Brought to you by Eris Studios
NOT FOR RESALE

## AIRBAG SYSTEM (DIAGNOSTICS)

#### 1. Basic Diagnostic Procedure

#### A: PROCEDURE

AIRE	Basic Diaç BAG SYSTEM (DIAGNOSTICS)	gnostic Procedure	to you		_
	Basic Diagnostic Procedure PROCEDURE	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	T FOR R	V Eris Stu ESALF	<sup>Id</sup> ios
	Step	Check	Yes	No	1
1	CHECK AIRBAG WARNING LIGHT. Turn the ignition switch to ON.	Does airbag warning light illuminate?	Go to step 2.	<ref. ab(diag)-<br="" to="">37, Airbag Warning Light Failure.&gt;Go to "Airbag Warning Light Failure".</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 DIAGNOSIS.  1) Judge the possible cause from "List of Diagnostic Trouble Code". <ref. (dtc).="" ab(diag)-43,="" code="" diagnostic="" list="" of="" to="" trouble="">  2) Inspect the DTC using "List of Diagnostic Trouble Code (DTC)".  3) Repair the trouble cause.  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 other DTCs displayed.</ref.></ref.></ref.>		Perform the procedure 1) to 5) in step 3.	_	

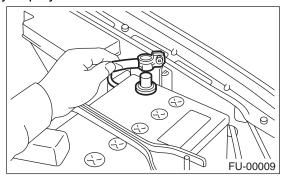
#### 2. Check List for Interview

#### A: CHECK

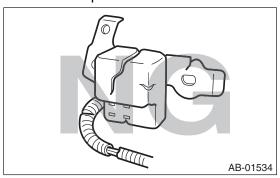
		AIRBA	G SYSTEM (DIAGNOSTICS)
2. Check List for A: CHECK	Interview	NOTE	G SYSTEM (DIAGNOSTICS) OR RESALE
Customer's name		Inspector's name	
Date vehicle brought in	/ /	Registration No.	
Odometer reading	km miles	V.I.N.	
Date problem occurred	/ /	Registration year	/ /
Weather	Fine Cloudy Rainy Snowy Others:		
Temperature		°C ( °F)	
Road condition	☐ Flat road ☐ Uphill ☐ Downhill ☐ Gravel road ☐ Others:		
Vehicle operation	Starting Idling Constant speed Accelerating Decelerating Turning Others:		
Details of problem			
Airbag warning light operation	Normal (After turning the igr Remains ON Remains OFF	nition switch to ON, lit for approxir	mately 6 seconds and goes off.)
DTC output	OK code DTC: (Code:	)	

## 3. General Description A: CAUTION

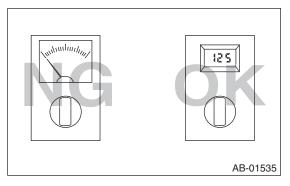
- When servicing a vehicle, be sure to turn the ignition switch to OFF, disconnect the ground cable from battery, and wait for 20 seconds or more before starting work.
- The airbag system is fitted with a backup power source. If the airbag system is serviced within 20 seconds after the ground cable is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



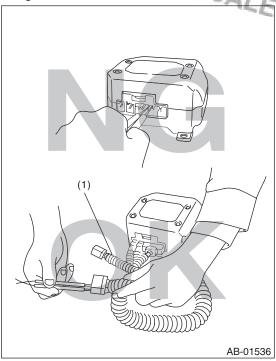
• If sensors, airbag module, airbag control module, pretensioner or harness is deformed or damaged, replace with new parts.



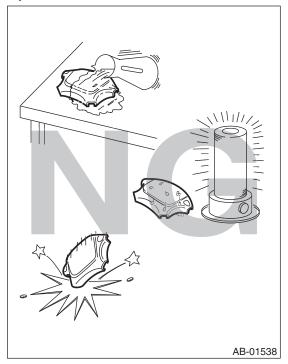
- Do not use the airbag system and pretensioners on other vehicles. When replacing parts, be sure to replace them with new parts.
- When checking the airbag system, be sure to use a digital circuit tester. Use of an analog circuit tester may cause the airbag to activate erroneously.



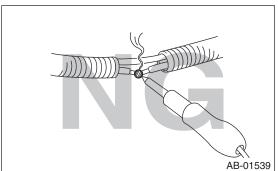
When checking, use a test harness (1). Do not directly apply the tester probe to connector terminal of airbag.



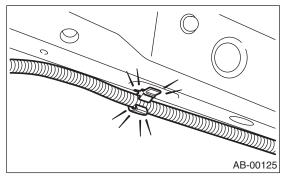
• Do not drop the airbag module parts, subject them to high temperature of 93°C (199°F) or more, or let water, oil or grease get on them; otherwise, the internal parts may be damaged and reliability greatly lowered.



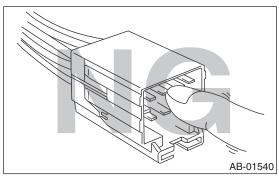
 If damage, open circuit or rust is found on airbag system wiring harness, do not use solder to repair. Replace the faulty harness with a new genuine part.



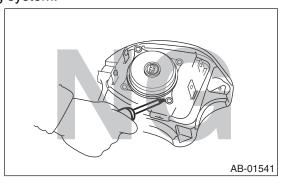
 Install the wiring harness securely with the specified clips to avoid interference or tangled with other parts.



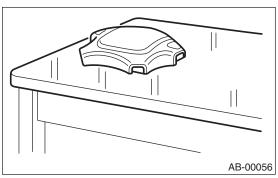
Do not allow water or oil to come in contact with the connector terminals. Also, do not touch the connector terminals.



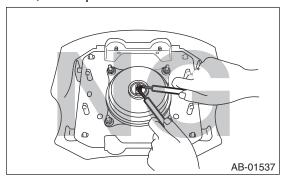
· Do not disassemble the airbag modules on the Driver's side, passengers side, or for the side airbag system.



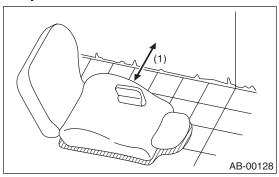
- · The airbag module cannot be used again if deployed once.
- After removal, keep the airbag module with the pad facing upward on a dry, clean, and flat surface away from heat and light sources, and moisture and dust.



· Do not check continuity of the airbag modules on the driver's side, passenger's side, side airbag modules, or the pretensioner.



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

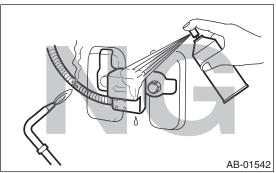


(1) 200 mm (8 in) or more

 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 wiring harness of airbag system.

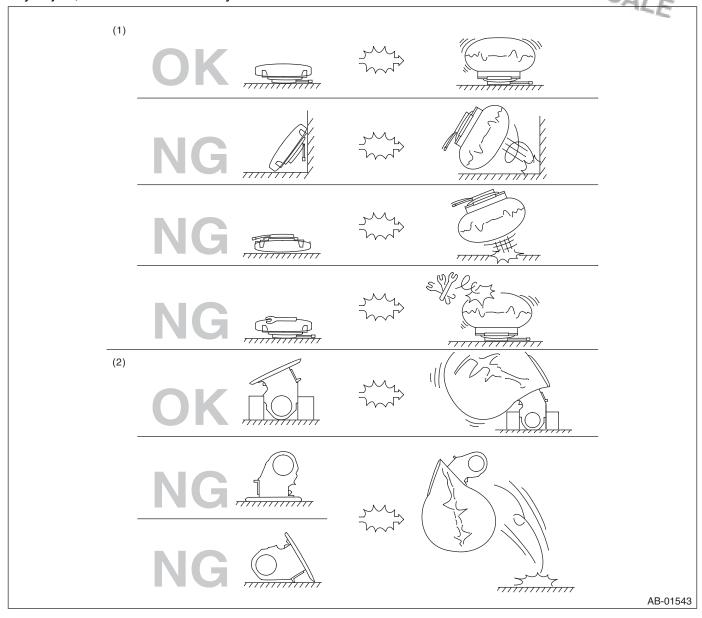
Reneral Description you by Eris Studios

NOT FOR RESALE 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 wiring harness of the airbag system.



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

When storing a removed airbag module, do not place any objects on the module of stank thomas. The each other. If the airbag inflates for some reason when it is placed with its pad side facing downward or under the consideration assistant may result.



Driver's airbag module

(2) Passenger's 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 the electrolyte.

Standard voltage: 12 V

Specific gravity: 1.260 or more

#### AIRBAG SYSTEM (DIAGNOSTICS)

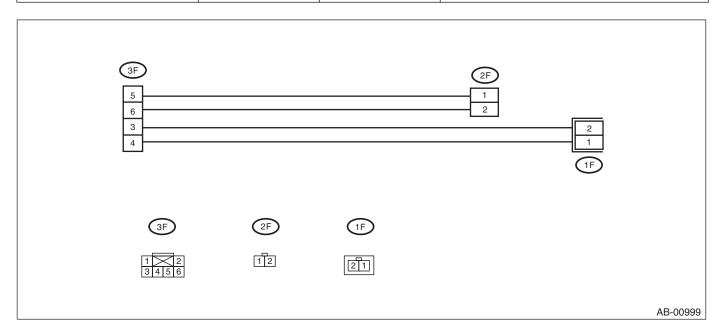
#### **C: PREPARATION TOOL**

#### 1. SPECIAL TOOL

General Description					
C: PREPARATION TOOL  1. SPECIAL TOOL  NOT FOR RESALE					
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS		
	1B020XU0	SUBARU SELECT MONITOR III	Used for troubleshooting the electrical system.		
ST1B020XU0					

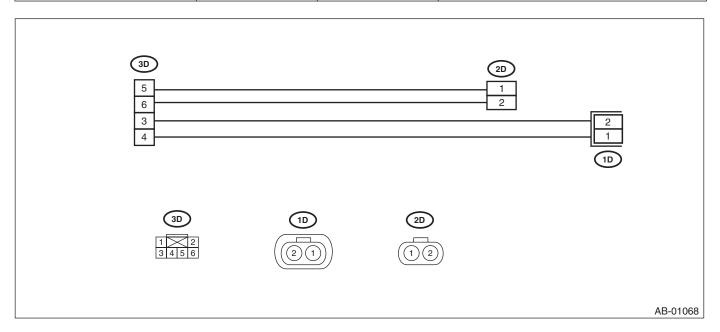
#### **TEST HARNESS F**

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	98299FC010	TEST HARNESS F	Used when measuring voltage and resistance of side airbag module harnesses.
3F 2F			
(1F) COMMIND			
ST98299FC010			



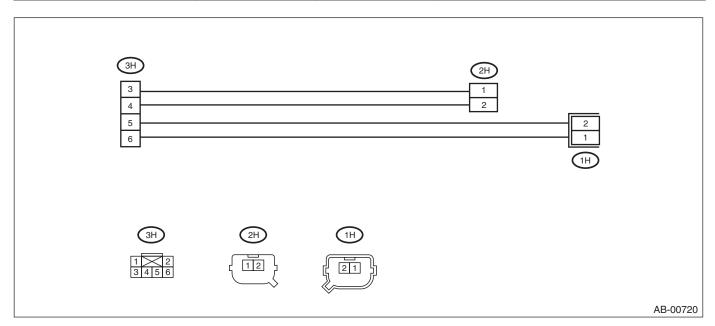
#### **TEST HARNESS D**

			AIRBAG SYSTEM (DIAGNOSTICS)	
TEST HARNESS D			NOT FOR DE Eris St.	
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS	dios
3D 2D	98299AG060	TEST HARNESS D	Used when measuring voltage and resistance of the front seat belt buckle switch.	
ST98299AG060				



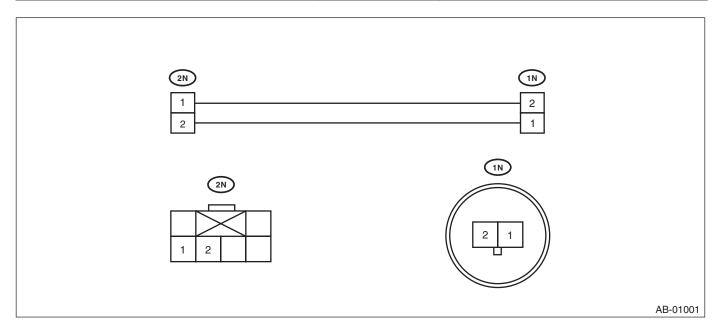
#### **TEST HARNESS H**

General Description on the second state of the					
TEST HARNESS H	TEST HARNESS H				
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS	dios	
2H (3H) (3H)	98299FA030	TEST HARNESS H	Used when measuring voltage and resistance of front sub sensor and seat position sensor.		
ST98299FA030	1				



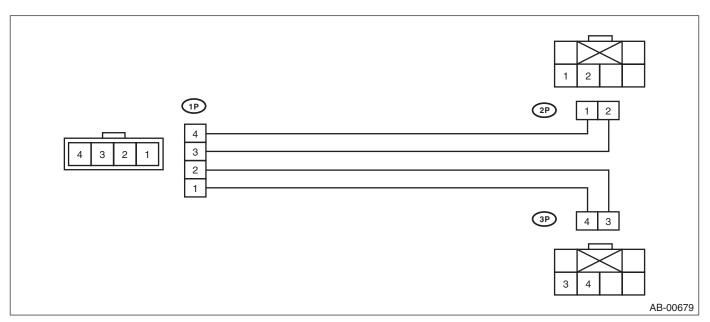
#### **TEST HARNESS N**

			AIRBAG SYSTEM (DIAGNOSTICS)	
TEST HARNESS N			NOT FOR DY Eris St.	
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS	dios
2N IN	98299SA000	TEST HARNESS N	Used when measuring voltage and resistance of driver's airbag module and seat belt pretensioner.	
ST98299SA000				



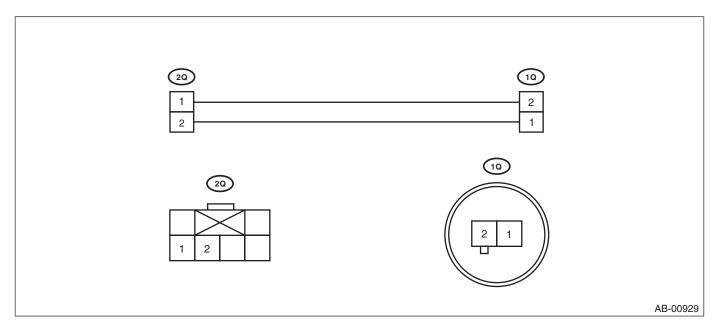
#### **TEST HARNESS P**

General Description of to Various (DIAGNOSTICS)					
TEST HARNESS P	TEST HARNESS P NOT FOR BY Eris S.				
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS SALES OF		
1P 3P ST98299SA020	98299SA020	TEST HARNESS P	Used when measuring voltage and resistance of driver's airbag module harness and passenger's airbag module harness.		



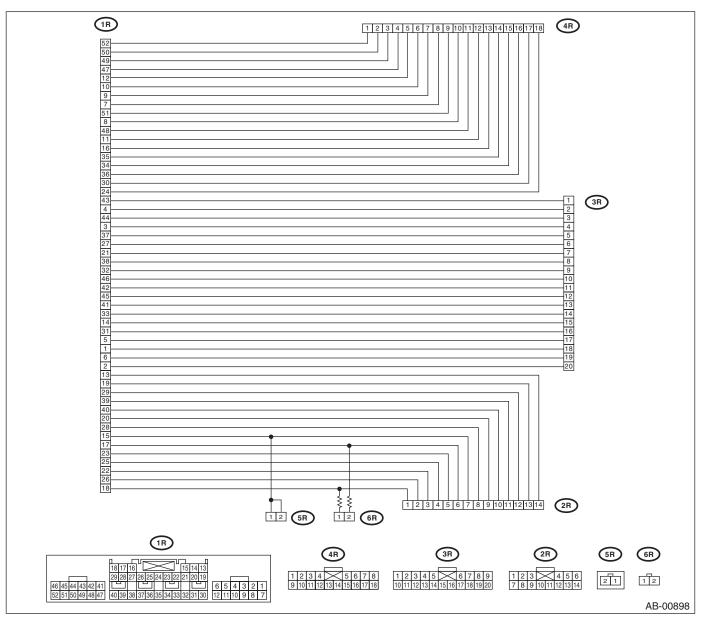
#### **TEST HARNESS Q**

			-11 DF - 0111
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
20	98299SA040	TEST HARNESS Q	Used when measuring voltage and resistance of driver's airbag module.
ST98299SA040			



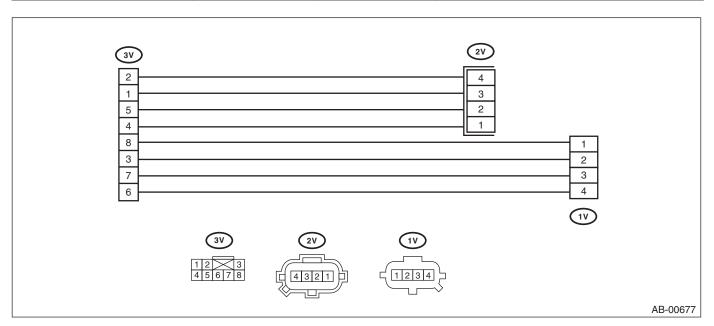
#### **TEST HARNESS R**

General Description ght to Value (DIAGNOSTICS)					
TEST HARNESS R	TEST HARNESS R				
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS	dios	
SR GR (R)	98299FE030	TEST HARNESS R	Used when measuring voltage and resistance of airbag control module.	103	
ST98299FE030					



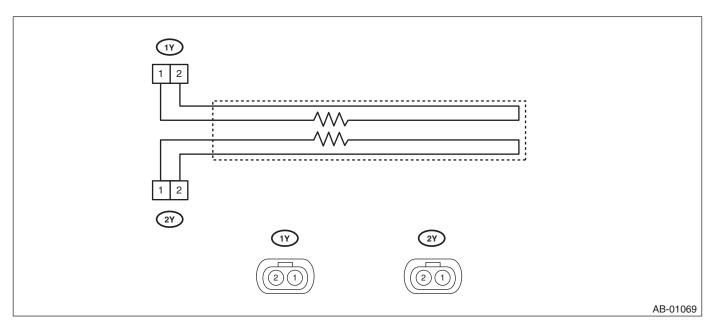
#### **TEST HARNESS V**

			AINDAG STSTEIN (DIAGNOSTICS)	_
TEST HARNESS V			NOT FOR DY Eris St.	
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS	dios
1V 3V 2V 2V	98299AG010	TEST HARNESS V	Used when measuring voltage and resistance of side airbag sensor.	
ST98299AG010				J



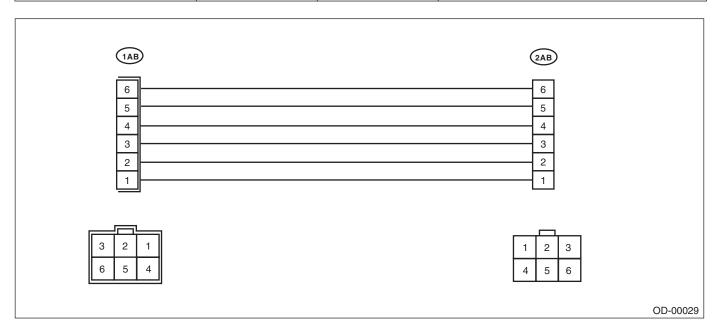
#### **TEST HARNESS Y**

General Description ght to Variables (DIAGNOSTICS)					
TEST HARNESS Y	TEST HARNESS Y				
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS	dios	
17	98299AG040	TEST HARNESS Y	Used for diagnosing seat belt buckle switch and seat position sensor.	.03	
ST98299AG040					



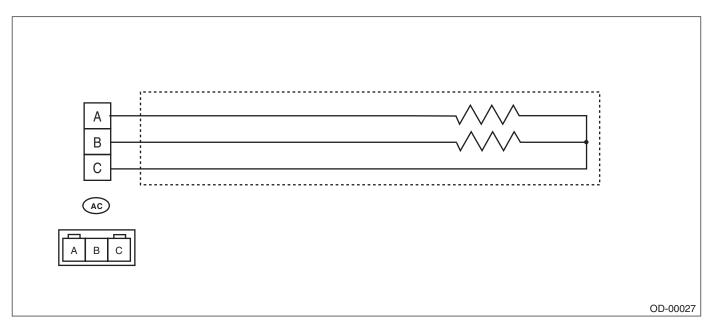
#### **TEST HARNESS AB**

			THE RESERVE AND A STREET
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	98299XA000	TEST HARNESS AB	Used when measuring voltage and resistance of occupant detection system.
ST98299XA000			



