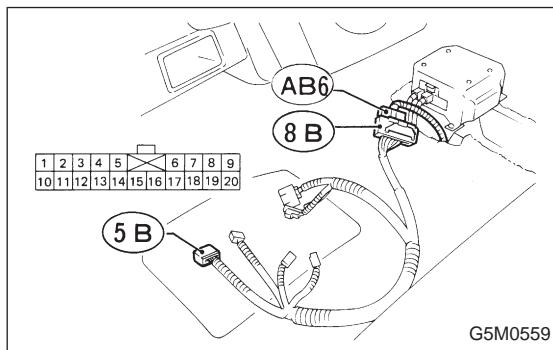
- Airbag main harness circuit (Driver) is shorted to power supply.
- Airbag module harness (Driver) is shorted to power supply.
- Roll connector is shorted to power supply.
- Airbag control module is faulty.



CAUTION:

Before performing diagnostics on airbag system, turn ignition switch “OFF”, disconnect battery ground terminal and then wait at least 20 seconds.

After 20 seconds elapse, remove instrument panel lower cover, and disconnect (AB3) and (AB8), (AB9) and (AB10).



1. AIRBAG MAIN HARNESS INSPECTION

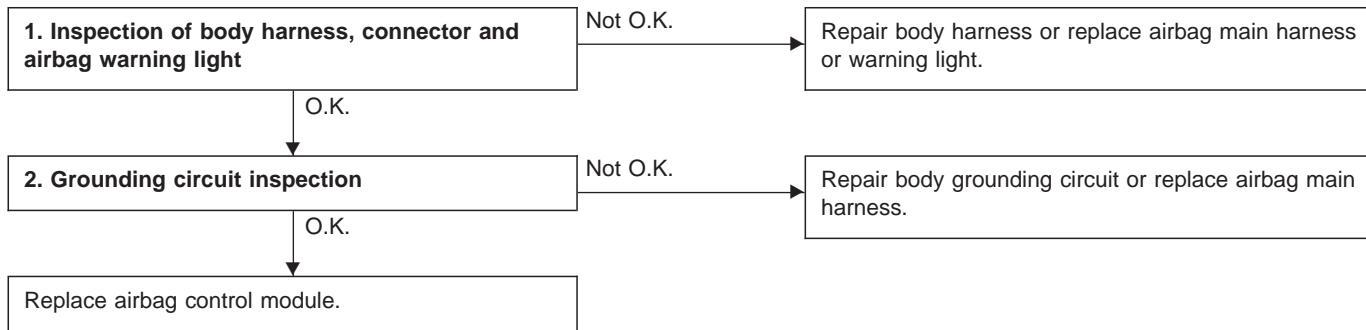
- 1) Disconnect connector (AB6) from airbag control module <Ref. to 5-5 [W5A0].>, and connect it to test harness-B connector (8B).
- 2) Connect battery ground cable and turn ignition switch “ON” (engine off).
- 3) Measure voltage across each test harness-B connector (5B) terminal and body.

(5B) Terminals / Specified voltage:

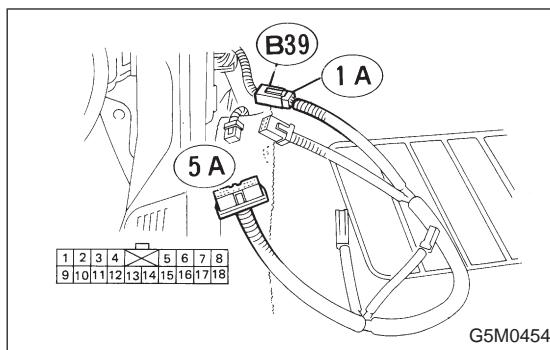
- No. 1 — Body / 1 V, or less
 No. 14 — Body / 1 V, or less

L: AIRBAG WARNING LIGHT REMAINS ON.**DIAGNOSIS:**

- Airbag warning light is faulty.
- Airbag control module-to airbag warning light harness circuit is shorted or open.
- Grounding circuit is faulty.
- Airbag control module is faulty.
- (AB1) and (B39) are not connected properly.

