# AIRBAG SYSTEM (DIAGNOSTICS)

## 1. Basic Diagnostic Procedure

### A: PROCEDURE

	Step	Check	Yes	No
1	CHECK AIRBAG WARNING LIGHT. Turn the ignition switch to ON.	Does the airbag warning light come on?	Go to step 2.	Go to "Airbag Warning Light Fail- ure" <ref. to<br="">AB(diag)-37, Air- bag Warning Light Failure.&gt;.</ref.>
2	READ DTC. <ref. (dtc).="" ab(diag)-34,="" code="" diagnostic="" read="" to="" trouble=""></ref.>	Is the normal code being detected?	Finish the diagnosis.	Go to step 3.
3	PERFORM THE DIAGNOSIS.  1) Judge the possible cause from "List of Diagnostic Trouble Code (DTC)". <ref. (dtc).="" ab(diag)-45,="" code="" diagnostic="" list="" of="" to="" trouble="">  2) Inspect using "Diagnostic Chart with Diagnostic Trouble Code (DTC)".  3) Repair the cause of the trouble.  4) Perform the clear memory mode. <ref. ab(diag)-36,="" clear="" memory="" mode.="" to="">  5) Perform the inspection mode. <ref. ab(diag)-35,="" inspection="" mode.="" to="">  6) Read any DTC again.</ref.></ref.></ref.>	Is the DTC being detected?	Perform the procedure 1) to 5) in step 3.	Finish the diagnosis.

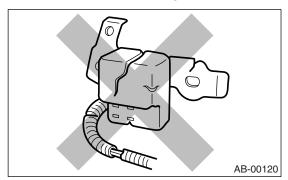
## 2. Check List for Interview

### A: CHECK

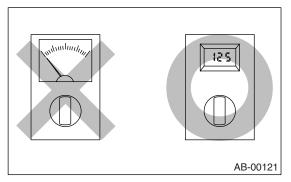
Customer's Name		Inspector's Name			
Date Vehicle Brought In	/ /	Registration No.			
Odometer Reading	km miles	VIN			
Date Problem Occurred	1 1	Registration Year	/ /		
Weather	er 🗅 Fine 🗅		/ ☐ Other:		
Temperature	°C (°F)				
Road Condition	□ Level road □ U	Jphill □ Downhill □ Roug	h road 🔲 Others:		
Vehicle Operation	☐ Starting ☐ Idling ☐ Driving (☐ Constant Speed ☐ Acceleration ☐ Deceleration ☐ Steering wheel turn ☐ Other: )				
Details of Problem					
Check Airbag Warning Light		Remains ON 🚨 Remains OF	FF		
Check DTC	□ Nor	rmal Code 🚨 DTC: (Code	)		

## 3. General Description A: CAUTION

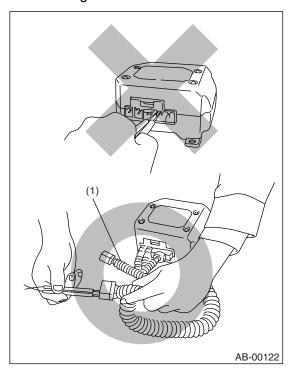
- When servicing a vehicle, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait for more than 20 seconds before starting work.
- The airbag system is fitted with a backup power source. If the airbag system is serviced within 20 seconds after the ground cable is disconnected, it may inflate.
- If sensors, airbag module, airbag control module, pretensioner, and harness are deformed or damaged, replace them with new genuine parts.



- Do not use the airbag system and pretensioners on other vehicles. When replacing parts, be sure to replace them with new parts.
- When checking the airbag system, be sure to use a digital circuit tester. Use of an analog circuit tester may cause the airbag to activate erroneously.

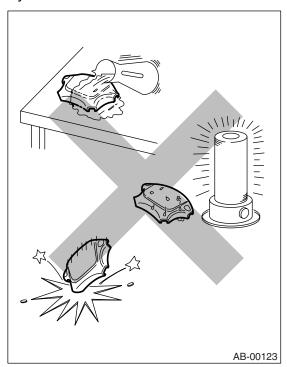


• When checking, use a test harness. Do not directly apply the tester probe to any connector terminal of the airbag.

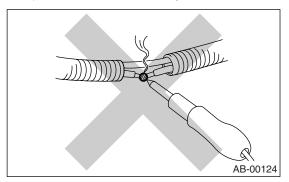


(1) Test harness

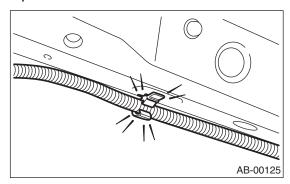
• Do not drop the airbag modulator parts, subject them to high temperature over 93°C (199°F), or let water, oil, or grease get on them; otherwise, the internal parts may be damaged and may be reliability greatly lowered.



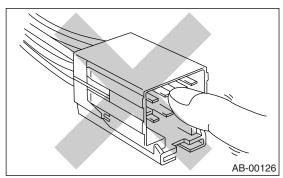
• If any damage, opening, or rust is found on the airbag system wire harness, do not attempt to repair using soldering equipment. Be sure to replace the faulty harness with a new genuine part.



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

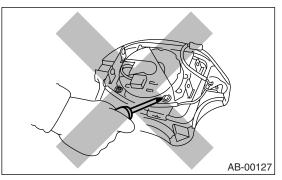


• Do not allow water or oil to come in contact with the connector terminals. Do not touch the connector terminals.

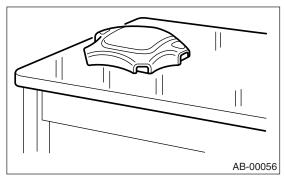


• Either of the airbag modules for driver, passenger or side, or pretensioner must not be disassembled.

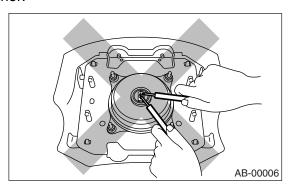
• The airbag module cannot be used again if once inflated.



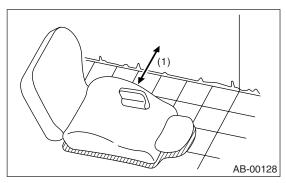
 After removal, keep the airbag module with the pad facing upward on a dry, clean, and flat surface away from heat and light sources, and moisture and dust.



 Do not check continuity of either of the airbag modules for driver, passenger or side, or pretensioner.

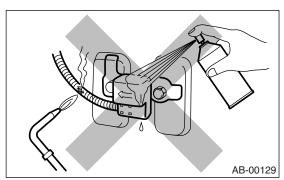


• The removed front seat with the airbag module must be kept at least 200 mm (8 in) away from walls and other objects.



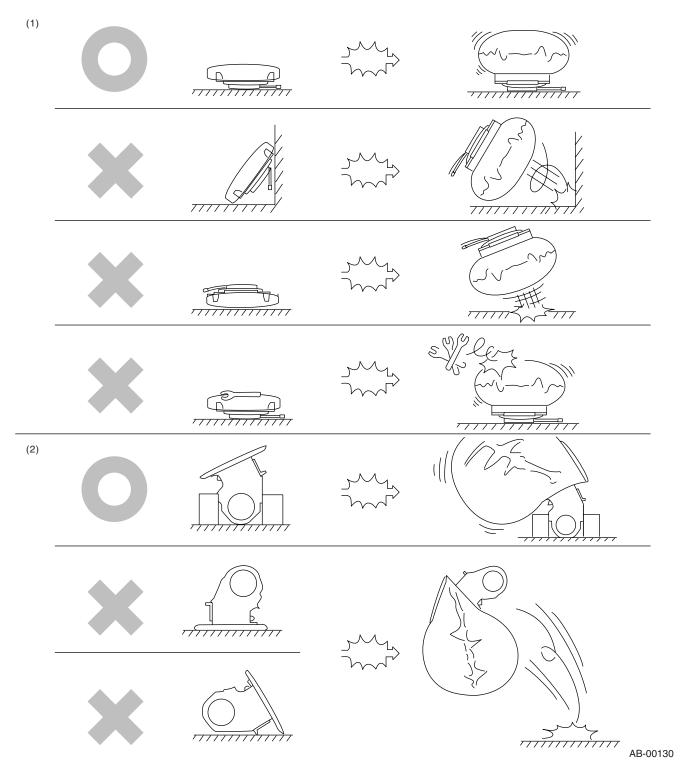
(1) More than 200 mm (8 in)

- 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.



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

• 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.



(1) Driver side airbag module

(2) Passenger side airbag module

#### **B: INSPECTION**

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

#### 1. BATTERY

Measure the battery voltage and specific gravity of electrolyte.

Standard voltage: 12 V

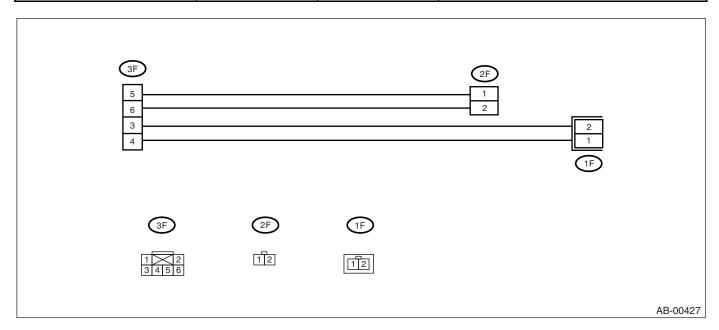
Specific gravity: Above 1.260
C: PREPARATION TOOL

#### 1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	18482AA010 (Newly adopted tool)	CARTRIDGE	Troubleshooting for electrical systems.
ST18482AA010			
ST22771AA030	22771AA030	SUBARU SELECT MONITOR KIT	Troubleshooting for electrical systems.

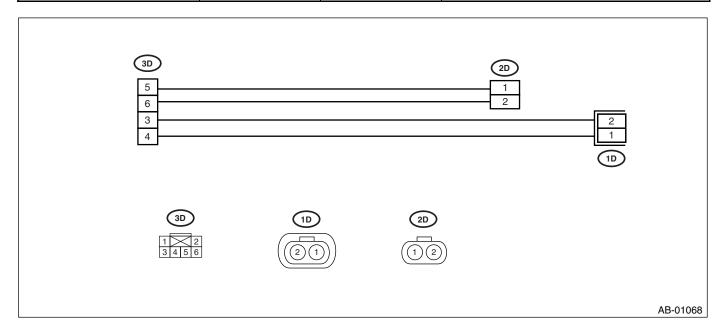
#### • TEST HARNESS F

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
3F) (2F)	98299FC010	TEST HARNESS F	Used when measuring voltage, resistance of side airbag module harness.
ST98299FC010			



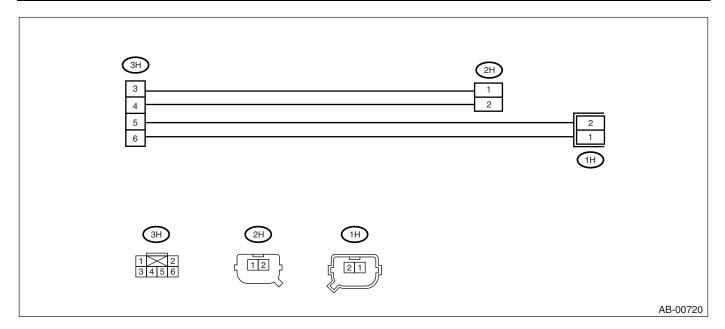
#### • TEST HARNESS D

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
3D 2D	98299AG060	TEST HARNESS D	Used when measuring voltage and resistance of front seat belt buckle switch.
1D TAMESTEEL ST98299AG060			



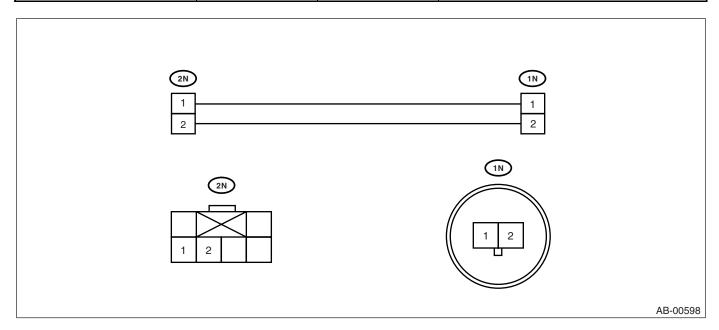
#### • TEST HARNESS H

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
1H 2H 3H	98299FA030	TEST HARNESS H	Used when measuring voltage, resistance of front sub sensor.
ST98299FA030			



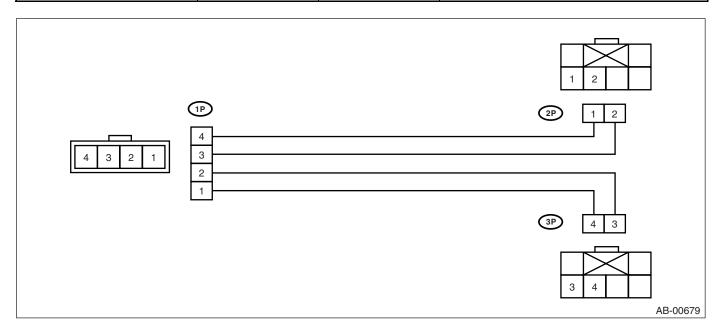
#### • TEST HARNESS N

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
2N IN	98299SA000	TEST HARNESS N	Used when measuring voltage, resistance of driver's airbag module and seat belt pretensioner.
ST98299SA000			



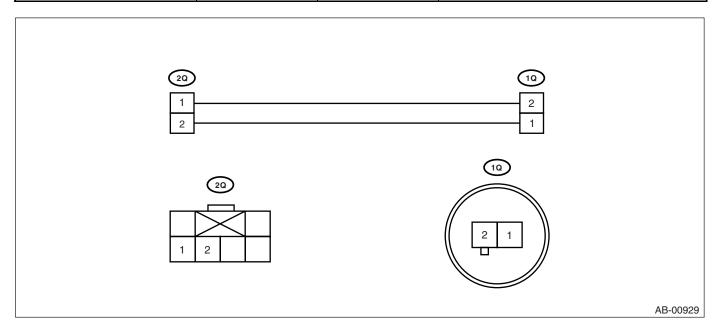
#### • TEST HARNESS P

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
1P 3P STD9200S A020	98299SA020	TEST HARNESS P	Used when measuring voltage and resistance of driver's airbag module harness and passenger's airbag module harness.
ST98299SA020			



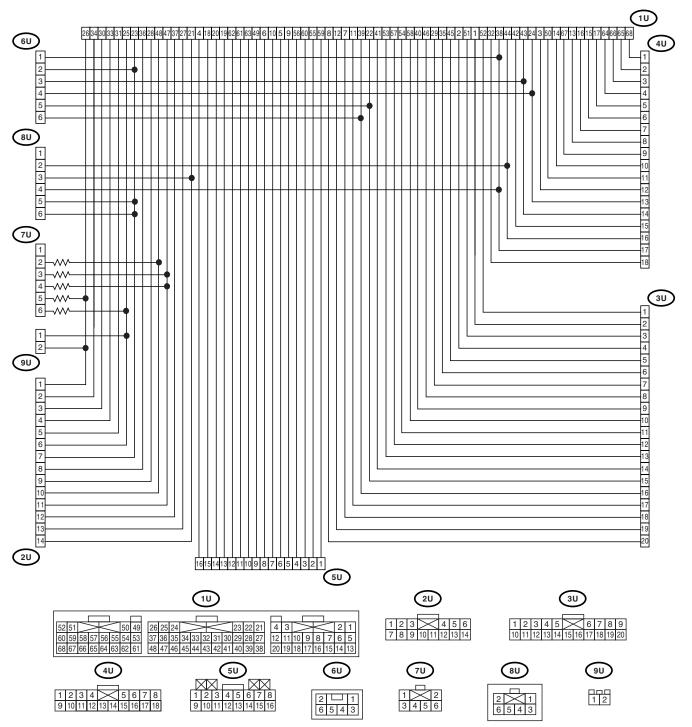
#### • TEST HARNESS Q

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ILLUSTRATION 20	98299SA040	TEST HARNESS Q	Used when measuring voltage and resistance of driver's airbag module.
ST98299SA040			



#### • TEST HARNESS U

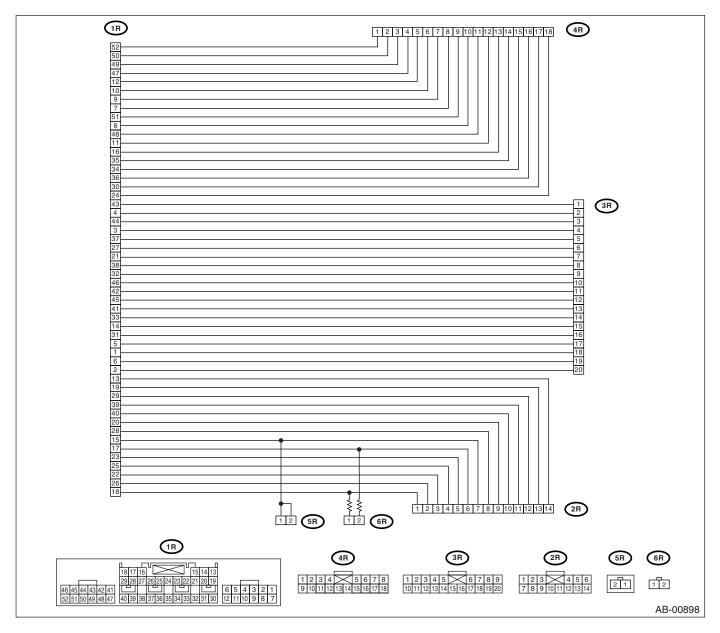
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
7U 6U 8U 9U 2U 1U	98299AG000	TEST HARNESS U	Used when measuring voltage and resistance of airbag control module.
ST98299AG000			



AB-00930

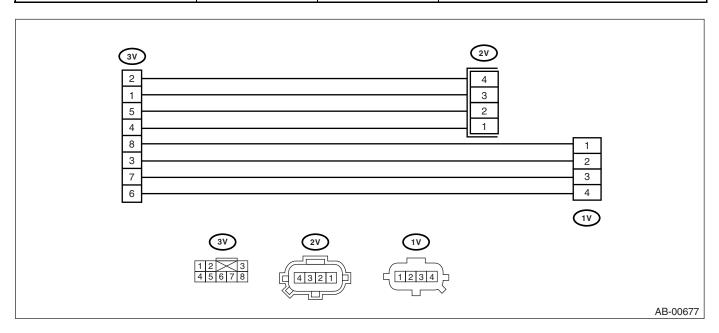
#### • TEST HARNESS R

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	98299FE030	TEST HARNESS R	Used when measuring voltage, resistance of airbag control module.
GR GR QR			
ST98299FE030			



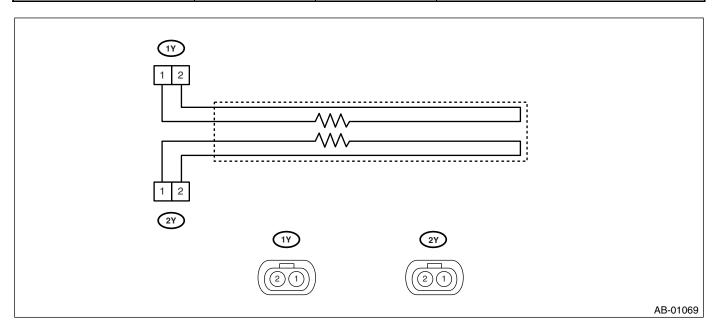
#### • TEST HARNESS V

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
1V 3V	98299AG010	TEST HARNESS V	Used when measuring voltage and resistance of side airbag sensor.
ST98299AG010			



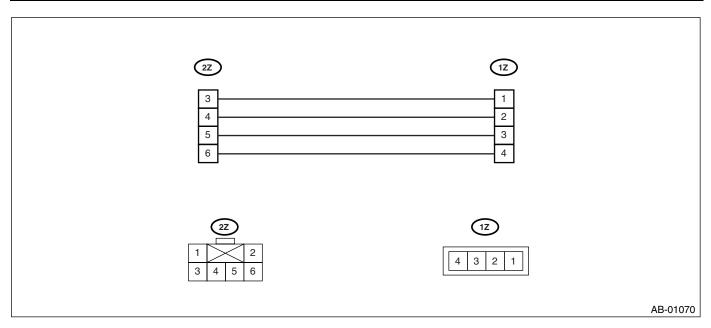
#### • TEST HARNESS Y

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
17)	98299AG040	TEST HARNESS Y	Used when diagnosing seat belt buckle switch and seat position sensor.
ST98299AG040			



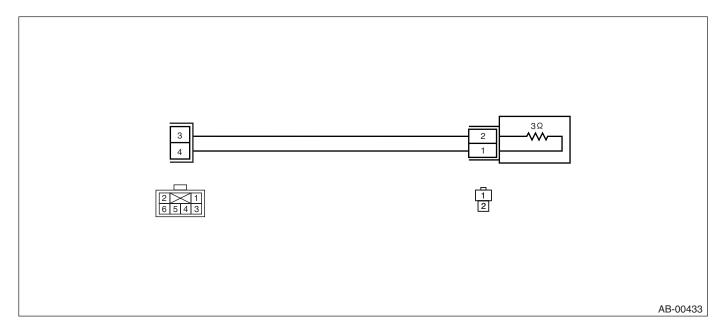
#### • TEST HARNESS Z

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
12	98299AG050	TEST HARNESS Z	Used when measuring voltage and resistance of occupant detection system.
ST98299AG050			



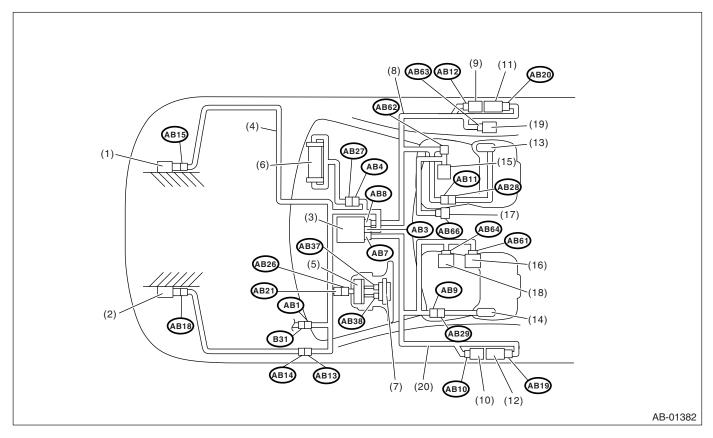
#### • AIRBAG RESISTOR

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	98299PA040	AIRBAG RESISTOR	Used in replacement of airbag module which resistance value is same as airbag module.
ST98299PA040			



### 4. Electrical Component Location

#### A: LOCATION



- (1) Front sub sensor (RH)
- (2) Front sub sensor (LH)
- (3) Airbag control module with built-in safety and electric sensor
- (4) Airbag main harness
- (5) Roll connector
- (6) Passenger side airbag module
- (7) Driver side airbag module

- (8) Side airbag harness (RH)
- (9) Side airbag sensor (RH)
- (10) Side airbag sensor (LH)
- (11) Seat belt pretensioner (RH)
- (12) Seat belt pretensioner (LH)(13) Side airbag module (RH)
- (14) 0:1 :1
- (14) Side airbag module (LH)
- (15) Occupant detection control module
- (16) Buckle switch (LH)
- (17) Buckle switch (RH)
- (18) Seat position sensor
- (19) Belt tension sensor
- (20) Side airbag harness (LH)

Connector No.	(AB1)	(AB3)	(AB4)	(AB7)	(AB8)	(AB9)	(AB10)	(AB11)	(AB12)	(AB13)	(AB14)	(AB15)
Pole	6	28	4	12	12	2	4	2	4	2	2	2
Connector color	Yellow											
Male/ Female	Male	Female	Male	Female								
Connector No.	(AB18)	(AB19)	(AB20)	(AB21)	(AB26)	(AB27)	(AB28)	(AB29)	(AB37)	(AB38)	(AB61)	(AB62)
Pole	2	2	2	4	4	4	2	2	2	2	2	6
Connector color	Yellow	Black	Black	Yellow	Yellow	Yellow	Yellow	Yellow	Orange	Black	Yellow	Gray
Male/ Female	Female	Female	Female	Female	Male	Male	Male	Male	Female	Female	Male	Female

# Electrical Component Location AIRBAG SYSTEM (DIAGNOSTICS)

Connector No.	(AB63)	(AB64)	(AB66)	_	_	_	_	_	_	_	_	_
Pole	3	2	2	_	_		_	_	_	_	_	_
Connector color	Brown	Yellow	Yellow	_	_	_	_	_	_	_	_	
Male/ Female	Female	Female	Female	_	_	_	_	_	_	_	_	

## 5. Airbag Control Module I/O Signal

### **A: WIRING DIAGRAM**

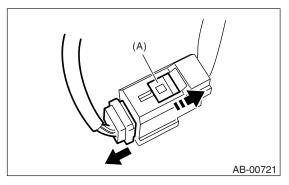
Refer to wiring diagrams in WI section. <Ref. to WI-96, WIRING DIAGRAM, Airbag System.>

## 6. Airbag Connector

#### A: PROCEDURE

## 1. BUCKLE SWITCH AND OCCUPANT DETECTION CONTROL MODULE

- 1) How to disconnect
  - (1) Move the slide lock (A) in the direction of the arrow.
  - (2) Disconnect the connector with the slide lock
  - (A) moved.