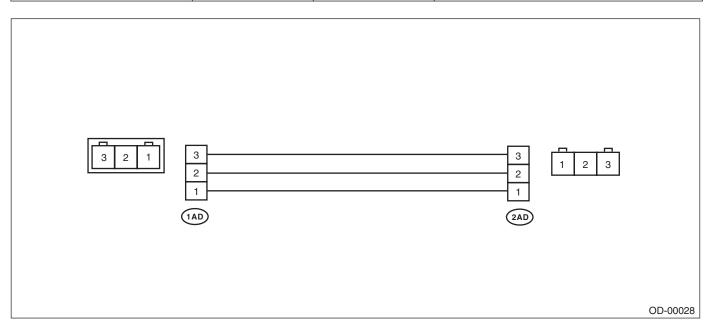
#### **TEST HARNESS AC**

General Description							
TEST HARNESS AC			NOT FOR DY Eris St.				
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS Color diagnosing and holt tonging papers	le.			
	98299XA010	TEST HARNESS AC	Used for diagnosing seat belt tension sensor.	3			
ST98299XA010							



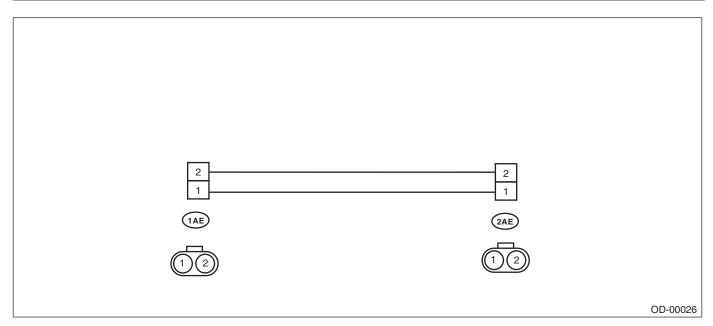
#### **TEST HARNESS AD**

			THE REAL PROPERTY AND A STREET
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	98299XA020	TEST HARNESS AD	Used when measuring voltage and resistance of the seat belt tension sensor.
ST98299XA020			



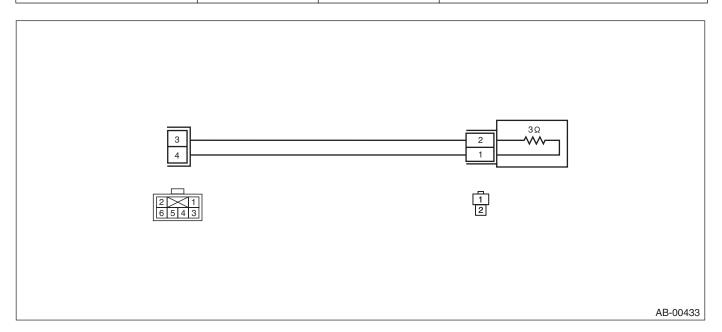
#### **TEST HARNESS AE**

General Description							
TEST HARNESS AE	TEST HARNESS AE						
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS	dina			
	98299XA030	TEST HARNESS AE	<ul> <li>Used for diagnosing seat belt tension sensor.</li> <li>Used together with the test harness Y.</li> </ul>	-03			
ST98299XA030							



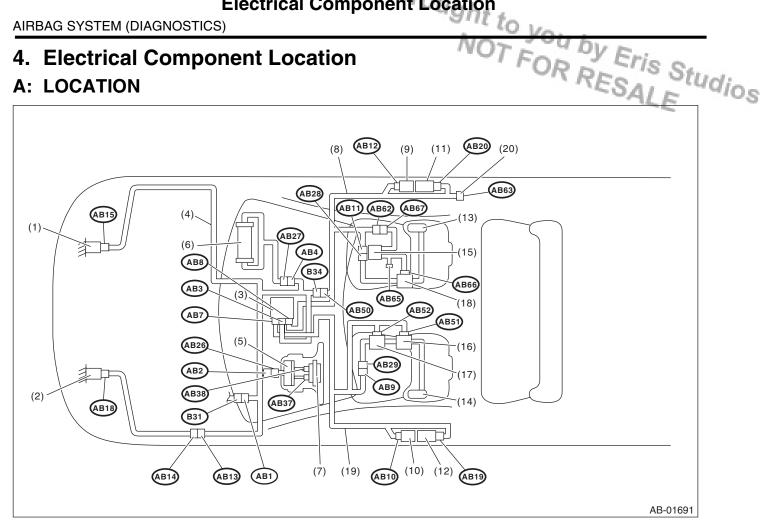
#### **AIRBAG RESISTOR**

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		-	AIRBAG SYSTEM (DIAGNOSTICS)	)
AIRBAG RESISTOR			NOT FOR DY Eris St.	_
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS	dios
	98299PA040	AIRBAG RESISTOR	Used in replacement of airbag module for 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
- (4) Airbag main harness
- (5) Roll connector
- Passenger's airbag module (6)
- (7) Driver's airbag module

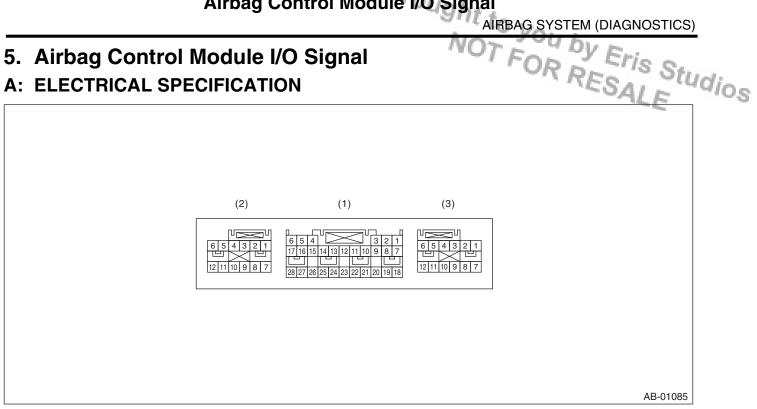
- Airbag rear harness (RH) (8)
- (9)Side airbag sensor (RH)
- (10)Side airbag sensor (LH)
- (11)Seat belt pretensioner (RH)
- (12)Seat belt pretensioner (LH) Side airbag module (RH) (13)
- (14)Side airbag module (LH)

- (15)Occupant detection control module
- (16)Buckle switch (LH)
- (17)Seat position sensor
- (18)Buckle switch (RH)
- (19)Airbag rear harness (LH)
- (20)Belt tension sensor

Connector No.	(AB1)	(AB2)	(AB3)	(AB4)	(AB7)	(AB8)	(AB9)	(AB10)	(AB11)	(AB12)	(AB13)	(AB14)
Pin	8	4	28	4	12	12	2	4	2	4	2	2
Color	White	Yellow										
Male/Female	Female	Male										
Connector No.	(AB15)	(AB18)	(AB19)	(AB20)	(AB26)	(AB27)	(AB28)	(AB29)	(AB37)	(AB38)	(AB51)	(AB52)
Pin	2	2	2	2	4	4	2	2	2	2	2	2
Color	Yellow	Yellow	Black	Black	Yellow	Yellow	Yellow	Yellow	Orange	Black	Yellow	Yellow
Male/Female	Female	Female	Female	Female	Male	Male	Male	Male	Female	Female	Female	Female
Connector No.	(AB62)	(AB63)	(AB65)	(AB66)	(AB67)	_	_	_	_	_	_	_
Pin	6	3	3	2	6	_	_	_	_	_	_	_
Color	Gray	Brown	Gray	Black	Gray	_	_	_	_	_	_	_
Male/Female	Female	Female	Female	Female	Male	_	_	_	_	_	_	_

#### 5. Airbag Control Module I/O Signal

#### A: ELECTRICAL SPECIFICATION



- Terminal numbers in airbag control module connector are shown in the figure.
- Airbag warning light illuminates when the connector is removed from airbag control module with the ignition switch set to ON.

## Airbag Control Module I/O Signal

#### AIRBAG SYSTEM (DIAGNOSTICS)

	/\(C	)T = UDV F
Item		Control module terminal No.
Data link connector		(1)-12
Combination meter		(1) - 3
Battery power supply	Common use fuse	(1) - 6
	Dedicated fuse	(1) - 5
Passenger's airbag module level one	+	(1) - 10
	_	(1) - 11
Passenger's airbag module level two	+	(1) - 8
	_	(1) - 7
Driver's airbag module level one	+	(1) - 14
	_	(1) - 13
Driver's airbag module level two	+	(1) - 16
	_	(1) - 17
Front sub sensor LH	Power supply and communication	(1) - 15
	GND	(1) - 26
Front sub sensor RH	Power supply and communication	(1) - 9
	GND	(1) - 20
Ground line (GND)		(1) - 27
		(1) - 28
Passenger's airbag OFF indicator		(1) - 1
Passenger's airbag ON indicator		(1) - 18
Seat belt buckle switch LH	+	(2) - 11
	_	(2) - 8
Seat position sensor LH	+	(2) - 3
·	_	(2) - 4
Seat belt pretensioner LH	+	(2) - 2
•	_	(2) - 1
Side airbag sensor LH	Power supply and communication	
•	GND	<u> </u>
	+	• •
	_	· ·
Side airbag module LH	+	
, and the second	_	
Seat belt pretensioner RH	+	
•	_	
Side airbag sensor RH	Power supply and communication	• •
		• •
	_	
Side airbag module RH		
C.S. S. Sug Modelo I II I		
Occupant detection control module		• •
Cocapant dotoctor control modulo		• •
Side airbag sensor LH  Side airbag module LH  Seat belt pretensioner RH  Side airbag sensor RH  Side airbag module RH  Occupant detection control module	+ - + - + - Power supply and communication GND +	(2) - 1 (2) - 7 (2) - 9 (2) - 10 (2) - 12 (2) - 6 (2) - 5 (3) - 5 (3) - 6 (3) - 12 (3) - 10 (3) - 9 (3) - 7 (3) - 1 (3) - 2 (3) - 11 (3) - 2

#### **B: WIRING DIAGRAM**

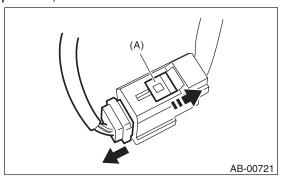
Refer to the WI section wiring diagram. <Ref. to WI-97, WIRING DIAGRAM, Airbag System.>

#### 6. Airbag Connector

#### A: PROCEDURE

#### 1. BUCKLE SWITCH & OCCUPANT DETECTION CONTROL MODULE

- 1) How to disconnect
  - (1) Move the slide lock (A) in the direction of ar-
  - (2) While holding the slide lock (A) in the moved position, disconnect the connector.

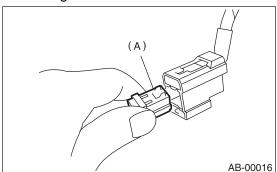


#### **CAUTION:**

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

2) How to connect

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

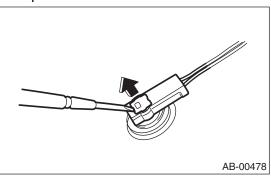


#### **CAUTION:**

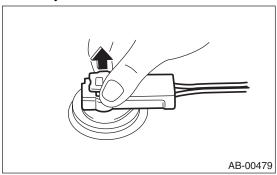
Be sure to insert the connector in until it is locked. Then pull it gently to make sure that it is locked.

#### 2. DRIVER'S AIRBAG MODULE AND **PRETENSIONER**

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



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

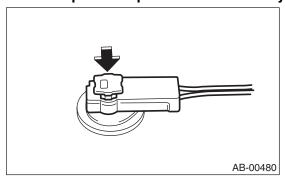


#### 2) How to connect

Connect the connector in the reverse order of disconnecting. At this time, be sure to insert the push lock until a clicking 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
- Be sure to push the push lock in securely.

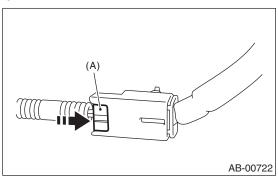


#### NOTE:

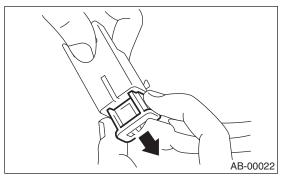
The connector cannot be connected when the push lock is in the lock position. Move the push lock to the release position and connect the connector.

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

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



(2) With the slide lock pushed, disconnect the connector.



#### **CAUTION:**

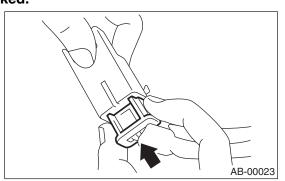
When pulling the slide lock or disconnecting connector, be sure to hold the connector, not the harness.

2) How to connect

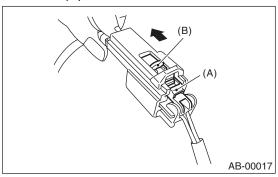
Holding the connector, push it in securely until a clicking sound is heard.

#### **CAUTION:**

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



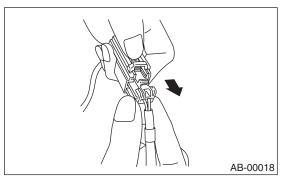
- - (2) With the lock arm (A) pushed in, move the slide lock (B) in the direction of arrow.



(3) With the slide lock moved, release the lock arm (return to 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 securely until a clicking sound is heard.

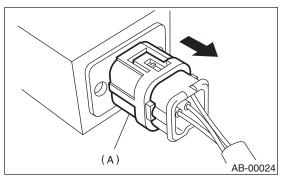
### 5. FRONT SUB SENSOR, SIDE AIRBAG SENSOR, SEAT POSITION SENSOR LH

1) How to disconnect

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

#### **CAUTION:**

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

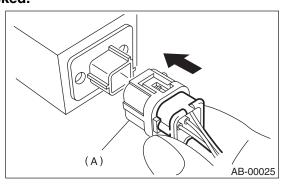


2) How to connect

Holding the connector, push it in securely until a clicking sound is heard.

#### **CAUTION:**

- Do not touch the outer side section or else the outer side (A) will move back.
- Be sure to insert the connector in until it is locked. Then pull it gently to make sure that it is locked.

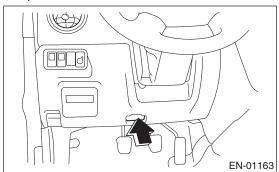


#### 7. Subaru Select Monitor A: OPERATION

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

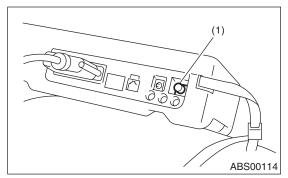


(2) Connect the diagnosis cable to the data link connector.

#### **CAUTION:**

#### Do not connect scan tools other than the Subaru Select Monitor.

4) Turn the ignition switch to ON (engine OFF) and run the Subaru Select Monitor.



(1) Power switch

- 5) On the «Main Menu» display screen, select {Each System Check).
- 6) On the «System Selection Menu» display screen, select {Airbag System}.
- 7) Select [OK] after the {Airbag System} is displayed.

8) On the «Airbag System» screen, select the Studios {DTC Display}.

#### NOTE:

- · For details concerning the operation procedure, refer to the "SUBARU SELECT MONITOR OPER-ATION MANUAL".
- · For details concerning DTCs, refer to List of Diagnostic Trouble Code (DTC). <Ref. to AB(diag)-43, List of Diagnostic Trouble Code (DTC).>

#### 2. DISPLAY OF STATUS INFORMATION

2. DISPLAY OF STATUS INFORMATION

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

- 1) On the «Main Menu» display screen, select {Each System Check}.
- 2) On the «System Selection Menu» display screen, select {Airbag System}.
- 3) On the «Airbag System» menu screen, select the {Status Data}.

The following table is for support data.

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

- \*1: The seat position is forward.
- \*2: The seat position is rearward.
- \*3: Displayed when data other than before and behind the seat, such as the breakdown etc, is input.
- \*4: Displayed when it is initial.
- \*5: Seat position sensor not supported
- \*6: Seat belt fastened
- \*7: Seat belt not fastened
- \*8: Displayed when data other than belt fastened or not fastened, such as breakdowns is input.
- \*9: Seat belt buckle switch not supported
- \*10: Passenger's airbag operating state
- \*11: Passenger's airbag non-operating state

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

#### 3. CLEAR MEMORY MODE

Clear the DTC stored in the airbag control module after repairing the airbag system. (After the breakdown is recovered, the breakdown code for completed recoveries are read out when the next breakdown occurs if the memory clear work is not performed.)

- 1) On the «Main Menu» display screen, select {Each System Check}.
- 2) On the «System Selection Menu» display screen, select {Airbag System}.
- 3) On the {Airbag System} display screen, select {Clear Memory}.
- 4) When the "Clear Memory?" is shown on the screen, select [OK].
- 5) When "Done" is displayed, turn off the Subaru Select Monitor.

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

#### **B: INSPECTION**

#### 1. COMMUNICATION FOR INITIALIZING IMPOSSIBLE

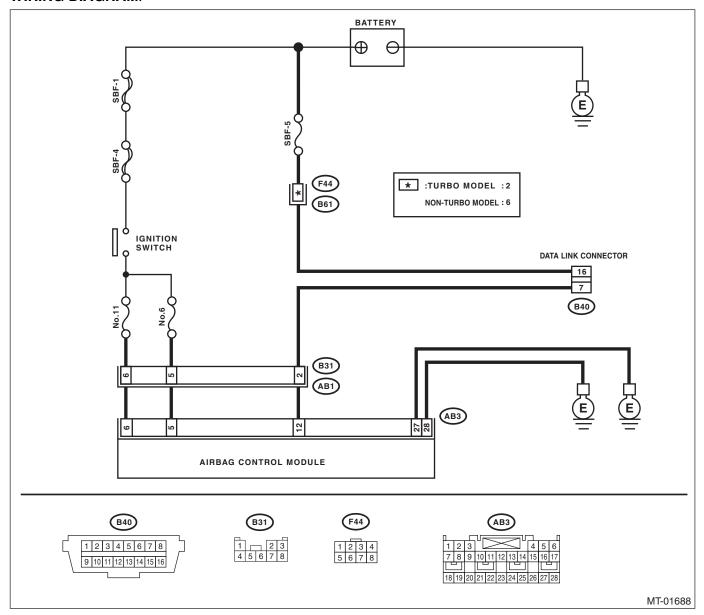
#### **DETECTING CONDITION:**

Defective harness connector

#### **TROUBLE SYMPTOM:**

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

#### WIRING DIAGRAM:



		Select Monitoryht	AIRBAG SYSTEM	I (DIAGNOSTICS
	Step	Check	Fyes	Erio o
1	CHECK IGNITION SWITCH.	Is the ignition switch ON?	Go to step 2.	Turn the ignition switch to ON, and select the airbag mode using the Subaru Select Monitor.
2	CHECK BATTERY.  1) Turn the ignition switch to OFF.  2) Measure the battery voltage.	Is the voltage 11 V or more?	Go to step 3.	Charge or replace the battery.
3	CHECK BATTERY TERMINAL.	Is there poor contact at the bat- tery 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 the Subaru Select Monitor, check whether communication to other systems can be performed normally.	Is the system name displayed on the Subaru Select Monitor?	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 con- nector.  3) Turn the ignition switch to ON.  4) Check whether communication to other sys- tems can be executed normally.	Is the system name displayed on the Subaru Select Monitor?	Replace the airbag control module. <ref. ab-17,<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. 7 — Chassis ground:	Is the resistance 1 $M\Omega$ or more?	Go to step 7.	Repair the harness and connector between each control module and data link connector. (Replace the harness without repairing the airbag harness.)
7	CHECK OUTPUT SIGNAL TO THE AIRBAG CONTROL MODULE.  1) Turn the ignition switch to ON in the condition of step 7.  2) Measure the voltage between data link connector and chassis ground.  Connector & terminal  (B40) No. 7 (+) — Chassis ground (-):	Is the voltage less than 1 V?	Go to step 8.	Repair the harness and connector between each control module and data link connector. (Replace the harness without repairing the airbag harness.)
8	CHECK THE HARNESS BETWEEN THE AIRBAG CONTROL MODULE AND DATA LINK CONNECTOR.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Disconnect the connector (AB3) from airbag control module.  3) Connect the connector (1R) in the test harness R to connector (AB3).  4) Measure resistance between connector (4R) in the test harness R and data link connector.  Connector & terminal (4R) No. 18 — (B40) No. 7:	Is the resistance less than 10 $\Omega$ ?	Go to step 9.	Repair the harness between the airbag control module and the data link con- nector. Or replace the airbag main harness along with body harness.