**CAUTION:**

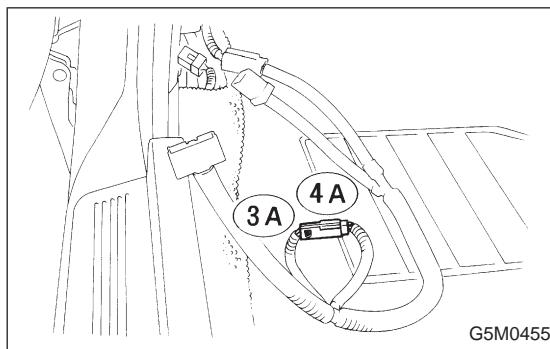
Before performing diagnostics on airbag system, turn ignition switch "OFF", disconnect battery ground cable and then wait at least 20 seconds.



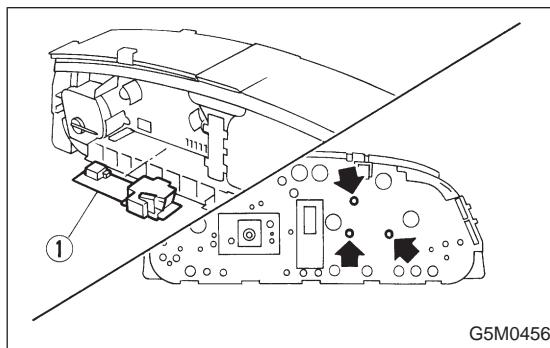
1. INSPECTION OF BODY HARNESS, CONNECTOR AND AIRBAG WARNING LIGHT

- 1) Turn ignition switch "OFF" and connect connector (B39) to test connector-A connector (1A).

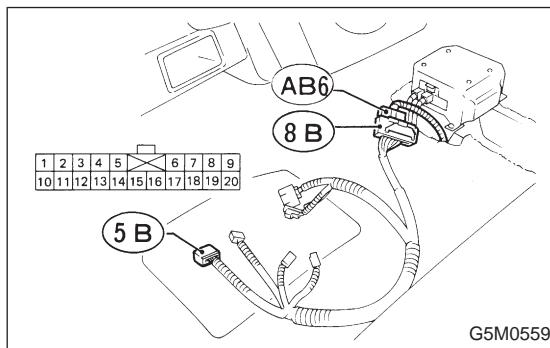
Test harness A-PN98299PA000



- 2) Connect battery ground cable and turn ignition switch "ON", (engine off) and connect connectors (3A) and (4A) to check if warning light goes out. If it does, go to step 4) below. If it remains on, check body harness and repair if necessary.



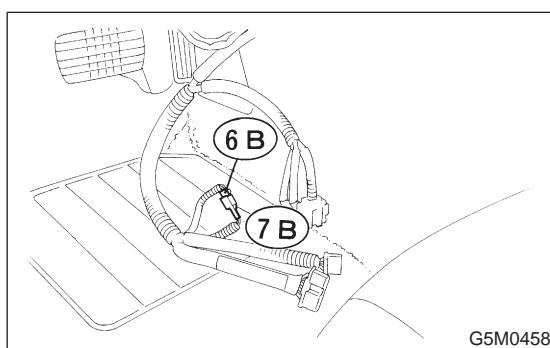
- 3) If body harness is satisfactory, replace airbag warning light unit ①. After problem has been eliminated, disconnect connectors (3A) and (4A).



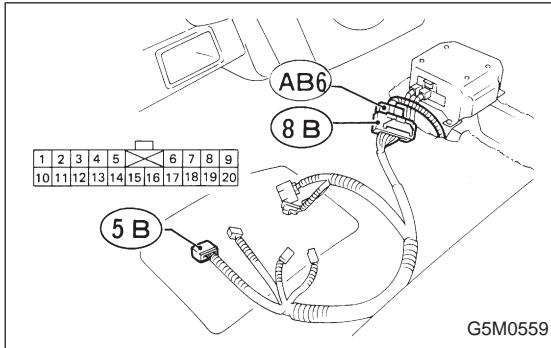
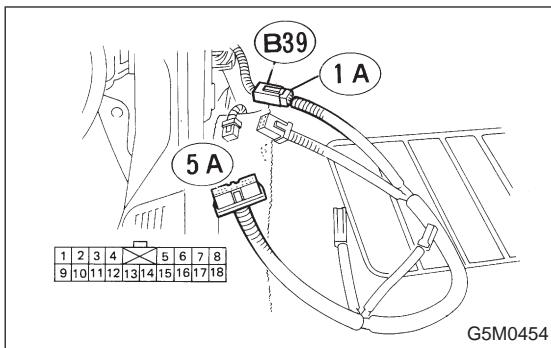
- 4) Turn ignition switch "OFF", disconnect battery ground cable and then wait at least 20 seconds, and re-connect connectors (AB1) and (B39).