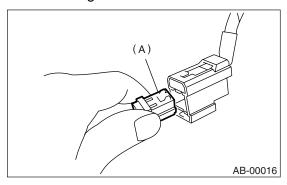


#### **CAUTION:**

When pulling the slide lock or disconnecting connector, be sure to hold the connector, not the harness.

2) How to connect

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

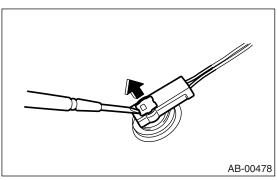


#### **CAUTION:**

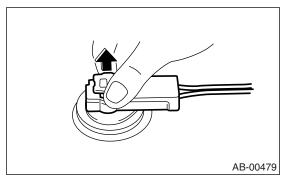
Be sure to insert the connector in until it is locked. Then pull it gently to make sure that it is locked.

#### 2. DRIVER'S AIRBAG MODULE AND PRE-TENSIONER

- 1) How to disconnect
  - (1) Using a flat tip screwdriver, pry the push lock upward to unlock.



(2) Pull the connector to disconnect from driver's side airbag module assembly or retractor assembly.

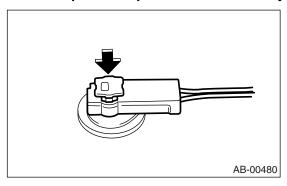


2) How to connect

Connect the connector in reverse order of disconnecting. At this time, be sure to insert the push lock in until connecting sound is heard.

#### **CAUTION:**

- Be sure to insert the connector in until it is locked. Then pull it gently to make sure that it is locked.
- Be sure to push the push lock in securely.

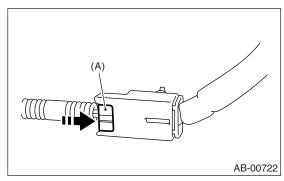


#### NOTE:

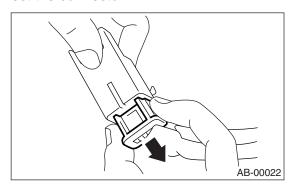
Connector can not be connected when the push lock is in lock position. To connect the connector, set the push lock to unlock position.

#### 3. DRIVER'S AIRBAG (BETWEEN AIRBAG MAIN HARNESS AND ROLL CONNECTOR) AND PASSENGER'S AIRBAG

- 1) How to disconnect
  - (1) Press in the slide lock (A) in the direction of arrow.



(2) With the slide lock (A) pressed in, disconnect the connector.



#### **CAUTION:**

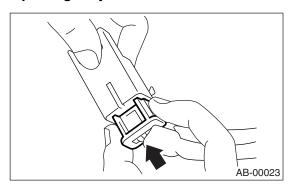
When pulling the slide lock or disconnecting connector, be sure to hold the connector, not the harness.

2) How to connect

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

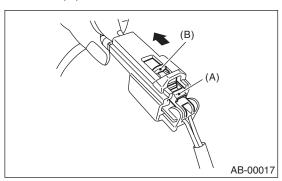
#### **CAUTION:**

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



#### 4. SIDE AIRBAG

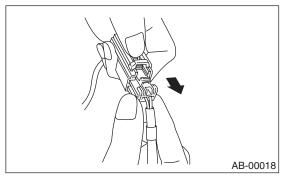
- 1) How to disconnect
  - (1) Push the lock arm (A).
  - (2) With the lock arm (A) pushed in, move the slide lock (B) in the direction of the arrow.



(3) With the slide lock moved, release the lock arm (back to its original position), and disconnect the connector.

#### **CAUTION:**

When pulling the slide lock or disconnecting connector, be sure to hold the connector, not the harness.



2) How to connect

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

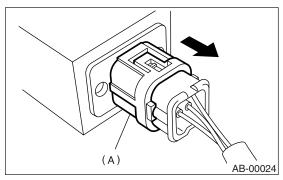
## 5. FRONT SUB-SENSOR, SIDE AIRBAG SENSOR, SEAT POSITION SENSOR LH

1) How to disconnect

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

#### **CAUTION:**

When pulling the slide lock or disconnecting connector, be sure to hold the connector, not the harness.

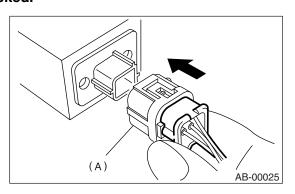


#### 2) How to connect

Holding the connector, 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 it gently to make sure that it is locked.

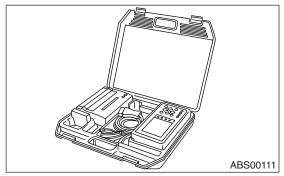


## 7. Subaru Select Monitor A: OPERATION

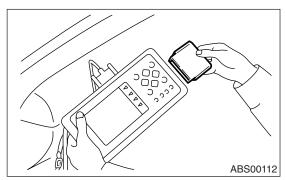
## 1. READ DIAGNOSTIC TROUBLE CODE (DTC)

When malfunction of airbag system occurs, the DTC stored in airbag control module will be read out

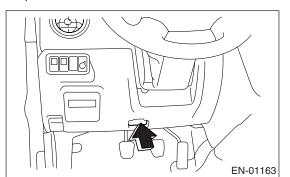
1) Prepare the Subaru Select Monitor kit. <Ref. to AB(diag)-8, SPECIAL TOOL, PREPARATION TOOL, General Description.>



- 2) Connect the diagnosis cable to Subaru Select Monitor.
- 3) Insert the cartridge into Subaru Select Monitor. <Ref. to AB(diag)-8, SPECIAL TOOL, PREPARATION TOOL, General Description.>



- 4) Connect the Subaru Select Monitor to data link connector.
  - (1) Data link connector is located in the lower portion of the instrument panel (on the driver's side).

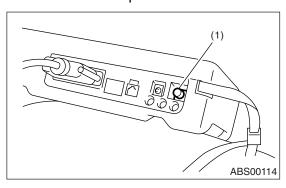


(2) Connect the diagnosis cable to data link connector.

#### **CAUTION:**

Do not connect the scan tools except for Subaru Select Monitor.

5) Turn the ignition switch to ON (engine OFF), and Subaru Select Monitor power switch to ON.



(1) Power switch

- 6) On the «Main Menu» display screen, select the {Each System Check} and press the [YES] key.
- 7) On the «System Selection Menu» display screen, select the {Airbag System} and press the [YES] key.
- 8) Press the [YES] key after the {AIRBAG SYSTEM} is displayed.
- 9) On the «Airbag System» display screen, select the {DTC Display} and press the [YES] key.

#### NOTE:

- For details concerning operation procedure, refer to the "SUBARU SELECT MONITOR OPERATION MANUAL".
- For details concerning DTCs, refer to the "List of Diagnostic Trouble Code (DTC)". <Ref. to AB(diag)-45, List of Diagnostic Trouble Code (DTC).>

#### 2. STATUS DATA DISPLAY

Check the operating condition of each sensor in the event of malfunction in seat belt buckle switch and seat position sensor, or when the seat belt buckle switch and seat position sensor has been replaced.

- 1) On the «Main Menu» display screen, select the {Each System Check} and press the [YES] key.
- 2) On the «System Selection Menu» display screen, select the {Airbag System} and press the [YES] key.
- 3) On the «Airbag System» display screen, select the {Status Data} and press the [YES] key. The support data is shown in the following table.

Item	Display
Seat position sensor LH	Front <sup>*1</sup> /Rear <sup>*2</sup> /Other <sup>*3</sup> /Unknown <sup>*3</sup> /— <sup>*5</sup>
Seat position sensor RH	*5
Seat belt buckle switch LH	Belted <sup>*6</sup> /Unbelted <sup>*7</sup> /Other <sup>*8</sup> /Unknown <sup>*4</sup> / <sup>*9</sup>
Seat belt buckle switch RH	Belted <sup>*6</sup> /Unbelted <sup>*7</sup> /Other <sup>*8</sup> /Unknown <sup>*4</sup> /— <sup>*9</sup>
Passenger's airbag firing status	ON <sup>*10</sup> /OFF <sup>*11</sup> /Unknown <sup>*4</sup>

- \*1: The seat position is forward.
- \*2: The seat position is rearward.
- \*3: It is displayed when data other than forward and backward positions of the seat, such as malfunction etc., is input.
- \*4: It is displayed at the initial status.
- \*5: Seat position sensor is not available.
- \*6. Seat belt is fastened.
- \*7. Seat belt is unfastened.
- \*8: It is displayed when data other than fastened or unfastened belts, such as malfunction etc., is input.
- \*9: Seat belt buckle switch is not available.
- \*10: Passenger's airbag is active.
- \*11: Passenger's airbag is not active.

#### NOTE:

For details concerning operation procedure, refer to the SUBARU SELECT MONITOR OPERATION MAN-UAL.

#### 3. CLEAR MEMORY MODE

Clear the DTC stored in the airbag control module after repairing malfunction in airbag system. If the memory is not cleared after repairing malfunction, repaired DTC will be read out again when a new malfunction occurs.)

- 1) On the «Main Menu» display screen, select the {Each System Check} and press the [YES] key.
- 2) On the «System Selection Menu» display screen, select the {Airbag System} and press the [YES] key.
- 3) On the «Airbag System» display screen, select the {Clear Memory} and press the [YES] key.
- 4) Press the [YES] key after the "Clear memory?" has been displayed.
- 5) When the "Done" is shown on the display screen, turn the Subaru Select Monitor switch to OFF.

#### NOTE:

For details concerning operation procedure, refer to the SUBARU SELECT MONITOR OPERATION MANUAL.

#### **B: INSPECTION**

#### 1. COMMUNICATION FOR INITIALIZING IMPOSSIBLE

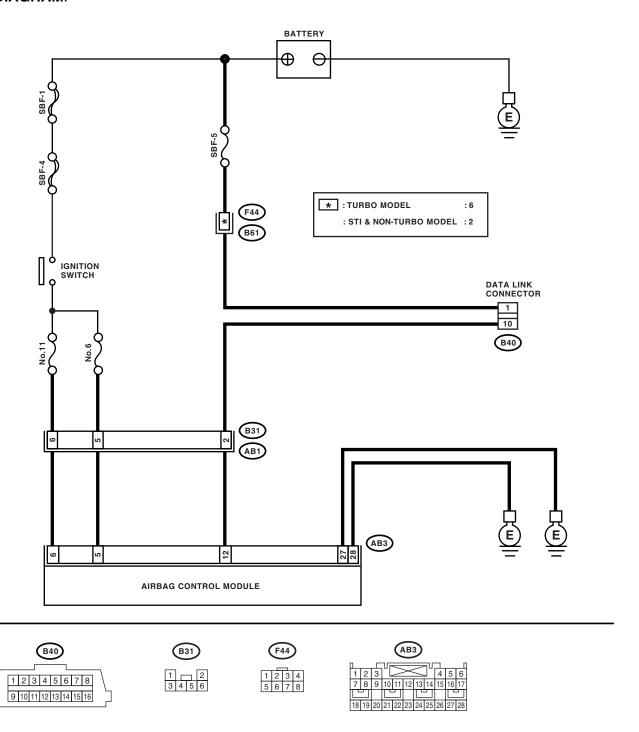
#### **DETECTING CONDITION:**

Defective harness connector

#### **TROUBLE SYMPTOM:**

Communication is impossible between airbag control module and Subaru Select Monitor.

#### **WIRING DIAGRAM:**



	Step	Check	Yes	No
1	CHECK IGNITION SWITCH.	Does the ignition switch turn to ON?	Go to step 2.	Turn the ignition switch to ON, and select airbag mode using Sub- aru Select Monitor.
2	CHECK BATTERY.  1) Turn the ignition switch to OFF.  2) Measure the battery voltage.	Is the voltage more than 11 V?	Go to step 3.	Charge or replace the battery.
3	CHECK BATTERY TERMINAL.	Is there poor contact at battery terminal?	Repair or tighten the battery terminal.	Go to step 4.
4	CHECK SUBARU SELECT MONITOR COM- MUNICATION.  1) Turn the ignition switch to ON.  2) Using Subaru Select Monitor, check whether communication to other system can be executed normally.	Is the name of system dis- played on Subaru Select Moni- tor?	Go to step 8.	Go to step 5.
5	CHECK SUBARU SELECT MONITOR COM- MUNICATION.  1) Turn the ignition switch to OFF.  2) Disconnect the airbag control module connector.  3) Turn the ignition switch to ON.  4) Check whether communication to other systems can be executed normally.	Is the name of system dis- played on Subaru Select Moni- tor?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 6.
6	CHECK HARNESS CONNECTOR BETWEEN EACH CONTROL MODULE AND DATA LINK CONNECTOR.  1) Turn the ignition switch to OFF. 2) Disconnect the airbag control module, ABSCM&H/U, ECM and TCM. 3) Measure the resistance between data link connector and chassis ground.  Connector & terminal  (B40) No. 10 — Chassis ground:	Is the resistance more than 1 $\mbox{M}\Omega ?$	Go to step 7.	Repair the har- ness and connec- tor between each control module and data link con- nector. (Airbag harness must be replaced with har- ness. Do not attempt to repair it.)
7	CHECK OUTPUT SIGNAL FOR AIRBAG CONTROL MODULE.  1) Turn the ignition switch to ON in step 7 condition.  2) Measure the voltage between data link connector and chassis ground.  Connector & terminal  (B40) No. 10 (+) — Chassis ground (-):	Is the voltage less than 1 V?	Go to step 8.	Repair the har- ness and connec- tor between each control module and data link con- nector. (Airbag harness must be replaced with har- ness. Do not attempt to repair it.)

	Step	Check	Yes	No
8	CHECK HARNESS BETWEEN AIRBAG CONTROL MODULE AND DATA LINK CON- NECTOR.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Disconnect the connector (AB3) from the airbag control module.  3) Connect the connector (1U) in test harness U to connector (AB3).  4) Measure the resistance between connector (4U) in test harness U and the data link con- nector.  Connector & terminal (4U) No. 18 — (B40) No. 10:	Is the resistance less than 10 $\Omega$ ?	Go to step 9.	Repair the har- ness between air- bag control module and data link connector. Or, replace the airbag main harness with body harness.
9	CHECK POWER SUPPLY CIRCUIT.  1) Turn the ignition switch to ON.  2) Measure the voltage between connector (2U) in test harness U and the chassis ground.  Connector & terminal  (2U) No. 1 (+) — Chassis ground (-):  (2U) No. 6 (+) — Chassis ground (-):	Is the voltage more than 10 V?	Go to step 10.	Repair the har- ness between air- bag control module and bat- tery. Or, replace the airbag main harness with body harness.
10	CHECK BETWEEN AIRBAG CONTROL MODULE AND CHASSIS GROUND.  1) Turn the ignition switch to OFF.  2) Measure the resistance between connector (2U) in test harness U and chassis ground.  Connector & terminal (2U) No. 10 — Chassis ground: (2U) No. 11 — Chassis ground:	Is the resistance less than 10 $\Omega$ ?	Go to step 11.	Repair the har- ness between air- bag control module and chas- sis ground. Or, replace the airbag main harness with body harness.
11	CHECK POOR CONTACT IN CONNECTOR.	Is there poor contact in control module power supply, ground line and data link connector?	Repair the con- nector. (Airbag system connector must be replaced with harness. Do not attempt to repair it.)	Replace the airbag control module only. <ref. ab-<br="" to="">18, REMOVAL, Airbag Control Module.&gt;</ref.>

#### 2. WITHOUT DTC

#### **DETECTING CONDITION:**

- Defective combination meter
- Open circuit of harness

#### TROUBLE SYMPTOM:

- · Airbag warning light does not go off.
- "NO TROUBLE CODE" displayed on the Subaru Select Monitor.

For detailed operation procedure, refer to «Airbag Warning Light Failure». <Ref. to AB(diag)-37, Airbag Warning Light Failure.>

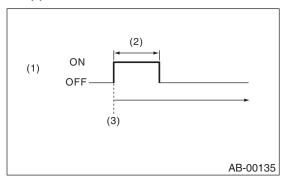
#### NOTE:

- For detailed operation procedure, refer to «Airbag Warning Light Failure». <Ref. to AB(diag)-37, Airbag Warning Light Failure.>
- When the airbag warning light is OFF and "NO TROUBLE CODE" is displayed on Subaru Select Monitor, the system is in normal condition.

## 8. Airbag Warning Light Illumination Pattern

#### **A: INSPECTION**

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



- (1) Airbag warning light
- (2) Approx. 6 seconds
- (3) Ignition switch ON

## Read Diagnostic Trouble Code (DTC) AIRBAG SYSTEM (DIAGNOSTICS)

## 9. Read Diagnostic Trouble Code (DTC)

### **A: OPERATION**

For details about reading of DTCs, refer to "Subaru Select Monitor". <Ref. to AB(diag)-28, Subaru Select Monitor.>

## **10.Inspection Mode**

#### A: PROCEDURE

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

## 11.Clear Memory Mode

### **A: OPERATION**

Clear the memory in the following steps after the malfunction is repaired.

Detail procedure for clearing DTCs, refer to "Subaru Select Monitor". <Ref. to AB(diag)-28, Subaru Select Monitor.>

# 12. Airbag Warning Light Failure

# A: AIRBAG WARNING LIGHT REMAINS ON

#### **DIAGNOSIS:**

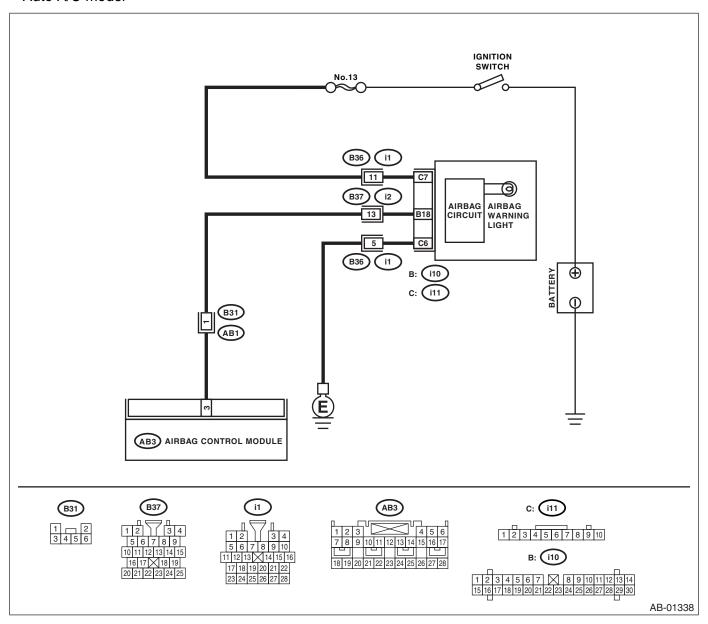
- Airbag warning light unit is faulty.
- Airbag control module to airbag warning light circuit is shorted or open.
- · Grounding circuit is faulty.
- · Airbag control module is faulty.
- (AB1) and (B31) are not connected properly.
- (AB3) is not connected properly to the airbag control module.

#### **CAUTION:**

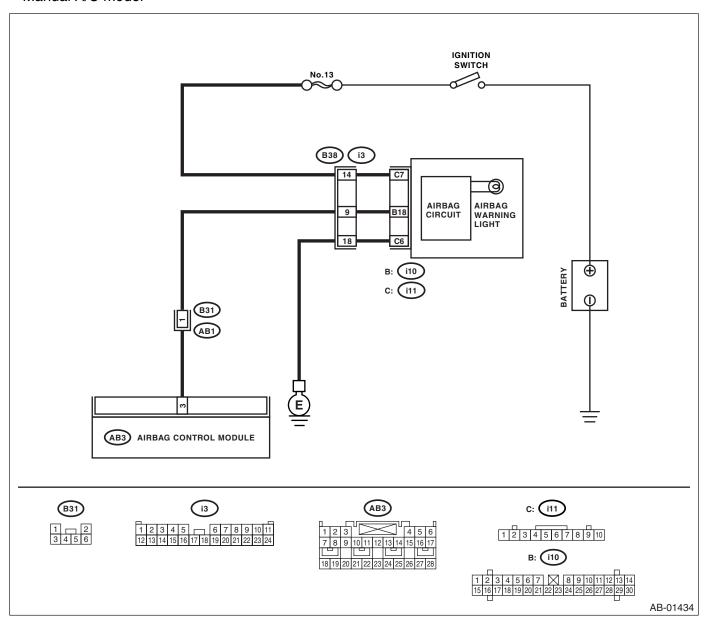
- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module, and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the airbag module connector of the driver and passenger seats for safety reasons.

## **WIRING DIAGRAM:**

Auto A/C model



# Manual A/C model



	Step	Check	Yes	No
1	READ DTC.	Is the DTC displayed?	Perform the diag-	Go to step 2.
'	Read the DTC. <ref. ab(diag)-28,="" read<="" th="" to=""><th>is the DTC displayed?</th><th>nosis according to</th><th>Go to step 2.</th></ref.>	is the DTC displayed?	nosis according to	Go to step 2.
	DIAGNOSTIC TROUBLE CODE (DTC),		DTC.	
	OPERATION, Subaru Select Monitor.>		D10.	
0		la thana many contact in acre	If the many contact	Co to otom 2
2	CHECK POOR CONTACT.  1) Turn the ignition switch to OFF, disconnect	Is there poor contact in con-	If the poor contact in connector is not	Go to step 3.
	the battery ground cable, and wait more than	nector (AB3)?	corrected, replace	
	20 seconds.		the airbag main	
	<ul><li>2) Check that firm contact between the airbag</li></ul>		harness with body	
	control module and the connector (AB3) is		harness, or	
	secured.		replace the airbag	
	Scourcu.		control module.	
			<ref. ab-18,<="" th="" to=""><th></th></ref.>	
			Airbag Control	
			Module.>	
3	CHECK AIRBAG MAIN HARNESS.	Does the airbag warning light	Go to step 4.	Go to step 5.
	Remove the instrument panel lower cover	go off?	G.5 15 515p 11	Gio to otop oi
	and disconnect the connectors (AB26) and	Ĭ		
	(AB21).			
	2) Remove the console side cover lower on			
	passenger side and disconnect the connectors			
	(AB27) and (AB4).			
	3) Disconnect the connector (AB3) from the			
	airbag control module, and connect the con-			
	nector (1R) in test harness R.			
	4) Connect the battery ground cable, and turn			
	the ignition switch to ON.			
	5) Connect the connectors (5R) and (6R) in			
	test harness R.			
	NOTE:			
	After problem has been eliminated, disconnect			
	the connectors (5R) and (6R).			
4	CHECK GROUND CIRCUIT.	Is the resistance less than 10		Repair the chas-
	1) Turn the ignition switch to OFF, disconnect	$\Omega$ ?	control module.	sis ground circuit.
	the battery ground cable, and wait more than		<ref. ab-18,<="" th="" to=""><th></th></ref.>	
	20 seconds.		Airbag Control	
	2) Disconnect the connector (AB3) from the		Module.>	
	airbag control module.			
	3) Connect the connector (1R) in test harness R to body harness connector (AB3).			
	<ul><li>4) Measure the resistance between connector</li></ul>			
	(2R) in test harness R and the chassis ground.			
	Connector & terminal			
	(2R) No. 10 — Chassis ground:			
	(2R) No. 11 — Chassis ground:			
5	CHECK AIRBAG MAIN HARNESS.	Is the resistance less than 10	Check the combi-	Go to step 6.
	1) Disconnect the connectors (5R) and (6R).	Ω?	nation meter.	
	Remove the combination meter.			
	3) Measure the resistance between connector			
	(i11) and (2R) in test harness R.			
	Connector & terminal			
	(2R) No. 7 — (i11) No. 8:	la Marana and Ali	Density the 1	0-1
6	CHECK POOR CONTACT IN CONNECTORS	Is the poor contact in connec-	Repair the body	Go to step 7.
	(AB1) AND (B31).	tors (AB1) and (B31)?	harness, or	
	1) Turn the ignition switch to OFF, disconnect		replace the airbag	
	the battery ground cable, and wait more than		main harness with	
	20 seconds.		body harness.	
	<ol><li>Confirm that firm contact between connectors (AB1) and (B31) is secured.</li></ol>			
	נטופ (חשון מווע (שפון) ופ פפנעופע.			