			4 DI	Jr. Brown	-
	Step	Check	Yes	C/No C	
9	CHECK POWER SUPPLY CIRCUIT.  1) Turn the ignition switch to ON.  2) Measure the voltage between connector (2R) in the test harness R and chassis ground.  Connector & terminal  (2R) No. 1 (+) — Chassis ground (-):  (2R) No. 6 (+) — Chassis ground (-):	Is the voltage 10 V or more?	Go to step 10.	Repair the harness between the airbag control module and the battery. Or replace the airbag main harness along with body harness.	
10	CHECK BETWEEN THE AIRBAG CONTROL MODULE AND CHASSIS GROUND.  1) Turn the ignition switch to OFF.  2) Measure resistance between connector (2R) in the test harness R and chassis ground.  Connector & terminal  (2R) No. 10 — Chassis ground:  (2R) No. 11 — Chassis ground:	Is the resistance less than 10 $\Omega$ ?	Go to step 11.	Repair the harness between the airbag control module and the chassis ground. Or replace the airbag main harness along with body harness.	
11	CHECK POOR CONTACT OF CONNECTOR.	trol module power supply, ground circuit and data link connector?	tor. (For airbag	Replace the airbag control module only. <ref. ab-<br="" to="">17, REMOVAL, Air- bag Control Mod- ule.&gt;</ref.>	

#### 2. WITHOUT DTC

#### **DETECTING CONDITION:**

- Defective combination meter
- Open circuit of harness

#### TROUBLE SYMPTOM:

- Airbag warning light remains on.
- "NO TROUBLE CODE" will be displayed on the Subaru Select Monitor.

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

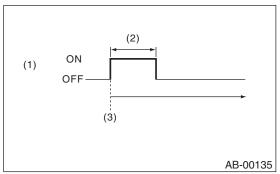
#### NOTE:

When the airbag warning light is OFF and "NO TROUBLE CODE" is displayed on Subaru Select Monitor, the system is operating properly.

## 8. Airbag Warning Light Illumination Pattern

#### A: INSPECTION

Turn the ignition switch to ON, and confirm that the airbag warning light remains on for approx. 6 seconds and then goes off afterwards.



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

## Read Diagnostic Trouble Code (DTC) TICS) NOT FOR RESALE RESALE

AIRBAG SYSTEM (DIAGNOSTICS)

## 9. Read Diagnostic Trouble Code (DTC)

#### **A: OPERATION**

For details concerning DTC reading procedure, refer to "Subaru Select Monitor". <Ref. to AB(diag)-28, Subaru Select Monitor.>

Inspection Mode ught AIRBAG SYSTEM (DIAGNOSTICS)

NOT FOR RESALE

### 10.Inspection Mode

#### A: PROCEDURE

Recreate the condition by referring to the fault conditions described in the check list.

# Clear Memory Modeght to you by Eris Studios

#### 11.Clear Memory Mode

#### A: OPERATION

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

For details concerning DTC clear operation, 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:**

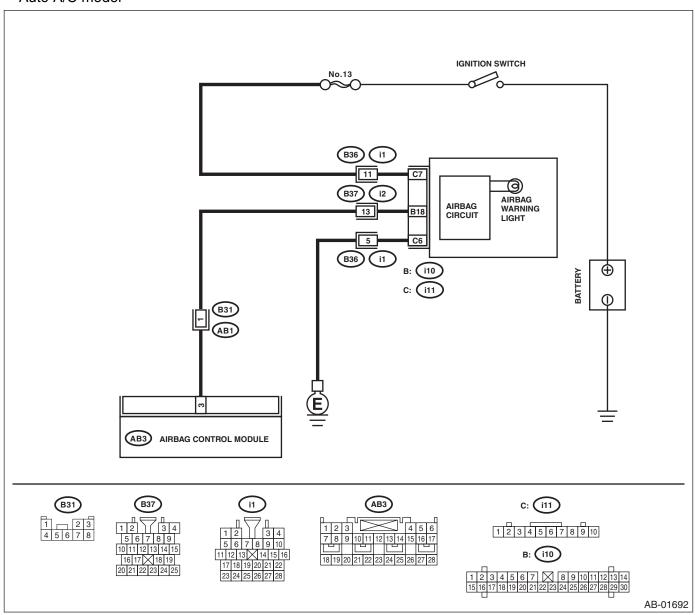
- Airbag warning light is faulty.
- Airbag control module to airbag warning light circuit is shorted or open.
- Grounding circuit is faulty.
- Airbag control module is faulty.
- Connection of (AB1) and (B31) is improper.
- Improper connection of (AB3) to airbag control module

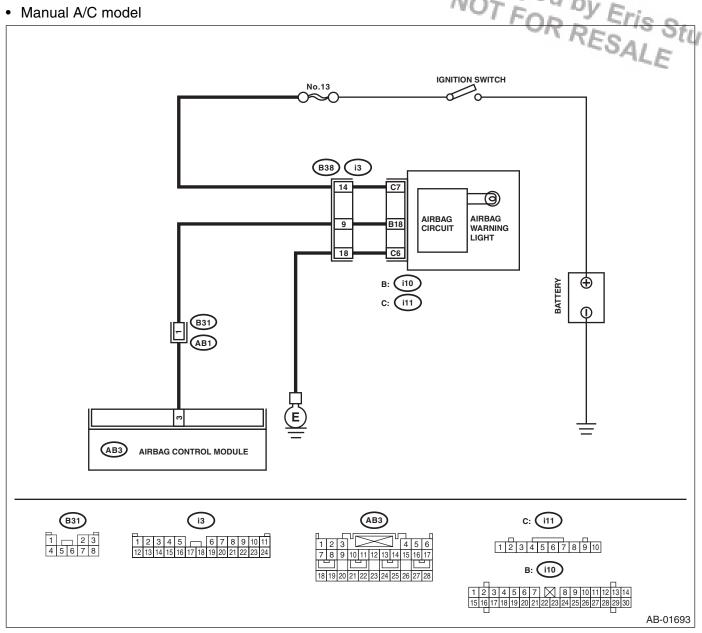
#### **CAUTION:**

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

#### **WIRING DIAGRAM:**

Auto A/C model





	Step	Check	Yes	No
1	READ DTC.  Read the DTC. <ref. (dtc),="" ab(diag)-28,="" code="" diagnostic="" monitor.="" operation,="" read="" select="" subaru="" to="" trouble=""></ref.>	Is DTC displayed?	Perform the diagnosis according to DTC.	Go to step 2.
2	<ul> <li>CHECK POOR CONTACT.</li> <li>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.</li> <li>2) Confirm that there is solid connection between the airbag control module and connector (AB3).</li> </ul>	Is there poor contact in connector (AB3)?	If the poor contact of the connector is not fixed, replace the airbag main harness along with body harness or replace the airbag control module. <ref. ab-17,="" airbag="" control="" module.="" to=""></ref.>	Go to step 3.

	Airbag Wa	rning Light Failure	AIRBAG SYSTEM	I (DIAGNOSTICS)
		A.c.	AIIIDAGGTGTEN	(DIAGNOSTICS)
	<b>A</b> 1	, AC	TEN	/ Fine
	Step	Check	Yes	No
3	CHECK AIRBAG MAIN HARNESS.  1) Remove the instrument panel lower cover and disconnect the connectors (AB26) and (AB2).  2) Remove the console side cover lower on the passenger's side and disconnect the connectors (AB27) and (AB4).  3) Disconnect the connector (AB3) from airbag control module, and connect the connector (1R) in the test harness R.  4) Connect the battery ground terminal and turn the ignition switch to ON.  5) Connect two connectors, (5R) and (6R) in the test harness R.  NOTE:	Does the airbag warning light go off?	Go to step 4.	Go to step 5.
	After the problem has been eliminated, disconnect connectors (5R) and (6R).			
4	CHECK GROUND CIRCUIT.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Disconnect the connector (AB3) from airbag control module.  3) Connect the connector (1R) in the test harness R to body harness connector (AB3).  4) Measure resistance between connector (2R) in the test harness R and chassis ground.  Connector & terminal  (2R) No. 10 — Chassis ground:  (2R) No. 11 — Chassis ground:	Is the resistance less than 10 $\Omega$ ?	Replace the airbag control module. <ref. ab-17,<br="" to="">Airbag Control Module.&gt;</ref.>	Repair the chassis ground circuit.
5	CHECK AIRBAG MAIN HARNESS.  1) Disconnect the connectors (5R) and (6R).  2) Remove the combination meter.  3) Measure resistance between connector (i11) and connector (2R) in the test harness R.  Connector & terminal (2R) No. 7 — (i11) No. 8:	Is the resistance less than 10 $\Omega$ ?	Check the combination meter.	Go to step 6.
6	CHECK POOR CONTACT OF CONNECTORS (AB1) AND (B31).  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Confirm that there is a firm contact between connectors (AB1) and (B31).	Is there poor contact in connectors (AB1) and (B31)?	Repair the body harness or replace the airbag main harness along with body harness.	Go to step 7.
7	CHECK AIRBAG MAIN HARNESS. Check the airbag main harness for defect.	Is there any defect in the airbag main harness?	Replace the airbag main harness along with body harness.	Repair the body harness.

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

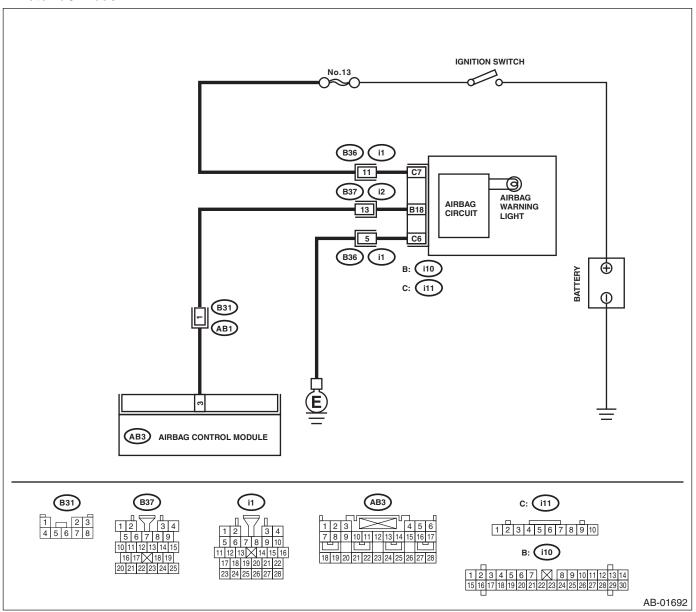
#### **DETECTING CONDITION:**

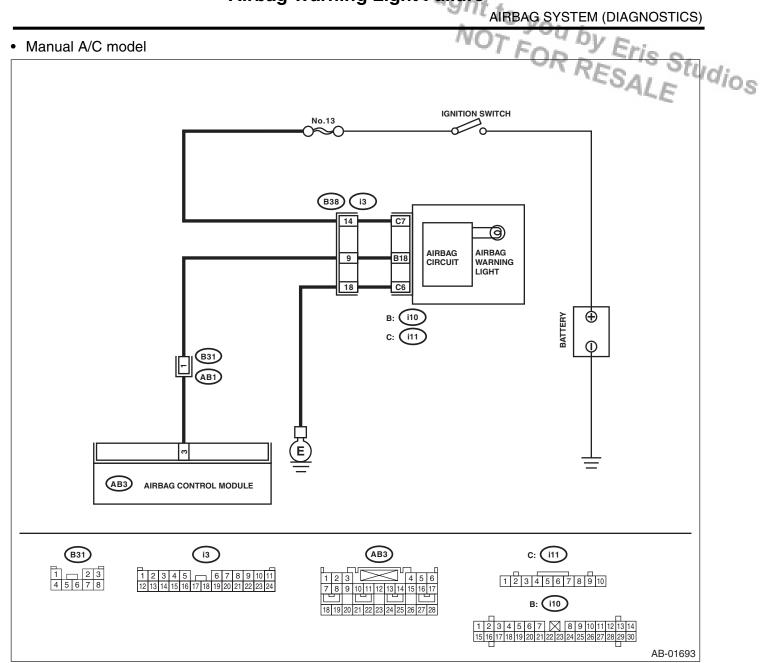
- Fuse No. 13 (in fuse box) is brown out.
- Body harness circuit is open.
- Airbag warning light is faulty.
- Airbag main harness is faulty.
- · Airbag control module is faulty.

#### **CAUTION:**

- . Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground terminal from battery, and wait for 20 seconds or more before starting to work.
- · When inspecting the airbag main harness, disconnect the airbag module connectors of the driver's and passenger's seats for safety. **WIRING DIAGRAM:**

#### Auto A/C model





# Airbag Warning Light Failure

		IVIC	7 - 4 0	7.3%
	Step	Check	Yes	No C
1	CHECK COMBINATION METER.  Turn the ignition switch to ON, and confirm that warning light of combination meter illuminates.	Do warning lights except for airbag also illuminate?	Go to step 2.	Check the combination meter. <ref. combination="" idi-3,="" meter="" system.="" to=""></ref.>
2	CHECK DTC.  Read the DTC. <ref. (dtc),="" ab(diag)-28,="" code="" diagnostic="" monitor.="" operation,="" read="" select="" subaru="" to="" trouble=""></ref.>	Is 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 the fuse No. 13 is blown out again, step Go to step 4.	Go to step 4.
4	<ul> <li>CHECK AIRBAG WARNING LIGHT CIRCUIT (IN COMBINATION METER).</li> <li>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.</li> <li>2) Disconnect the connector (AB1) from (B31).</li> <li>3) Connect the battery ground terminal and turn the ignition switch to ON.</li> </ul>	Does airbag warning light illuminate?	Go to step 5.	Check the combination meter. <ref. combination="" idi-11,="" meter.="" to=""></ref.>
5	CHECK AIRBAG MAIN HARNESS.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Connect the connector (AB1) to (B31).  3) Disconnect the connector (AB3) from airbag control module.  4) Connect the battery ground terminal and turn the ignition switch to ON.	Does airbag warning light illuminate?	Replace the airbag control module. <ref. ab-17,<br="" to="">Airbag Control Module.&gt;</ref.>	Replace the airbag main harness along with body harness.

### 13.List of Diagnostic Trouble Code (DTC)

#### A: LIST

AIRBAG SYSTEM (DIAGNOSTICS)				
3.L \: L		ostic Trouble Code (DTC)	AIRBAG SYSTEM (DIAGNOSTICS)  Reference  Ref. to AB(diag)-47, DTC 11 DRIVER'S	
DTC	Display	Diagnosis content	Reference	
11	Driver's Airbag failure	<ul> <li>Airbag main harness circuit is open, shorted or ground shorted.</li> <li>Airbag module harness (Driver's side) circuit is open, shorted or shorted to ground.</li> <li>Roll connector circuit is open, shorted or ground shorted.</li> <li>Airbag control module is faulty.</li> <li>Driver's airbag module is faulty.</li> </ul>	<ref. 11="" ab(diag)-47,="" driver's<br="" dtc="" to="">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's side) 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. 12="" ab(diag)-50,="" dtc="" passen-<br="" to="">GER'S AIRBAG FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>	
15	Driver's Airbag failure	<ul> <li>Airbag main harness circuit (Driver's side) is shorted to power supply.</li> <li>Airbag module harness circuit (Driver's side) is shorted to power supply.</li> <li>Roll connector is shorted to power supply.</li> <li>Airbag control module is faulty.</li> <li>Driver's airbag module is faulty.</li> </ul>	<ref. 15="" ab(diag)-53,="" driver's<br="" dtc="" to="">AIRBAG FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>	
16	Passenger's Airbag failure	<ul> <li>Airbag main harness circuit (Passenger's side) is shorted to power supply.</li> <li>Airbag module harness circuit (Passenger's side) is shorted to power supply.</li> <li>Airbag control module is faulty.</li> <li>Passenger's airbag module is faulty.</li> </ul>	<ref. 16="" ab(diag)-56,="" dtc="" passen-<br="" to="">GER'S AIRBAG FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>	
21	Airbag ECM failure	Airbag control module is faulty.	<ref. 21="" ab(diag)-58,="" airbag<br="" dtc="" to="">ECM FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>	
22	Front Airbag Firing output	Front airbag module and seat belt pretensioner (LH/RH) are inflated.	<ref. 22="" ab(diag)-59,="" dtc="" front<br="" to="">AIRBAG FIRING OUTPUT, Diagnostic Chart with Trouble Code.&gt;</ref.>	
23	Connector to Airbag ECM failure	Connection of (AB3), (AB7) and (AB8) to airbag control module is improper.	<ref. 23="" ab(diag)-60,="" airbag="" chart="" code.="" connector="" diagnostic="" dtc="" ecm,="" to="" trouble="" with=""></ref.>	
24	IG1 open	<ul> <li>Airbag control module is faulty.</li> <li>Airbag main harness circuit is open.</li> <li>Fuse No. 11 (in joint box) is blown.</li> <li>Body harness circuit is open.</li> </ul>	<ref. 24="" ab(diag)-61,="" dtc="" ig1<br="" to="">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. 25="" ab(diag)-63,="" dtc="" ig2<br="" to="">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>Body harness circuit is open.</li> </ul>	<ref. 26="" ab(diag)-65,="" dtc="" passen-<br="" to="">GER'S AIRBAG INDICATOR FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>	

# List of Diagnostic Trouble Code (DTC)

DTC	Dienlay	Diagnosis centent	Reference
DIC	Display	Diagnosis content     Occupant detection control module communication	<pre><ref. 27="" ab(diag)-68,="" dtc="" ods<="" pre="" to=""></ref.></pre>
27	ODS Communication error	<ul> <li>Occupant detection control module communication is faulty.</li> <li>Airbag rear harness circuit is open, shorted, shorted to ground or shorted to power supply.</li> <li>Occupant detection harness is faulty.</li> <li>Occupant detection system is faulty.</li> <li>Airbag control module is faulty.</li> </ul>	COMMUNICATION ERROR, Diagnostic Chart with Trouble Code.>
29	ODS Failure	<ul> <li>Occupant detection 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>	Refer to "Occupant Detection System" for details on DTC 29. <ref. (dtc).="" 29="" code="" diagnostic="" dtc="" failure,="" od(diag)-30,="" ods="" procedure="" to="" trouble="" with=""></ref.>
2A	ODS Calibration error	System calibration (Rezeroing) of the occupant detection system was not ended normally.	Refer to "Occupant Detection System" for details on DTC 2A. <ref. (dtc).="" 2a="" calibration="" code="" diagnostic="" dtc="" error,="" od(diag)-26,="" ods="" procedure="" to="" trouble="" with=""></ref.>
2B	ODS Erroneous Parts	<ul> <li>Wrong airbag control module was installed.</li> <li>Wrong occupant detection system was installed.</li> <li>Occupant detection system is faulty.</li> </ul>	Refer to "Occupant Detection System" for DTC 2B. <ref. (dtc).="" 2b="" code="" diagnostic="" dtc="" od(diag)-27,="" ods="" parts,="" procedure="" system="" to="" trouble="" with="" wrong=""></ref.>
2C	Belt Tension Sensor failure	<ul> <li>Passenger's seat belt tension sensor is faulty.</li> <li>Occupant detection system is faulty.</li> <li>Side airbag harness circuit is open, shorted, shorted to ground or shorted to power supply.</li> <li>Occupant detection harness is faulty.</li> </ul>	Refer to "Occupant Detection System" for details on DTC 2C. <ref. (dtc).="" 2c="" belt="" code="" diagnostic="" dtc="" failure,="" od(diag)-28,="" procedure="" sensor="" tension="" to="" trouble="" with=""></ref.>
31	Front Sub Sensor RH failure	<ul> <li>Front sub sensor harness (RH) circuit is shorted.</li> <li>Front sub sensor harness (RH) circuit is open.</li> <li>Front sub sensor (RH) is faulty.</li> <li>Airbag control module is faulty.</li> </ul>	<ref. 31="" ab(diag)-70,="" dtc="" front<br="" to="">SUB SENSOR RH FAILURE, Diagnos- tic Chart with Trouble Code.&gt;</ref.>
32	Front Sub Sensor LH failure	<ul> <li>Front sub sensor harness (LH) circuit is shorted.</li> <li>Front sub sensor harness (LH) circuit is open.</li> <li>Front sub sensor (LH) is faulty.</li> <li>Airbag control module is faulty.</li> </ul>	<ref. 32="" ab(diag)-72,="" dtc="" front<br="" to="">SUB SENSOR LH FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
33	Front Sub Sensor RH failure	Front sub sensor (RH) is faulty.	<ref. 33="" ab(diag)-74,="" dtc="" front<br="" to="">SUB SENSOR RH FAILURE, Diagnos- tic Chart with Trouble Code.&gt;</ref.>
34	Front Sub Sensor LH failure	Front sub sensor (LH) is faulty.	<ref. 34="" ab(diag)-74,="" dtc="" front<br="" to="">SUB SENSOR LH FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
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 harness circuit is open, shorted or shorted to ground.</li> </ul>	<ref. 36="" ab(diag)-75,="" chart="" code.="" diagnostic="" dtc="" failure,="" lh="" position="" seat="" sensor="" to="" trouble="" with=""></ref.>
37	Buckle Switch RH failure	<ul> <li>Passenger's buckle switch circuit is open, shorted or shorted to ground.</li> <li>Side airbag harness circuit is open, shorted or shorted to ground.</li> <li>Airbag control module is faulty.</li> <li>Occupant detection control module is faulty.</li> </ul>	Refer to "Occupant Detection System" for DTC 37. <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 harness circuit is open, shorted or shorted to ground.</li> <li>Airbag control module is faulty.</li> </ul>	<ref. 38="" ab(diag)-77,="" buckle<br="" dtc="" to="">SWITCH LH FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>