- 5) Remove instrument panel lower cover and disconnect (AB3) with (AB8), then disconnect connector (AB6) from airbag control module <Ref. to 5-5 [W5A0].>, and connect it to test harness-B connector (8B).

Test harness B-PN98299PA010



- 6) Connect battery ground cable and turn ignition switch "ON", (engine off) and connect connectors (6B) and (7B) to check if warning light goes out. If it does, go to "2. Grounding Circuit Inspection" below. If it remains on, replace airbag main harness. After problem has been eliminated, disconnect connectors (6B) and (7B).



Test harness A-PN98299PA000
Test harness B-PN98299PA010

2. GROUNDING CIRCUIT INSPECTION

1) Turn ignition switch "OFF", disconnect battery ground cable and then wait at least 20 seconds. Disconnect connector (AB1) from bulk harness connector (B39), and connect connector (B39) to test harness-A connector (1A). Measure resistance between connector (5A) terminal and body.

(5A) Terminal / Specified resistance:

No. 17 — Body / 10 Ω , or less

No. 18 — Body / 10 Ω , or less

If resistance is greater than 10 ohms, body grounding circuit is faulty and should be repaired. If resistance is less than 10 ohms, go to step 2) below.

2) Connect connectors (AB1) and (B39). Disconnect connector (AB6) from airbag control module <Ref. to 5-5 [W5A0].>, and connect it to test harness-B connector (8B).

3) Measure resistance between each test harness-B connector (5B) terminal and body.

(5B) Terminal / Specified resistance:

No. 11 — Body / 10 Ω , or less

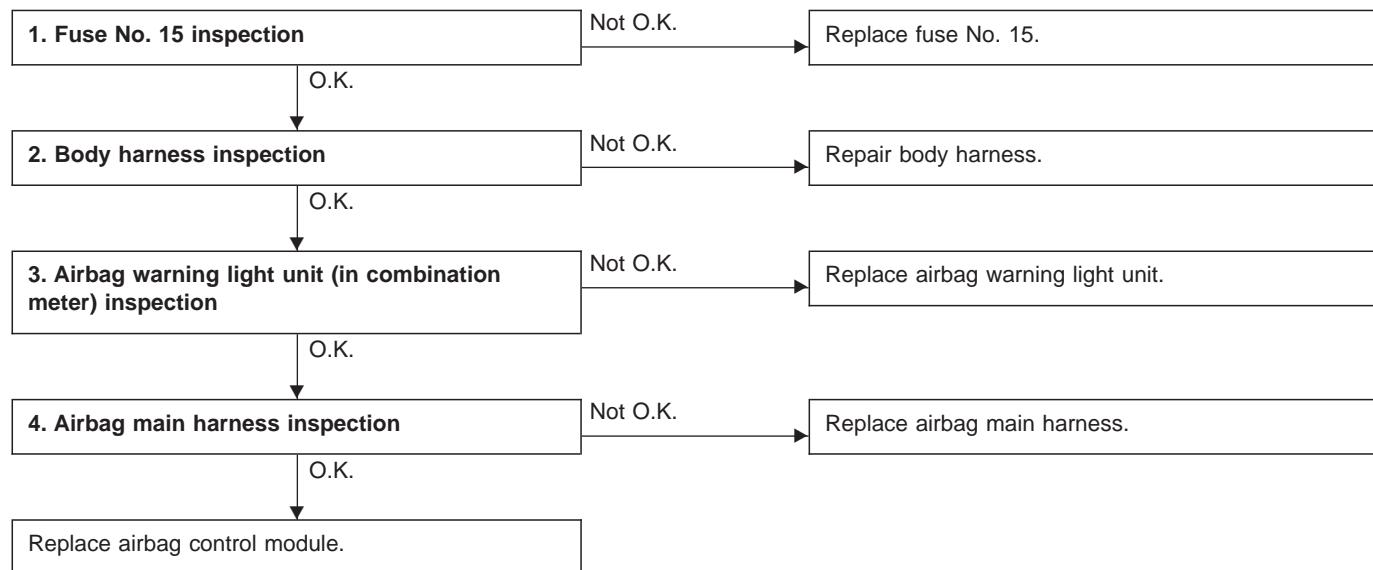
No. 12 — Body / 10 Ω , or less

If resistance is greater than 10 ohms, replace airbag main harness.