# Airbag Warning Light Failure

AIRBAG SYSTEM (DIAGNOSTICS)

Step	Check	Yes	No
7 CHECK AIRBAG MAIN HARNESS. Check the airbag main harness for faults.	main harness?	Replace the airbag main harness with body harness.	•

# **B: AIRBAG WARNING LIGHT REMAINS OFF**

## **DETECTING CONDITION:**

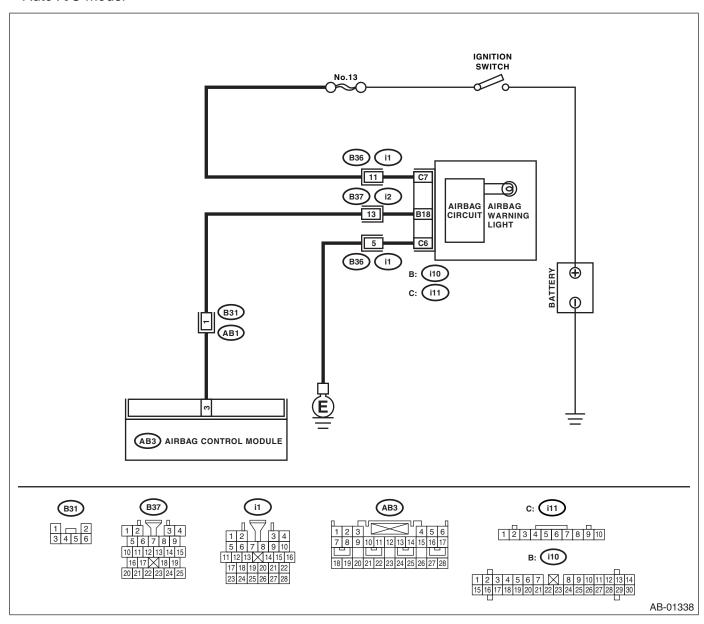
- Fuse No. 13 (in fuse box) is blown.
- Body harness circuit is open.
- · Airbag warning light is faulty.
- Airbag main harness is faulty.
- Airbag control module is faulty.

#### **CAUTION:**

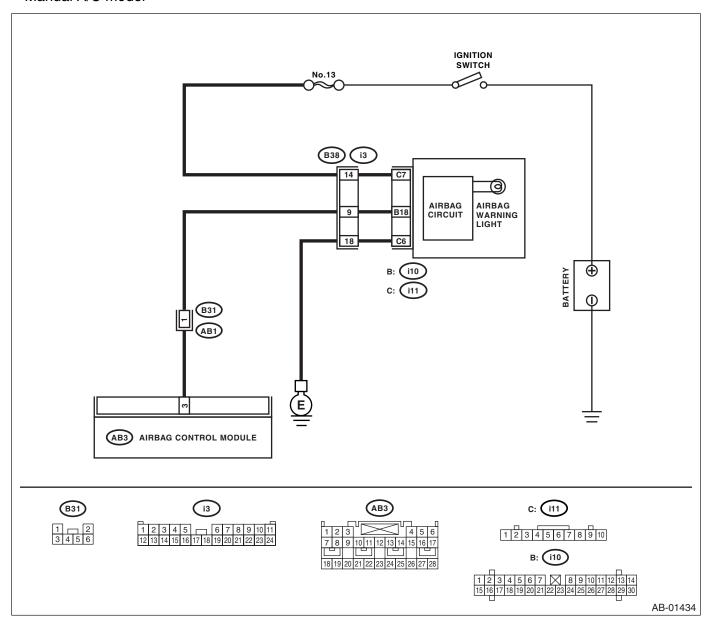
- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module, and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the airbag module connector of the driver and passenger seats for safety reasons.

#### WIRING DIAGRAM:

Auto A/C model



# Manual A/C model



	Step	Check	Yes	No
1	warning lights in the combination meter are turned on.	Do the warning lights other than airbag turn on?	Go to step 2.	Repair the power supply line to com- bination meter. <ref. idi-3,<br="" to="">Combination Meter System.&gt;</ref.>
2	CHECK DTC.  Read the DTC. <ref. (dtc),="" ab(diag)-28,="" code="" diagnostic="" monitor.="" operation,="" read="" select="" subaru="" to="" trouble=""></ref.>	Is the DTC displayed?	Perform the diagnosis according to DTC.	Go to step 3.
3	CHECK FUSE No. 13 (IN MAIN FUSE BOX). Remove the fuse No. 13 and perform visual inspection.	Is the fuse No. 13 (in main fuse box) blown out?	Replace the fuse No. 13. If fuse No. 13 is blown out again, go to step 3.	Go to step 4.
4	CHECK AIRBAG WARNING LIGHT CIRCUIT (IN COMBINATION METER).  1) Turn the ignition switch to 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 to ON.	Is the airbag warning light turned on?	Go to step 5.	Replace the combination meter printed circuit. <ref. combination="" idi-10,="" meter.="" to=""></ref.>
5	CHECK AIRBAG MAIN HARNESS.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Connect the connector (AB1) to (B31).  3) Disconnect the connector (AB3) from airbag control module. <ref. ab-18,="" airbag="" control="" module.="" to="">  4) Connect the battery ground cable, and turn the ignition switch to ON.</ref.>	Is the airbag warning light turned on?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Replace the airbag main harness with body harness.

# 13.List of Diagnostic Trouble Code (DTC)

# A: LIST

DTC	Display	Contents of diagnosis	Reference
11	Driver's Airbag fail- ure	<ul> <li>Airbag main harness circuit is open, shorted or shorted to ground.</li> <li>Airbag module harness (Driver) circuit is open, shorted or shorted to ground.</li> <li>Roll connector circuit is open, shorted or shorted to ground.</li> <li>Airbag control module is faulty.</li> <li>Driver's airbag module is faulty.</li> </ul>	<ref. ab(diag)-49,="" dtc<br="" to="">11 DRIVER'S AIRBAG FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
12	Passenger's Airbag failure	<ul> <li>Airbag main harness circuit is open, shorted or shorted to ground.</li> <li>Airbag module harness (Passenger) circuit is open, shorted or shorted to ground.</li> <li>Airbag control module is faulty.</li> <li>Passenger's airbag module is faulty.</li> </ul>	<ref. ab(diag)-53,="" dtc<br="" to="">12 PASSENGER'S AIR- BAG FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
15	Driver's Airbag fail- ure	<ul> <li>Airbag main harness circuit (Driver) is shorted to the power supply.</li> <li>Airbag module harness (Driver) is shorted to the power supply.</li> <li>Roll connector is shorted to the power supply.</li> <li>Airbag control module is faulty.</li> <li>Driver's airbag module is faulty.</li> </ul>	<ref. ab(diag)-56,="" dtc<br="" to="">15 DRIVER'S AIRBAG FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
16	Passenger's Airbag failure	<ul> <li>Airbag main harness circuit (Passenger) is shorted to the power supply.</li> <li>Airbag module harness (Passenger) is shorted to the power supply.</li> <li>Airbag control module is faulty.</li> <li>Passenger's airbag module is faulty.</li> </ul>	<ref. ab(diag)-59,="" dtc<br="" to="">16 PASSENGER'S AIR- BAG FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
21	Airbag ECU failure	Airbag control module is faulty.	<ref. ab(diag)-61,="" dtc<br="" to="">21 AIRBAG ECU FAIL- URE, Diagnostic Chart with Trouble Code.&gt;</ref.>
22	Front Airbag: Firing output	Front airbag module and seat belt pretensioner (LH/RH) are inflated.	<ref. ab(diag)-62,="" dtc<br="" to="">22 FRONT AIRBAG FIR- ING OUTPUT, Diagnostic Chart with Trouble Code.&gt;</ref.>
23	Connector to Airbag ECU failure	(AB3), (AB7) and (AB8) are not connected properly to airbag control module.	<ref. ab(diag)-63,="" dtc<br="" to="">23 CONNECTOR TO AIR- BAG ECU, Diagnostic Chart with Trouble Code.&gt;</ref.>
24	IG1 open	<ul> <li>Airbag control module is faulty.</li> <li>Airbag harness circuit is open.</li> <li>Fuse No. 11 (in joint box) is blown.</li> <li>Body harness circuit is open.</li> </ul>	<ref. ab(diag)-64,="" dtc<br="" to="">24 IG1 OPEN, Diagnostic Chart with Trouble Code.&gt;</ref.>
25	IG2 open	<ul> <li>Airbag control module is faulty.</li> <li>Airbag main harness circuit is open.</li> <li>Fuse No. 6 (in joint box) is blown.</li> <li>Body harness circuit is open.</li> </ul>	<ref. ab(diag)-66,="" dtc<br="" to="">25 IG2 OPEN, Diagnostic Chart with Trouble Code.&gt;</ref.>
26	Passenger's Airbag indicator failure	<ul> <li>Passenger's airbag indicator is faulty.</li> <li>Airbag control module is faulty.</li> <li>Airbag main harness circuit is open, shorted or shorted to ground.</li> <li>Open circuit of body harness.</li> </ul>	<ref. ab(diag)-68,="" dtc<br="" to="">26 PASSENGER'S AIR- BAG INDICATOR FAIL- URE, Diagnostic Chart with Trouble Code.&gt;</ref.>

DTC	Display	Contents of diagnosis	Reference
27	ODS Communication Error	<ul> <li>Communication error with occupant detection control module.</li> <li>Airbag rear harness circuit is open, shorted or shorted to ground and power supply.</li> <li>Occupant detection harness (seat harness) is faulty.</li> <li>Occupant detection system is faulty.</li> <li>Airbag control module is faulty.</li> </ul>	<ref. ab(diag)-71,="" dtc<br="" to="">27 ODS COMMUNICA- TION ERROR, Diagnostic Chart with Trouble Code.&gt;</ref.>
29	ODS Failure	<ul> <li>Load cell sensor is faulty.</li> <li>Occupant detection control module is faulty.</li> <li>Occupant detection harness is faulty.</li> <li>Fuse No. 6 (in joint box) is blown.</li> </ul>	For details concerning DTC 29, refer to "Occu- pant Detection System". <ref. (dtc).="" 29="" code="" diagnostic="" dtc="" failure,="" od(diag)-30,="" ods="" procedure="" to="" trouble="" with=""></ref.>
2A	ODS Calibration Error	The system calibration (Rezeroing) for occupant detection system is not completed successfully.	For details concerning DTC 2A, refer to "Occu- pant Detection System". <ref. (dtc).="" 2a="" calibra-="" code="" diagnos-="" diagnostic="" dtc="" error,="" od(diag)-27,="" ods="" procedure="" tic="" tion="" to="" trouble="" with=""></ref.>
2B	ODS System Wrong Parts	<ul> <li>Airbag control module is wrong parts.</li> <li>Occupant detection system is wrong parts.</li> <li>Occupant detection system is faulty.</li> </ul>	For details concerning DTC 2B, refer to "Occu- pant Detection System". <ref. (dtc).="" 2b="" code="" diag-="" diagnostic="" dtc="" nostic="" od(diag)-27,="" ods="" parts,="" procedure="" system="" to="" trouble="" with="" wrong=""></ref.>
2C	Belt Tension Sensor Failure	<ul> <li>Passenger's belt tension sensor malfunction</li> <li>Occupant detection system is faulty.</li> <li>Side airbag rear harness circuit is open or shorted.</li> <li>Occupant detection harness is faulty.</li> </ul>	For details concerning DTC 2C, refer to "Occupant Detection System". <ref. (dtc).="" 2c="" belt="" code="" diagnostic="" dtc="" failure,="" od(diag)-28,="" preten-="" procedure="" sioner="" to="" trouble="" with=""></ref.>
31	Front Sub Sensor RH failure	<ul> <li>Airbag main harness is open, shorted or shorted to power supply.</li> <li>Front sub sensor (RH) is faulty.</li> <li>Airbag control module is faulty.</li> </ul>	<ref. ab(diag)-74,="" dtc<br="" to="">31 FRONT SUB SENSOR RH FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
32	Front Sub Sensor LH failure	<ul> <li>Airbag main harness is open, shorted or shorted to power supply.</li> <li>Front sub-sensor (LH) is faulty.</li> <li>Airbag control module is faulty.</li> </ul>	<ref. ab(diag)-76,="" dtc<br="" to="">32 FRONT SUB SENSOR LH FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
33	Front Sub Sensor RH failure	Front sub sensor (RH) is faulty.	<ref. ab(diag)-78,="" dtc<br="" to="">33 FRONT SUB SENSOR RH FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
34	Front Sub Sensor LH failure	Front sub sensor (RH) is faulty.	<ref. ab(diag)-78,="" dtc<br="" to="">34 FRONT SUB SENSOR LH FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>

DTC	Display	Contents of diagnosis	Reference
36	Seat Position sensor LH failure	<ul> <li>Driver's seat position sensor is faulty.</li> <li>Airbag control module is faulty.</li> <li>Side airbag rear harness circuit is open, shorted or shorted to ground.</li> </ul>	<ref. ab(diag)-79,="" dtc<br="" to="">36 SEAT POSITION SEN- SOR LH FAILURE, Diag- nostic Chart with Trouble Code.&gt;</ref.>
37	Buckle Switch RH failure	<ul> <li>Passenger's buckle switch circuit is open, shorted or shorted to ground.</li> <li>Occupant detection system is faulty.</li> <li>Occupant detection harness is faulty.</li> </ul>	For details concerning DTC 37, refer to "Occu- pant Detection System". <ref. (dtc).="" 37="" buckle="" code="" diagnostic="" dtc="" failure,="" od(diag)-31,="" procedure="" rh="" switch="" to="" trouble="" with=""></ref.>
38	Buckle Switch LH failure	<ul> <li>Driver's buckle switch circuit is open, shorted or shorted to ground.</li> <li>Side airbag rear harness circuit is open, shorted or shorted to ground.</li> <li>Airbag control module is faulty.</li> </ul>	<ref. ab(diag)-81,="" dtc<br="" to="">38 BUCKLE SWITCH LH FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
41	Side Airbag RH fail- ure	<ul> <li>Side airbag harness is faulty.</li> <li>Side airbag module (RH) is faulty.</li> <li>Airbag control module is faulty.</li> </ul>	<ref. ab(diag)-83,="" dtc<br="" to="">41 SIDE AIRBAG RH FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
42	Side Airbag LH fail- ure	<ul> <li>Side airbag harness is faulty.</li> <li>Side airbag module (LH) is faulty.</li> <li>Airbag control module is faulty.</li> </ul>	<ref. ab(diag)-85,="" dtc<br="" to="">42 SIDE AIRBAG LH FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
45	Side Airbag RH fail- ure	<ul> <li>Side airbag harness is shorted to power supply.</li> <li>Side airbag module (RH) is faulty.</li> <li>Airbag control module is faulty.</li> </ul>	<ref. ab(diag)-87,="" dtc<br="" to="">45 SIDE AIRBAG RH FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
46	Side Airbag LH fail- ure	<ul> <li>Side airbag harness is shorted to power supply.</li> <li>Side airbag module (LH) is faulty.</li> <li>Airbag control module is faulty.</li> </ul>	<ref. ab(diag)-89,="" dtc<br="" to="">46 SIDE AIRBAG LH FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
51	Side Airbag Sensor RH failure	<ul> <li>Side airbag sensor (RH) is faulty.</li> <li>Side airbag harness is faulty.</li> <li>Airbag control module is faulty.</li> </ul>	<ref. ab(diag)-91,="" dtc<br="" to="">51 SIDE AIRBAG RH FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
52	Side Airbag Sensor LH failure	<ul> <li>Side airbag sensor (LH) is faulty.</li> <li>Side airbag harness is faulty.</li> <li>Airbag control module is faulty.</li> </ul>	<ref. ab(diag)-94,="" dtc<br="" to="">52 SIDE AIRBAG SEN- SOR LH FAILURE, Diag- nostic Chart with Trouble Code.&gt;</ref.>
53	Side Airbag Sensor RH failure	Side airbag sensor (RH) is faulty.	<ref. ab(diag)-96,="" dtc<br="" to="">53 SIDE AIRBAG RH FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
54	Side Airbag Sensor LH failure	Side airbag sensor (LH) is faulty.	<ref. ab(diag)-96,="" dtc<br="" to="">54 SIDE AIRBAG SEN- SOR LH FAILURE, Diag- nostic Chart with Trouble Code.&gt;</ref.>
55	Side/Curtain Airbag: Firing output	Side airbag module is operated.	<ref. ab(diag)-96,="" dtc<br="" to="">55 SIDE CURTAIN AIR- BAG FIRING OUTPUT, Diagnostic Chart with Trouble Code.&gt;</ref.>

# List of Diagnostic Trouble Code (DTC) AIRBAG SYSTEM (DIAGNOSTICS)

DTC	Display	Contents of diagnosis	Reference
61	Belt Pretensioner RH failure	<ul> <li>Seat belt pretensioner (RH) circuit is open, shorted or shorted to ground.</li> <li>Airbag control module is faulty.</li> <li>Pretensioner is faulty.</li> <li>Airbag harness is faulty.</li> </ul>	<ref. ab(diag)-97,="" dtc<br="" to="">61 BELT PRETEN- SIONER RH FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
62	Belt Pretensioner LH failure	<ul> <li>Seat belt pretensioner (LH) circuit is open, shorted or shorted to ground.</li> <li>Airbag control module is faulty.</li> <li>Pretensioner is faulty.</li> <li>Airbag harness is faulty.</li> </ul>	<ref. ab(diag)-99,="" dtc<br="" to="">62 BELT PRETEN- SIONER LH FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
65	Belt Pretensioner RH failure	<ul> <li>Seat belt pretensioner (RH) circuit is shorted to the power supply.</li> <li>Pretensioner is faulty.</li> <li>Airbag harness is faulty.</li> <li>Airbag control module is faulty.</li> </ul>	<pre><ref. 65="" ab(diag)-101,="" belt="" chart="" code.="" diagnostic="" dtc="" failure,="" preten-="" rh="" sioner="" to="" trouble="" with=""></ref.></pre>
66	Belt Pretensioner LH failure	<ul> <li>Seat belt pretensioner (LH) circuit is shorted to the power supply.</li> <li>Pretensioner is faulty.</li> <li>Airbag control module is faulty.</li> </ul>	<ref. ab(diag)-103,<br="" to="">DTC 66 BELT PRETEN- SIONER LH FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
71	Driver's Airbag fail- ure	<ul> <li>Airbag main harness circuit is open, shorted or shorted to ground.</li> <li>Airbag module harness (Driver) circuit is open, shorted or shorted to ground.</li> <li>Roll connector circuit is open, shorted or shorted to ground.</li> <li>Airbag control module is faulty.</li> <li>Driver's airbag module is faulty.</li> </ul>	<pre><ref. 71="" ab(diag)-105,="" air-="" bag="" chart="" code.="" diagnostic="" driver's="" dtc="" failure,="" to="" trouble="" with=""></ref.></pre>
72	Passenger's Airbag failure	<ul> <li>Airbag main harness is open, shorted or shorted to ground.</li> <li>Airbag module harness (Passenger) is open, shorted or shorted to ground.</li> <li>Airbag control module is faulty.</li> <li>Passenger's airbag module is faulty.</li> </ul>	<ref. ab(diag)-108,<br="" to="">DTC 72 PASSENGER'S AIRBAG FAILURE, Diag- nostic Chart with Trouble Code.&gt;</ref.>
75	Driver's Airbag fail- ure	<ul> <li>Airbag main harness circuit (Driver) is shorted to the power supply.</li> <li>Airbag module harness (Driver) is shorted to the power supply.</li> <li>Roll connector is shorted to the power supply.</li> <li>Airbag control module is faulty.</li> <li>Driver's airbag module is faulty.</li> </ul>	<pre><ref. 75="" ab(diag)-111,="" air-="" bag="" chart="" code.="" diagnostic="" driver's="" dtc="" failure,="" to="" trouble="" with=""></ref.></pre>
76	Passenger's Airbag failure	<ul> <li>Airbag main harness (Passenger) is shorted to power supply.</li> <li>Airbag module harness (Passenger) is shorted to power supply.</li> <li>Airbag control module is faulty.</li> <li>Passenger's airbag module is faulty.</li> </ul>	<ref. ab(diag)-114,<br="" to="">DTC 76 PASSENGER'S AIRBAG FAILURE, Diag- nostic Chart with Trouble Code.&gt;</ref.>

# **Diagnostic Chart with Trouble Code**

AIRBAG SYSTEM (DIAGNOSTICS)

# 14. Diagnostic Chart with Trouble Code

## A: DTC 11 DRIVER'S AIRBAG FAILURE

#### **DTC DETECTING CONDITION:**

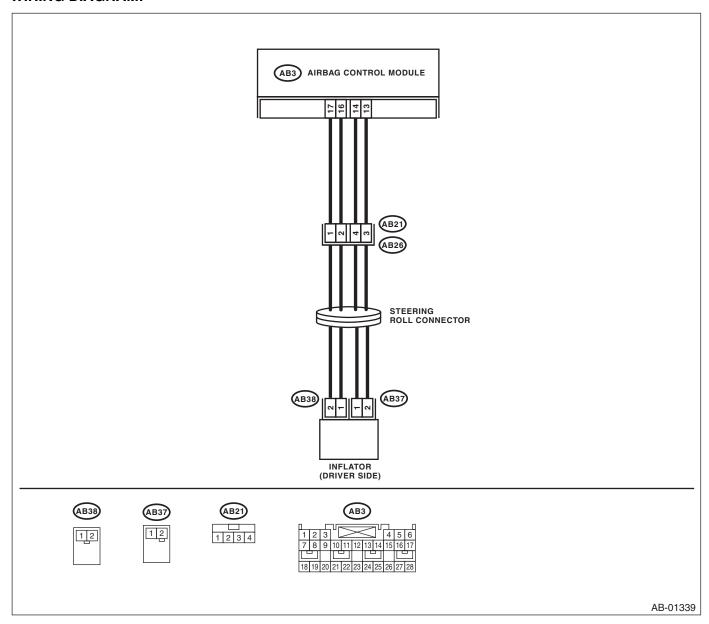
- Airbag main harness circuit is open, shorted or shorted to ground.
- Airbag module harness (Driver) circuit is open, shorted or shorted to ground.
- Roll connector circuit is open, shorted or shorted to ground.
- Driver's airbag module is faulty.
- · Airbag control module is faulty.

#### **CAUTION:**

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module, and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the driver's airbag module and passenger's airbag module connectors for safety reasons.

#### NOTE:

Prior to diagnosis, prepare two airbag resistors (98299PA040).