# List of Diagnostic Trouble Code (DTC)

			OT F DV F	1
DTC	Display	Diagnosis content	Reference	
41	Side Airbag RH failure	Side airbag harness (RH) circuit is faulty. Side airbag module (RH) is faulty. Airbag control module is faulty.	Reference <ref. 41="" ab(diag)-79,="" air-bag="" chart="" code.<="" diagnostic="" dtc="" failure,="" rh="" side="" td="" to="" trouble="" with=""><td><math> q_{i} </math></td></ref.>	$ q_{i} $
		Airbag control module is faulty.	with Trouble Code.>	Ī
42	Side Airbag LH	Side airbag harness (LH) circuit is faulty.     Side airbag module (LH) is faulty.	<ref. 42="" ab(diag)-81,="" air-bag="" chart="" diagnostic="" dtc="" failure,="" lh="" side="" td="" to="" with<=""><td>Ī</td></ref.>	Ī
42	failure	Airbag control module is faulty.	Trouble Code.>	Ī
		Side airbag harness (RH) is shorted to power sup-	<ref. 45="" ab(diag)-83,="" air-<="" dtc="" side="" td="" to=""><td>Ī</td></ref.>	Ī
45	Side Airbag RH	ply.	BAG RH FAILURE, Diagnostic Chart	ı
	failure	Airbag control module is faulty.	with Trouble Code.>	Ī
	Cido Airboa I II	Side airbag harness (LH) is shorted to power sup-	<ref. 46="" ab(diag)-85,="" air-<="" dtc="" side="" td="" to=""><td>Ī</td></ref.>	Ī
46	Side Airbag LH failure	ply.	BAG LH FAILURE, Diagnostic Chart with	ı
	landre	Airbag control module is faulty.	Trouble Code.>	i l
	Side Airbag Sensor	Side airbag sensor (RH) is faulty.	<ref. 51="" ab(diag)-87,="" air-<="" dtc="" side="" td="" to=""><td>i I</td></ref.>	i I
51	RH failure	Side airbag harness (RH) circuit is faulty.	BAG SENSOR RH FAILURE, Diagnostic	i i
		Airbag control module is faulty.	Chart with Trouble Code.>	i I
50	Side Airbag Sensor	Side airbag sensor (LH) is faulty.	<ref. 52="" ab(diag)-89,="" air-<="" dtc="" side="" td="" to=""><td>ı</td></ref.>	ı
52	LH failure	Side airbag harness (LH) circuit is faulty.     Airbag control module is faulty.	BAG SENSOR LH FAILURE, Diagnostic Chart with Trouble Code.>	Ì
		Side airbag sensor (RH) is faulty.	<pre><ref. 53="" ab(diag)-91,="" air-<="" dtc="" pre="" side="" to=""></ref.></pre>	i
53	Side Airbag Sensor	Side all bay selisor (Fit i) is laulty.	BAG SENSOR RH FAILURE, Diagnostic	Ì
55	RH failure		Chart with Trouble Code.>	i
		Side airbag sensor (LH) is faulty.	<ref. 54="" ab(diag)-91,="" air-<="" dtc="" side="" td="" to=""><td>ÌI</td></ref.>	ÌI
54	Side Airbag Sensor	Cook among conserved and many.	BAG SENSOR LH FAILURE, Diagnostic	i I
	LH failure		Chart with Trouble Code.>	ı
	Side Curtain Airbag	Side airbag module is deployed.	<ref. 55="" ab(diag)-91,="" dtc="" side<="" td="" to=""><td>ı.</td></ref.>	ı.
55	Firing output		CURTAIN AIRBAG FIRING OUTPUT,	ı
	Timig catput		Diagnostic Chart with Trouble Code.>	i I
		Seat belt pretensioner (RH) circuit is open, shorted	<ref. 61="" ab(diag)-92,="" belt<="" dtc="" td="" to=""><td>ı</td></ref.>	ı
61	Belt Pretensioner RH	or shorted to ground.  • Airbag control module is faulty.	PRETENSIONER RH FAILURE, Diag-	ı
61	failure	Pretensioner is faulty.	nostic Chart with Trouble Code.>	ı
		Airbag harness is faulty.		ı
		Seat belt pretensioner (LH) circuit is open, shorted	<ref. 62="" ab(diag)-94,="" belt<="" dtc="" td="" to=""><td>ı.</td></ref.>	ı.
	Belt Pretensioner LH	or shorted to ground.	PRETENSIONER LH FAILURE, Diag-	ı
62	failure	Airbag control module is faulty.	nostic Chart with Trouble Code.>	ı
		Pretensioner is faulty.  Airbor however in faulty.		Ì
		Airbag harness is faulty.	Def to AD(disp) on DTO on DELT	ÌI
		Seat belt pretensioner (RH) circuit is shorted to	<ref. 65="" ab(diag)-96,="" belt<br="" dtc="" to="">PRETENSIONER RH FAILURE, Diag-</ref.>	Ì
65	Belt Pretensioner RH	<ul><li>power supply.</li><li>Pretensioner is faulty.</li></ul>	nostic Chart with Trouble Code.>	Ì
	failure	Airbag harness is faulty.	The state with mounts of the state of the st	Ì
		Airbag control module is faulty.		i
		Seat belt pretensioner (LH) circuit is shorted to	<ref. 66="" ab(diag)-98,="" belt<="" dtc="" td="" to=""><td>ÌI</td></ref.>	ÌI
	Belt Pretensioner LH	power supply.	PRETENSIONER LH FAILURE, Diag-	Ì
66	failure	Pretensioner is faulty.	nostic Chart with Trouble Code.>	Ì
		Airbag control module is faulty.		Ì
		Airbag control module is faulty.      Airbag main harpage circuit is open, shorted or	Pof to AR(diag) 100 DTC 71	i
		Airbag main harness circuit is open, shorted or shorted to ground.	<ref. 71="" ab(diag)-100,="" airbag="" diagnos-<="" driver's="" dtc="" failure,="" td="" to=""><td>i</td></ref.>	i
		Airbag module harness (Driver's side) circuit is	tic Chart with Trouble Code.>	i
74	Driver's Airbag	open, shorted or shorted to ground.		Ì
71	failure	Roll connector circuit is open, shorted or shorted to		Ì
		ground.		Ì
		Airbag control module is faulty.      Driver de side of module is faulty.		Ī
	1	Driver's airbag module is faulty.		i

## List of Diagnostic Trouble Code (DTC)

		/ V	DE MOULE
DTC	Display	Diagnosis content	Reference
72	Passenger's Airbag failure	<ul> <li>Airbag main harness is open, shorted or shorted to ground.</li> <li>Airbag module harness (Passenger's side) 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. 72="" ab(diag)-103,="" dtc="" pas-<br="" to="">SENGER'S AIRBAG FAILURE, Diagnos- tic Chart with Trouble Code.&gt;</ref.>
75	Driver's Airbag failure	<ul> <li>Airbag main harness circuit (Driver's side) is shorted to power supply.</li> <li>Airbag module harness circuit (Driver's side) is shorted to power supply.</li> <li>Roll connector is shorted to power supply.</li> <li>Airbag control module is faulty.</li> <li>Driver's airbag module is faulty.</li> </ul>	<ref. 75<br="" ab(diag)-105,="" dtc="" to="">DRIVER'S AIRBAG FAILURE, Diagnostic Chart with Trouble Code.&gt;</ref.>
76	Passenger's Airbag failure	<ul> <li>Airbag main harness (Passenger's side) is shorted to power supply.</li> <li>Airbag module harness (Passenger's side) is shorted to power supply.</li> <li>Airbag control module is faulty.</li> <li>Passenger's airbag module is faulty.</li> </ul>	<ref. 76="" ab(diag)-108,="" dtc="" pas-<br="" to="">SENGER'S AIRBAG FAILURE, Diagnos- tic Chart with Trouble Code.&gt;</ref.>

#### A: DTC 11 DRIVER'S AIRBAG FAILURE

#### DTC DETECTING CONDITION:

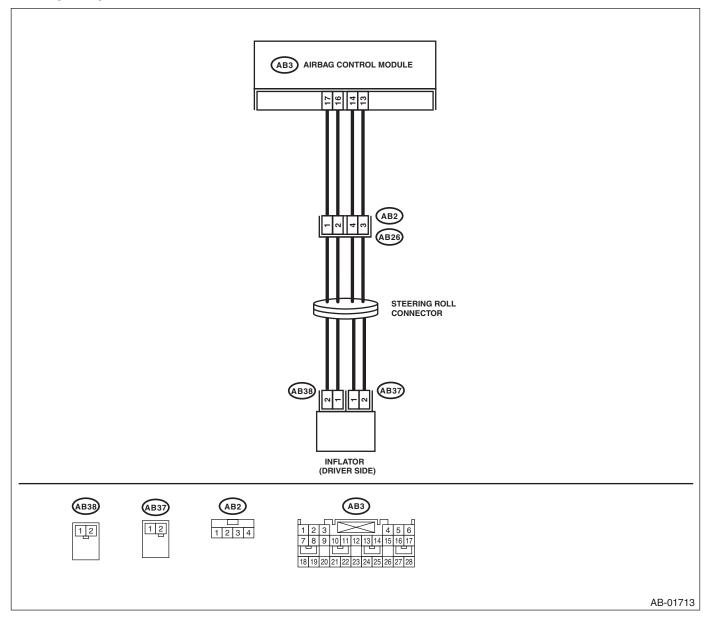
- Airbag main harness circuit is open, shorted or shorted to ground.
- Airbag module harness (driver's side) circuit is open, shorted or shorted to ground.
- Roll connector circuit is open, shorted or shorted to ground.
- Driver's airbag module is faulty.
- · Airbag control module is faulty.

#### **CAUTION:**

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

#### NOTE:

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



CHECK POOR CONTACT OF CONNECTORS. Check for poor contact of the connectors between the airbag control module and the driver's airbag module.    CHECK DRIVER'S AIRBAG MODULE. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more. 2) Remove the driver's airbag module. 3) Connect the connector (1N) in the test harness N to the connector (1N) in the test harness N to the connector (1N) in the test harness N to the connector (1N) in the test harness S Q to connect the battery ground terminal and turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more. 2) Disconnect the test harness N from connector (2Q) in the test harness Q To connect the battery ground terminal and turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more. 2) Disconnect the test harness N from connector (AB38). 3) Disconnect the test harness N from connector (AB38). 4) Remove the instrument panel lower cover and disconnect the connector (AB26) from (AB22). 5) Connect the connector (1P) in the test harness P to connector (AB26) from (AB2). 6) Connect the battery ground terminal and turn the ignition switch to OFF, disconnect the battery ground terminal and turn the ignition switch to OFF. disconnect the battery ground terminal and turn the ignition switch to OFF, disconnect the battery ground terminal and turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more. 2) Disconnect the airbag resistor from the connector (2P) and (3P) of test harness P: 3) Remove the instrument panel side cover on the passenger's side and disconnect connector on the passenger's side and disconnect		Eria	TEOL	Oh sale	O4-1-
Check for poor contact of the connectors between the airbag control module and the driver's airbag module.  2 CHECK DRIVER'S AIRBAG MODULE. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more. 2) Remove the driver's airbag module. 3) Connect the connector (1N) in the test harness N to the connector (1N) in the test harness N to the connector (4B39). 4) Connect the airbag resistor to the connector (2N) of test harness N. 5) Connect the connector (1Q) in the test harness Q to connect the datery ground terminal and turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more. 2) Disconnect the test harness Q from connector (AB37). 4) Remove the instrument panel lower cover and disconnect the test harness N from connector (AB37). 4) Remove the instrument panel lower cover and disconnect the connector (AB2). 5) Connect the connector (AB26) from (AB2). 6) Connect the test harness Q from connectors (2P) and (3P) of test harness P. 7) Connect the battery ground terminal and turn the ignition switch to ON. 4 CHECK AIRBAG MAIN HARNESS (DRIVER'S AIRBAG HARNESS). 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more. 2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P. 7) Connect the airbag resistor from the connectors (2P) and (3P) of test harness P. 3) Remove the instrument panel side cover on the passenger's side and disconnect cover on the passenger's side	The Park Street	No	Yes	Check	Step
Does the airbag warning light lilluminate for 6 seconds and go off?	LE	Go to step 2.		is there poor contact?	Check for poor contact of the connectors between the airbag control module and the
onds or more. 2) Remove the driver's airbag module. 3) Connect the connector (1N) in the test harness N to the connector (2R) of test harness N. 5) Connect the airbag resistor to the connector (2Q) in the test harness Q. 6) Connect the airbag resistor to the connector (2Q) in the test harness O. 7) Connect the battery ground terminal and turn the ignition switch to ON.  3 CHECK ROLL CONNECTOR. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more. 2) Disconnect the test harness N from connector (AB3R). 3) Disconnect the test harness Q from connector (AB3R). 4) Remove the instrument panel lower cover and disconnect the connector (AB2C) from (AB2). 5) Connect the connector (AB2C) from (AB2C). 6) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P. 7) Connect the battery ground cable, and wait for 20 seconds or more. 2) Disconnect the airbag resistor to the connectors (2P) and (3P) of test harness P. 7) Connect the pattery ground terminal and turn the ignition switch to ON.  4 CHECK AIRBAG MAIN HARNESS (DRIV-ER'S AIRBAG HARNESS). 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more. 2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P. 3) Remove the instrument panel side cover on the passenger's side and disconnect connec		Go to step 3.	driver's airbag	illuminate for 6 seconds and go	2 CHECK DRIVER'S AIRBAG MODULE.  1) Turn the ignition switch to OFF, disconnect
7) Connect the battery ground terminal and turn the ignition switch to ON.  3 CHECK ROLL CONNECTOR. 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more. 2) Disconnect the test harness N from connector (AB37). 3) Disconnect the test harness Q from connector (AB38). 3) Disconnect the test harness Q from connector (AB37). 4) Remove the instrument panel lower cover and disconnect the connector (AB26) from (AB2). 5) Connect the connector (AB26) from (AB2). 6) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P. 7) Connect the battery ground terminal and turn the ignition switch to ON.  4 CHECK AIRBAG MAIN HARNESS (DRIVER'S AIRBAG HARNESS). 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more. 2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P. 3) Remove the instrument panel side cover on the passenger's side and disconnect connectors conn			AB-13, Driver's Air-		onds or more.  2) Remove the driver's airbag module.  3) Connect the connector (1N) in the test harness N to the connector (AB38).  4) Connect the airbag resistor to the connector (2N) of test harness N.  5) Connect the connector (1Q) in the test harness Q to connector (AB37).  6) Connect the airbag resistor to the connector
1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Disconnect the test harness N from connector (AB38).  3) Disconnect the test harness Q from connector (AB38).  4) Remove the instrument panel lower cover and disconnect the connector (AB26) from (AB2).  5) Connect the connector (1P) in the test harness P to connector (AB2).  6) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P.  7) Connect the battery ground terminal and turn the ignition switch to ON.  4 CHECK AIRBAG MAIN HARNESS (DRIV-ER'S AIRBAG HARNESS).  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P.  3) Remove the instrument panel side cover on the passenger's side and disconnect connectors.					7) Connect the battery ground terminal and
2) Disconnect the test harness N from connector (AB38). 3) Disconnect the test harness Q from connector (AB37). 4) Remove the instrument panel lower cover and disconnect the connector (AB26) from (AB2). 5) Connect the connector (1P) in the test harness P to connect (AB2). 6) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P. 7) Connect the battery ground terminal and turn the ignition switch to ON.  4 CHECK AIRBAG MAIN HARNESS (DRIVER'S AIRBAG HARNESS). 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more. 2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P. 3) Remove the instrument panel side cover on the passenger's side and disconnect connectors.	эр <b>4</b> .	Go to step 4.	connector. <ref. to<br="">AB-19, Roll Con-</ref.>	illuminate for 6 seconds and go	Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 sec-
<ul> <li>4) Remove the instrument panel lower cover and disconnect the connector (AB26) from (AB2).</li> <li>5) Connect the connector (1P) in the test harness P to connector (AB2).</li> <li>6) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P.</li> <li>7) Connect the battery ground terminal and turn the ignition switch to ON.</li> <li>4 CHECK AIRBAG MAIN HARNESS (DRIVER'S AIRBAG HARNESS).</li> <li>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.</li> <li>2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P.</li> <li>3) Remove the instrument panel side cover on the passenger's side and disconnect connectors</li> </ul>			nector.>		<ul><li>2) Disconnect the test harness N from connector (AB38).</li><li>3) Disconnect the test harness Q from connector</li></ul>
ness P to connector (AB2). 6) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P. 7) Connect the battery ground terminal and turn the ignition switch to ON.  4 CHECK AIRBAG MAIN HARNESS (DRIV-ER'S AIRBAG HARNESS). 1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more. 2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P. 3) Remove the instrument panel side cover on the passenger's side and disconnect connec-					<ol> <li>Remove the instrument panel lower cover and disconnect the connector (AB26) from (AB2).</li> </ol>
ER'S AIRBAG HARNESS).  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P.  3) Remove the instrument panel side cover on the passenger's side and disconnect connec-					ness P to connector (AB2). 6) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P. 7) Connect the battery ground terminal and
tors (AB4) and (AB27) from passenger's airbag module.  4) Disconnect the connector (AB3) from airbag control module, and connect the connector (1R) in the test harness R.  5) Measure the resistance between connector (2R) in the test harness R and connectors (2P) and (3P) in the test harness P.  Connector & terminal (2R) No. 2 — (2P) No. 1: (2R) No. 4 — (2P) No. 2: (2R) No. 8 — (3P) No. 3:	rness th body	Replace the a main harness along with both harness.	·	$\Omega$ ?	4 CHECK AIRBAG MAIN HARNESS (DRIV-ER'S AIRBAG HARNESS).  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P.  3) Remove the instrument panel side cover on the passenger's side and disconnect connectors (AB4) and (AB27) from passenger's airbag module.  4) Disconnect the connector (AB3) from airbag control module, and connect the connector (1R) in the test harness R.  5) Measure the resistance between connector (2R) in the test harness R and connectors (2P) and (3P) in the test harness P.  Connector & terminal  (2R) No. 2 — (2P) No. 1:  (2R) No. 4 — (2P) No. 2:

# Diagnostic Chart with Trouble Code AIRBAG SYSTEM (DIAGNOSTICS)

		IVC	15 - 4 10	J. Dec.
	Step	Check	Yes	ETNo C
5	CHECK AIRBAG MAIN HARNESS (DRIV-	Is the resistance 1 $M\Omega$ or	Go to step 6.	Replace the airbag
	ER'S AIRBAG HARNESS).	more?	*1	main harness
	Measure resistance between connector (2R)			along with body
	terminals in the test harness R.			harness.
	Connector & terminal			
	(2R) No. 2 — (2R) No. 4:			
	(2R) No. 4 — Chassis ground:			
	(2R) No. 2 — Chassis ground:			
	(2R) No. 12 — Chassis ground:			
6	CHECK AIRBAG CONTROL MODULE.	Is the same DTC displayed?	Replace the airbag	Go to step 7.
	<ol> <li>Connect all connectors.</li> </ol>		control module.	
	<ol><li>Erase the memory.</li></ol>		<ref. ab-17,<="" th="" to=""><th></th></ref.>	
	<ol><li>Perform the Inspection Mode.</li></ol>		Airbag Control	
	<ol><li>Read the DTC.</li></ol>		Module.>	
7	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using	Finish the diagno-
			"List of Diagnostic	sis.
			Trouble Code	
			(DTC)". <ref. th="" to<=""><th></th></ref.>	
			AB(diag)-43, List	
			of Diagnostic Trou-	
			ble Code (DTC).>	

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

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

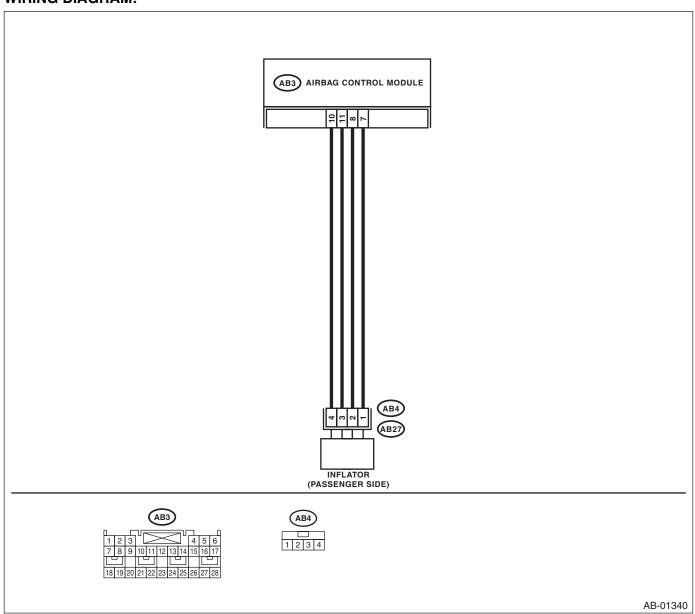
- · Airbag main harness circuit is open, shorted or shorted to ground.
- T FOR RESALE • Airbag module harness (Passenger's side) circuit is open, shorted or shorted to ground.
- Passenger's airbag module is faulty.
- · Airbag control module is faulty.