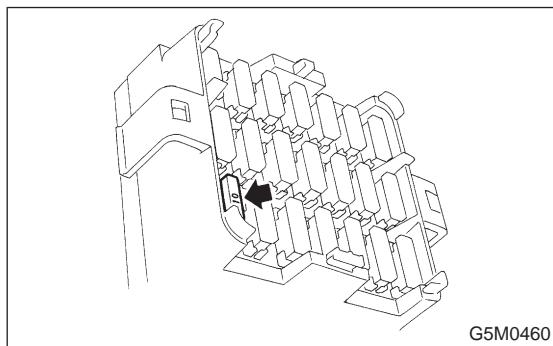
If resistance is less than 10 ohms, replace airbag control module.

M: AIRBAG WARNING LIGHT REMAINS OFF.**DIAGNOSIS:**

- Fuse No. 15 is blown.
- Body harness circuit is open.
- Airbag warning light is faulty.
- Airbag main harness is faulty.
- Airbag control module is faulty.

**CAUTION:**

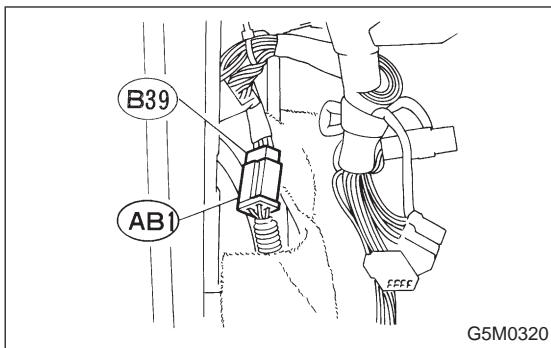
Before performing diagnostics on airbag system, turn ignition switch "OFF", disconnect battery ground terminal, and then wait at least 20 seconds.

**1. FUSE No. 15 INSPECTION**

- 1) Remove and visually check fuse No. 15.
- 2) If fuse is blown, replace it with a new one. After connecting battery cable and turning ignition switch "ON", if it blows again, proceed to "2. BODY HARNESS INSPECTION".

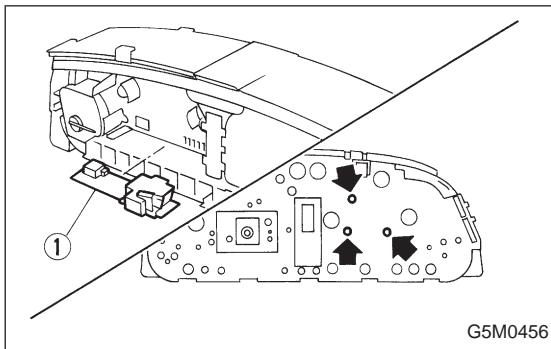
2. BODY HARNESS INSPECTION

- 1) Turn ignition switch "ON" (engine off) to make sure other warning lights (in combination meter) illuminate. If they do not, check body harness.



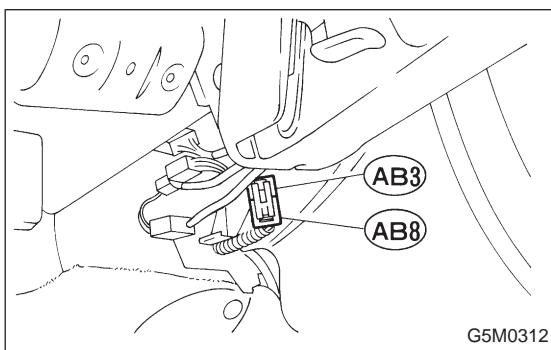
3. AIRBAG WARNING LIGHT UNIT (IN COMBINATION METER) INSPECTION

- 1) Turn ignition switch "OFF", disconnect battery ground cable and then wait at least 20 seconds.
- 2) Disconnect bulk harness connector (B39) from connector (AB1).