	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNEC-	Is there poor contact?	Replace the airbag	Go to step 2.
	TORS. Check the connector between airbag control		main harness.	
	module and driver's airbag module for poor			
	contact.			
2	CHECK DRIVER'S AIRBAG MODULE.	Does the airbag warning light	Replace the	Go to step 3.
	Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than	illuminate for 6 seconds then go off?	driver's airbag module. <ref. th="" to<=""><th></th></ref.>	
	20 seconds.	I go on :	AB-14, Driver's	
	2) Remove the driver's airbag module.		Airbag Module.>	
	3) Connect the connector (1N) in test harness			
	N to (AB38). 4) Connect the airbag resistor to the connec-			
	tor (2N) in test harness N.			
	5) Connect the connector (1Q) in test harness			
	Q to connector (AB37).			
	<ol> <li>Connect the airbag resistor to connector (2Q) in test harness Q.</li> </ol>			
	7) Connect the battery ground cable, and turn			
	the ignition switch to ON.			
3	CHECK ROLL CONNECTOR.	Does the airbag warning light	Replace the roll	Go to step 4.
	1) Turn the ignition switch to OFF, disconnect	illuminate for 6 seconds then	connector. <ref. th="" to<=""><th></th></ref.>	
	the battery ground cable, and wait more than 20 seconds.	go off?	AB-20, Roll Con- nector.>	
	Disconnect the test harness N from the		110010112	
	connector (AB38).			
	3) Disconnect the test harness Q from the			
	connector (AB37). 4) Remove the instrument panel lower cover			
	and disconnect the connector (AB26) from			
	(AB21).			
	5) Connect the connector (1P) in test harness			
	P to connector (AB21). 6) Connect the airbag resistor to connectors			
	(2P) and (3P) in test harness P.			
	7) Connect the battery ground cable, and turn			
	the ignition switch to ON.	La dia maniatana ang dia manada	0 - 44 - 5	Danie a de a side a c
4	CHECK AIRBAG MAIN HARNESS (DRIV- ER'S AIRBAG HARNESS).	Is the resistance more than 10 $\Omega$ ?	Go to step <b>5.</b>	Replace the airbag main harness with
	Turn the ignition switch to OFF, disconnect			body harness.
	the battery ground cable, and wait more than			-
	20 seconds.			
	<ol> <li>Disconnect the airbag resistor from con- nectors (2P) and (3P) in test harness P.</li> </ol>			
	3) Remove the instrument panel side cover on			
	passenger side, and disconnect the connec-			
	tors (AB4) and (AB27) from passenger's airbag module.			
	4) Disconnect the connector (AB3) from the			
	airbag control module, and connect the con-			
	nector (1R) in test harness R.			
	5) Measure the resistance between connector (2R) in test harness R and connectors (2P)			
	and (3P) in test harness P.			
	Connector & terminal			
	(2R) No. 2 — (2P) No. 1:			
	(2R) No. 12 — (3P) No. 4:			
	(2R) No. 4 — (2P) No. 2: (2R) No. 8 — (3P) No. 3:			

# Diagnostic Chart with Trouble Code AIRBAG SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
5	CHECK AIRBAG MAIN HARNESS (DRIVER'S AIRBAG HARNESS).  Measure the resistance of the connector (2R) terminals in test harness R.  Connector & terminal  (2R) No. 2 — (2R) No. 4:  (2R) No. 4 — Chassis ground:  (2R) No. 2 — Chassis ground:  (2R) No. 8 — (2R) No. 12:  (2R) No. 8 — Chassis ground:  (2R) No. 12 — Chassis ground:  (2R) No. 12 — Chassis ground:  (2R) No. 2 — (2R) No. 8:  (2R) No. 2 — (2R) No. 12:  (2R) No. 4 — (2R) No. 8:  (2R) No. 4 — (2R) No. 12:	Is the resistance more than 1 MΩ?	Go to step 6.	Replace the airbag main harness with body harness.
6	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors. 2) Erase the memory. 3) Perform the inspection mode. 4) Read out the DTC.	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 7.
7	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou- ble Code (DTC), check the DTC. <ref. ab(diag)-<br="" to="">45, List of Diag- nostic Trouble Code (DTC).&gt;</ref.>	Finish the diagnosis.

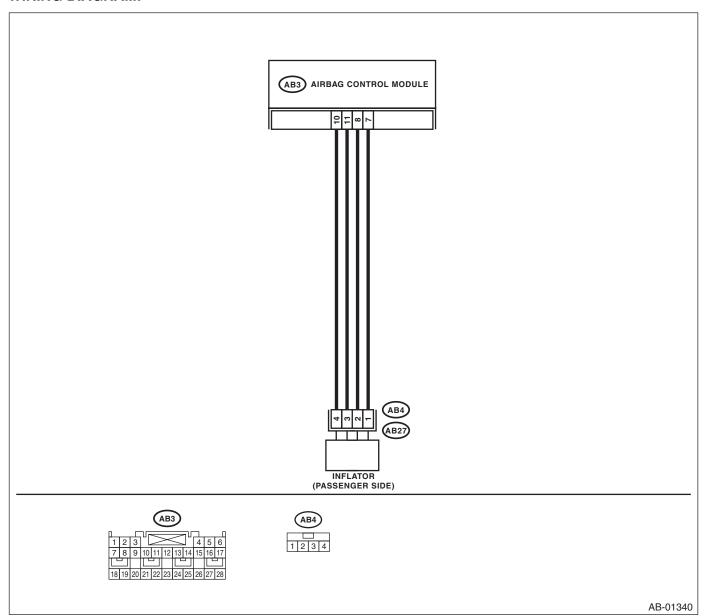
# **B: DTC 12 PASSENGER'S AIRBAG FAILURE**

## **DTC DETECTING CONDITION:**

- Airbag main harness circuit is open, shorted or shorted to ground.
- Airbag module harness (Passenger) circuit is open, shorted or shorted to ground.
- · Passenger's airbag module is faulty.
- · Airbag control module is faulty.

#### **CAUTION:**

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module, and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the airbag module connector of the driver and passenger seats for safety reasons.



	04	Observe	V	N-
<u> </u>	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNEC-	Is there poor contact?	Replace the airbag	Go to step 2.
	TORS.		main harness.	
	Check the connector between airbag control			
	module and passenger's airbag module for poor contact.			
2		Door the cirbon warning light	Danlage the nee	Co to oton 2
2	CHECK PASSENGER'S AIRBAG MODULE.  1) Turn the ignition switch to OFF, disconnect	Does the airbag warning light illuminates for 6 seconds then	Replace the pas- senger's airbag	Go to step 3.
	the battery ground cable, and wait more than	go off?	module. <ref. th="" to<=""><th></th></ref.>	
	20 seconds.	90 011.	AB-15, Passen-	
	2) Remove the instrument panel side cover of		ger's Airbag Mod-	
	passenger's side.		ule.>	
	3) Disconnect the connector (AB27) from			
	(AB4).			
	4) Connect the connector (1P) in test harness			
	P to connector (AB4).			
	5) Connect the airbag resistor to connectors			
	(2P) and (3P) in test harness P.			
	6) Connect the battery ground cable, and turn			
2	the ignition switch to ON.	lo the registeres less than 10	Co to oto - 4	Donlogo the selection
3	CHECK AIRBAG MAIN HARNESS (PASSEN- GER'S AIRBAG HARNESS).	Is the resistance less than 10 $\Omega$ ?	Go to step 4.	Replace the airbag main harness with
	Turn the ignition switch to OFF, disconnect	22:		body harness.
	the battery ground cable, and wait more than			body Harricoo.
	20 seconds.			
	2) Disconnect the airbag resistor from con-			
	nectors (2P) and (3P) in test harness P.			
	3) Remove the instrument panel lower cover,			
	and disconnect the connector (AB26) from			
	(AB21).			
	4) Disconnect the connector (AB3) from the			
	airbag control module, and connect the connector (1R) in test harness R.			
	5) Measure the resistance between connector			
	(2R) in test harness R and connectors (2P)			
	and (3P) in test harness P.			
	Connector & terminal			
	(2R) No. 3 — (2P) No. 2:			
	(2R) No. 5 — (2P) No. 1:			
	(2R) No. 9 — (3P) No. 3:			
	(2R) No. 13 — (3P) No. 4:			
4	CHECK AIRBAG MAIN HARNESS (PASSEN-		Go to step 5.	Replace the airbag
	GER'S AIRBAG HARNESS).	ΜΩ?		main harness with
	Measure the resistance between connector (2R) terminals in test harness R, and between			body harness.
	connector (2R) and chassis ground.			
	Connector & terminal			
	(2R) No. 3 — (2R) No. 5:			
	(2R) No. 3 — Chassis ground:			
	(2R) No. 5 — Chassis ground:			
	(2R) No. 9 — (2R) No. 13:			
	(2R) No. 9— Chassis ground:			
	(2R) No. 13 — Chassis ground:			
	(2R) No. 3 — (2R) No. 9:			
	(2R) No. 3 — (2R) No. 13:			
	(2R) No. 5 — (2R) No. 9:			
	(2R) No. 5 — (2R) No. 13:			

# Diagnostic Chart with Trouble Code AIRBAG SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
5	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors.  2) Erase the memory.  3) Perform the inspection mode.  4) Read out the DTC.	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 6.
6	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou- ble Code (DTC), check the DTC. <ref. ab(diag)-<br="" to="">45, List of Diag- nostic Trouble Code (DTC).&gt;</ref.>	Finish the diagnosis.

# C: DTC 15 DRIVER'S AIRBAG FAILURE

#### **DTC DETECTING CONDITION:**

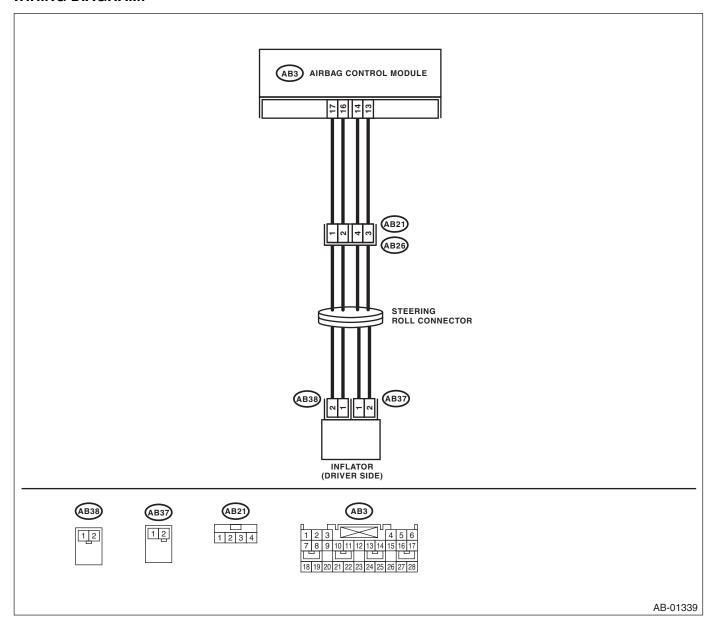
- Airbag main harness circuit (Driver) is shorted to the power supply.
- Airbag module harness (Driver) is shorted to the power supply.
- Roll connector is shorted to the power supply.
- Driver's airbag module is faulty.
- · Airbag control module is faulty.

#### **CAUTION:**

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module, and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the driver's airbag module and passenger's airbag module connectors for safety reasons.

#### NOTE

Prior to diagnosis, prepare two airbag resistors (98299PA040).



	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNEC-	Is there poor contact?	Replace the airbag	Go to step 2.
	TORS.		main harness.	
	Check the connector between airbag control			
	module and driver's airbag module for poor			
	contact.		D 1 "	
2	CHECK DRIVER'S AIRBAG MODULE.	Does the airbag warning light	Replace the	Go to step 3.
	<ol> <li>Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than</li> </ol>	illuminate for 6 seconds then go off?	driver's airbag module. <ref. td="" to<=""><td></td></ref.>	
	20 seconds.	go on :	AB-14, Driver's	
	<ul><li>2) Remove the driver's airbag module.</li></ul>		Airbag Module.>	
	3) Connect the connector (AB38) to connector		, ag aa.a.	
	(1N) in test harness N.			
	4) Connect the airbag resistor to the connec-			
	tor (2N) in test harness N.			
	5) Connect the connector (1Q) in test harness			
	Q to connector (AB37).			
	6) Connect the airbag resistor to connector			
	<ul><li>(2Q) in test harness Q.</li><li>7) Connect the battery ground cable, and turn</li></ul>			
	the ignition switch to ON.			
3	CHECK ROLL CONNECTOR.	Does the airbag warning light	Replace the roll	Go to step 4.
٦	Turn the ignition switch to OFF, disconnect	illuminate for 6 seconds then	connector. <ref. td="" to<=""><td>ωυ ιυ διεμ <b>4.</b></td></ref.>	ωυ ιυ διεμ <b>4.</b>
	the battery ground cable, and wait more than	go off?	AB-20, Roll Con-	
	20 seconds.	3	nector.>	
	2) Disconnect the test harness N from con-			
	nector (AB38).			
	<ol><li>Disconnect the test harness Q from con-</li></ol>			
	nector (AB37).			
	4) Remove the instrument panel lower cover,			
	and disconnect the connector (AB21) from (AB26).			
	5) Connect the connector (1P) in test harness			
	P to connector (AB21).			
	6) Connect the airbag resistor to connectors			
	(2P) and (3P) in test harness P.			
	7) Connect the battery ground cable, and turn			
	the ignition switch to ON.			
4	CHECK AIRBAG MAIN HARNESS (DRIV-	Is the voltage less than 1 V?	Go to step 5.	Replace the airbag
	ER'S AIRBAG HARNESS).			main harness with
	1) Turn the ignition switch to OFF, disconnect			body harness.
	the battery ground cable, and wait more than 20 seconds.			
	<ul><li>2) Disconnect the airbag resistor from con-</li></ul>			
	nectors (2P) and (3P) in test harness P.			
	3) Remove the instrument panel side cover on			
	passenger side, and disconnect the connec-			
	tors (AB27) and (AB4).			
	4) Disconnect the connector (AB3) from the			
	airbag control module, and connect the con-			
	nector (1R) in test harness R.			
	5) Connect the battery ground cable, and turn			
	the ignition switch to ON. (engine OFF) 6) Measure the voltage between connector			
	(2R) in test harness R and the chassis ground.			
	Connector & terminal			
	(2R) No. 4 (+) — Chassis ground (-):			
	(2R) No. 2 (+) — Chassis ground (−):			
	(2R) No. 8 (+) — Chassis ground (-):			
	(2R) No. 12 (+) — Chassis ground (−):			

# Diagnostic Chart with Trouble Code AIRBAG SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
5	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors.  2) Erase the memory.  3) Perform the inspection mode.  4) Read out the DTC.	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 6.
6	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou- ble Code (DTC), check the DTC. <ref. ab(diag)-<br="" to="">45, List of Diag- nostic Trouble Code (DTC).&gt;</ref.>	Finish the diagnosis.

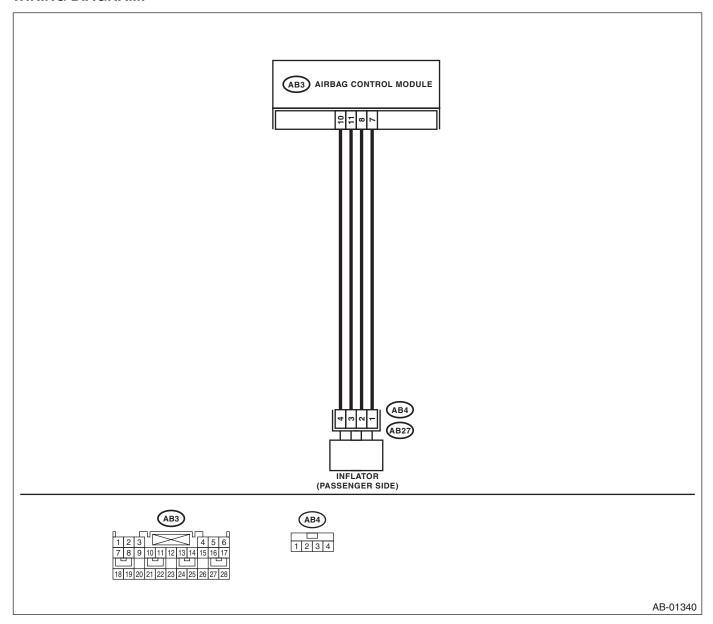
## D: DTC 16 PASSENGER'S AIRBAG FAILURE

#### DTC DETECTING CONDITION:

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

#### **CAUTION:**

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module, and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the airbag module connector of the driver and passenger seats for safety reasons.



	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNECTORS.  Check the connector between airbag control module and passenger's airbag module for	Is there poor contact?	Replace the airbag main harness with body harness.	Go to step 2.
2	poor contact.  CHECK PASSENGER'S AIRBAG MODULE.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Remove the instrument panel side cover of passenger's side.  3) Disconnect the connector (AB27) from (AB4)  4) Connect the connector (1P) in test harness P to connector (AB4).	Does the airbag warning light illuminates for 6 seconds then go off?	Replace the pas- senger's airbag module. <ref. to<br="">AB-15, Passen- ger's Airbag Mod- ule.&gt;</ref.>	Go to step 3.
	<ul><li>5) Connect the airbag resistor to connectors (2P) and (3P) in test harness P.</li><li>6) Connect the battery ground cable, and turn the ignition switch to ON.</li></ul>			
3	CHECK AIRBAG MAIN HARNESS (PASSENGER'S AIRBAG HARNESS).  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Disconnect the airbag resistor from connectors (2P) and (3P) in test harness P.  3) Remove the instrument panel lower cover and disconnect the connector (AB26) from (AB21).  4) Disconnect the connector (AB3) from the airbag control module, and connect the connector (1R) in test harness R.  5) Measure the voltage between connector (2R) in test harness R and chassis ground.  Connector & terminal  (2R) No. 3 (+) — Chassis ground (-):  (2R) No. 9 (+) — Chassis ground (-):  (2R) No. 13 (+) — Chassis ground (-):		Go to step 4.	Replace the airbag main harness with body harness.
4	<ol> <li>CHECK AIRBAG CONTROL MODULE.</li> <li>Connect all connectors.</li> <li>Erase the memory.</li> <li>Perform the inspection mode.</li> <li>Read out the DTC.</li> </ol>	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 5.
5	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou- ble Code (DTC), check the DTC. <ref. ab(diag)-<br="" to="">45, List of Diag- nostic Trouble Code (DTC).&gt;</ref.>	Finish the diagnosis.

# **Diagnostic Chart with Trouble Code**

AIRBAG SYSTEM (DIAGNOSTICS)

# E: DTC 21 AIRBAG ECU FAILURE

#### DTC DETECTING CONDITION:

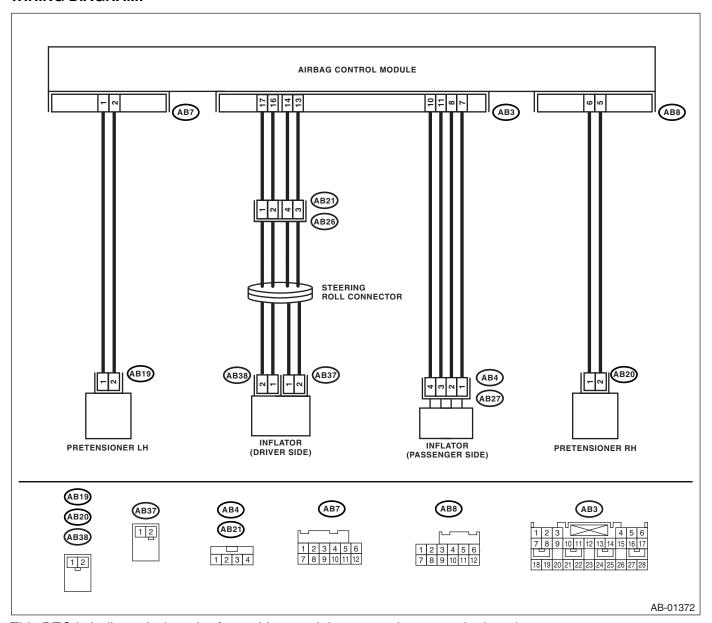
Airbag control module is faulty.

#### **CAUTION:**

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

Step	Check	Yes	No
1 CHECK IF DTC 21 IS INDICATED. 1) Read the DTC. <ref. (dtc),="" ab(diag)-28,="" code="" diagnostic="" monitor.="" operation,="" read="" select="" subaru="" to="" trouble=""> 2) Perform the clear memory mode. <ref. ab(diag)-36,="" clear="" memory="" mode.="" to=""> 3) Read the DTC again.</ref.></ref.>		Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	A temporary poor contact.

# F: DTC 22 FRONT AIRBAG FIRING OUTPUT WIRING DIAGRAM:



This DTC is indicated when the front airbag and the pretensioner are deployed. Once this DTC 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-14, Driver's Airbag Module.>
- Passenger's airbag module <Ref. to AB-15, Passenger's Airbag Module.>
- Front sub sensor of both sides <Ref. to AB-21, Front Sub Sensor.>
- Front seat belt outer with pretensioner of both sides <Ref. to SB-10, Front Seat Belt.>

# **G: DTC 23 CONNECTOR TO AIRBAG ECU**

## DTC DETECTING CONDITION:

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

## **CAUTION:**

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

	Step	Check	Yes	No
1	CHECK POOR CONTACT IN CONNECTORS (AB3), (AB7) AND (AB8).  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Disconnect the connectors (AB3), (AB7) and (AB8) from the airbag control module. <ref. ab-18,="" airbag="" control="" module.="" to=""></ref.>	Is there rust or damage appear on the harness connector and the control module connector?	Go to step 2.	Replace the airbag control module. <ref. ab-18,="" airbag="" control="" module.="" to="">Replace the body harness with airbag main harness. Replace the body harness with side airbag harness.</ref.>
2	<ul> <li>CHECK POOR CONTACT IN CONNECTORS (AB3), (AB7) AND (AB8).</li> <li>1) Ensure that connectors are firmly reconnected.</li> <li>2) Connect the battery ground cable, and turn the ignition switch to ON.</li> </ul>	Does the airbag warning light illuminate for 6 seconds then go off?	Go to step 3.	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>
3	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors.  2) Erase the memory.  3) Perform the inspection mode.  4) Read out the DTC.	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 4.
4	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou- ble Code (DTC), check the DTC. <ref. ab(diag)-<br="" to="">45, List of Diag- nostic Trouble Code (DTC).&gt;</ref.>	Finish the diagnosis.

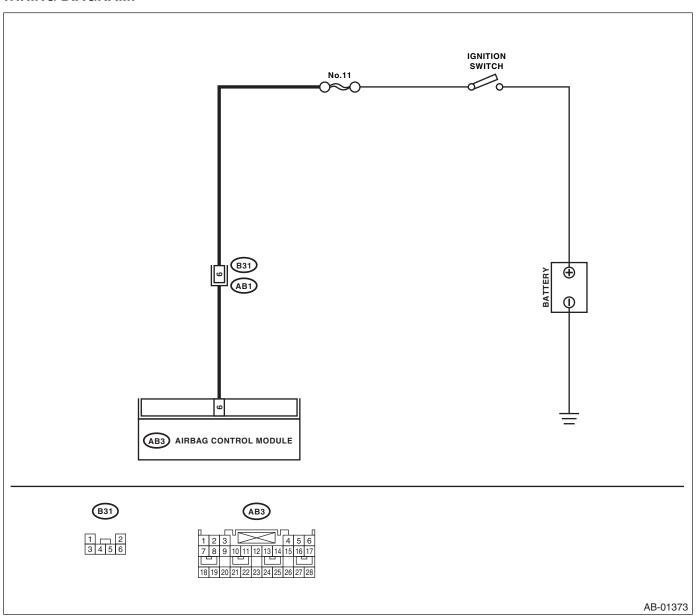
### H: DTC 24 IG1 OPEN

## **DTC DETECTING CONDITION:**

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

#### **CAUTION:**

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module, and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the diver's airbag module passenger's airbag module connectors for safety reasons.