#### **CAUTION:**

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

#### NOTE:

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



		0.11	AIRBAG SYSTEM	(DIAGNOSTICS)
		NO	TEUDI	/ F
	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNECTORS.  Check for poor contact of the connectors between the airbag control module and the passenger's airbag module.	Is there poor contact?	Replace the airbag main harness.	Go to step 2.
2	CHECK PASSENGER'S AIRBAG MODULE.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Remove the instrument panel side cover on passenger's side.  3) Disconnect the connector (AB27) from (AB4).  4) Connect the connector (1P) in the test harness P to connector (AB4).  5) Connect the airbag resistor to the connectors (2P) and (3P) of test harness P.  6) Connect the battery ground terminal and turn the ignition switch to ON.	Does the airbag warning light illuminate for 6 seconds and go off?	Replace the pas- senger's airbag module. <ref. to<br="">AB-14, Passen- ger's Airbag Mod- ule.&gt;</ref.>	Go to step 3.
3	CHECK AIRBAG MAIN HARNESS (PASSENGER'S AIRBAG HARNESS).  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Disconnect the airbag resistor from the connectors (2P) and (3P) of test harness P.  3) Remove the instrument panel lower cover and disconnect the connector (AB26) from (AB2).  4) Disconnect the connector (AB3) from airbag control module, and connect the connector (1R) in the test harness R.  5) Measure the resistance between connector (2R) in the test harness R and connectors (2P) and (3P) in the test harness P.  Connector & terminal  (2R) No. 3 — (2P) No. 1:  (2R) No. 5 — (2P) No. 2:  (2R) No. 9 — (3P) No. 3:  (2R) No. 13 — (3P) No. 4:	Is the resistance less than 10 $\Omega$ ?	Go to step 4.	Replace the airbag main harness along with body harness.
4	CHECK AIRBAG MAIN HARNESS (PASSENGER'S AIRBAG HARNESS).  Measure the resistance between connector (2R) terminals in the test harness R, and between 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:	Is the resistance 1 $M\Omega$ or more?	Go to step 5.	Replace the airbag main harness along with body harness.
5	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors. 2) Erase the memory. 3) Perform the Inspection Mode. 4) Read the DTC.	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-17,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 6.

		////	34 F 4 F	At The Control of the
	Step	Check	Yes	L'No C
6	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using	Finish the diagno-
			"List of Diagnostic	sis.
			Trouble Code	"LE
			(DTC)". <ref. th="" to<=""><th></th></ref.>	
			AB(diag)-43, List	
			of Diagnostic Trou-	
			ble Code (DTC).>	

#### C: DTC 15 DRIVER'S AIRBAG FAILURE

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

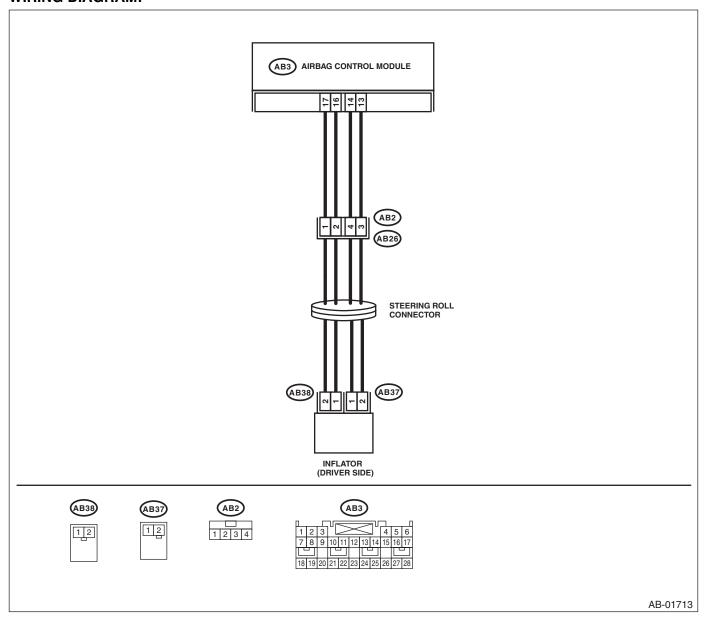
- Airbag main harness circuit (Driver's side) is shorted to power supply.
- Airbag module harness circuit (Driver's side) is shorted to power supply.
- Roll connector is shorted to power supply.
- Driver's airbag module is faulty.
- Airbag control module is faulty.

#### **CAUTION:**

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

#### NOTE:

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



	Cton	Check	Yes	ETNO C.
_	Step SUFFICE CONTROL C	Check	No. 2 (2. 17 )	The state of the s
1	CHECK POOR CONTACT OF CONNECTORS.	is there poor contact?	Replace the airbag main harness.	Go to step 2.
	Check for poor contact of the connectors between the airbag control module and the		mammamess.	TLE
	driver's airbag module.			
2	CHECK DRIVER'S AIRBAG MODULE.	Does the airbag warning light	Replace the	Go to step 3.
-	Turn the ignition switch to OFF, disconnect	illuminate for 6 seconds and go	driver's airbag	do to stop <b>o</b> .
	the battery ground cable, and wait for 20 sec-	off?	module. <ref. td="" to<=""><td></td></ref.>	
	onds or more.		AB-13, Driver's Air-	
	2) Remove the driver's airbag module.		bag Module.>	
	3) Connect the connector (AB38) to the con-			
	nector (1N) in the test harness N.			
	4) Connect the airbag resistor to the connector			
	(2N) of test harness N.			
	5) Connect the connector (1Q) in the test har-			
	ness Q to connector (AB37).			
	6) Connect the airbag resistor to the connector (2Q) in the test harness Q.			
	7) Connect the battery ground terminal and			
	turn the ignition switch to ON.			
3	CHECK ROLL CONNECTOR.	Does the airbag warning light	Replace the roll	Go to step 4.
	Turn the ignition switch to OFF, disconnect	illuminate for 6 seconds and go	connector. <ref. td="" to<=""><td>G.6 16 616p 11</td></ref.>	G.6 16 616p 11
	the battery ground cable, and wait for 20 sec-	off?	AB-19, Roll Con-	
	onds or more.		nector.>	
	2) Disconnect the test harness N from connec-			
	tor (AB38).			
	3) Disconnect the test harness Q from connec-			
	tor (AB37).			
	Remove the instrument panel lower cover and disconnect the connector (AB2) from			
	(AB26).			
	5) Connect the connector (1P) in the test har-			
	ness P to connector (AB2).			
	6) Connect the airbag resistor to the connec-			
	tors (2P) and (3P) of test harness P.			
	<ol><li>Connect the battery ground terminal and</li></ol>			
	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
	1) Turn the ignition switch to OFF, disconnect			along with body
	the battery ground cable, and wait for 20 seconds or more.			harness.
	<ul><li>2) Disconnect the airbag resistor from the con-</li></ul>			
	nectors (2P) and (3P) of test harness P.			
	3) Remove the instrument panel side cover on			
	the passenger's side and disconnect the con-			
	nectors (AB27) and (AB4).			
	4) Disconnect the connector (AB3) from airbag			
	control module, and connect the connector (1R)			
	in the test harness R.			
	5) Connect the battery ground terminal and			
	turn the ignition switch to ON. (engine OFF) 6) Measure the voltage between connector			
	(2R) in the 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)

		IVI	17 - 4 11	7 500
	Step	Check	Yes	ETNo C
5	CHECK AIRBAG CONTROL MODULE.	Is the same DTC displayed?	Replace the airbag	Go to step 6.
	<ol> <li>Connect all connectors.</li> </ol>		control module.	-UA/E
	<ol><li>Erase the memory.</li></ol>		<ref. ab-17,<="" th="" to=""><th>100</th></ref.>	100
	<ol><li>Perform the Inspection Mode.</li></ol>		Airbag Control	
	4) Read the DTC.		Module.>	
6	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using	Finish the diagno-
			"List of Diagnostic	sis.
			Trouble Code	
			(DTC)". <ref. th="" to<=""><th></th></ref.>	
			AB(diag)-43, List	
			of Diagnostic Trou-	
			ble Code (DTC).>	

#### D: DTC 16 PASSENGER'S AIRBAG FAILURE

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

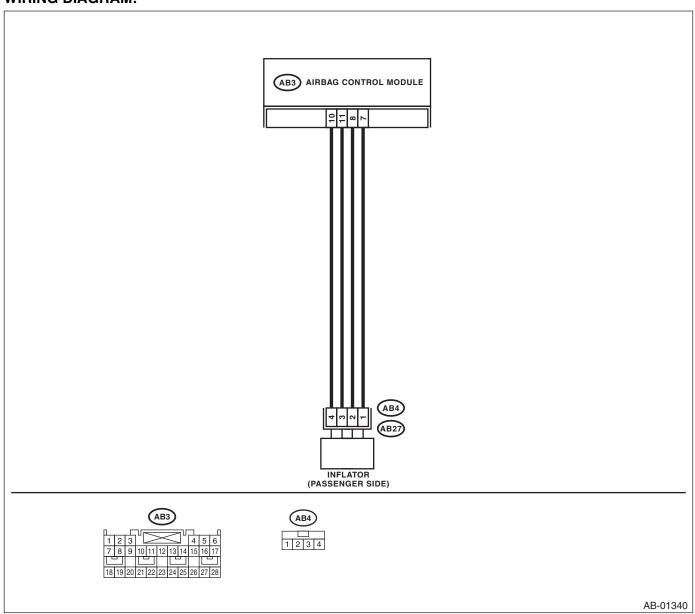
- Airbag main harness circuit (Passenger's side) is shorted to power supply.
- T FOR RESALE Airbag module harness circuit (Passenger's side) is shorted to power supply.
- Passenger's airbag module is faulty.
- · Airbag control module is faulty.

#### **CAUTION:**

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

#### NOTE:

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



# Diagnostic Chart with Trouble Code AIRBAG SYSTEM (DIAGNOSTICS)

		NO	アニッロ	15
	Step	Check	Yes	No C
1	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact?	Replace the airbag	Go to step 2.
	Check for poor contact of the connectors		main harness	MLE
	between the airbag control module and the pas-		along with body	
	senger's airbag module.		harness.	
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 and go	senger's airbag	
	the battery ground cable, and wait for 20 sec-	off?	module. <ref. th="" to<=""><th></th></ref.>	
	onds or more.		AB-14, Passen-	
	2) Remove the instrument panel side cover on		ger's Airbag Mod-	
	passenger's side. 3) Disconnect the connector (AB27) from		ule.>	
	(AB4).			
	4) Connect the connector (1P) in the test har-			
	ness P to connector (AB4).			
	5) Connect the airbag resistor to the connec-			
	tors (2P) and (3P) of test harness P.			
	6) Connect the battery ground terminal and			
	turn the ignition switch to ON.			
3	CHECK AIRBAG MAIN HARNESS (PASSEN-	Is the voltage less than 1 V?	Go to step 4.	Replace the airbag
	GER'S AIRBAG HARNESS).			main harness
	1) Turn the ignition switch to OFF, disconnect			along with body
	the battery ground cable, and wait for 20 sec-			harness.
	onds or more.			
	<ol><li>Disconnect the airbag resistor from the con-</li></ol>			
	nectors (2P) and (3P) of test harness P.			
	3) Remove the instrument panel lower cover			
	and disconnect the connector (AB26) from			
	<ul><li>(AB2).</li><li>4) Disconnect the connector (AB3) from airbag</li></ul>			
	control module, and connect the connector (1R)			
	in the test harness R.			
	5) Measure the voltage between connector			
	(2R) in the test harness R and chassis ground.			
	Connector & terminal			
	(2R) No. 3 (+) — Chassis ground (–):			
	(2R) No. 5 (+) — Chassis ground (–):			
	(2R) No. 9 (+) — Chassis ground (–):			
	(2R) No. 13 (+) — Chassis ground (–):			
4	CHECK AIRBAG CONTROL MODULE.	Is the same DTC displayed?	Replace the airbag	Go to step 5.
	Connect all connectors.		control module.	
	Erase the memory.     Parform the Increation Made		<ref. ab-17,<="" td="" to=""><td></td></ref.>	
	Perform the Inspection Mode.     Pend the DTC		Airbag Control Module.>	
_	4) Read the DTC.	La annualla an DTO III de la		Finish that P
5	CHECK FOR ANY OTHER DTC ON DISPLAY.	is any other DTC displayed?	Check DTC using "List of Diagnostic	Finish the diagno-
			Trouble Code	SiS.
			(DTC)". <ref. th="" to<=""><th></th></ref.>	
			AB(diag)-43, List	
			of Diagnostic Trou-	
			ble Code (DTC).>	

AIRBAG SYSTEM (DIAGNOSTICS)

#### **E: DTC 21 AIRBAG ECM FAILURE**

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

Airbag control module is faulty.

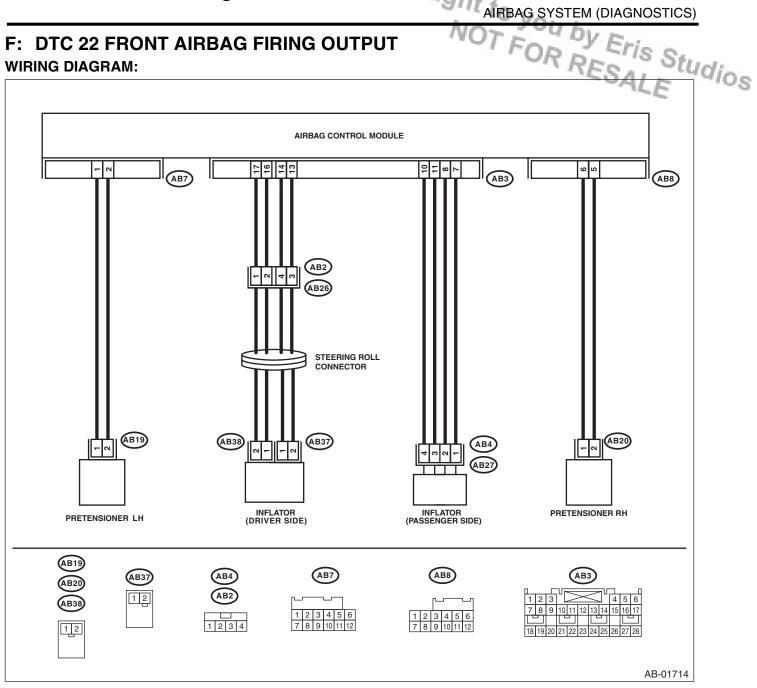
#### **CAUTION:**

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

	Step	Check	Yes	No
1	CHECK IF DTC 21 IS INDICATED.	Does the Subaru Select Moni-	Replace the airbag	Temporary poor
	1) Read the DTC. <ref. ab(diag)-28,="" read<="" th="" to=""><th>tor display DTC21?</th><th>control module.</th><th>contact occurs.</th></ref.>	tor display DTC21?	control module.	contact occurs.
	DIAGNOSTIC TROUBLE CODE (DTC),		<ref. ab-17,<="" th="" to=""><th></th></ref.>	
	OPERATION, Subaru Select Monitor.>		Airbag Control	
	2) Perform the Clear Memory Mode. <ref. th="" to<=""><th></th><th>Module.&gt;</th><th></th></ref.>		Module.>	
	AB(diag)-36, Clear Memory Mode.>			
	3) Read the DTC again.			

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

#### **WIRING DIAGRAM:**



This code is indicated when the front airbag and pretensioner activates.

Once this code is displayed, the memory cannot be cleared. Therefore replace the following parts.

- Airbag control module <Ref. to AB-17, Airbag Control Module.>
- Driver's airbag module <Ref. to AB-13, Driver's Airbag Module.>
- Passenger's airbag module <Ref. to AB-14, Passenger's Airbag Module.>
- Front sub sensor of both sides <Ref. to AB-20, Front Sub Sensor.>
- Front outer seat belt with pretensioner of both sides <Ref. to SB-10, Front Seat Belt.>
- Steering roll connector <Ref. to AB-19, REMOVAL, Roll Connector.>
- Occupant detection system (passenger's seat cushion & frame assembly) <Ref. to SE-11, BUCKET TYPE</li> SEAT, DISASSEMBLY, Front Seat.>

AIRBAG SYSTEM (DIAGNOSTICS)

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

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

Connection of (AB3), (AB7) and (AB8) to airbag control module is improper.

#### **CAUTION:**

T FOR RESALE Before diagnosing the airbag system, be sure to turn the ignition switch to OFF, disconnect the ground terminal from battery, and wait for 20 seconds or more before starting to work.

	Step	Check	Yes	No
1	CHECK POOR CONTACTS OF CONNECTORS (AB3), (AB7) AND (AB8).  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Disconnect the connectors (AB3), (AB7) and (AB8) from the airbag control module.	Is there rust or damage on the harness connector and the control module connector?	Go to step 2.	Replace the airbag control module. <ref. ab-17,="" airbag="" control="" module.="" to=""> Replace the body harness along with the air- bag main harness. Replace the body harness along with the side airbag harness.</ref.>
2	CHECK POOR CONTACTS OF CONNECTORS (AB3), (AB7) AND (AB8).  1) Reconnect the connector securely. 2) Connect the battery ground terminal and turn the ignition switch to ON.	Does the airbag warning light illuminate for approx. 6 seconds and then go off?	Go to step 3.	Replace the airbag control module. <ref. ab-17,<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 the DTC.	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-17,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 4.
4	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using "List of Diagnostic Trouble Code (DTC)". <ref. (dtc).="" ab(diag)-43,="" ble="" code="" diagnostic="" list="" of="" to="" trou-=""></ref.>	Finish the diagnosis.