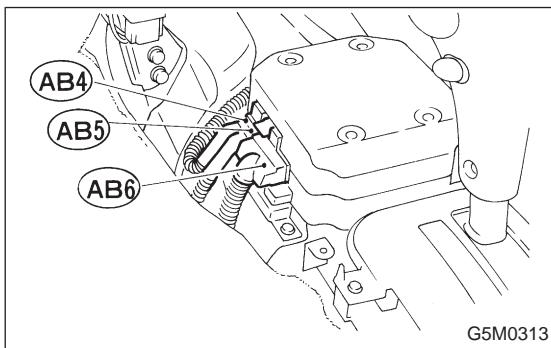
- 3) Connect battery ground cable and turn ignition switch "ON" (engine off) to make sure airbag warning light illuminates.

If it does not, replace airbag warning light unit ①.



4. AIRBAG MAIN HARNESS INSPECTION

- 1) Turn ignition switch "OFF", disconnect battery ground cable and then wait at least 20 seconds.
- 2) Connect bulk harness connector (B39) and connector (AB1).
- 3) Disconnect connectors (AB3) and (AB8) below steering column. <Ref. to 5-5 [M2-6].>

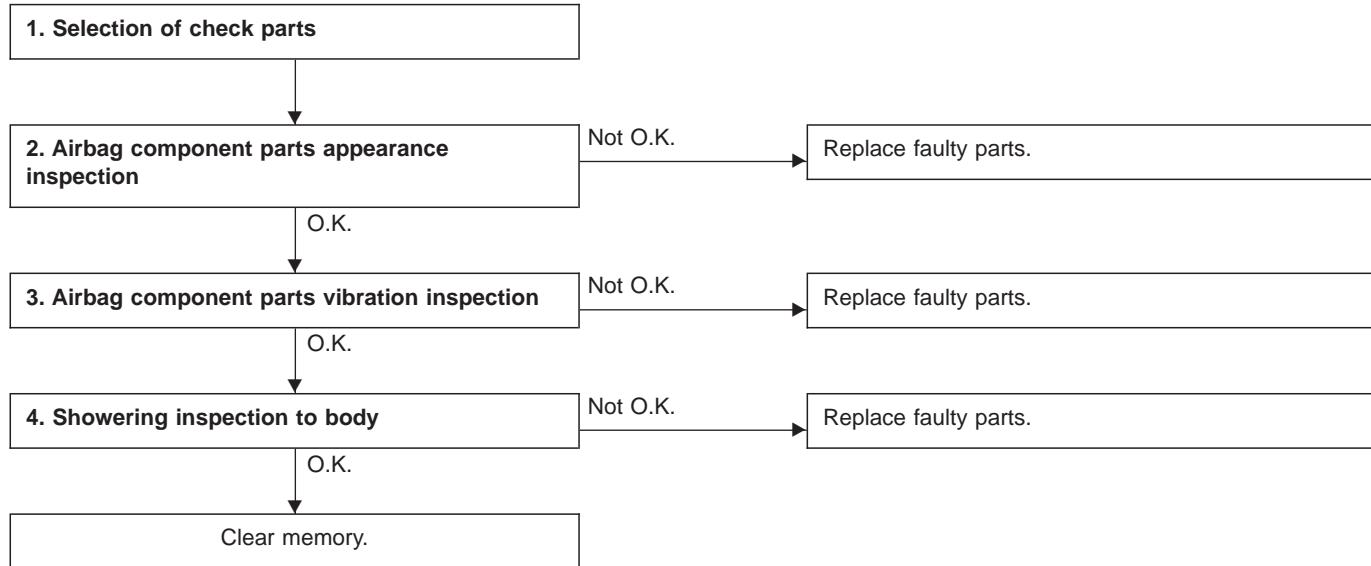


- 4) Disconnect connector (AB6) from airbag control module. <Ref. to 5-5 [W5A0].>
- 5) Connect battery ground cable and turn ignition switch "ON" to make sure airbag warning light illuminates.

**N: WARNING LIGHT INDICATES TROUBLE CODE, THEN NORMALITY CODE.
— FLASHING TROUBLE CODE —**

DIAGNOSIS:

- Airbag system component parts are faulty.



CAUTION:

Before performing diagnostics on airbag system, turn ignition switch "OFF", disconnect battery ground cable, and then wait at least 20 seconds.

1. SELECTION OF CHECK PARTS

- 1) Conduct on-board diagnostic and call up trouble codes stored in memory. <Ref. to 5-5 [T1B0].>
- 2) Select trouble code required to check airbag component parts from those listed in table and reproduce symptom.