# Diagnostic Chart with Trouble Code AIRBAG SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK AIRBAG CONTROL MODULE.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Disconnect the connector (AB3) from the airbag control module.  3) Connect the connector (1R) in test harness R to connector (AB3).  4) Connect the battery ground cable, and turn the ignition switch to ON.  5) Measure the voltage between connector (2R) in test harness R and chassis ground.  Connector & terminal (2R) No. 1 (+) — Chassis ground (-):	Is the voltage more than 10 V?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 2.
2	CHECK FUSE No. 11 (IN JOINT BOX).  1) Confirm that the ignition switch is turned OFF.  2) Remove the fuse No. 11 (in joint box) and perform visual inspection.	Is the fuse No. 11 blown out?	Replace the fuse No. 11. If fuse No. 11 is blown out again, repair the body harness. Replace the airbag main harness with body harness.	Go to step 3.
3	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors.  2) Erase the memory.  3) Perform the inspection mode.  4) Read out the DTC.	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 4.
4	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou- ble Code (DTC), check the DTC. <ref. ab(diag)-<br="" to="">45, List of Diag- nostic Trouble Code (DTC).&gt;</ref.>	Finish the diagnosis.

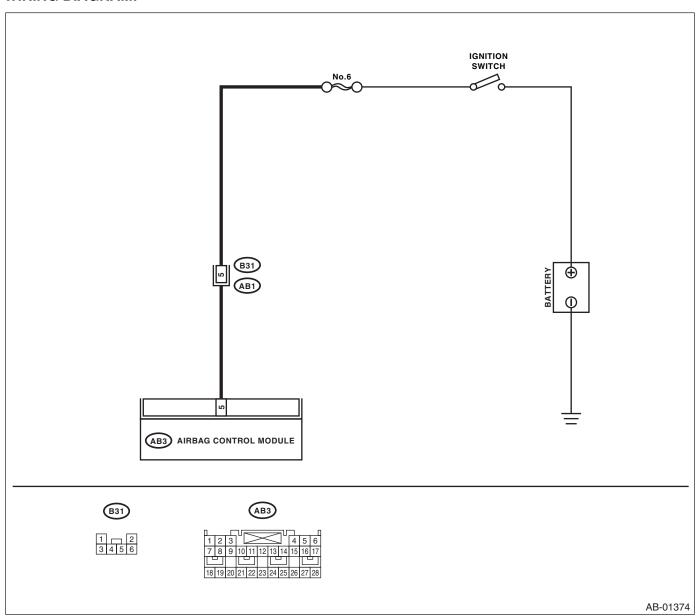
#### I: DTC 25 IG2 OPEN

# **DTC DETECTING CONDITION:**

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

#### **CAUTION:**

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module, and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the driver's airbag module and passenger's airbag module connectors for safety reasons.



# Diagnostic Chart with Trouble Code AIRBAG SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
1	CHECK AIRBAG CONTROL MODULE.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Disconnect the connector (AB3) from the airbag control module.  3) Connect the connector (1R) in test harness R to connector (AB3).  4) Connect the battery ground cable, and turn the ignition switch to ON.  5) Measure the voltage between connector (2R) in test harness R and chassis ground.  Connector & terminal  (2R) No. 6 (+) — Chassis ground (-):	Is the voltage more than 10 V?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 2.
2	CHECK FUSE No. 6 (IN JOINT BOX).  1) Confirm that the ignition switch is turned OFF.  2) Remove the No. 6 fuse (in joint box) and perform visual inspection.	Is the fuse No. 6 blown out?	Replace the fuse No. 6. If fuse No. 6 is blown out again, repair the body harness. Or, replace the airbag main harness with body harness.	Go to step 3.
3	<ol> <li>CHECK AIRBAG CONTROL MODULE.</li> <li>Connect all connectors.</li> <li>Erase the memory.</li> <li>Perform the inspection mode.</li> <li>Read out the DTC.</li> </ol>	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 4.
4	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou- ble Code (DTC), check the DTC. <ref. ab(diag)-<br="" to="">45, List of Diag- nostic Trouble Code (DTC).&gt;</ref.>	Finish the diagnosis.

## J: DTC 26 PASSENGER'S AIRBAG INDICATOR FAILURE

## **DTC DETECTING CONDITION:**

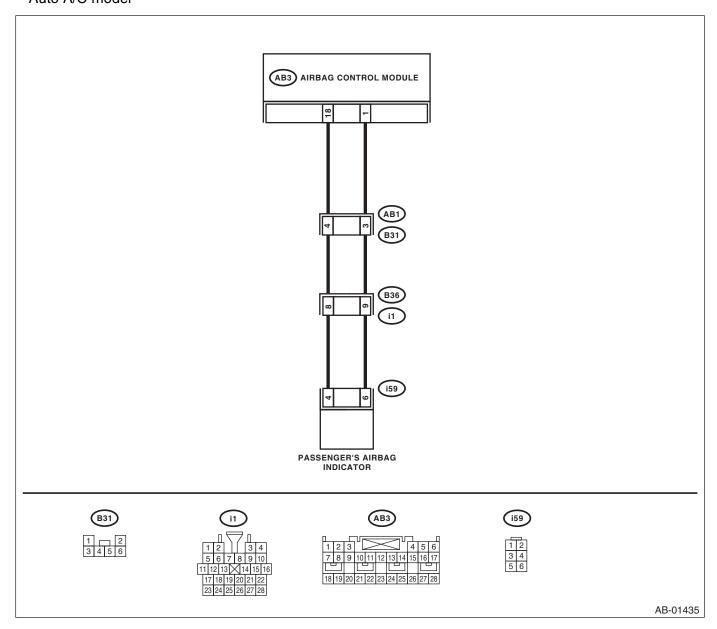
- Passenger's airbag indicator is faulty.
- Airbag control module is faulty.
- · Airbag main harness circuit is open.
- · Open circuit of body harness.

#### **CAUTION:**

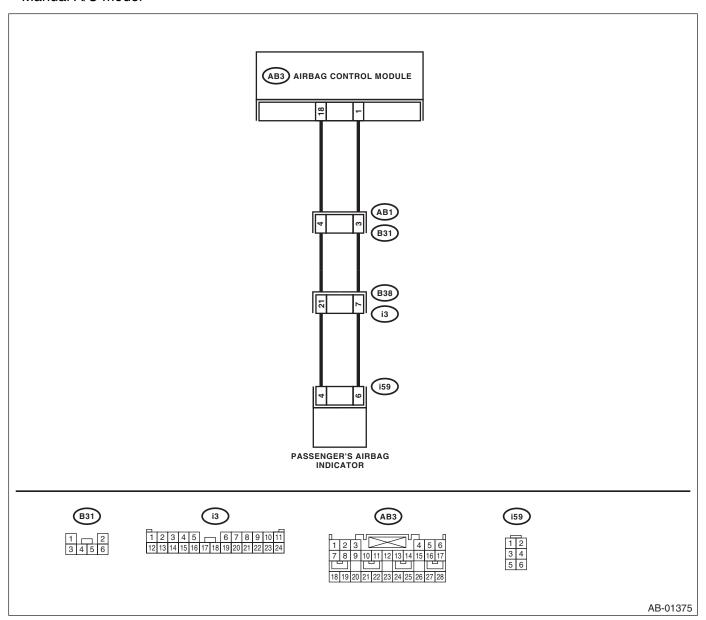
- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module, and sensor, reconnect each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

#### WIRING DIAGRAM:

Auto A/C model



# Manual A/C model

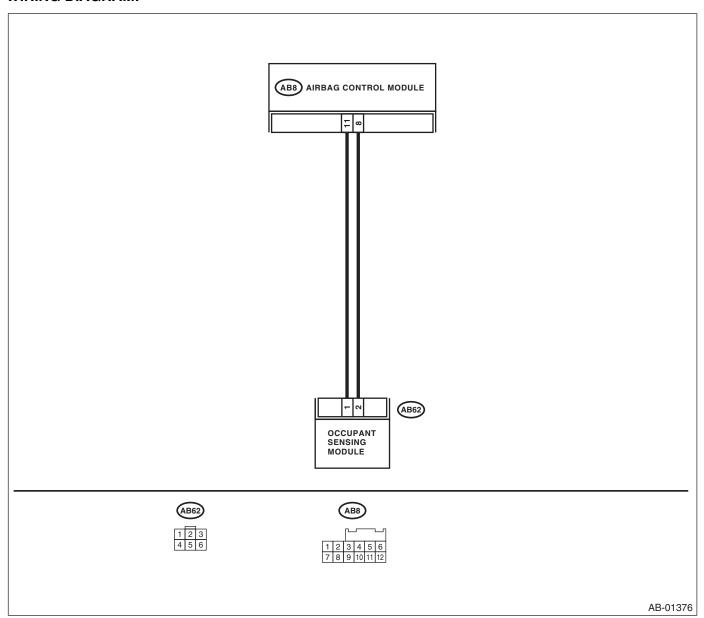


				.,
<u></u>	Step	Check	Yes	No
1	<ul><li>CHECK POOR CONTACT.</li><li>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than</li></ul>	Is there poor contact in each connector?	Replace the airbag harness connector.	Go to step 2.
	<ul><li>20 seconds.</li><li>2) Check the connector between the airbag control module and clock for firm contact.</li></ul>			
2	CHECK AIRBAG MAIN HARNESS.  1) Disconnect the connector (AB3) from the airbag control module. 2) Connect the battery ground cable, and turn the ignition switch to ON.  NOTE: If normal, neither of ON-OFF illuminates.	Does the passenger's airbag indicator illuminate?	Go to step 3.	Go to step 4.
3	CHECK AIRBAG MAIN HARNESS.  1) Turn the ignition switch to OFF.  2) Remove the clock, and disconnect the connector (i59).  3) Connect the connector (1U) in test harness U to connector (AB3).  4) Measure the resistance between connectors (2U) and (4U) in test harness U and chassis ground.  Connector & terminal  (2U) No. 14 — (4U) No. 17:  (2U) No. 14 — Chassis ground:  (4U) No. 17 — Chassis ground:	Is the resistance more than 1 $\mbox{M}\Omega\mbox{?}$		Repair the body harness. Or, replace the airbag main harness with body harness.
4	CHECK AIRBAG HARNESS.  1) Connect the connectors (7U) and (8U) in test harness U.  2) Connect the battery ground cable and turn the ignition switch to ON.  NOTE: If normal, neither of ON·OFF illuminates.	Does the passenger's airbag indicator illuminate?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 5.
5	CHECK AIRBAG HARNESS.  1) Turn the ignition switch to OFF.  2) Connect the connector (1U) in test harness U to connector (AB3).  3) Measure the resistance between connectors (2U) and (4U) in test harness U and connector (i59).  Connector & terminal  (2U) No. 14 — (i59) No. 6:  (4U) No. 17 — (i59) No. 4:	Is the resistance less than 10 $\Omega$ ?	Go to step 6.	Repair the body harness. Or, replace the airbag main harness with body harness.
6	CHECK AIRBAG HARNESS.  1) Turn the ignition switch to ON.  2) Measure the voltage between connector (i59) and chassis ground.  Connector & terminal (i59) No. 2 — Chassis ground:	Is the voltage more than 10 V?	Replace the clock.	Repair the power supply line to clock.

# **K: DTC 27 ODS COMMUNICATION ERROR**

# **DTC DETECTING CONDITION:**

- Communication error with occupant detection control module.
- Airbag rear harness circuit is open, shorted or shorted to ground and power supply.
- Occupant detection harness (seat harness) is faulty.
- · Occupant detection system is faulty.
- · Airbag control module is faulty.



Г	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNEC-	Is there poor contact?	Reconnect the	Go to step 2.
-	TORS.	lo mero poer comace.	connector. If the	do to stop 2:
	Check the connector between airbag control		fault is not cor-	
	module and occupant detection control module		rected, replace the	
	for poor contact.		side airbag har-	
	•		ness RH or occu-	
			pant detection	
			harness (seat har-	
			ness).	
2	CHECK AIRBAG HARNESS.	Is the resistance less than 10	Go to step 3.	Replace the side
	1) Turn the ignition switch to OFF, disconnect	$\Omega$ ?		airbag harness RH
	the battery ground cable, and wait more than			with body harness.
	20 seconds.			
	2) Disconnect the connector (AB8) from the			
	airbag control module.			
	3) Disconnect the connector (AB 62) of under-			
	side of passenger's seat.			
	4) Connect the connector (1U) in test harness			
	U to connector (AB8).			
	5) Connect the connector (1AB) in test har-			
	ness AB to connector (AB62).			
	6) Measure the resistance between connector			
	(3U) in test harness U and the connector (2AB)			
	in test harness AB.			
	Connector & terminal			
	(3U) No. 2 — (2AB) No. 1:			
	(3U) No. 4 — (2AB) No. 2: CHECK AIRBAG HARNESS.	la tha wasistanaa laas than 10	Co to oton 4	Daniaca tha aida
3	Measure the resistance between connector	Is the resistance less than 10 $\Omega$ ?	Go to step 4.	Replace the side airbag harness RH
	(3U) in test harness U and chassis ground.	22:		with body harness.
	Connector & terminal			with body namess.
	(3U) No. 2 — Chassis ground:			
	(3U) No. 2 — (3U) No. 4:			
4	CHECK AIRBAG HARNESS.	Is the voltage more than 9 V?	Go to step 5.	Check the battery
-	Turn the ignition switch to ON.	lo mo romago moro man o r r	GIO TO GIOP GI	voltage and fuse.
	Measure the voltage between connector			Replace the side
	(2AB) in test harness AB and chassis ground.			airbag harness RH
	Connector & terminal			with body harness
	(2AB) No. 3 — Chassis ground:			if no faulty.
5	CHECK AIRBAG HARNESS.	Is the voltage more than 9 V?	Replace the side	Replace the occu-
	Measure the voltage between connector (2AB)		airbag harness RH	pant detection har-
	in test harness AB and chassis ground.		with body harness.	
	Connector & terminal			harness). If the
	(2AB) No. 1 — Chassis ground:			fault is not cor-
				rected, replace the
				occupant detection
				system (seat cush-
				ion and frame
				assembly) and air-
				bag control mod-
				ule in this order.

# **Diagnostic Chart with Trouble Code**

AIRBAG SYSTEM (DIAGNOSTICS)

# L: DTC 29 ODS FAILURE

NOTE:

For details concerning DTC 29, refer to "Occupant Detection System". <Ref. to OD(diag)-30, DTC 29 ODS FAILURE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

# M: DTC 2A ODS CALIBRATION ERROR

NOTE:

For details concerning DTC 2A, refer to "Occupant Detection System". <Ref. to OD(diag)-27, DTC 2A ODS CALIBRATION ERROR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

# N: DTC 2B ODS SYSTEM WRONG PARTS

NOTE:

For details concerning DTC 2B, refer to "Occupant Detection System". <Ref. to OD(diag)-27, DTC 2B ODS SYSTEM WRONG PARTS, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

# O: DTC 2C BELT TENSION SENSOR FAILURE

NOTE:

For details concerning DTC 2C, refer to "Occupant Detection System". <Ref. to OD(diag)-28, DTC 2C BELT PRETENSIONER FAILURE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

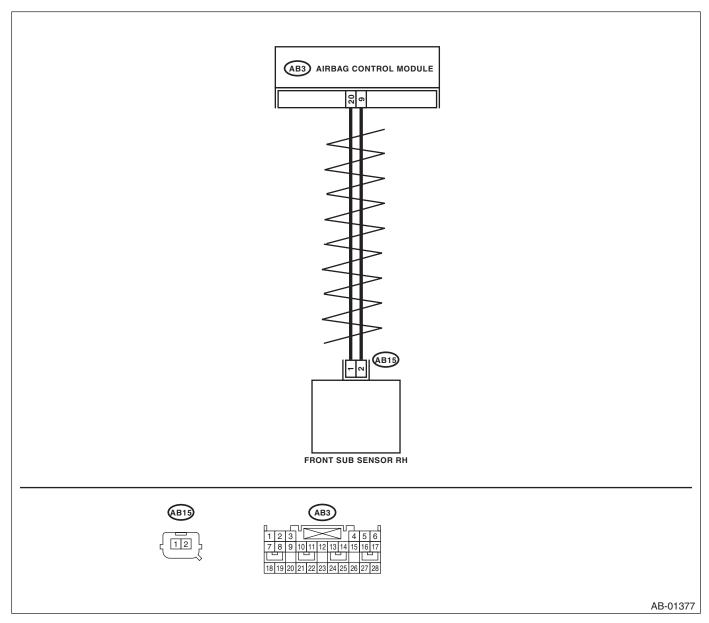
# P: DTC 31 FRONT SUB SENSOR RH FAILURE

# **DTC DETECTING CONDITION:**

- Airbag main harness is open, shorted or shorted to the power supply.
- Front sub sensor (RH) is faulty.
- · Airbag control module is faulty.

#### **CAUTION:**

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module, and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the driver's airbag module and passenger's airbag module connectors for safety reasons.



	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNEC-	Is there poor contact?	Replace the airbag	Go to step 2.
	TORS.		main harness.	
	Check the connector between airbag control			
	module and front sub sensor RH for poor con-			
	tact.	la tha mariatana a la sa than 10	0-110	Danie a tha aidean
	CHECK AIRBAG MAIN HARNESS (FRONT SUB SENSOR RH).	Is the resistance less than 10 $\Omega$ ?	Go to step 3.	Replace the airbag main harness with
	Turn the ignition switch to OFF, disconnect	122:		body harness.
	the battery ground cable, and wait more than			body narriodo.
	20 seconds.			
	2) Remove the instrument panel lower cover			
	and disconnect the connectors (AB26) and			
	(AB21).			
	3) Remove the instrument panel side cover on passenger side, and disconnect the connec-			
	tors (AB27) and (AB4).			
	4) Disconnect the connector (AB3) from the			
	airbag control module.			
	5) Connect the connector (1R) in test harness			
	R to connector (AB3).  6) Disconnect the front sub sensor (RH), and			
	connect the (1H) in test harness H to connec-			
	tor (AB15).			
	7) Measure the resistance between connector			
	(3R) in test harness R and connector (3H) in			
	test harness H.			
	Connector & terminal			
	(3R) No. 7 — (3H) No. 5: (3R) No. 9 — (3H) No. 6:			
3	CHECK AIRBAG MAIN HARNESS (FRONT	Is the resistance more than 1	Replace the front	Go to step 4.
	SUB SENSOR RH).	$M\Omega$ ?	sub sensor (RH).	S.C 10 010p 11
	Measure the resistance between connector		<ref. ab-21,<="" td="" to=""><td></td></ref.>	
	(3R) in test harness R and the chassis ground.		Front Sub Sen-	
	Connector & terminal		SOr.>	
	(3R) No. 7 — Chassis ground: (3R) No. 9 — Chassis ground:		When the problem is not corrected	
	(on) No. 5 — Onassis ground.		after sensor	
			replacement,	
			replace the airbag	
			control module.	
			<ref. ab-18,<="" td="" to=""><td></td></ref.>	
			Airbag Control Module.>	
4	CHECK AIRBAG CONTROL MODULE.	Is the same DTC displayed?	Replace the airbag	Go to sten 5
	Connect all connectors.	no ano oamo DTO displayed!	control module.	αο το στορ <b>σ.</b>
	2) Erase the memory.		<ref. ab-18,<="" td="" to=""><td></td></ref.>	
	3) Perform the inspection mode.		Airbag Control	
	4) Read out the DTC.		Module.>	
5	CHECK FOR ANY OTHER DTC ON DIS-	Is any other DTC displayed?	Using the List of	Finish the diagno-
	PLAY.		Diagnostic Trou-	sis.
			ble Code (DTC), check the DTC.	
			<ref. ab(diag)-<="" td="" to=""><td></td></ref.>	
			45, List of Diag-	
			nostic Trouble	
			Code (DTC).>	

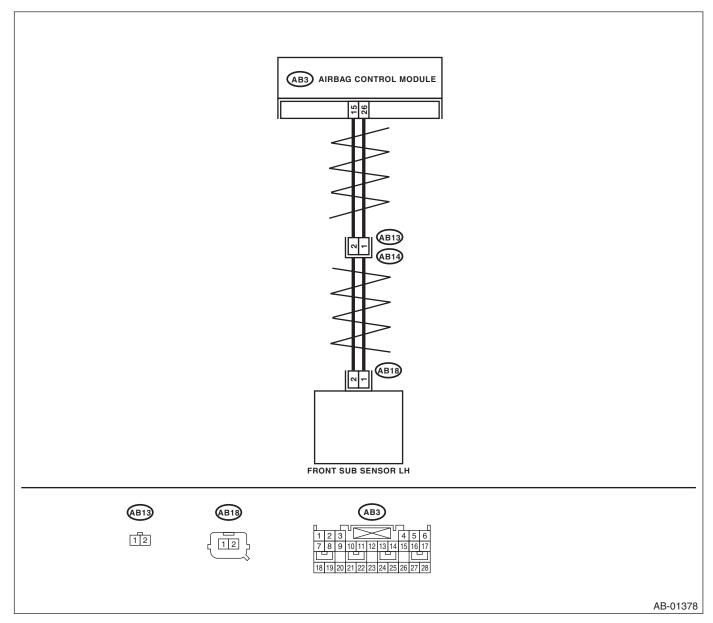
# Q: DTC 32 FRONT SUB SENSOR LH FAILURE

# **DTC DETECTING CONDITION:**

- Airbag main harness is open, shorted or shorted to the power supply.
- Front sub-sensor (LH) is faulty.
- · Airbag control module is faulty.

#### **CAUTION:**

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module, and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the airbag module connector of the driver and passenger seats for safety reasons.



	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNEC-	Is there poor contact?	Replace the airbag	Go to step 2.
	TORS.		main harness with	
	Check the connector between airbag control		body harness.	
	module and front sub sensor LH for poor con-			
	tact.			
	CHECK AIRBAG MAIN HARNESS (FRONT	Is the resistance less than 10 $\Omega$ ?	Go to step 3.	Replace the airbag main harness with
	SUB SENSOR LH).  1) Turn the ignition switch to OFF, disconnect	22?		body harness.
	the battery ground cable, and wait more than			body namess.
	20 seconds.			
	2) Remove the instrument panel lower cover			
	and disconnect the connectors (AB26) and (AB21).			
	3) Remove the console side cover lower on			
	passenger side, and disconnect the connec-			
	tors (AB27) and (AB4).			
	4) Disconnect the connector (AB3) from the			
	<ul><li>airbag control module.</li><li>5) Connect the connector (1R) in test harness</li></ul>			
	R to connector (AB3).			
	6) Disconnect the front sub sensor (LH), and			
	connect the (1H) in test harness H to connec-			
	tor (AB18).			
	7) Measure the resistance between connector			
	(3R) in test harness R and connector (3H) in test harness H.			
	Connector & terminal			
	(3R) No. 6 — (3H) No. 5:			
	(3R) No. 8 — (3H) No. 6:			
3	CHECK AIRBAG MAIN HARNESS (FRONT	Is the resistance more than 1	Replace the front	Go to step 4.
	SUB SENSOR LH).	ΜΩ?	sub sensor (LH).	
	Measure the resistance between connector		<ref. ab-21,<="" td="" to=""><td></td></ref.>	
	(3R) in test harness R and the chassis ground.  Connector & terminal		Front Sub Sen- sor.>	
	(3R) No. 6 — Chassis ground:		When the problem	
	(3R) No. 8 — Chassis ground:		is not corrected	
	, ,		after sensor	
			replacement,	
			replace the airbag	
			control module. <ref. ab-18,<="" td="" to=""><td></td></ref.>	
			Airbag Control	
			Module.>	
4	CHECK AIRBAG CONTROL MODULE.	Is the same DTC displayed?	Replace the airbag	Go to step 5.
	1) Connect all connectors.		control module.	
	2) Erase the memory.		<ref. ab-18,<="" td="" to=""><td></td></ref.>	
	3) Perform the inspection mode.		Airbag Control	
_	4) Read out the DTC.	lo ony other DTC diameters -10	Module.>	Cipiob the discus-
5	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou-	Finish the diagnosis.
	FLAI.		ble Code (DTC),	3I3.
			check the DTC.	
			<ref. ab(diag)-<="" td="" to=""><td></td></ref.>	
			45, List of Diag-	
			nostic Trouble	
			Code (DTC).>	

# **Diagnostic Chart with Trouble Code**

AIRBAG SYSTEM (DIAGNOSTICS)

# R: DTC 33 FRONT SUB SENSOR RH FAILURE

### DTC DETECTING CONDITION:

Front sub sensor (RH) is faulty.