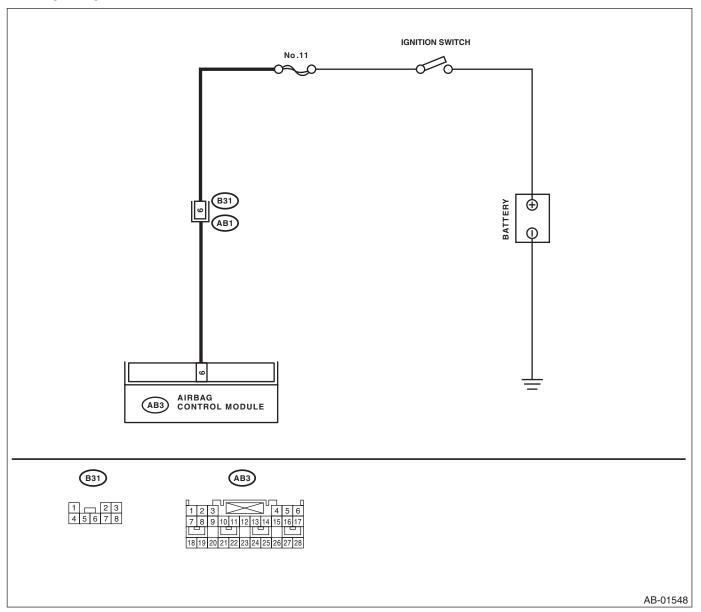
#### H: DTC 24 IG1 OPEN

#### **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 terminal from battery, and wait for 20 seconds or more before starting to work.
- When inspecting the airbag main harness, disconnect the airbag module connectors of the driver's and passenger's seats for safety.



	_	110	I BALLY	/ Fri
	Step	Check	Yes	No C
1	CHECK AIRBAG CONTROL MODULE.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Disconnect the connector (AB3) from airbag control module.  3) Connect the connector (1R) in the test harness R to connector (AB3).  4) Connect the battery ground terminal and turn the ignition switch to ON.  5) Measure the voltage between connector (2R) in the test harness R and chassis ground.  Connector & terminal  (2R) No. 1 (+) — Chassis ground (-):	Is the voltage 10 V or more?	Replace the airbag control module. <ref. ab-17,<br="" to="">Airbag Control Module.&gt;</ref.>	TOALE
2	CHECK FUSE NO. 11 (IN JOINT BOX).  1) Confirm that the ignition switch is turned to 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 along with body harness.	Go to step 3.
3	<ol> <li>CHECK AIRBAG CONTROL MODULE.</li> <li>1) Connect all connectors.</li> <li>2) Erase the memory.</li> <li>3) Perform the Inspection Mode.</li> <li>4) Read the DTC.</li> </ol>	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-17,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 4.
4	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using "List of Diagnostic Trouble Code (DTC)". <ref. (dtc).="" ab(diag)-43,="" ble="" code="" diagnostic="" list="" of="" to="" trou-=""></ref.>	Finish the diagnosis.

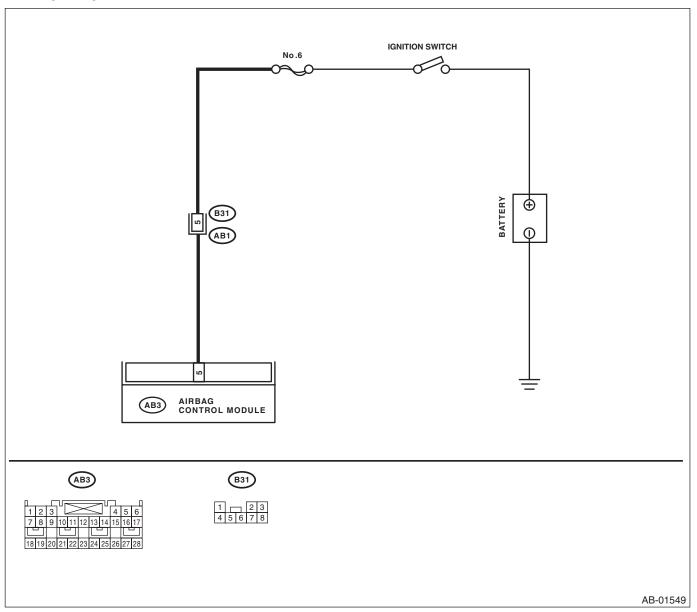
#### I: DTC 25 IG2 OPEN

#### **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 terminal from battery, and wait for 20 seconds or more before starting to work.
- When inspecting the airbag main harness, disconnect the airbag module connectors of the driver's and passenger's seats for safety.



		/ Y L .	IT - U	/ -
	Step	Check	Yes	No C
1	CHECK AIRBAG CONTROL MODULE.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Disconnect the connector (AB3) from airbag control module.  3) Connect the connector (1R) in the test harness R to connector (AB3).  4) Connect the battery ground terminal and turn the ignition switch to ON.  5) Measure the voltage between connector (2R) in the test harness R and chassis ground.  Connector & terminal  (2R) No. 6 (+) — Chassis ground (-):	Is the voltage 10 V or more?	Replace the airbag control module. <ref. ab-17,<br="" to="">Airbag Control Module.&gt;</ref.>	TOALE
2	<ul> <li>CHECK FUSE NO. 6 (IN JOINT BOX).</li> <li>1) Confirm that the ignition switch is turned to OFF.</li> <li>2) Remove the fuse No. 6 (in joint box) and perform visual inspection.</li> </ul>	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 along 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 the DTC.</li> </ol>	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-17,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 4.
4	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using "List of Diagnostic Trouble Code (DTC)". <ref. (dtc).="" ab(diag)-43,="" ble="" code="" diagnostic="" list="" of="" to="" trou-=""></ref.>	Finish the diagnosis.

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

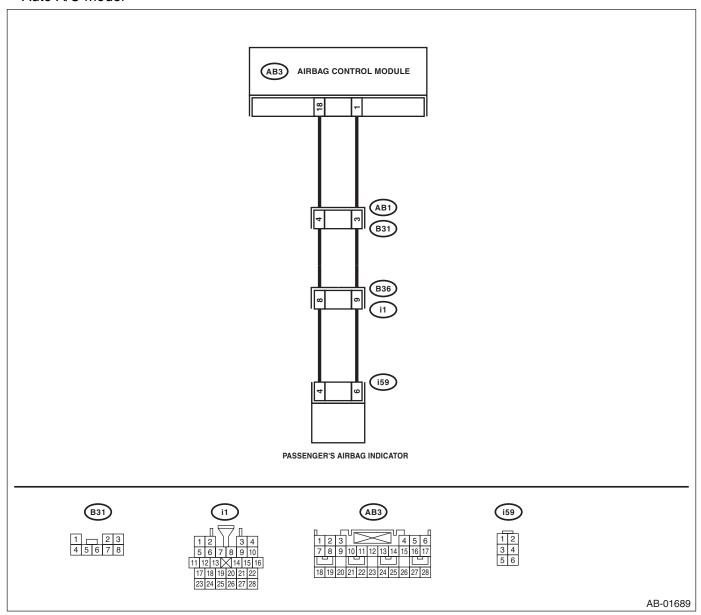
- Airbag control module is faulty.
- Airbag main harness circuit is open.
- Body harness circuit is open.

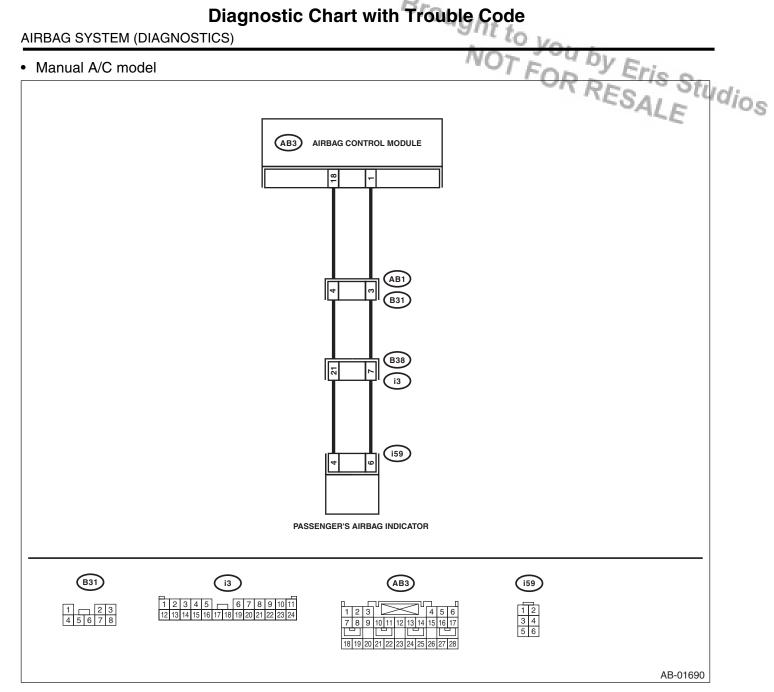
#### **CAUTION:**

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

#### **WIRING DIAGRAM:**

Auto A/C model



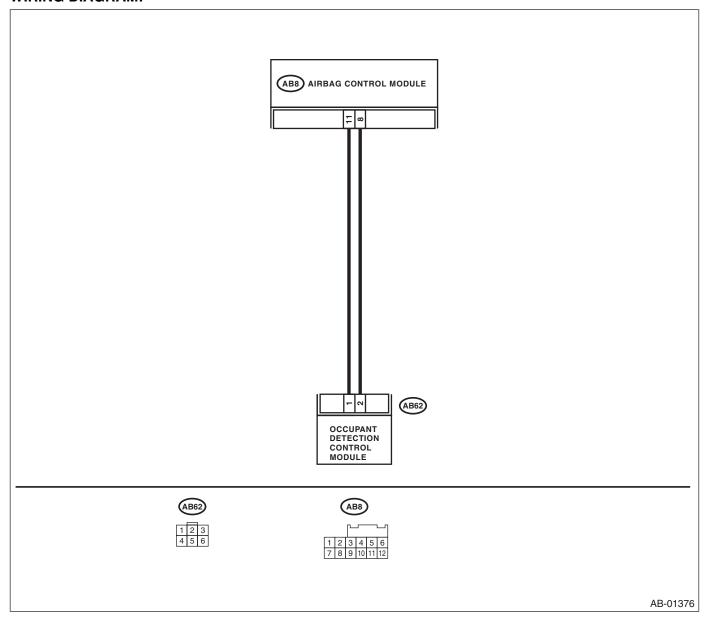


		NO	T- JUL DI	7 Po
	Step	Check	Yes	C/No C
1	<ul> <li>CHECK POOR CONTACT.</li> <li>1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.</li> <li>2) Confirm that firm contact is secured for the connector between the airbag control module and the clock.</li> </ul>	Is there poor contact in any connector?	Replace the airbag harness connec- tor.	Go to step 2.
2	CHECK AIRBAG MAIN HARNESS.  1) Disconnect the connector (AB3) from airbag control module.  2) Connect the battery ground terminal and turn the ignition switch to ON.  NOTE:  Neither of ON/OFF illuminates when it is normal.	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 connector (i59).  3) Connect the connector (1R) in the test harness R to connector (AB3).  4) Measure the resistance between connectors (2R) and (4R) in the test harness R and chassis ground.  Connector & terminal  (2R) No. 14 — (4R) No. 17:  (2R) No. 14 — Chassis ground:  (4R) No. 17 — Chassis ground:	Is the resistance 1 M $\Omega$ or more?	Replace the clock.	Repair the body harness. Or replace the airbag main harness along with body harness.
4	CHECK AIRBAG HARNESS.  1) Turn the ignition switch to OFF.  2) Connect the connector (1R) in the test harness R to connector (AB3).  3) Measure the resistance between connectors (2R) and (4R) in the test harness R and connector (i59).  Connector & terminal  (2R) No. 14 — (i59) No. 6:  (4R) No. 17 — (i59) No. 4:	Is the resistance less than 10 $\Omega$ ?	Go to step 5.	Repair the body harness. Or replace the airbag main harness along with body harness.
5	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 10 V or more?	Replace the clock.	Repair the clock power supply line.

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

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

- Communication to the occupant detection control module is faulty.
- T FOR RESALE Airbag rear harness circuit is open, shorted, ground shorted, or shorted to power supply.
- · Occupant detection harness (seat harness) is faulty.
- · Occupant detection system is faulty.
- · Airbag control module is faulty.



Step	Check	Yes	No
CHECK POOR CONTACT OF CONNECTORS.     Check for poor contact of the connectors between the airbag control module and the occupant detection control module.	Is there poor contact?	Reconnect the connector. If defective is not improved, replace the side airbag harness RH or the occupant detection harness (seat harness).	Go to step 2.

dios

	Sten	Check	Vac	Frio -
2	CHECK AIRBAG HARNESS.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Disconnect the connector (AB8) from airbag control module.  3) Disconnect connector (AB62) under the passenger's seat.  4) Connect the connector (1R) in the test harness R to connector (AB8).  5) Connect the connector (1AB) in the test harness AB to the connector (AB62).  6) Measure the resistance between connector (4R) in the test harness R and connector (2AB) in the test harness AB.  Connector & terminal  (4R) No. 12 — (2AB) No. 1:  (4R) No. 10 — (2AB) No. 2:	Check Is the resistance less than 10 Ω?	Yes Go to step 3.	Replace the side airbag harness RH along with the body harness.
3	CHECK AIRBAG HARNESS.  Measure resistance between connector (4R) in the test harness R and chassis ground.  Connector & terminal  (4R) No. 12 — Chassis ground:  (4R) No. 10 — Chassis ground:	Is the resistance 1 $M\Omega$ or more?	Go to step 4.	Replace the side airbag harness RH along with the body harness.
4	CHECK OCCUPANT DETECTION SYSTEM.  1) Connect connector (AB8) to the airbag control module.  2) Connect connectors (AB62) and (AB67).  3) Connect the ground cable to the battery.  4) Check the occupant detection system. <ref. basic="" diagnostic="" od(diag)-2,="" procedure.="" to=""></ref.>	Is occupant detection system faulty?	Repair the occu- pant detection sys- tem. <ref. to<br="">OD(diag)-2, Basic Diagnostic Proce- dure.&gt;</ref.>	Finish the diagnosis.

#### L: DTC 29 ODS FAILURE

#### NOTE:

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

#### M: DTC 2A ODS CALIBRATION ERROR

#### NOTE:

Refer to "Occupant Detection System" for details on DTC 2A. <Ref. to OD(diag)-26, DTC 2A ODS CALIBRATION ERROR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

#### N: DTC 2B ODS SYSTEM WRONG PARTS

#### NOTE:

Refer to "Occupant Detection System" for DTC 2B. <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:

Refer to "Occupant Detection System" for details on DTC 2C. <Ref. to OD(diag)-28, DTC 2C BELT TENSION SENSOR FAILURE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

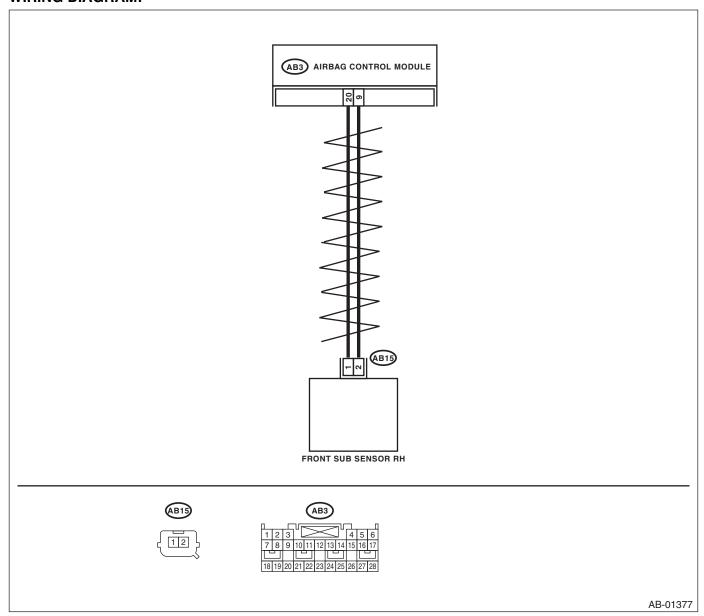
#### P: DTC 31 FRONT SUB SENSOR RH FAILURE

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

- FOR RESALE • Front sub sensor harness (RH) is shorted, open or shorted to power supply.
- Airbag main harness is shorted, open, or shorted to 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 terminal from battery, and wait for 20 seconds or more before starting to work.
- When inspecting the airbag main harness, disconnect the airbag module connectors of the driver's and passenger's seats for safety.



# Diagnostic Chart with Trouble Code AIRBAG SYSTEM (DIAGNOSTICS)

		NO	7 7 4 6	/
	Step	Check	Yes	C/No C
1	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact?	Repair the connec-	
	Check for poor contact of the connectors		tor.	-OALE
	between the airbag control module and the front			
	sub sensor (RH).		0-440	Danie a tha aidean
2	CHECK AIRBAG MAIN HARNESS (FRONT SUB SENSOR RH).	Is the resistance less than 10 $\Omega$ ?	Go to step 3.	Replace the airbag main harness
	Turn the ignition switch to OFF, disconnect	22:		along with body
	the battery ground cable, and wait for 20 sec-			harness.
	onds or more.			
	2) Remove the instrument panel lower cover			
	and disconnect the connectors (AB26) and			
	(AB2).			
	<ol> <li>Remove the instrument panel side cover on the passenger's side and disconnect the con-</li> </ol>			
	nectors (AB27) and (AB4).			
	4) Disconnect the connector (AB3) from airbag			
	control module.			
	5) Connect the connector (1R) in the test har-			
	ness R to connector (AB3).			
	<ol> <li>Disconnect the front sub sensor (RH), and then connect the connector (1H) in the test har-</li> </ol>			
	ness H to connector (AB15).			
	7) Measure the resistance between connector			
	(3R) in the test harness R and connector $(3H)$ in			
	the 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 1 M $\Omega$ or	Replace the front	Go to step 4.
ľ	SUB SENSOR RH).	more?	sub sensor (RH).	
	Measure resistance between connector (3R) in		<ref. ab-20,<="" th="" to=""><th></th></ref.>	
	the test harness R and chassis ground.		Front Sub Sen-	
	Connector & terminal		sor.>	
	(3R) No. 7 — Chassis ground: (3R) No. 9 — Chassis ground:		Replace the airbag control module if	
	(3h) No. 9 — Chassis ground.		not operating nor-	
			mally even after	
			replacing the sen-	
			sor. <ref. ab-<="" th="" to=""><th></th></ref.>	
			17, Airbag Control	
<u> </u>		DT0 :: :	Module.>	
4	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors.	Is the same DTC displayed?	Replace the airbag control module.	Go to step <b>5</b> .
	<ul><li>2) Erase the memory.</li></ul>		<ref. ab-17,<="" th="" to=""><th></th></ref.>	
	<ul><li>2) Erase the memory.</li><li>3) Perform the Inspection Mode.</li></ul>		Airbag Control	
	4) Read the DTC.		Module.>	
5	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using	Finish the diagno-
			"List of Diagnostic	sis.
1			Trouble Code	
			(DTC)". <ref. th="" to<=""><th></th></ref.>	
			AB(diag)-43, List of Diagnostic Trou-	
			ble Code (DTC).>	
			12.2 0000 (0.0).	

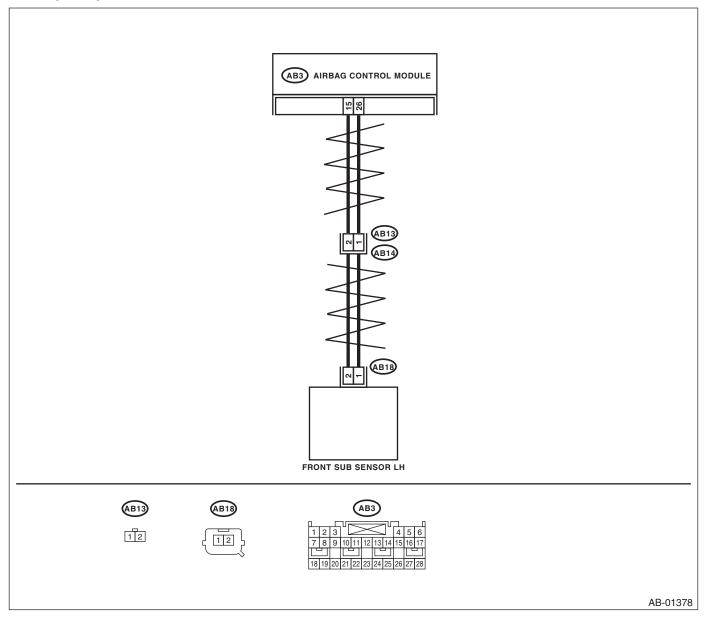
#### Q: DTC 32 FRONT SUB SENSOR LH FAILURE

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

- FOR RESALE • Front sub sensor harness (LH) is shorted, open or shorted to power supply.
- · Airbag main harness is shorted, open, or shorted to 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 terminal from battery, and wait for 20 seconds or more before starting to work.
- When inspecting the airbag main harness, disconnect the airbag module connectors of the driver's and passenger's seats for safety.