Trouble codes	Check parts	Refer to 5-5:
04	<ul style="list-style-type: none"> ● Airbag module (Passenger) ● Airbag main harness ● Airbag control module 	W2A2 W4A0 W5A0
11	<ul style="list-style-type: none"> ● Fuse No. 8 ● Airbag main harness ● Airbag control module ● Body harness 	T5A3 W4A0 W5A0 —
12	<ul style="list-style-type: none"> ● Roll connector ● Airbag module (Driver) ● Airbag main harness ● Airbag control module 	W6A0 W2A1 W4A0 W5A0
13	<ul style="list-style-type: none"> ● Airbag module (Driver) ● Roll connector ● Airbag main harness ● Airbag control module 	W2A1 W6A0 W4A0 W5A0
21	<ul style="list-style-type: none"> ● Airbag control module 	W5A0
22	<ul style="list-style-type: none"> ● Airbag module (Passenger) ● Airbag main harness ● Airbag control module 	W2A2 W4A0 W5A0
34	<ul style="list-style-type: none"> ● Airbag main harness ● Airbag module (Passenger) ● Airbag control module 	W4A0 W2A2 W5A0
41	<ul style="list-style-type: none"> ● Airbag module (Driver) ● Roll connector ● Airbag main harness ● Airbag control module 	W2A1 W6A0 W4A0 W5A0
42	<ul style="list-style-type: none"> ● Airbag module (Passenger) ● Airbag main harness ● Airbag control module 	W2A2 W4A0 W5A0
43	<ul style="list-style-type: none"> ● Airbag module (Driver) ● Roll connector ● Airbag main harness ● Airbag control module 	W2A1 W6A0 W4A0 W5A0

2. AIRBAG COMPONENT PARTS APPEARANCE INSPECTION

- 1) Conduct appearance inspection on parts selected.

NOTE:

Also check connector terminals, wiring harness, case, etc. for damage.

3. AIRBAG COMPONENT PARTS VIBRATION INSPECTION

- 1) Gently shake check parts (to determine faults.)

- 2) To check airbag module or roll connector, turn and tilt steering wheel.



4. SHOWERING INSPECTION TO BODY

- 1) Spray water on vehicle body.

CAUTION:

Do not directly spray water on airbag components.

- 2) Check passenger compartment for traces of leaking.

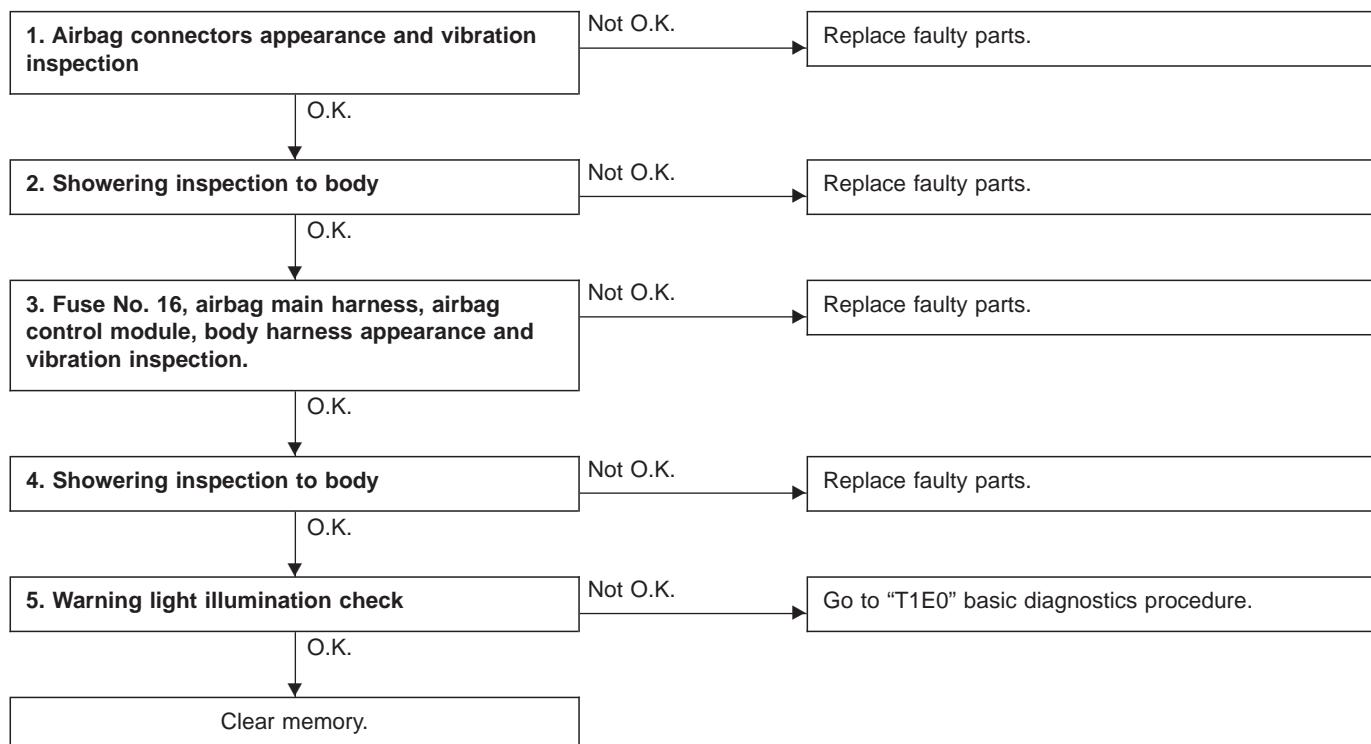
NOTE:

Also check wiring harnesses as water may leak along them and get airbag component parts wet.

**O: WARNING LIGHT INDICATES TROUBLE CODE, THEN NORMALITY CODE.
— FLASHING NORMALITY CODE —**

DIAGNOSIS:

- Airbag connector is faulty.
- Fuse No. 16 is blown.
- Airbag main harness is faulty.
- Airbag control module is faulty.
- Body harness is faulty.



CAUTION:

Before performing diagnostics on airbag system, turn ignition switch "OFF", disconnect battery ground cable, and then wait at least 20 seconds.

1. AIRBAG CONNECTORS APPEARANCE AND VIBRATION INSPECTION

- 1) Conduct appearance inspection on airbag connectors (AB2 through AB8). <Ref. to 5-5 [T300].>

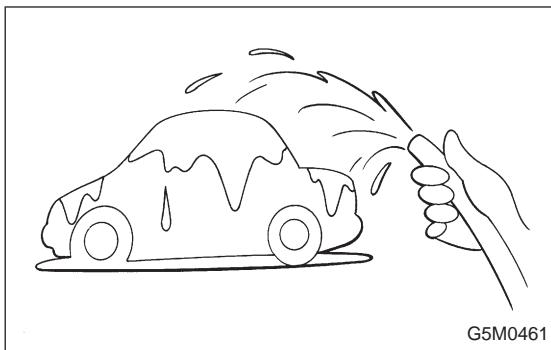
NOTE:

Check terminals, case and wiring harnesses for damage.

- 2) Conduct vibration inspection on airbag connectors (AB2 through AB8). <Ref. to 5-5 [T300].>

NOTE:

Gently shake each airbag connector.



2. SHOWERING INSPECTION TO BODY

- 1) Spray water on vehicle body.

CAUTION:

Do not directly spray water on airbag connectors.

- 2) Check passenger compartment for traces of leaking.

NOTE:

If leaks are noted, also check wiring harnesses as water may leak along them and wet airbag connectors.

3. FUSE NO. 16, AIRBAG MAIN HARNESS, AIRBAG CONTROL MODULE, BODY HARNESS APPEARANCE AND VIBRATION INSPECTION

- 1) Conduct appearance inspection on fuse No. 16, airbag main harness <Ref. to 5-5 [W3A0].>, airbag control module <Ref. to 5-5 [W4A0].> and body harness.

NOTE:

Also check connectors, terminals, wiring harnesses and case for damage.

- 2) Conduct vibration inspection on fuse No. 16, airbag main harness, airbag control module and body harness.

NOTE:

Gently shake each part.



4. SHOWERING INSPECTION TO BODY

- 1) Spray water on vehicle body.

CAUTION:

Do not directly spray water on each part.

- 2) Check passenger compartment for traces of leaking.

NOTE:

If leaks are noted, check wiring harnesses as water may leak along them and get parts wet.

5. WARNING LIGHT ILLUMINATION CHECK

- 1) Turn ignition switch "ON" (engine "OFF") and observe airbag warning light.

Airbag warning light comes "ON" for 8 seconds then goes out and stays out.