When Code 33 is displayed, the circuit within the front sub sensor (RH) is faulty. Replace the front sub sensor (RH). <Ref. to AB-21, Front Sub Sensor.>

# S: DTC 34 FRONT SUB SENSOR LH FAILURE

### DTC DETECTING CONDITION:

Front sub-sensor (LH) is faulty.

When Code 34 is displayed, the circuit within the front sub sensor (LH) is faulty. Replace the front sub sensor (LH). <Ref. to AB-21, Front Sub Sensor.>

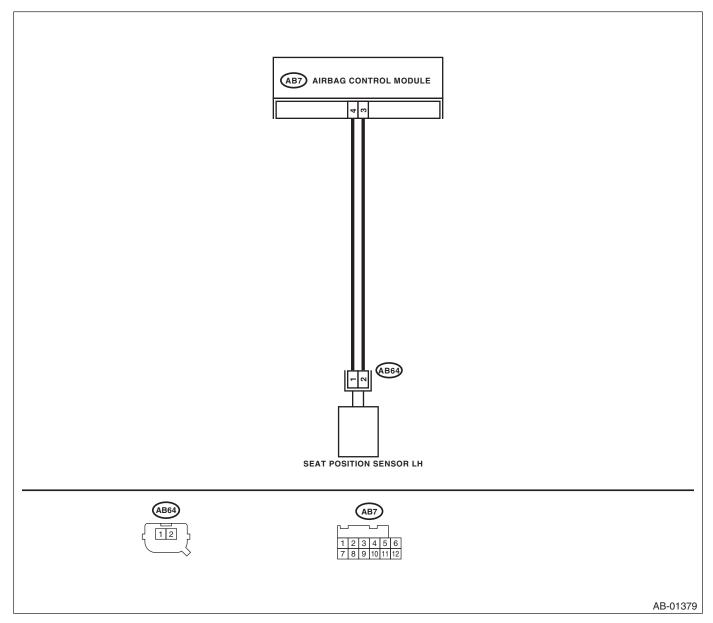
# T: DTC 36 SEAT POSITION SENSOR LH FAILURE

# **DTC DETECTING CONDITION:**

- Driver's seat position sensor is faulty.
- Airbag control module is faulty.
- Side airbag harness circuit is open, shorted or shorted to ground.

#### **CAUTION:**

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



1	Step	Check	Yes	No
1	CHECK SEAT POSITION SENSOR (LH).	Does the airbag warning light	Replace the seat	Go to step 2.
•	Turn the ignition switch to OFF, disconnect	illuminate for 6 seconds then	position sensor	do to step 2.
	the battery ground cable, and wait more than	go off?	(LH) with slide rail	
	20 seconds.	90 011:	assembly in	
	<ul><li>2) Disconnect the connector (AB64) from seat</li></ul>		driver's side. <ref.< td=""><td></td></ref.<>	
	position sensor (LH).		to SE-7, Front	
	3) Connect the connector (2Y) in test harness		Seat.>	
	Y to connector (AB64).			
	4) Connect the battery ground cable, and turn			
	the ignition switch to ON.			
2	CHECK SIDE AIRBAG HARNESS (SEAT PO-	Is the resistance less than 10	Go to step 3.	Replace the side
	SITION SENSOR HARNESS LH).	Ω?		airbag harness
	<ol> <li>Turn the ignition switch to OFF, disconnect</li> </ol>			with body harness.
	the battery ground cable, and wait more than			
	20 seconds.			
	2) Disconnect the connector (AB7) from the			
	airbag control module.			
	3) Connect the connector (1R) in test harness			
	R to connector (AB26).			
	4) Disconnect the seat position sensor (LH),			
	and connect the (1H) in test harness H to connector (AB64).			
	5) Measure the resistance between connector			
	(3R) in test harness R and connector (3H) in			
	test harness H.			
	Connector & terminal			
	(3R) No. 1 — (3H) No. 6:			
	(3R) No. 3 — (3H) No. 5:			
3	CHECK SIDE AIRBAG HARNESS.	Is the resistance less than 10	Replace the side	Replace the airbag
	Measure the resistance between connector	Ω?	airbag harness	control module.
	(3R) in test harness R and the chassis ground.		with body harness.	
	Connector & terminal			
	(3R) No. 1 — Chassis ground:			

# **U: DTC 37 BUCKLE SWITCH RH FAILURE**

For details concerning DTC 37, refer to "Occupant Detection System". <Ref. to OD(diag)-31, DTC 37 BUCK-LE SWITCH RH FAILURE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

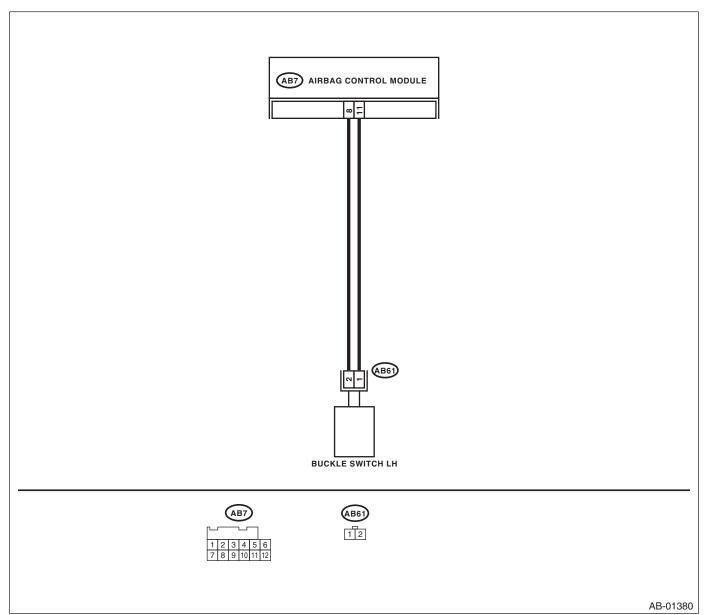
# V: DTC 38 BUCKLE SWITCH LH FAILURE

# **DTC DETECTING CONDITION:**

- Driver's buckle switch circuit is open, shorted or shorted to ground.
- Side airbag harness circuit is open, shorted or shorted to ground.
- · Airbag control module is faulty.

#### **CAUTION:**

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



	Step	Check	Yes	No
1	CHECK SEAT BELT BUCKLE SWITCH (LH).  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Disconnect the connector (AB61) from buckle switch (LH).  3) Connect the connector (1Y) in test harness Y to connector (AB61).  4) Connect the battery ground cable, and turn the ignition switch to ON.	Does the airbag warning light illuminate for 6 seconds then go off?	Replace the seat belt buckle switch (LH). <ref. sb-<br="" to="">10, Front Seat Belt.&gt;</ref.>	Go to step 2.
2	CHECK SIDE AIRBAG HARNESS (BUCKLE SWITCH HARNESS LH).  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Disconnect the connector (AB7) from the airbag control module.  3) Connect the connector (1R) in test harness R to the connector (AB7).  4) Disconnect the seat belt buckle switch (LH), and connect the (1D) in test harness D to connector (AB61).  5) Measure the resistance between connector (4R) in test harness R and the connector (3D) in test harness D.  Connector & terminal  (4R) No. 11 — (3D) No. 3:  (4R) No. 9 — (3D) No. 4:	Is the resistance less than 10 $\Omega$ ?	Go to step 3.	Replace the side airbag harness with body harness.
3	CHECK AIRBAG REAR HARNESS.  Measure the resistance between connector (4R) in test harness R and the chassis ground.  Connector & terminal  (4R) No. 9 — Chassis ground:  (4R) No. 9 — (4R) No. 11:	Is the resistance less than 10 $\Omega$ ?	Replace the side airbag harness with body harness.	Replace the airbag control module.

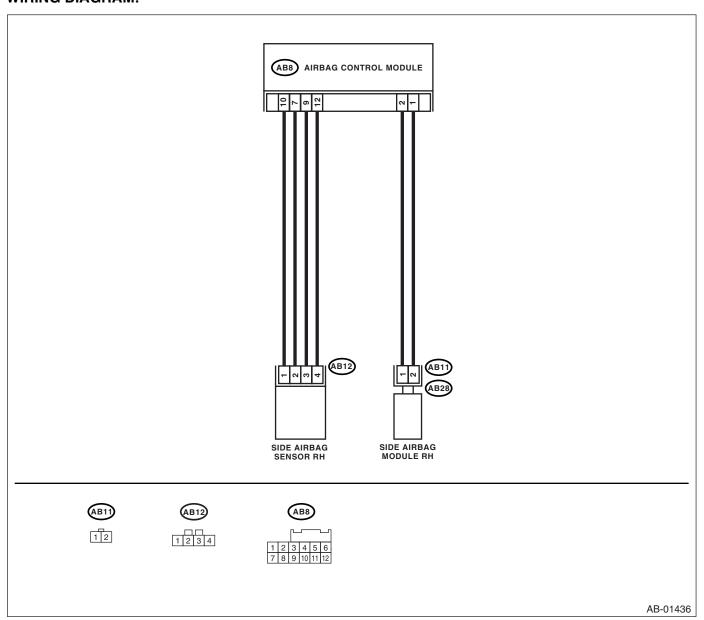
# W: DTC 41 SIDE AIRBAG RH FAILURE

# **DTC DETECTING CONDITION:**

- Side airbag harness (RH) is faulty.
- Side airbag module (RH) is faulty.
- · Airbag control module is faulty.

#### **CAUTION:**

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module, and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the driver's airbag module and passenger's airbag module connectors for safety reasons.
- When inspecting the side airbag harness, disconnect the side airbag module connector and seat belt pretensioner connector for the safety reasons.



	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNEC-	Is there poor contact?	Replace the side	Go to step 2.
	TORS. Check the connector between airbag control module, and side airbag module RH and side airbag sensor RH for poor contact.	is there poor contact:	airbag harness with body harness.	Go to Stop 2.
2	CHECK SIDE AIRBAG MODULE.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Disconnect the connector (AB11) from side airbag module (RH), and connect the connector (1F) in test harness F to connector (AB11).  3) Connect the airbag resistor to connector (3F) in test harness F.  4) Connect the battery ground cable, and turn the ignition switch to ON.	Does the airbag warning light illuminate for 6 seconds then go off?	Replace the front seat with side air- bag module (RH). <ref. se-7,<br="" to="">Front Seat.&gt;</ref.>	Go to step 3.
3	CHECK SIDE AIRBAG HARNESS (RH).  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Disconnect the connector (AB20) from seat belt pretensioner (RH).  3) Disconnect the airbag resistor from test harness F.  4) Disconnect the connector (AB8) from the airbag control module.  5) Connect the connector (1R) in test harness R to connector (AB8).  6) Measure the resistance between connector (3R) in test harness R and connector (3F) in test harness F.  Connector & terminal  (3R) No. 18 — (3F) No. 4:  (3R) No. 20 — (3F) No. 3:	Is the resistance less than 10 $\Omega$ ?	Go to step 4.	Replace the side airbag harness with body harness.
4	CHECK SIDE AIRBAG HARNESS (RH).  Measure the resistance between the connector (3R) terminals in test harness R.  Connector & terminal  (3R) No. 18 — (3R) No. 20:	Is the resistance more than 1 M $\Omega$ ?	Go to step 5.	Replace the side airbag harness with body harness.
5	CHECK SIDE AIRBAG HARNESS (RH).  Measure the resistance between connector (3R) in test harness R and the chassis ground.  Connector & terminal (3R) No. 18 — Chassis ground: (3R) No. 20 — Chassis ground:	Is the resistance more than 1 $\mbox{M}\Omega\mbox{?}$	Go to step 6.	Replace the side airbag harness with body harness.
6	<ol> <li>CHECK AIRBAG CONTROL MODULE.</li> <li>Connect all connectors.</li> <li>Erase the memory.</li> <li>Perform the inspection mode.</li> <li>Read out the DTC.</li> </ol>	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 7.
7	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou- ble Code (DTC), check the DTC. <ref. ab(diag)-<br="" to="">45, List of Diag- nostic Trouble Code (DTC).&gt;</ref.>	Finish the diagnosis.

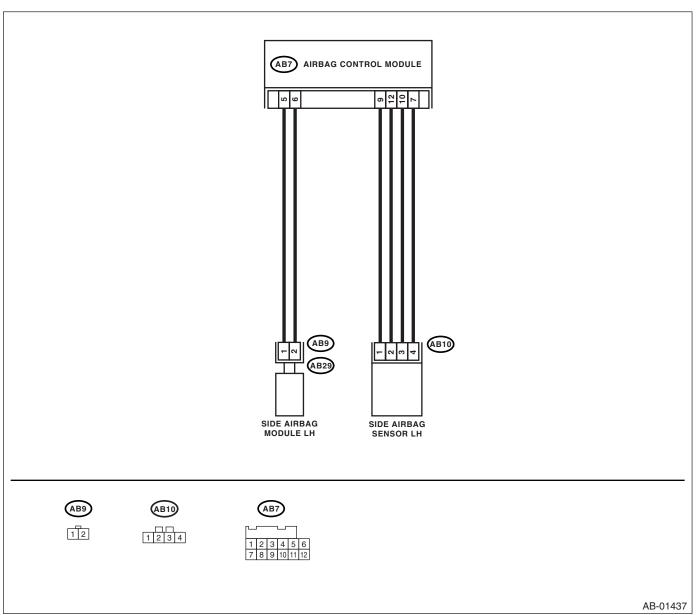
# X: DTC 42 SIDE AIRBAG LH FAILURE

# **DTC DETECTING CONDITION:**

- Side airbag harness (LH) is faulty.
- Side airbag module (LH) is faulty.
- · Airbag control module is faulty.

#### **CAUTION:**

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module, and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the driver's airbag module and passenger's airbag module connectors for safety reasons.
- When inspecting the side airbag harness, disconnect the side airbag module connector and seat belt pretensioner connector for the safety reasons.



	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNEC-	Is there poor contact?	Replace the side	Go to step 2.
	TORS. Check the connector between airbag control module, and side airbag module LH and side airbag sensor LH for poor contact.	is there poor contact:	airbag harness with body harness.	do to step 2.
2	CHECK SIDE AIRBAG MODULE.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Disconnect the connector (AB9) from side airbag module (LH), and connect the connector (1F) in test harness F to connector (AB9).  3) Connect the airbag resistor to connector (3F) in test harness F.  4) Connect the battery ground cable, and turn the ignition switch to ON.	Does the airbag warning light illuminate for 6 seconds then go off?	Replace the front seat with side air- bag module (LH). <ref. se-7,<br="" to="">Front Seat.&gt;</ref.>	Go to step 3.
3	CHECK SIDE AIRBAG HARNESS (LH).  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Disconnect the connector (AB19) from seat belt pretensioner (LH).  3) Disconnect the airbag resistor from the test harness.  4) Disconnect the connector (AB7) from the airbag control module.  5) Connect the connector (1R) in test harness R to the connector (AB7).  6) Measure the resistance between connector (3R) in test harness R and connector (3F) in test harness F.  Connector & terminal (3R) No. 12 — (3F) No. 3: (3R) No. 10 — (3F) No. 4:	Is the resistance less than 10 $\Omega$ ?	Go to step 4.	Replace the side airbag harness with body harness.
4	CHECK SIDE AIRBAG HARNESS (LH).  Measure the resistance between the connector (3R) terminals in test harness R.  Connector & terminal  (3R) No. 12 — (3R) No. 10:	Is the resistance more than 1 M $\Omega$ ?	Go to step 5.	Replace the side airbag harness with body harness.
5	CHECK SIDE AIRBAG HARNESS (LH).  Measure the resistance between connector (3R) in test harness R and the chassis ground.  Connector & terminal  (3R) No. 10 — Chassis ground:  (3R) No. 12 — Chassis ground:	Is the resistance more than 1 $\mbox{M}\Omega ?$	Go to step 6.	Replace the side airbag harness with body harness.
6	<ol> <li>CHECK AIRBAG CONTROL MODULE.</li> <li>Connect all connectors.</li> <li>Erase the memory.</li> <li>Perform the inspection mode.</li> <li>Read out the DTC.</li> </ol>	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 7.
7	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou- ble Code (DTC), check the DTC. <ref. ab(diag)-<br="" to="">45, List of Diag- nostic Trouble Code (DTC).&gt;</ref.>	Finish the diagnosis.

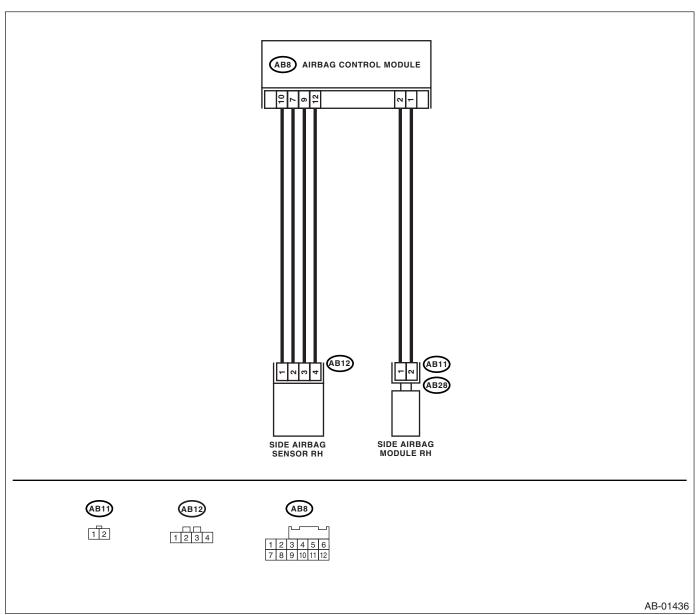
# Y: DTC 45 SIDE AIRBAG RH FAILURE

# **DTC DETECTING CONDITION:**

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

#### **CAUTION:**

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module, and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the driver's airbag module and passenger's airbag module connectors for safety reasons.
- When inspecting the side airbag harness, disconnect the side airbag module connector and seat belt pretensioner connector for the safety reasons.



	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNEC-	Is there poor contact?	Replace the side	Go to step 2.
	TORS.	·	airbag harness	•
	Check the connector between airbag control		with body harness.	
	module, and side airbag module RH and side			
	airbag sensor RH for poor contact.			
2	CHECK SIDE AIRBAG MODULE.	Does the airbag warning light	Replace the front	Go to step 3.
	1) Turn the ignition switch to OFF, disconnect	illuminate for 6 seconds then	seat with side air-	
	the battery ground cable, and wait more than	go off?	bag module (RH).	
	20 seconds.		<ref. se-7,<="" th="" to=""><th></th></ref.>	
	<ol><li>Disconnect the connector (AB11) from side airbag module (RH), and connect the connec-</li></ol>		Front Seat.>	
	tor (1F) in test harness F to connector (AB11).			
	3) Connect the airbag resistor to connector			
	(3F) in test harness F.			
	<ul><li>4) Connect the battery ground cable, and turn</li></ul>			
	the ignition switch to ON.			
3	CHECK SIDE AIRBAG HARNESS (RH).	Is the voltage less than 1 V?	Go to step 4.	Replace the side
	Turn the ignition switch to OFF, disconnect	l and remage rese man r		airbag harness
	the battery ground cable, and wait more than			with body harness.
	20 seconds.			•
	2) Disconnect the connector (AB20) from seat			
	belt pretensioner (RH).			
	3) Disconnect the airbag resistor from the test			
	harness.			
	4) Disconnect the connector (AB8) from the			
	airbag control module.			
	5) Connect the connector (1R) in test harness R to the connector (AB8).			
	6) Connect the battery ground cable, and turn			
	the ignition switch to ON.			
	7) Measure the voltage between connector			
	(3R) in test harness R and the chassis ground.			
	Connector & terminal			
	(3R) No. 18 (+) — Chassis ground (−):			
	(3R) No. 20 (+) — Chassis ground (-):			
4	CHECK AIRBAG CONTROL MODULE.	Is the same DTC displayed?	Replace the airbag	Go to step 5.
	<ol> <li>Connect all connectors.</li> </ol>		control module.	
	2) Erase the memory.		<ref. ab-18,<="" th="" to=""><th></th></ref.>	
	3) Perform the inspection mode.		Airbag Control	
	4) Read out the DTC.		Module.>	
5	CHECK FOR ANY OTHER DTC ON DIS-	Is any other DTC displayed?	Using the List of	Finish the diagno-
	PLAY.		Diagnostic Trou-	sis.
			ble Code (DTC),	
			check the DTC. <ref. ab(diag)-<="" th="" to=""><th></th></ref.>	
			45, List of Diag-	
			nostic Trouble	
			Code (DTC).>	
			0006 (D10).2	

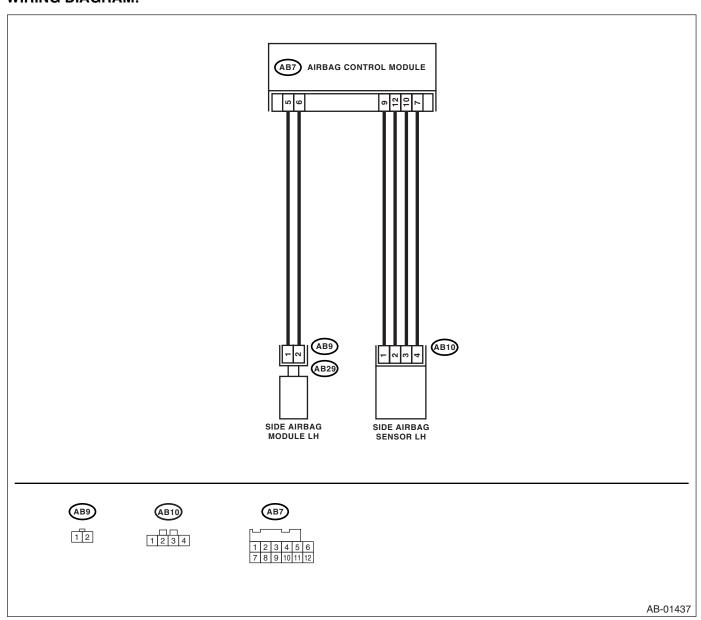
# **Z: DTC 46 SIDE AIRBAG LH FAILURE**

# **DTC DETECTING CONDITION:**

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

#### **CAUTION:**

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module, and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the driver's airbag module and passenger's airbag module connectors for safety reasons.
- When inspecting the side airbag harness, disconnect the side airbag module connector and seat belt pretensioner connector for the safety reasons.