# Diagnostic Chart with Trouble Code AIRBAG SYSTEM (DIAGNOSTICS)

		/V.O	7 7 4 6	/ -
	Step	Check	Yes	- No
1	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact?	Replace the airbag	
	Check for poor contact of the connectors		main harness	-OALE
	between the airbag control module and the front		along with body	
	sub sensor LH.		harness.	
2	CHECK AIRBAG MAIN HARNESS (FRONT	Is the resistance less than 10	Go to step 3.	Replace the airbag
	SUB SENSOR LH).	$\Omega$ ?		main harness
	1) Turn the ignition switch to OFF, disconnect			along with body harness.
	the battery ground cable, and wait for 20 seconds or more.			namess.
	2) Remove the instrument panel lower cover			
	and disconnect the connectors (AB26) and (AB2).			
	3) Remove the console side cover lower on the			
	passenger's side and disconnect the connec-			
	tors (AB27) and (AB4).			
	4) Disconnect the connector (AB3) from airbag control module.			
	5) Connect the connector (1R) in the test har-			
	ness R to connector (AB3).			
	6) Disconnect the front sub sensor (LH), and			
	then connect the connector (1H) in the test har-			
	ness H to connector (AB18).			
	7) Measure the resistance between connector			
	(3R) in the test harness R and connector (3H) in			
	the 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 1 M $\Omega$ or	Replace the front	Go to step 4.
	SUB SENSOR LH).	more?	sub sensor (LH).	•
	Measure resistance between connector (3R) in		<ref. ab-20,<="" th="" to=""><th></th></ref.>	
	the test harness R and chassis ground.		Front Sub Sen-	
	Connector & terminal		sor.>	
	(3R) No. 6 — Chassis ground:		Replace the airbag	
	(3R) No. 8 — Chassis ground:		control module if not operating nor-	
			mally even after	
			replacing the sen-	
			sor. <ref. ab-<="" th="" to=""><th></th></ref.>	
			17, Airbag Control	
			Module.>	
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-17,<="" th="" to=""><th></th></ref.>	
	Perform the Inspection Mode.     Pend the DTC.		Airbag Control	
-	4) Read the DTC.	le amu eth er DTO di di di	Module.>	Finish #!!
5	CHECK FOR ANY OTHER DTC ON DISPLAY.	is any other DTC displayed?	Check DTC using "List of Diagnostic	Finish the diagno-
			Trouble Code	313.
			(DTC)". <ref. th="" to<=""><th></th></ref.>	
			AB(diag)-43, List	
			of Diagnostic Trou-	
			ble Code (DTC).>	

AIRBAG SYSTEM (DIAGNOSTICS)

R: DTC 33 FRONT SUB SENSOR RH FAILURE

DTC DETECTING CONDITION:

Front sub sensor (RH) is faulty.

If DTC 33 is displayed, the circuit within the front sub sensor (RH) is faulty. Replace the front sub sensor (RH) < Ref. to AR-20. Front Sub Sensor (RH). <Ref. to AB-20, Front Sub Sensor.>

# S: DTC 34 FRONT SUB SENSOR LH FAILURE

# **DTC DETECTING CONDITION:**

Front sub sensor (LH) is faulty.

If DTC 34 is displayed, the circuit within the front sub sensor (LH) is faulty. Replace the front sub sensor (LH). <Ref. to AB-20, Front Sub Sensor.>

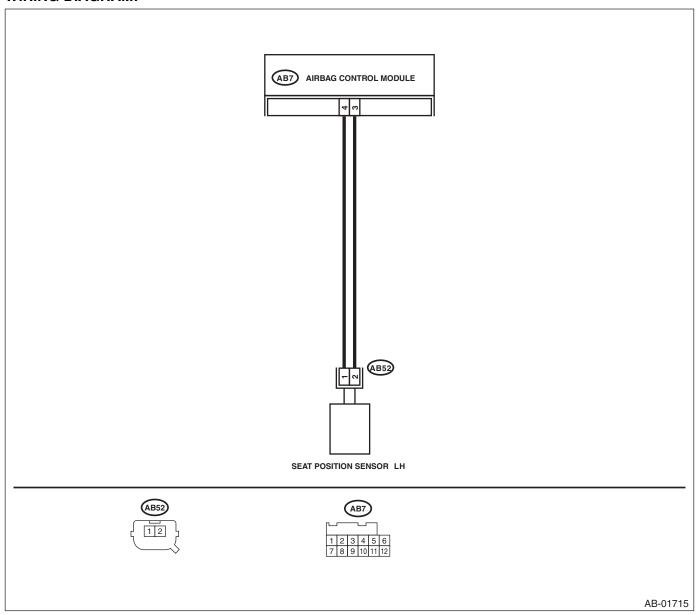
# T: DTC 36 SEAT POSITION SENSOR LH FAILURE

# **DTC DETECTING CONDITION:**

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

# **CAUTION:**

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



		/VC	TETU	V Fa.	1
	Step	Check	Yes	No No	
1	CHECK POOR CONTACT OF CONNECTORS. Check for poor contact of the connectors between the airbag control module and the driver's airbag module.	·	Replace the airbag main harness.		Idios
2	CHECK SEAT POSITION SENSOR (LH).  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Disconnect connector (AB52) from the seat position sensor (LH).  3) Connect the connector (2Y) in the test harness Y to connector (AB52).  4) Connect the battery ground terminal and turn the ignition switch to ON.	off?	Replace the seat position sensor (LH) along with the driver's seat slide rail assembly. <ref. se-7,<br="" to="">Front Seat.&gt;</ref.>	Go to step 3.	
3	CHECK AIRBAG REAR HARNESS (SEAT POSITION SENSOR HARNESS LH).  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Disconnect the connector (AB7) from airbag control module.  3) Connect the connector (1R) in the test harness R to connector (AB7).  4) Disconnect the seat position sensor (LH), and then connect the connector (1H) in the test harness H to connector (AB64).  5) Measure the resistance between connector (3R) in the test harness R and connector (3H) in the test harness H.  Connector & terminal  (3R) No. 1 — (3H) No. 5:  (3R) No. 3 — (3H) No. 6:	Is the resistance less than 10 $\Omega$ ?	Go to step 4.	Replace the airbag rear harness (LH) along with body harness.	
4	the test harness R and chassis ground.  Connector & terminal  (3R) No. 1 — Chassis ground:  (3R) No. 3 — Chassis ground:	Is the resistance less than 10 $\Omega$ ?	Replace the airbag rear harness (LH) along with body harness.	Go to step 5.	
5	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors.  2) Erase the memory.  3) Perform the Inspection Mode.  4) Read the DTC.	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-17,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 6.	
6	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using "List of Diagnostic Trouble Code (DTC)". <ref. (dtc).="" ab(diag)-43,="" code="" diagnostic="" list="" of="" to="" trouble=""></ref.>	Finish the diagnosis.	

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

# NOTE:

Refer to "Occupant Detection System" for DTC 37. <Ref. to OD(diag)-31, DTC 37 BUCKLE SWITCH RH FAILURE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

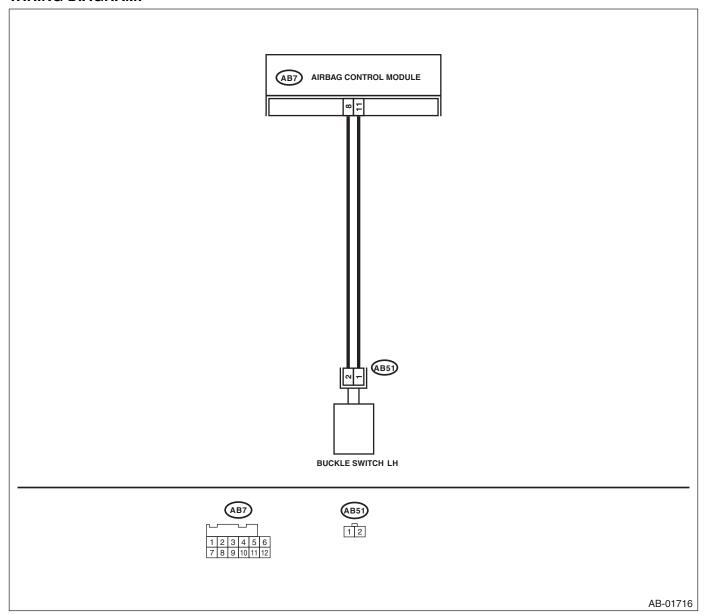
# V: DTC 38 BUCKLE SWITCH LH FAILURE

# **DTC DETECTING CONDITION:**

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

# **CAUTION:**

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



AIRBAG SYSTEM (DIAGNOSTICS)

		/VC	TEUDI	15.
	Step	Check	Yes	No C
1	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact?	Replace the airbag	Go to step 2.
	Check for poor contact of the connectors		main harness.	PALE
	between the airbag control module and the driver's airbag module.			
2	CHECK SEAT BELT BUCKLE SWITCH (LH).	Does the airbag warning light	Replace the seat	Go to step 3.
_	Turn the ignition switch to OFF, disconnect	illuminate for 6 seconds and go	belt buckle switch	Go to stop <b>o</b> .
	the battery ground cable, and wait for 20 sec-	off?	(LH). <ref. sb-<="" th="" to=""><th></th></ref.>	
	onds or more.		10, Front Seat	
	2) Disconnect connector (AB51) from the		Belt.>	
	buckle switch (LH).			
	3) Connect the connector (1Y) in the test harness Y to connector (AB51).			
	4) Connect the battery ground terminal and			
	turn the ignition switch to ON.			
3	CHECK AIRBAG REAR HARNESS (BUCKLE	Is the resistance less than 10	Go to step 4.	Replace the airbag
	SWITCH HARNESS LH).	Ω?		rear harness (LH)
	1) Turn the ignition switch to OFF, disconnect			along with body
	the battery ground cable, and wait for 20 sec-			harness.
	onds or more. 2) Disconnect the connector (AB7) from airbag			
	control module.			
	3) Connect the connector (1R) in the test har-			
	ness R to connector (AB7).			
	4) Disconnect the seat belt buckle switch (LH),			
	and then connect the connector (1D) in the test			
	harness D to connector (AB51).  5) Measure the resistance between connector			
	(4R) in the test harness R and connector (3D) in			
	the test harness D.			
	Connector & terminal			
	(4R) No. 11 — (3D) No. 3:			
	(4R) No. 9 — (3D) No. 4:			
4	CHECK AIRBAG REAR HARNESS.	Is the resistance less than 10	Replace the airbag rear harness (LH)	Go to step 5.
	Measure resistance between connector (4R) in the test harness R and chassis ground.	$\Omega$ ?	along with body	
	Connector & terminal		harness.	
	(4R) No. 9 — Chassis ground:			
	(4R) No. 11 — Chassis ground:			
5	CHECK AIRBAG CONTROL MODULE.	Is the same DTC displayed?	Replace the airbag	Go to step 6.
	Connect all connectors.      Free the memory.		control module.	
	<ul><li>2) Erase the memory.</li><li>3) Perform the Inspection Mode.</li></ul>		<ref. ab-17,<br="" to="">Airbag Control</ref.>	
	4) Read the DTC.		Module.>	
6	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using	Finish the diagno-
		,,	"List of Diagnostic	sis.
			Trouble Code	
			(DTC)". <ref. th="" to<=""><th></th></ref.>	
			AB(diag)-43, List of Diagnostic Trou-	
			ble Code (DTC).>	
			2.5 5545 (515).2	

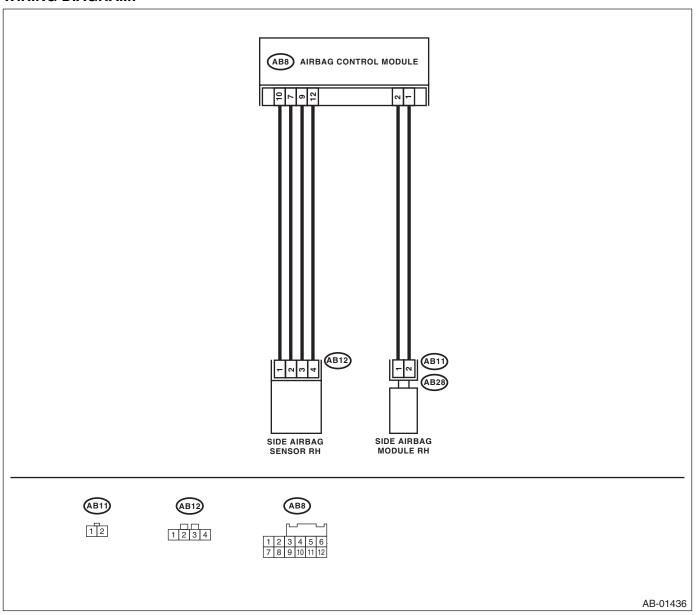
# W: DTC 41 SIDE AIRBAG RH FAILURE

# **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 terminal from battery, and wait for 20 seconds or more before starting to work.
- When inspecting the airbag main harness, disconnect the airbag module connectors of the driver's and passenger's seats for safety.
- When inspecting the side airbag harness, disconnect the side airbag module connector, and seat belt pretensioner connector for safety.



		110	F - U	/
	Step	Check	Yes	No C
1	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact?		Go to step 2.
	Check for poor contact of the connectors		airbag harness	MLE
	between the airbag control module, side airbag		(RH) along with the	
	module (RH) and the side airbag sensor (RH).	5	body harness.	0
2	CHECK SIDE AIRBAG MODULE.	Does the airbag warning light illuminate for 6 seconds and go	Replace the front	Go to step 3.
	<ol> <li>Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 sec-</li> </ol>	off?	seat along with side airbag module	
	onds or more.	OII:	(RH). <ref. se-<="" th="" to=""><th></th></ref.>	
	<ul><li>2) Disconnect connector (AB11) from side air-</li></ul>		7, Front Seat.>	
	bag module (RH), and connect connector (1F)		,	
	in test harness F to connector (AB11).			
	3) Connect the airbag resistor to the connector			
	(3F) of test harness F.			
	4) Connect the battery ground terminal and			
	turn the ignition switch to ON.			
3	CHECK SIDE AIRBAG HARNESS (RH).	Is the resistance less than 10	Go to step 4.	Replace the side
	1) Turn the ignition switch to OFF, disconnect	$\Omega$ ?		airbag harness
	the battery ground cable, and wait for 20 seconds or more.			along with the body harness.
	<ul><li>2) Disconnect connector (AB20) from seat belt</li></ul>			namess.
	pretensioner (RH).			
	3) Disconnect the airbag resistor from test har-			
	ness F.			
	4) Disconnect the connector (AB8) from airbag			
	control module.			
	5) Connect the connector (1R) in the test har-			
	ness R to connector (AB8).  6) Measure resistance between connector			
	(3R) in the test harness R and connector (3F) in			
	the test harness F.			
	Connector & terminal			
	(3R) No. 18 — (3F) No. 3:			
	(3R) No. 20 — (3F) No. 4:			
4	CHECK SIDE AIRBAG HARNESS (RH).	Is the resistance 1 ${ m M}\Omega$ or	Go to step 5.	Replace the side
	Measure resistance between connector (3R)	more?		airbag harness
	terminals in the test harness R.			along with the body
	Connector & terminal			harness.
_	(3R) No. 18 — (3R) No. 20:	La the vesistance 1 MO av	Co to oton C	Daniaca tha aida
5	CHECK SIDE AIRBAG HARNESS (RH).  Measure resistance between connector (3R) in	Is the resistance 1 M $\Omega$ or more?	Go to step 6.	Replace the side airbag harness
	the test harness R and chassis ground.	more:		along with the body
	Connector & terminal			harness.
	(3R) No. 18 — Chassis ground:			
	(3R) No. 20 — Chassis ground:			
6	CHECK AIRBAG CONTROL MODULE.	Is the same DTC displayed?	Replace the airbag	Go to step 7.
	Connect all connectors.		control module.	
	2) Erase the memory.		<ref. ab-17,<="" th="" to=""><th></th></ref.>	
	3) Perform the Inspection Mode.		Airbag Control	
<u> </u>	4) Read the DTC.	la any ather DTO di il 10	Module.>	Finish the self
7	CHECK FOR ANY OTHER DTC ON DISPLAY.	is any other DTC displayed?	Check DTC using	Finish the diagno-
			"List of Diagnostic Trouble Code	SiS.
			(DTC)". <ref. th="" to<=""><th> </th></ref.>	
			AB(diag)-43, List	
			of Diagnostic Trou-	
			ble Code (DTC).>	

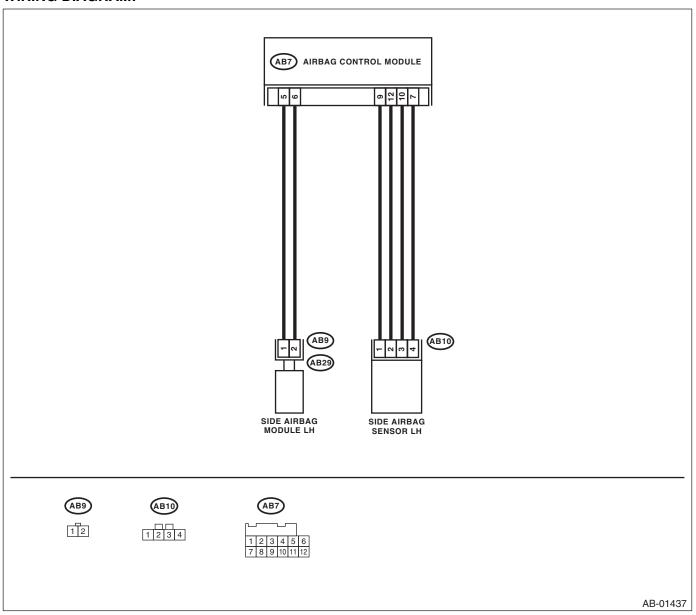
# X: DTC 42 SIDE AIRBAG LH FAILURE

# **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 terminal from battery, and wait for 20 seconds or more before starting to work.
- When inspecting the airbag main harness, disconnect the airbag module connectors of the driver's and passenger's seats for safety.
- When inspecting the side airbag harness, disconnect the side airbag module connector, and seat belt pretensioner connector for safety.



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	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNECTORS. Check for poor contact of the connectors between the airbag control module, side airbag module (LH) and the side airbag sensor (LH).	Is there poor contact?	Replace the side airbag harness (LH) along with body harness.	Go to step 2.
2	<ol> <li>CHECK SIDE AIRBAG MODULE.</li> <li>Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.</li> <li>Disconnect connector (AB9) from side airbag module (LH), and connect connector (1F) in test harness F to connector (AB9).</li> <li>Connect the airbag resistor to the connector (3F) of test harness F.</li> <li>Connect the battery ground terminal and turn the ignition switch to ON.</li> </ol>	Does the airbag warning light illuminate for 6 seconds and go off?	Replace the front seat along with side airbag module (LH). <ref. se-<br="" to="">7, 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 for 20 seconds or more.  2) Disconnect connector (AB19) from seat belt pretensioner (LH).  3) Disconnect the airbag resistor from test harness.  4) Disconnect the connector (AB7) from airbag control module.  5) Connect the connector (1R) in the test harness R to connector (AB7).  6) Measure resistance between connector (3R) in the test harness R and connector (3F) in the test harness F.  Connector & terminal  (3R) No. 12 — (3F) No. 4:  (3R) No. 10 — (3F) No. 3:	Is the resistance less than 10 $\Omega$ ?	Go to step 4.	Replace the side airbag harness along with the body harness.
4	CHECK SIDE AIRBAG HARNESS (LH).  Measure resistance between connector (3R) terminals in the test harness R.  Connector & terminal  (3R) No. 12 — (3R) No. 10:	Is the resistance 1 $M\Omega$ or more?	Go to step 5.	Replace the side airbag harness along with the body harness.
5	CHECK SIDE AIRBAG HARNESS (LH).  Measure resistance between connector (3R) in the test harness R and chassis ground.  Connector & terminal  (3R) No. 10 — Chassis ground:  (3R) No. 12 — Chassis ground:	Is the resistance 1 $M\Omega$ or more?	Go to step 6.	Replace the side airbag harness along with the body harness.
6	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors. 2) Erase the memory. 3) Perform the Inspection Mode. 4) Read the DTC.	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-17,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 7.
7	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using "List of Diagnostic Trouble Code (DTC)". <ref. (dtc).="" ab(diag)-43,="" ble="" code="" diagnostic="" list="" of="" to="" trou-=""></ref.>	Finish the diagnosis.