	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNEC-	Is there poor contact?	Replace the side	Go to step 2.
	TORS.	·	airbag harness	•
	Check the connector between airbag control		with body harness.	
	module, and side airbag module LH and side			
	airbag sensor LH for poor contact.			
2	CHECK SIDE AIRBAG MODULE.	Does the airbag warning light	Replace the front	Go to step 3.
	1) Turn the ignition switch to OFF, disconnect	illuminate for 6 seconds then	seat with side air-	
	the battery ground cable, and wait more than	go off?	bag module (LH).	
	20 seconds.		<ref. se-7,<="" th="" to=""><th></th></ref.>	
	2) Disconnect the connector (AB9) from side		Front Seat.>	
	airbag module (LH), and connect the connector (1F) in test harness F to connector (AB9).			
	3) Connect the airbag resistor to connector			
	(3F) in test harness F.			
	4) Connect the battery ground cable, and turn			
	the ignition switch to ON.			
3	CHECK SIDE AIRBAG HARNESS (LH).	Is the voltage less than 1 V?	Go to step 4.	Replace the side
	1) Turn the ignition switch to OFF, disconnect			airbag harness
	the battery ground cable, and wait more than			with body harness.
	20 seconds.			-
	2) Disconnect the connector (AB19) from seat			
	belt pretensioner (LH).			
	3) Disconnect the airbag resistor from the test			
	harness.			
	4) Disconnect the connector (AB7) from the			
	<ul><li>airbag control module.</li><li>5) Connect the connector (1R) in test harness</li></ul>			
	R to the connector (AB7).			
	6) Connect the battery ground cable, and turn			
	the ignition switch to ON.			
	7) Measure the voltage between connector			
	(3R) in test harness R and the chassis ground.			
	Connector & terminal			
	(3R) No. 10 (+) — Chassis ground (−):			
	(3R) No. 12 (+) — Chassis ground (−):			
4	CHECK AIRBAG CONTROL MODULE.	Is the same DTC displayed?	Replace the airbag	Go to step 5.
	Connect all connectors.		control module.	
	2) Erase the memory.		<ref. ab-18,<="" th="" to=""><th></th></ref.>	
	Perform the inspection mode.     Pend out the DTC.		Airbag Control	
<u> </u>	4) Read out the DTC.	L DTC II I	Module.>	E
5	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou-	Finish the diagnosis.
	FLAT.		ble Code (DTC),	313.
			check the DTC.	
			<ref. ab(diag)-<="" th="" to=""><th></th></ref.>	
			45, List of Diag-	
			nostic Trouble	
			Code (DTC).>	

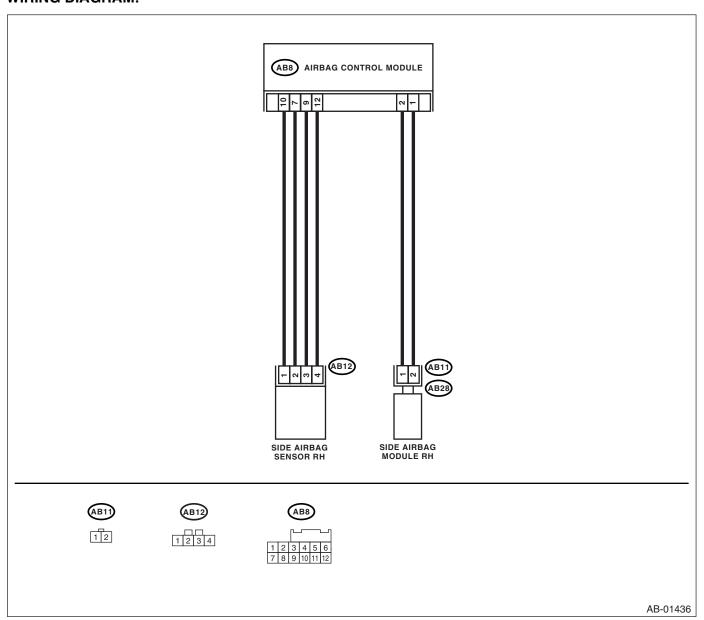
# AA:DTC 51 SIDE AIRBAG RH FAILURE

# **DTC DETECTING CONDITION:**

- Side airbag sensor (RH) is faulty.
- Side airbag harness (RH) is faulty.
- · Airbag control module is faulty.

#### **CAUTION:**

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module, and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the driver's airbag module and passenger's airbag module connectors for safety reasons.
- When inspecting the side airbag harness, disconnect the side airbag module connector and seat belt pretensioner connector for the safety reasons.



	Ston	Check	Yes	No
1	Step CONTACT OF CONNEC			No
1	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact?	Replace the side	Go to step 2.
			airbag harness	
	Check the connector between airbag control		with body harness.	
	module, and side airbag module RH and side			
2	airbag sensor RH for poor contact.	lo the registeres is a thin if	Co to otaz o	Donloos the -: '
2	CHECK SIDE AIRBAG HARNESS (RH).  1) Turn the ignition switch to OFF, disconnect	Is the resistance less than 10 $\Omega$ ?		Replace the side airbag harness
	the battery ground cable, and wait more than	52:		with body harness.
	20 seconds.			with body namess.
Ì	<ul><li>2) Disconnect the connector (AB20) from seat</li></ul>	1		
1	belt pretensioner (RH).			
	3) Disconnect the connector (AB8) from the	1		
1	airbag control module.			
	4) Connect the connector (1R) in test harness			
1	R to connector (AB8).			
	5) Disconnect the connector (AB20) from the	1		
	side airbag sensor (RH), and connect the con-	1		
1	nector (2V) in test harness V to connector			
	(AB20).			
1	6) Measure the resistance between connector			
1	(4R) in test harness R and the connector (3V)			
	in test harness V.			
	Connector & terminal	1		
1	(4R) No. 5 — (3V) No. 2:			
	(4R) No. 6 — (3V) No. 4:	1		
	(4R) No. 7 — (3V) No. 1:	1		
	(4R) No. 8 — (3V) No. 5:			
3	CHECK SIDE AIRBAG HARNESS.	Is the resistance more than 1	•	Replace the side
	Measure the resistance between connector	ΜΩ?		airbag harness
	(4R) terminals in test harness R, and between	1		with body harness.
	connector (4R) in test harness R and chassis			
	ground.  Connector & terminal			
	(4R) No. 5 — (4R) No. 7:			
	(4R) No. 5 — (4R) No. 7: (4R) No. 5 — (4R) No. 6:			
1	(4R) No. 5 — (4R) No. 8:			
1	(4R) No. 6 — (4R) No. 7:			
1	(4R) No. 6 — (4R) No. 8:	1		
1	(4R) No. 7 — (4R) No. 8:			
1	(4R) No. 5 — Chassis ground:			
1	(4R) No. 6 — Chassis ground:			
1	(4R) No. 7 — Chassis ground:			
1	(4R) No. 8 — Chassis ground:			
4	CHECK AIRBAG CONTROL MODULE.	Is the same DTC displayed?	Replace the side	Go to step 5.
1	1) Connect all connectors.		airbag sensor	
1	2) Erase the memory.		(RH). <ref. ab-<="" th="" to=""><th></th></ref.>	
1	3) Perform the inspection mode.	1	19, Side Airbag	
	4) Read out the DTC.		Sensor.>When the	
		1	problem is not cor-	
1		1	rected after sensor	
1		1	replacement,	
1			replace the airbag	
1		1	control module.	
1			<ref. ab-18,<="" th="" to=""><th></th></ref.>	
1			Airbag Control	
			Module.>	

# Diagnostic Chart with Trouble Code AIRBAG SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
5	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	•	Finish the diagnosis.

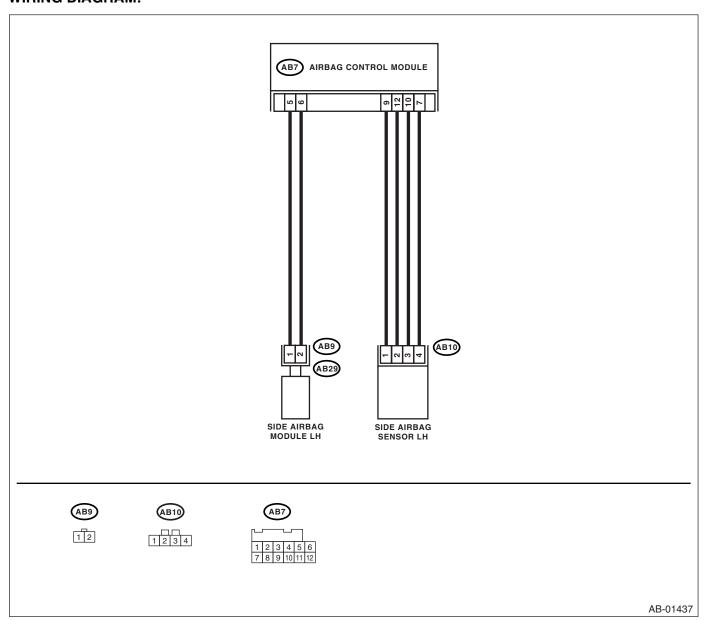
# AB:DTC 52 SIDE AIRBAG SENSOR LH FAILURE

# **DTC DETECTING CONDITION:**

- Side airbag sensor (LH) is faulty.
- Side airbag harness (LH) is faulty.
- · Airbag control module is faulty.

#### **CAUTION:**

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module, and sensor, reconnect each part and confirm that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the driver's airbag module and passenger's airbag module connectors for safety reasons.
- When inspecting the side airbag harness, disconnect the side airbag module connector and seat belt pretensioner connector for the safety reasons.



	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact?	Replace the side airbag harness	Go to step 2.
	Check the connector between airbag control		with body harness.	
	module, and side airbag module LH and side			
2	airbag sensor LH for poor contact.  CHECK SIDE AIRBAG HARNESS (LH).	Is the resistance less than 10	Go to step 3.	Replace the side
	Turn the ignition switch to OFF, disconnect	$\Omega$ ?	do to step <b>o.</b>	airbag harness
	the battery ground cable, and wait more than			with body harness.
	<ul><li>20 seconds.</li><li>2) Disconnect the connector (AB19) from seat</li></ul>			
	belt pretensioner (LH).			
	3) Disconnect the connector (AB9) from side			
	airbag module (LH).			
	<ol> <li>Disconnect the connector (AB7) from the airbag control module.</li> </ol>			
	5) Connect the connector (1R) in test harness			
	R to the connector (AB7).			
	6) Disconnect the connector (AB10) from the side airbag sensor (LH), and connect the con-			
	nector (2V) in test harness V to connector			
	(AB10).			
	7) Measure the resistance between connector			
	(4R) in test harness R and the connector (3V) in test harness V.			
	Connector & terminal			
	(4R) No. 4 — (3V) No. 2:			
	(4R) No. 3 — (3V) No. 4: (4R) No. 2 — (3V) No. 1:			
	(4R) No. 1 — (3V) No. 5:			
3	CHECK SIDE AIRBAG HARNESS (LH).	Is the resistance more than 1	Go to step 4.	Replace the side
	Measure the resistance between connector (4R) terminals in test harness R, and between	ΜΩ?		airbag harness with body harness.
	connector (4R) in test harness R and chassis			man body namede.
	ground.			
	Connector & terminal (4R) No. 4 — (4R) No. 3:			
	(4R) No. 4 — (4R) No. 2:			
	(4R) No. 4 — (4R) No. 1:			
	(4R) No. 3 — (4R) No. 2:			
	(4R) No. 3 — (4R) No. 1: (4R) No. 2 — (4R) No. 1:			
	(4R) No. 4 — Chassis ground:			
	(4R) No. 3 — Chassis ground:			
	(4R) No. 2 — Chassis ground: (4R) No. 1 — Chassis ground:			
4	CHECK AIRBAG CONTROL MODULE.	Is the same DTC displayed?	Replace the side	Go to step 5.
	1) Connect all connectors.		airbag sensor	-
	<ul><li>2) Erase the memory.</li><li>3) Perform the inspection mode.</li></ul>		(LH). <ref. ab-<br="" to="">19, Side Airbag</ref.>	
	4) Read out the DTC.		Sensor.>When the	
	•		problem is not cor-	
			rected after sensor	
			replacement, replace the airbag	
			control module.	
			<ref. ab-18,<="" th="" to=""><th></th></ref.>	
			Airbag Control	
			Module.>	

# **Diagnostic Chart with Trouble Code**

AIRBAG SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
5	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	· ·	Finish the diagnosis.

# **AC:DTC 53 SIDE AIRBAG RH FAILURE**

#### DTC DETECTING CONDITION:

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.>

# AD:DTC 54 SIDE AIRBAG SENSOR LH FAILURE

### DTC DETECTING CONDITION:

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.>

# **AE:DTC 55 SIDE CURTAIN AIRBAG FIRING OUTPUT**

This DTC is displayed when the side airbag is deployed.

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

- Airbag control module <Ref. to AB-18, Airbag Control Module.>
- Front seat with side airbag module (Operating side) <Ref. to SE-7, Front Seat.>
- Side airbag sensor (Operating side) <Ref. to AB-19, Side Airbag Sensor.>

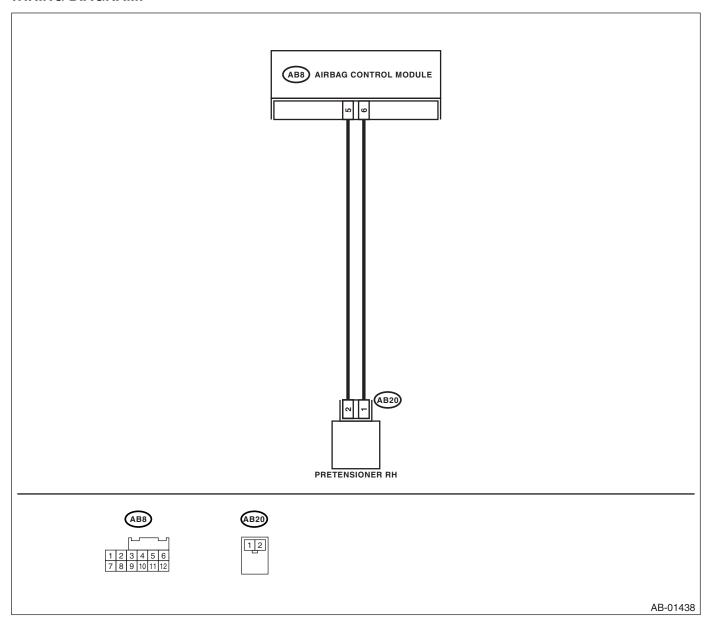
# **AF:DTC 61 BELT PRETENSIONER RH FAILURE**

### DTC DETECTING CONDITION:

- Seat belt pretensioner (RH) circuit is open, shorted or shorted to ground.
- · Airbag control module is faulty.
- · Pretensioner is faulty.
- Pretensioner harness is faulty.

#### **CAUTION:**

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



	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNECTORS.  Check the connector between airbag control module and seat belt pretensioner RH for poor contact.	Is there poor contact?	Replace the side airbag harness with body harness.	Go to step 2.
2	CHECK SEAT BELT PRETENSIONER.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Disconnect the connector (AB20) from seat belt pretensioner (RH).  3) Connect the connector (1N) in test harness N to connector (AB20).  4) Connect the airbag resistor to the connector (2N) in test harness N.  5) Connect the battery ground cable, and turn the ignition switch to ON.	Does the airbag warning light illuminate for 6 seconds then go off?	Replace the seat belt pretensioner (RH). <ref. sb-<br="" to="">10, Front Seat Belt.&gt;</ref.>	Go to step 3.
3	CHECK SIDE AIRBAG HARNESS (RH).  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Disconnect the airbag resistor from the test harness.  3) Disconnect the connector (AB11) from side airbag module (RH).  4) Disconnect the connectors (AB7) and (AB8) from the airbag control module.  5) Connect the connector (1R) in test harness R to the connector (AB8).  6) Measure the resistance between connector (3R) in test harness R and the connector (2N) in test harness N.  Connector & terminal  (3R) No. 17 — (2N) No. 2:  (3R) No. 19 — (2N) No. 1:	Is the resistance less than 10 $\Omega$ ?	Go to step 4.	Replace the side airbag harness with body harness.
4	CHECK SIDE AIRBAG HARNESS (RH).  Measure the resistance between the connector (3R) terminals in test harness R.  Connector & terminal  (3R) No. 17 — (3R) No. 19:	Is the resistance more than 1 $\mbox{M}\Omega ?$	Go to step 5.	Replace the side airbag harness with body harness.
5	CHECK SIDE AIRBAG HARNESS (RH).  Measure the resistance between connector (3R) in test harness R and the chassis ground.  Connector & terminal  (3R) No. 17 — Chassis ground:  (3R) No. 19 — Chassis ground:	Is the resistance more than 1 $\mbox{M}\Omega ?$	Go to step 6.	Replace the side airbag harness with body harness.
6	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors.  2) Erase the memory.  3) Perform the inspection mode.  4) Read out the DTC.	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 7.
7	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou- ble Code (DTC), check the DTC. <ref. ab(diag)-<br="" to="">45, List of Diag- nostic Trouble Code (DTC).&gt;</ref.>	Finish the diagnosis.

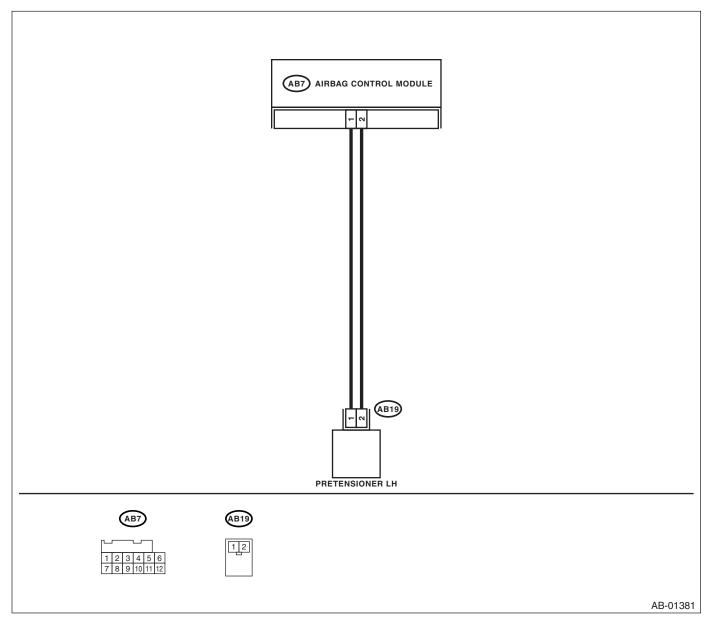
# **AG:DTC 62 BELT PRETENSIONER LH FAILURE**

### DTC DETECTING CONDITION:

- Seat belt pretensioner (LH) circuit is open, shorted or shorted to ground.
- · Airbag control module is faulty.
- · Pretensioner is faulty.
- Pretensioner harness is faulty.

#### **CAUTION:**

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



	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNECTORS.  Check the connector between airbag control module and seat belt pretensioner LH for poor contact.	Is there poor contact?	Replace the side airbag harness with body harness.	Go to step 2.
2	CHECK SEAT BELT PRETENSIONER.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Disconnect the connector (AB19) from seat belt pretensioner (LH).  3) Connect the connector (1N) in test harness N to connector (AB19).  4) Connect the airbag resistor to the connector (2N) in test harness N.  5) Connect the battery ground cable, and turn the ignition switch to ON.	Does the airbag warning light illuminate for 6 seconds then go off?	Replace the seat belt pretensioner (LH). <ref. sb-<br="" to="">10, Front Seat Belt.&gt;</ref.>	Go to step 3.
3	CHECK SIDE AIRBAG HARNESS (LH).  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Disconnect the airbag resistor from the test harness.  3) Disconnect the connector (AB9) from side airbag module (LH).  4) Disconnect the connectors (AB7) and (AB8) from the airbag control module.  5) Connect the connector (1R) in test harness R to the connector (AB7).  6) Measure the resistance between connector (3R) in test harness R and the connector (2N) in test harness N.  Connector & terminal  (3R) No. 11 — (2N) No. 2:  (3R) No. 13 — (2N) No. 1:	Is the resistance less than 10 $\Omega$ ?	Go to step 4.	Replace the side airbag harness with body harness.
4	CHECK SIDE AIRBAG HARNESS (LH).  Measure the resistance between the connector (3R) terminals in test harness R.  Connector & terminal  (3R) No. 11 — (3R) No. 13:	Is the resistance more than 1 $\mbox{M}\Omega ?$	Go to step 5.	Replace the side airbag harness with body harness.
5	CHECK SIDE AIRBAG HARNESS (LH).  Measure the resistance between connector (3R) in test harness R and the chassis ground.  Connector & terminal  (3R) No. 11 — Chassis ground:  (3R) No. 13 — Chassis ground:	Is the resistance more than 1 $\mbox{M}\Omega ?$	Go to step 6.	Replace the side airbag harness with body harness.
6	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors.  2) Erase the memory.  3) Perform the inspection mode.  4) Read out the DTC.	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 7.
7	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou- ble Code (DTC), check the DTC. <ref. ab(diag)-<br="" to="">45, List of Diag- nostic Trouble Code (DTC).&gt;</ref.>	Finish the diagnosis.

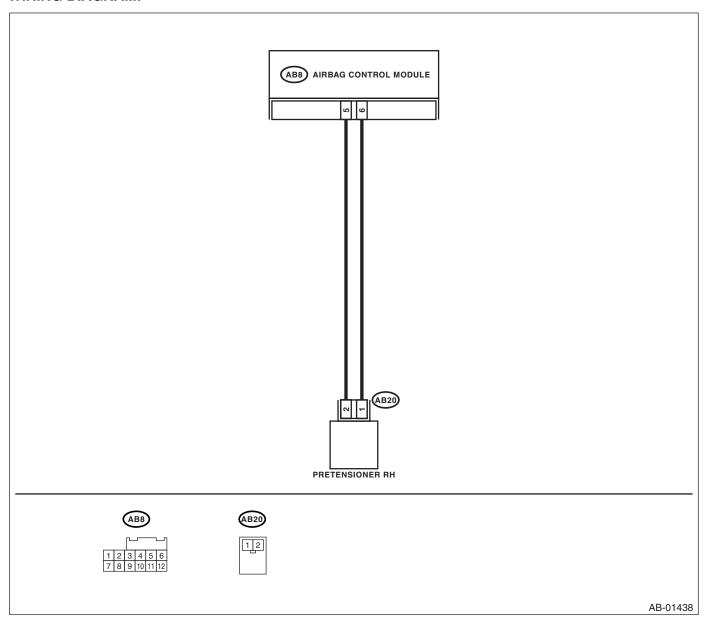
# **AH:DTC 65 BELT PRETENSIONER RH FAILURE**

# **DTC DETECTING CONDITION:**

- Seat belt pretensioner (RH) circuit is shorted to the power supply.
- Pretensioner is faulty.
- · Pretensioner harness is faulty.
- · Airbag control module is faulty.

#### **CAUTION:**

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



	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact?	Replace the side airbag harness	Go to step 2.
	Check the connector between airbag control module and seat belt pretensioner RH for poor contact.		with body harness.	
2	CHECK SEAT BELT PRETENSIONER.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Disconnect the connector (AB20) from seat belt pretensioner (RH).  3) Connect the connector (1N) in test harness N to connector (AB20).  4) Connect the airbag resistor to the connector (2N) in test harness N.  5) Connect the battery ground cable, and turn the ignition switch to ON.	Does the airbag warning light illuminate for 6 seconds then go off?	Replace the seat belt pretensioner (RH). <ref. sb-<br="" to="">10, Front Seat Belt.&gt;</ref.>	Go to step 3.
3	CHECK SIDE AIRBAG HARNESS (RH).  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than 20 seconds.  2) Disconnect the airbag resistor from the test harness.  3) Disconnect the connector (AB11) from side airbag module (RH).  4) Disconnect the connectors (AB7) and (AB8) from the airbag control module.  5) Connect the connector (1R) in test harness R to the connector (AB8).  6) Connect the battery ground cable, and turn the ignition switch to ON.  7) Measure the voltage between connector (3R) in test harness R and the chassis ground.  Connector & terminal  (3R) No. 17 (+) — Chassis ground (-):  (3R) No. 19 (+) — Chassis ground (-):	Is the voltage less than 1 V?	Go to step 4.	Replace the side airbag harness with body harness.
4	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors. 2) Erase the memory. 3) Perform the inspection mode. 4) Read out the DTC.	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 5.
5	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou- ble Code (DTC), check the DTC. <ref. ab(diag)-<br="" to="">45, List of Diag- nostic Trouble Code (DTC).&gt;</ref.>	Finish the diagnosis.

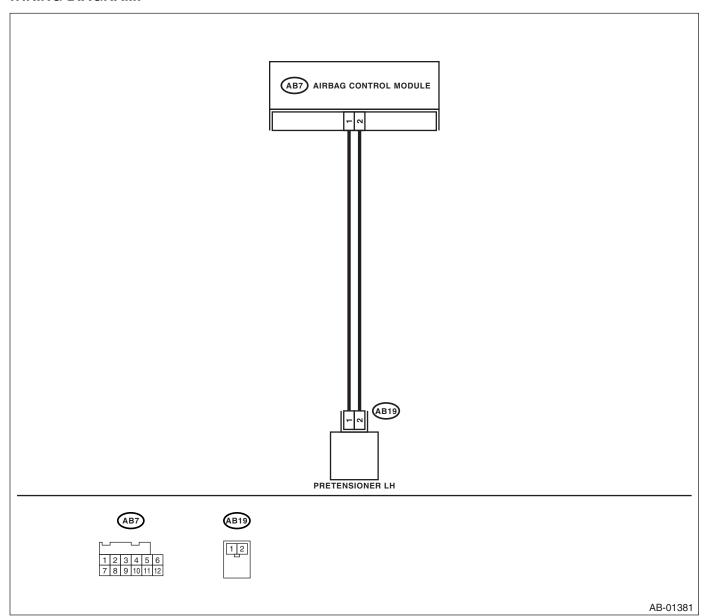
# **AI: DTC 66 BELT PRETENSIONER LH FAILURE**

### DTC DETECTING CONDITION:

- Seat belt pretensioner (LH) circuit is shorted to the power supply.
- Pretensioner is faulty.
- · Pretensioner harness is faulty.
- · Airbag control module is faulty.

#### **CAUTION:**

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



	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNEC-	Is there poor contact?	Replace the side	Go to step 2.
	TORS.		airbag harness	
	Check the connector between airbag control		with body harness.	
	module and seat belt pretensioner LH for poor contact.			
2	CHECK SEAT BELT PRETENSIONER.	Does the airbag warning light	Replace the seat	Go to step 3.
	Turn the ignition switch to OFF, disconnect	illuminate for 6 seconds then	belt pretensioner	do to stop <b>c</b> i
	the battery ground cable, and wait more than	go off?	(LH). <ref. sb-<="" th="" to=""><th></th></ref.>	
	20 seconds.		10, Front Seat	
	2) Disconnect the connector (AB19) from seat		Belt.>	
	belt pretensioner (LH). 3) Connect the connector (1N) in test harness			
	N to connector (AB19).			
	4) Connect the airbag resistor to the connec-			
	tor (2N) in test harness N.			
	5) Connect the battery ground cable, and turn			
_	the ignition switch to ON.	Le the velte as less than 1 1/2	Co to oton 4	Dania a stancida
3	CHECK SIDE AIRBAG HARNESS (LH).  1) Turn the ignition switch to OFF, disconnect	Is the voltage less than 1 V?	Go to step 4.	Replace the side airbag harness
	the battery ground cable, and wait more than			with body harness.
	20 seconds.			,
	2) Disconnect the airbag resistor from the test			
	harness.			
	<ol> <li>Disconnect the connector (AB9) from side airbag module (LH).</li> </ol>			
	Disconnect the connectors (AB7) and			
	(AB8) from the airbag control module.			
	5) Connect the connector (1R) in test harness			
	R to the connector (AB7).			
	<ol><li>Connect the battery ground cable, and turn the ignition switch to ON.</li></ol>			
	7) Measure the voltage between connector			
	(3R) in test harness R and the chassis ground.			
	Connector & terminal			
	(3R) No. 11 (+) — Chassis ground (−):			
<u> </u>	(3R) No. 13 (+) — Chassis ground (-):	DT0 " ' '	<u> </u>	
4	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors.	Is the same DTC displayed?	Replace the airbag control module.	Go to step 5.
	Connect all connectors.     Erase the memory.		<ref. ab-18,<="" td="" to=""><td></td></ref.>	
	Perform the inspection mode.		Airbag Control	
	4) Read out the DTC.		Module.>	
5	CHECK FOR ANY OTHER DTC ON DIS-	Is any other DTC displayed?	Using the List of	Finish the diagno-
	PLAY.		Diagnostic Trou-	sis.
			ble Code (DTC), check the DTC.	
			<ref. ab(diag)-<="" td="" to=""><td></td></ref.>	
			45, List of Diag-	
			nostic Trouble	
			Code (DTC).>	

# AJ:DTC 71 DRIVER'S AIRBAG FAILURE

# **DTC DETECTING CONDITION:**

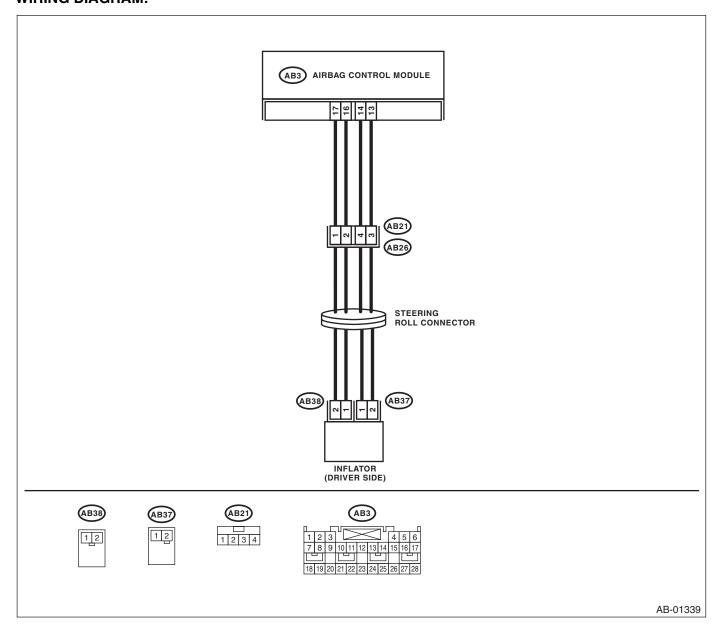
- Airbag main harness circuit is open, shorted or shorted to ground.
- Airbag module harness (Driver) circuit is open, shorted or shorted to ground.
- Roll connector circuit is open, shorted or shorted to ground.
- Driver's airbag module is faulty.
- · Airbag control module is faulty.

#### **CAUTION:**

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module and the 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, and seat belt pretensioner for safety reasons.

#### NOTE

Prior to work, prepare two airbag resistors (98299PA040).



	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNEC-	Is there poor contact?	Replace the airbag	Go to step 2.
	TORS.		main harness with	
	Check the connector between airbag control		body harness.	
	module and driver's airbag module for poor			
	contact.			
2	CHECK DRIVER'S AIRBAG MODULE.	Does the airbag warning light	Replace the	Go to step 3.
	Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than	illuminate for 6 seconds then go off?	driver's airbag module. <ref. th="" to<=""><th></th></ref.>	
	20 seconds.	go on :	AB-14, Driver's	
	Remove the driver's airbag module.		Airbag Module.>	
	3) Connect the connector (1N) in test harness		3	
	N to connector (AB38).			
	4) Connect the airbag resistor to the connec-			
	tor (2N) in test harness N.			
	5) Connect the connector (1Q) in test harness			
	Q to connector (AB 37).			
	6) Connect the airbag resistor to connector (2Q) in test harness Q.			
	7) Connect the battery ground cable, and turn			
	the ignition switch to ON.			
3	CHECK ROLL CONNECTOR.	Does the airbag warning light	Replace the roll	Go to step 4.
	1) Turn the ignition switch to OFF, disconnect	illuminate for 6 seconds then	connector. <ref. td="" to<=""><td></td></ref.>	
	the battery ground cable, and wait more than	go off?	AB-20, Roll Con-	
	20 seconds.		nector.>	
	2) Disconnect the test harness N from con-			
	nector (AB38).  3) Disconnect the test harness Q from con-			
	nector (AB37).			
	4) Remove the instrument panel lower cover			
	and disconnect the connector (AB26) from			
	(AB21).			
	5) Connect the connector (1P) in test harness			
	P to connector (AB21).			
	6) Connect the airbag resistor to connectors (2P) and (3P) in test harness P.			
	7) Connect the battery ground cable, and turn			
	the ignition switch to ON.			
4	CHECK AIRBAG MAIN HARNESS (DRIV-	Is the resistance less than 10	Go to step 5.	Replace the airbag
	ER'S AIRBAG HARNESS).	$\Omega$ ?		main harness with
	1) Turn the ignition switch to OFF, disconnect			body harness.
	the battery ground cable, and wait more than			
	<ul><li>20 seconds.</li><li>2) Disconnect the airbag resistor from con-</li></ul>			
	nectors (2P) and (3P) in test harness P.			
	3) Remove the instrument panel side cover on			
	passenger side, and disconnect the connec-			
	tors (AB4) and (AB27).			
	4) Disconnect the connector (AB3) from the			
	airbag control module, and connect the con-			
	nector (1R) in test harness U.			
	5) Measure the resistance between connector (2R) in test harness R and connectors (2P)			
	and (3P) in test harness P.			
	Connector & terminal			
	(2R) No. 2 — (2P) No. 1:			
	(2R) No. 4 — (2P) No. 2:			
	(2R) No. 8 — (3P) No. 3:			
	(2R) No. 12 — (3P) No. 3:			

# Diagnostic Chart with Trouble Code AIRBAG SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
5	CHECK AIRBAG MAIN HARNESS (DRIVER'S AIRBAG HARNESS).  Measure the resistance between connector (2R) terminals in test harness R, and between connector (2R) and chassis ground.  Connector & terminal  (2R) No. 2 — (2R) No. 4:  (2R) No. 4 — Chassis ground:  (2R) No. 8 — (2R) No. 12:  (2R) No. 8 — Chassis ground:  (2R) No. 12 — Chassis ground:  (2R) No. 12 — Chassis ground:  (2R) No. 2 — (2R) No. 12:  (2R) No. 2 — (2R) No. 8:  (2R) No. 2 — (2R) No. 12:  (2R) No. 4 — (2R) No. 8:  (2R) No. 4 — (2R) No. 8:	Is the resistance more than 1 $\mbox{M}\Omega\mbox{?}$	Go to step 6.	Replace the airbag main harness with body harness.
6	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors.  2) Erase the memory.  3) Perform the inspection mode.  4) Read out the DTC.	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 7.
7	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou- ble Code (DTC), check the DTC. <ref. ab(diag)-<br="" to="">45, List of Diag- nostic Trouble Code (DTC).&gt;</ref.>	Finish the diagnosis.

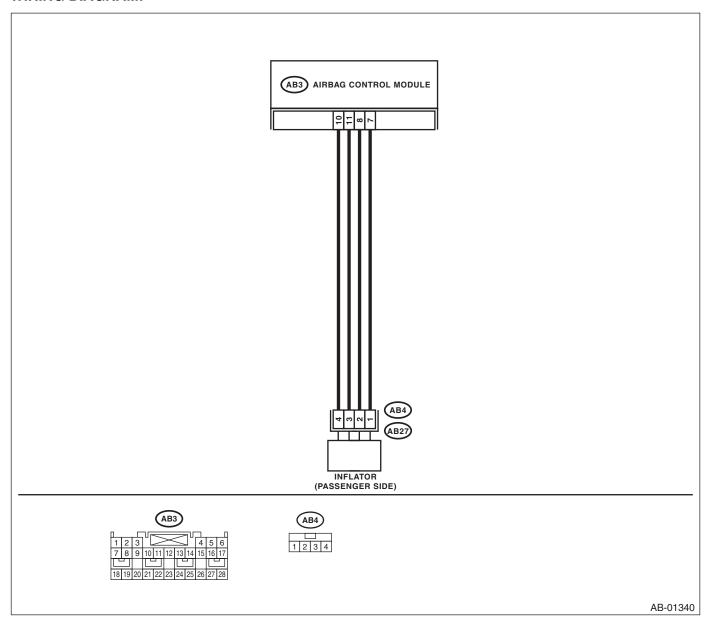
# **AK:DTC 72 PASSENGER'S AIRBAG FAILURE**

# **DTC DETECTING CONDITION:**

- Airbag harness is open, shorted or shorted to ground.
- Airbag module (Passenger) circuit is open, shorted or shorted to ground.
- · Airbag control module is faulty.
- Passenger's airbag module is faulty.

#### **CAUTION:**

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



	Step	Check	Yes	No
1 (	CHECK POOR CONTACT OF CONNEC-	Is there poor contact?	Replace the airbag	Go to step 2.
1	TORS.	·	main harness with	•
	Check the connector between airbag control		body harness.	
	module and passenger's airbag module for			
	poor contact.			
2 (	CHECK PASSENGER'S AIRBAG MODULE.	Does the airbag warning light	Replace the pas-	Go to step 3.
-	1) Turn the ignition switch to OFF, disconnect	illuminate for 6 seconds then	senger's airbag	-
t	the ground cable from battery, and wait for	go off?	module. <ref. th="" to<=""><th></th></ref.>	
r	more than 20 seconds before starting work.		AB-15, Passen-	
	2) Remove the glove box.		ger's Airbag Mod-	
	3) Disconnect the connector of passenger's		ule.>	
	airbag module from (AB4).			
	4) Connect the connector (1P) in test harness			
	P to connector (AB4).			
	5) Connect the two airbag resistors to connec-			
	tors (2P) and (3P) in test harness P.			
	6) Connect the battery ground cable, and turn			
	the ignition switch to ON.		_	
	CHECK AIRBAG MAIN HARNESS.	Is the resistance less than 10	Go to step 4.	Replace the airbag
	1) Turn the ignition switch to OFF, disconnect	Ω?		main harness with
	the ground cable from battery, and wait for			body harness.
	more than 20 seconds before starting work.			
	2) Disconnect the two airbag resistors from			
	connectors (2P) and (3P) in test harness P.  3) Remove the lower cover and disconnect the			
	connector (AB26) from (AB21).			
	4) Disconnect the connector (AB3) from the			
	airbag control module, and connect the con-			
	nector (1R) in test harness R.			
	5) Measure the resistance between connector			
	(2R) in test harness R and the connectors (2P)			
	(3P) in test harness P.			
	Connector & terminal			
	(2R) No. 9 — (3P) No. 3:			
	(2R) No. 13 — (3P) No. 4:			
	(2R) No. 3 — (2P) No. 2:			
	(2R) No. 5 — (2P) No. 1:			
	CHECK AIRBAG MAIN HARNESS.	Is the resistance more than 1	Go to step 5.	Replace the airbag
	Measure the resistance in the connector (2R)	ΜΩ?		main harness with
i	n test harness R.			body harness.
	Connector & terminal			
	(2R) No. 9 — (2R) No. 13: (2R) No. 9 — Chassis ground:			
	(2R) No. 13 — Chassis ground: (2R) No. 13 — Chassis ground:			
	(2R) No. 3 — (2R) No. 5:			
	(2R) No. 3 — (2R) No. 5. (2R) No. 3 — Chassis ground:			
	(2R) No. 5 — Chassis ground:			
	(2R) No. 3 — (2R) No. 9:			
	(2R) No. 3 — (2R) No. 13:			
	(2R) No. 5 — (2R) No. 9:			
	(2R) No. 5 — (2R) No. 13:			
5 (	CHECK AIRBAG CONTROL MODULE.	Is the same DTC displayed?	Replace the airbag	Go to step 6.
	Connect all connectors.		control module.	
	2) Erase the memory.		<ref. ab-18,<="" th="" to=""><th></th></ref.>	
	3) Perform the inspection mode.		Airbag Control	
	A) Read out the DTC.		Module.>	

# Diagnostic Chart with Trouble Code AIRBAG SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
6	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou- ble Code (DTC), check the DTC. <ref. ab(diag)-<br="" to="">45, List of Diag- nostic Trouble Code (DTC).&gt;</ref.>	Finish the diagnosis.

# AL:DTC 75 DRIVER'S AIRBAG FAILURE

# **DTC DETECTING CONDITION:**

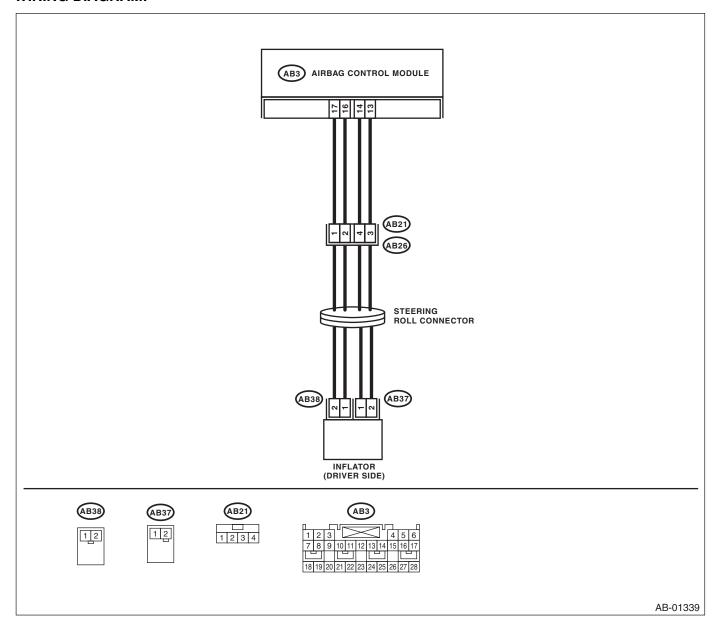
- Airbag main harness circuit (Driver) is shorted to the power supply.
- Airbag module harness (Driver) is shorted to the power supply.
- Roll connector is shorted to the power supply.
- Driver's airbag module is faulty.
- · Airbag control module is faulty.

#### **CAUTION:**

- Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait more than 20 seconds before starting to work.
- Before replacing the airbag module, seat belt pretensioner, roll connector, control module and the 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, and seat belt pretensioner for safety reasons.

#### NOTE

Prior to work, prepare two airbag resistors (98299PA040).



	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNEC-	Is there poor contact?	Replace the airbag	Go to step 2.
	TORS.		main harness with	
	Check the connector between airbag control		body harness.	
	module and driver's airbag module for poor			
	contact.		5	
2	CHECK DRIVER'S AIRBAG MODULE.	Does the airbag warning light	Replace the	Go to step 3.
	<ol> <li>Turn the ignition switch to OFF, disconnect the battery ground cable, and wait more than</li> </ol>	illuminate for 6 seconds then go off?	driver's airbag module. <ref. td="" to<=""><td></td></ref.>	
	20 seconds.	go on:	AB-14, Driver's	
	<ol> <li>Remove the driver's airbag module.</li> </ol>		Airbag Module.>	
	3) Connect the connector (AB 38) to connec-		J 3	
	tor (1N) in test harness N.			
	<ol><li>Connect the airbag resistor to the connec-</li></ol>			
	tor (2N) in test harness N.			
	5) Connect the connector (1Q) in test harness			
	Q to connector (AB 37). 6) Connect the airbag resistor to connector			
	(2Q) in test harness Q.			
	7) Connect the battery ground cable, and turn			
	the ignition switch to ON.			
3	CHECK ROLL CONNECTOR.	Does the airbag warning light	Replace the roll	Go to step 4.
	1) Turn the ignition switch to OFF, disconnect	illuminate for 6 seconds then	connector. <ref. td="" to<=""><td>'</td></ref.>	'
	the battery ground cable, and wait more than	go off?	AB-20, Roll Con-	
	20 seconds.		nector.>	
	2) Disconnect the test harness N from con-			
	nector (AB38).			
	<ol> <li>Disconnect the test harness Q from connector (AB37).</li> </ol>			
	Remove the instrument panel lower cover			
	and disconnect the connector (AB26) from			
	(AB21).			
	5) Connect the connector (1P) in test harness			
	P to connector (AB21).			
	6) Connect the airbag resistor to connectors			
	<ul><li>(2P) and (3P) in test harness P.</li><li>7) Connect the battery ground cable, and turn</li></ul>			
	the ignition switch to ON.			
4	CHECK AIRBAG MAIN HARNESS (DRIV-	Is the voltage less than 1 V?	Go to step 5.	Replace the airbag
	ER'S AIRBAG HARNESS).	is the relage loop than 1 v:	5.0 to 5top <b>5.</b>	main harness with
	Turn the ignition switch to OFF, disconnect			body harness.
	the battery ground cable, and wait more than			
	20 seconds.			
	2) Disconnect the airbag resistor from con-			
	nectors (2P) and (3P) in test harness P.  3) Remove the instrument panel side cover on			
	passenger side, and disconnect the connec-			
	tors (AB4) and (AB27).			
	4) Disconnect the connector (AB6) from the			
	airbag control module, and connect the con-			
	nector (1R) in test harness R.			
	5) Connect the battery ground cable, and turn			
	the ignition switch to ON. (engine OFF)			
	6) Measure the voltage between connector			
	(2R) in test harness R and chassis ground.  Connector & terminal			
	(2R) No. 4 — Chassis ground (–):			
	(2R) No. 2 — Chassis ground (–):			
	(2R) No. 8 — Chassis ground (−):			
	(2R) No. 12 — Chassis ground (-):			

# Diagnostic Chart with Trouble Code AIRBAG SYSTEM (DIAGNOSTICS)

	Step	Check	Yes	No
5	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors.  2) Erase the memory.  3) Perform the inspection mode.  4) Read out the DTC.	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 6.
6	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou- ble Code (DTC), check the DTC. <ref. ab(diag)-<br="" to="">45, List of Diag- nostic Trouble Code (DTC).&gt;</ref.>	Finish the diagnosis.

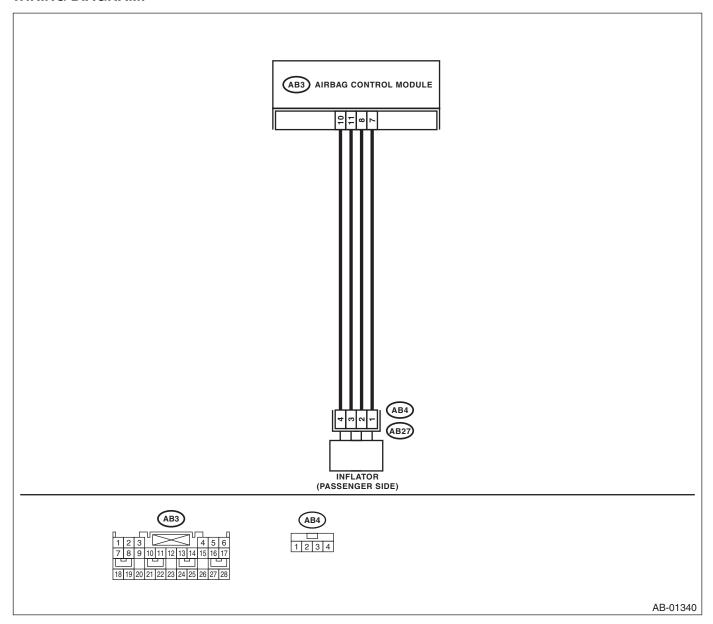
# **AM:DTC 76 PASSENGER'S AIRBAG FAILURE**

# **DTC DETECTING CONDITION:**

- Airbag main harness (Passenger) is shorted to the power supply.
- Airbag module harness (Passenger) is shorted to the power supply.
- · Airbag control module is faulty.
- Passenger's airbag module is faulty.

#### **CAUTION:**

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



	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNECTORS.  Check the connector between airbag control module and passenger's airbag module for poor contact.	Is there poor contact?	Replace the airbag main harness with body harness.	Go to step 2.
2	CHECK PASSENGER'S AIRBAG MODULE.  1) Turn the ignition switch to OFF, disconnect the ground cable from battery, and wait for more than 20 seconds before starting work.  2) Remove the glove box.  3) Disconnect the connector (AB4) from passenger's airbag module.  4) Connect the connector (1P) in test harness P to connector (AB4).  5) Connect the two airbag resistors to connectors (2P) and (3P) in test harness P.  6) Connect the battery ground cable, and turn the ignition switch to ON.	Does the airbag warning light illuminate for 6 seconds then go off?	Replace the pas- senger's airbag module. <ref. to<br="">AB-15, Passen- ger's Airbag Mod- ule.&gt;</ref.>	Go to step 3.
3	CHECK AIRBAG MAIN HARNESS.  1) Turn the ignition switch to OFF, disconnect the ground cable from battery, and wait for more than 20 seconds before starting work.  2) Disconnect the two airbag resistors from connectors (2P) and (3P) in test harness P.  3) Remove the lower cover and disconnect the connector (AB21) from (AB26).  4) Disconnect the connector (AB3) from the airbag control module, and connect the connector (1R) in test harness R.  5) Connect the battery ground cable, and turn the ignition switch to ON.  6) Measure the voltage between connector (2R) in test harness R and chassis ground.  Connector & terminal  (2R) No. 9 (+) — Chassis ground (-):  (2R) No. 13 (+) — Chassis ground (-):  (2R) No. 5 (+) — Chassis ground (-):	Is the voltage less than 1 V?	Go to step 4.	Replace the airbag main harness with body harness.
4	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors.  2) Erase the memory.  3) Perform the inspection mode.  4) Read out the DTC.	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-18,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 5.
5	CHECK FOR ANY OTHER DTC ON DIS- PLAY.	Is any other DTC displayed?	Using the List of Diagnostic Trou- ble Code (DTC), check the DTC. <ref. ab(diag)-<br="" to="">45, List of Diag- nostic Trouble Code (DTC).&gt;</ref.>	Finish the diagnosis.