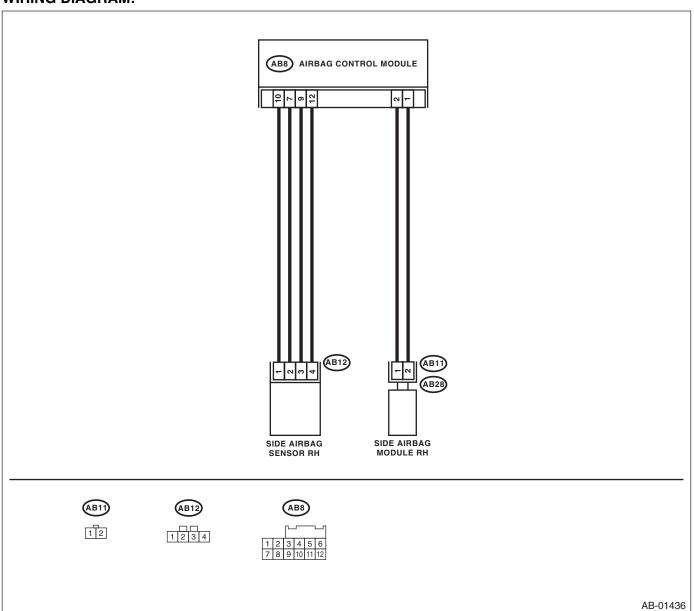
# Y: DTC 45 SIDE AIRBAG RH FAILURE

# **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 terminal from battery, and wait for 20 seconds or more before starting to work.
- When inspecting the airbag main harness, disconnect the airbag module connectors of the driver's and passenger's seats for safety.
- When inspecting the side airbag harness, disconnect the side airbag module connector, and seat belt pretensioner connector for safety.



AIRBAG SYSTEM (DIAGNOSTICS)

			TENE	Frie .
	Step	Check	Yes	- No St.
1	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact?		Go to step 2.
	Check for poor contact of the connectors between the airbag control module, side airbag		airbag harness (RH) along with the	LILE
	module (RH) and the side airbag sensor (RH).		body harness.	
2	CHECK SIDE AIRBAG MODULE.	Does the airbag warning light	Replace the front	Go to step 3.
-	Turn the ignition switch to OFF, disconnect	illuminate for 6 seconds and go	seat along with	αο το στερ <b>σ</b> .
	the battery ground cable, and wait for 20 sec-	off?	side airbag module	
	onds or more.		(RH). <ref. se-<="" th="" to=""><th></th></ref.>	
	2) Disconnect connector (AB11) from side air-		7, Front Seat.>	
	bag module (RH), and connect connector (1F)			
	in test harness F to connector (AB11).			
	3) Connect the airbag resistor to the connector			
	(3F) of test harness F.			
	Connect the battery ground terminal and			
	turn 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
	1) Turn the ignition switch to OFF, disconnect			airbag harness
	the battery ground cable, and wait for 20 sec-			along with the body
	onds or more. 2) Disconnect connector (AB20) from seat belt			harness.
	pretensioner (RH).			
	<ul><li>3) Disconnect the airbag resistor from test har-</li></ul>			
	ness.			
	4) Disconnect the connector (AB8) from airbag			
	control module.			
	5) Connect the connector (1R) in the test har-			
	ness R to connector (AB8).			
	6) Connect the battery ground terminal and			
	turn the ignition switch to ON.			
	7) Measure the voltage between connector			
	(3R) in the test harness R and 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.
1	Connect all connectors.	and tame 2 . O diopia; od .	control module.	10 010p <b>0</b> 1
	2) Erase the memory.		<ref. ab-17,<="" th="" to=""><th></th></ref.>	
	3) Perform the Inspection Mode.		Airbag Control	
	4) Read the DTC.		Module.>	
5	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using	Finish the diagno-
			"List of Diagnostic	sis.
			Trouble Code	
			(DTC)". <ref. th="" to<=""><th></th></ref.>	
			AB(diag)-43, List	
			of Diagnostic Trou-	
			ble Code (DTC).>	

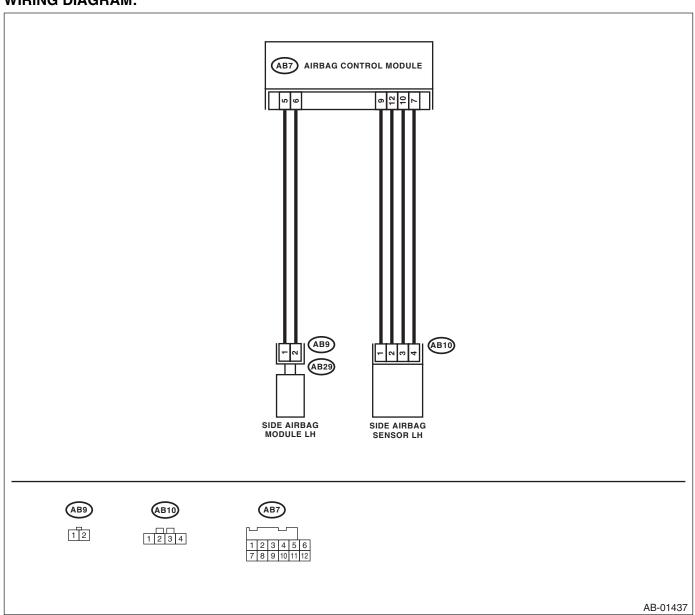
# **Z: DTC 46 SIDE AIRBAG LH FAILURE**

# **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 terminal from battery, and wait for 20 seconds or more before starting to work.
- When inspecting the airbag main harness, disconnect the airbag module connectors of the driver's and passenger's seats for safety.
- When inspecting the side airbag harness, disconnect the side airbag module connector, and seat belt pretensioner connector for safety.



AIRBAG SYSTEM (DIAGNOSTICS)

		/ V C	Tra 40	/ E.
	Step	Check	Yes	No C
1	CHECK POOR CONTACT OF CONNECTORS.  Check for poor contact of the connectors between the airbag control module, side airbag module (LH) and the side airbag sensor (LH).	Is there poor contact?	Replace the side airbag harness (LH) along with body harness.	Go to step 2.
2	CHECK SIDE AIRBAG MODULE.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Disconnect connector (AB9) from side airbag module (LH), and connect connector (1F) in test harness F to connector (AB9).  3) Connect the airbag resistor to the connector (3F) of test harness F.  4) Connect the battery ground terminal and turn the ignition switch to ON.	Does the airbag warning light illuminate for 6 seconds and go off?	Replace the front seat along with side airbag module (LH). <ref. se-<br="" to="">7, 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 for 20 seconds or more.  2) Disconnect connector (AB19) from seat belt pretensioner (LH).  3) Disconnect the airbag resistor from test harness.  4) Disconnect the connector (AB7) from airbag control module.  5) Connect the connector (1R) in the test harness R to connector (AB7).  6) Connect the battery ground terminal and turn the ignition switch to ON.  7) Measure the voltage between connector (3R) in the test harness R and chassis ground.  Connector & terminal  (3R) No. 10 (+) — Chassis ground (-):  (3R) No. 12 (+) — Chassis ground (-):		Go to step 4.	Replace the side airbag harness along with the body harness.
4	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors. 2) Erase the memory. 3) Perform the Inspection Mode. 4) Read the DTC.	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-17,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 5.
5	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using "List of Diagnostic Trouble Code (DTC)". <ref. (dtc).="" ab(diag)-43,="" ble="" code="" diagnostic="" list="" of="" to="" trou-=""></ref.>	Finish the diagnosis.

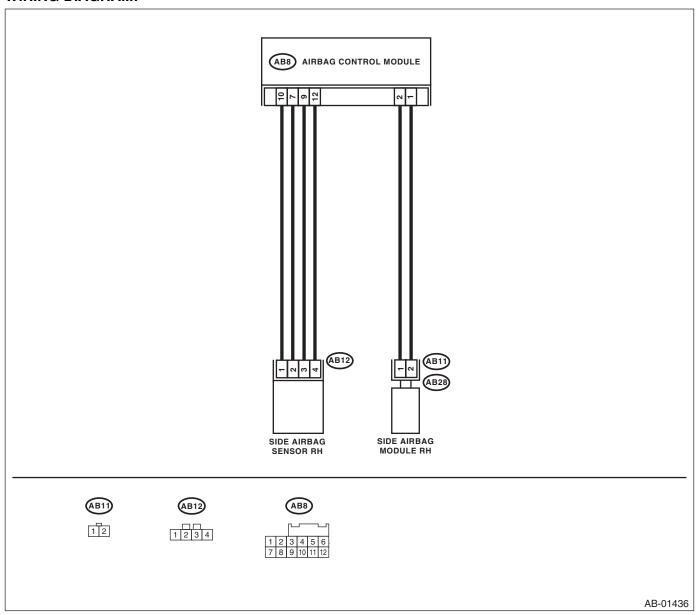
# AA:DTC 51 SIDE AIRBAG SENSOR RH FAILURE

# **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 terminal from battery, and wait for 20 seconds or more before starting to work.
- When inspecting the airbag main harness, disconnect the airbag module connectors of the driver's and passenger's seats for safety.
- When inspecting the side airbag harness, disconnect the side airbag module connector, and seat belt pretensioner connector for safety.



	<b>A</b> 1	NO.	TENTO	Eria -
	Step	Check	Yes	No
1	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact?	Replace the side	Go to step 2.
	Check for poor contact of the connectors		airbag harness	TALE
	between the airbag control module, side airbag		(RH) along with the	
	module (RH) and the side airbag sensor (RH).		body harness.	
2	CHECK SIDE AIRBAG HARNESS (RH).	Is the resistance less than 10	Go to step 3.	Replace the side
	1) Turn the ignition switch to OFF, disconnect	$\Omega$ ?		airbag harness
	the battery ground cable, and wait for 20 seconds or more.			along with the body harness.
	<ul><li>2) Disconnect connector (AB20) from seat belt</li></ul>			namess.
	pretensioner (RH).			
	3) Disconnect the connector (AB8) from airbag			
	control module.			
	4) Connect the connector (1R) in the test har-			
	ness R to connector (AB8).			
	5) Disconnect connector (AB20) from side air-			
	bag sensor (RH), and connect connector (2V) in			
	test harness V to connector (AB20).			
	<ol><li>Measure resistance between connector</li></ol>			
	(4R) in the test harness R and connector (3V) in			
	the test harness V.			
	Connector & terminal			
	(4R) No. 5 — (3V) No. 2:			
	(4R) No. 6 — (3V) No. 4:			
	(4R) No. 7 — (3V) No. 1: (4R) No. 8 — (3V) No. 5:			
3	CHECK SIDE AIRBAG HARNESS.	Is the resistance 1 M $\Omega$ or	Co to oton 4	Donland the side
3	Measure resistance between connector (4R)	more?	Go to step 4.	Replace the side airbag harness
	terminals in the test harness R, and the resis-	more:		along with the body
	tance between connector (4R) in the test har-			harness.
	ness R and chassis ground.			
	Connector & terminal			
	(4R) No. 5 — (4R) No. 7:			
	(4R) No. 5 — (4R) No. 6:			
	(4R) No. 5 — (4R) No. 8:			
	(4R) No. 6 — (4R) No. 7:			
	(4R) No. 6 — (4R) No. 8:			
	(4R) No. 7 — (4R) No. 8:			
	(4R) No. 5 — Chassis ground: (4R) No. 6 — Chassis ground:			
	(4R) No. 7 — Chassis ground: (4R) No. 7 — Chassis ground:			
	(4R) No. 8 — Chassis ground:			
4	CHECK AIRBAG CONTROL MODULE.	Is the same DTC displayed?	Replace the side	Go to step 5.
•	Connect all connectors.	is the same DTO displayed!	airbag sensor (RH).	αο το στ <del>ο</del> ρ <b>σ</b> .
	Erase the memory.		<ref. ab-18,<="" td="" to=""><td></td></ref.>	
	3) Perform the Inspection Mode.		Side Airbag Sen-	
	4) Read the DTC.		sor.> Replace the	
	,		airbag control mod-	
			ule if not operating	
			normally even after	
			replacing the sen-	
			sor. <ref. ab-17,<="" td="" to=""><td></td></ref.>	
			Airbag Control	
			Module.>	
5	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using	Finish the diagno-
			"List of Diagnostic	sis.
			Trouble Code	
			(DTC)". <ref. td="" to<=""><td></td></ref.>	
			AB(diag)-43, List of Diagnostic Trou-	
			ble Code (DTC).>	
		1	5.0 0000 (D 1 0)./	I

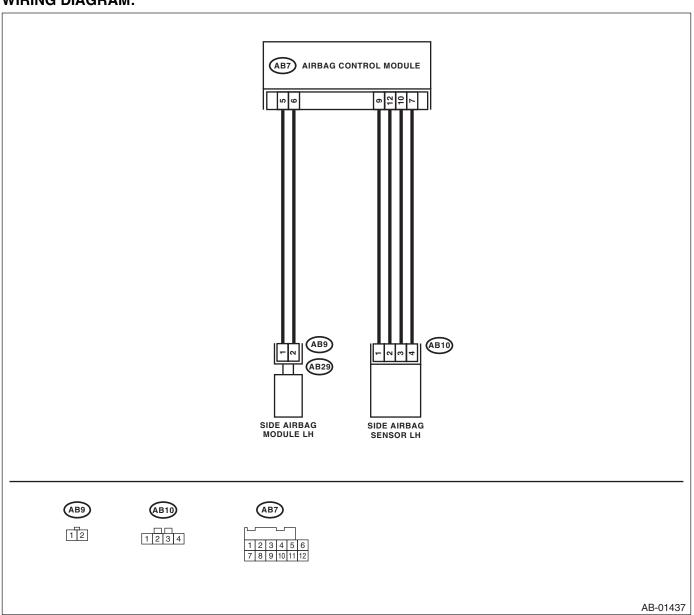
# **AB:DTC 52 SIDE AIRBAG SENSOR LH FAILURE**

# **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 terminal from battery, and wait for 20 seconds or more before starting to work.
- When inspecting the airbag main harness, disconnect the airbag module connectors of the driver's and passenger's seats for safety.
- When inspecting the side airbag harness, disconnect the side airbag module connector, and seat belt pretensioner connector for safety.



	01.	///	TENTO	/ Eria -
	Step	Check	Yes	No C
1	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact?	Replace the side	Go to step 2.
	Check for poor contact of the connectors		airbag harness	MLE
	between the airbag control module, side airbag		(LH) along with	
	module (LH) and the side airbag sensor (LH).		body harness.	
2	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	$\Omega$ ?		airbag harness
	the battery ground cable, and wait for 20 sec-			along with the body
	onds or more.			harness.
	2) Disconnect connector (AB19) from seat belt			
	pretensioner (LH).			
	<ol> <li>Disconnect connector (AB9) from side air- bag module (LH).</li> </ol>			
	4) Disconnect the connector (AB7) from airbag			
	control module.			
	5) Connect the connector (1R) in the test har-			
	ness R to connector (AB7).			
	6) Disconnect the connector (AB10) from side			
	airbag sensor (LH), and connect connector (2V)			
	in test harness V to connector (AB10).			
	7) Measure resistance between connector			
	(4R) in the test harness R and connector (3V) in			
	the test harness V.			
	Connector & terminal			
	(4R) No. 4 — (3V) No. 2:			
	(4R) No. 3 — (3V) No. 4:			
ı	(4R) No. 2 — (3V) No. 1:			
	(4R) No. 1 — (3V) No. 5:			
3	CHECK SIDE AIRBAG HARNESS (LH).	Is the resistance 1 $M\Omega$ or	Go to step 4.	Replace the side
	Measure resistance between connector (4R)	more?		airbag harness
	terminals in the test harness R, and the resis-			along with the body
	tance between connector (4R) in the test har-			harness.
	ness R and chassis ground.  Connector & terminal			
	(4R) No. 4 — (4R) No. 3:			
	(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 air-	Go to step 5.
	<ol> <li>Connect all connectors.</li> </ol>		bag sensor (LH).	
	<ol><li>Erase the memory.</li></ol>		<ref. ab-18,="" side<="" td="" to=""><td></td></ref.>	
	<ol><li>Perform the Inspection Mode.</li></ol>		Airbag Sensor.>	
	4) Read the DTC.		Replace the airbag	
			control module if not	
			operating normally	
			even after replacing	
			the sensor. <ref. td="" to<=""><td></td></ref.>	
			AB-17, Airbag Control Module.>	
5	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using	Finish the diagno-
J	CHECK TOTALL CHIER DIC ON DISPLAT.	lo arry outer DTO displayed!	"List of Diagnostic	sis.
			Trouble Code	
			(DTC)". <ref. td="" to<=""><td></td></ref.>	
			AB(diag)-43, List	
			of Diagnostic Trou-	
			ble Code (DTC).>	

AIRBAG SYSTEM (DIAGNOSTICS)

AC:DTC 53 SIDE AIRBAG SENSOR RH FAILURE

DTC DETECTING CONDITION:
Side airbag sensor (RH) is faulty.

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

<Ref. to AB-18, 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-18, Side Airbag Sensor.>

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

This code is displayed when the side airbag is operated.

Once this code is displayed, the memory cannot be cleared. Replace the following parts.

- Airbag control module <Ref. to AB-17, 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-18, Side Airbag Sensor. >

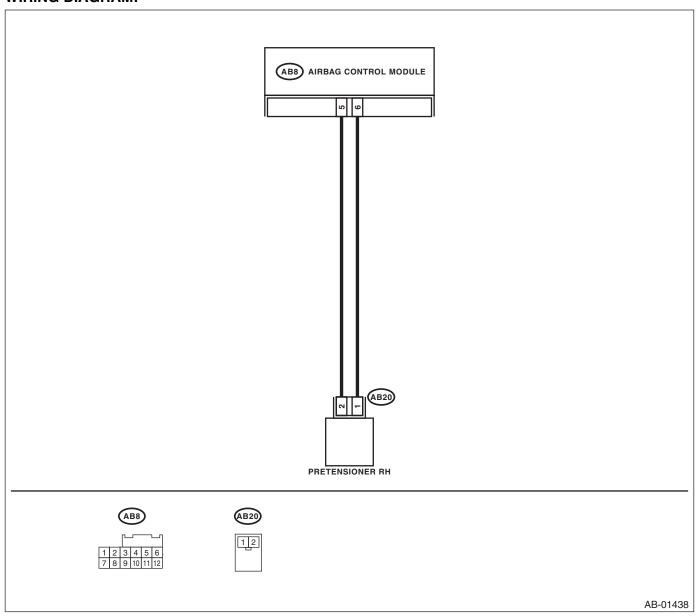
# **AF:DTC 61 BELT PRETENSIONER RH FAILURE**

# **DTC DETECTING CONDITION:**

- Seat belt pretensioner (RH) circuit is open, shorted, or ground shorted.
- 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 terminal from battery, and wait for 20 seconds or more before starting to work.
- When inspecting the side airbag harness, disconnect the side airbag module connector, and seat belt pretensioner connector for safety.



		NO	T - Uh	4.5
	Step	Check	Yes	C/No C
1	CHECK POOR CONTACT OF CONNECTORS. Check for poor contact of the connectors between the airbag control module and the seat belt pretensioner (RH).	Is there poor contact?	Replace the side airbag harness (RH) along with the 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 for 20 seconds or more.  2) Disconnect connector (AB20) from seat belt pretensioner (RH).  3) Connect connector (1N) in the test harness N to the connector (AB20).  4) Connect the airbag resistor to the connector (2N) of test harness N.  5) Connect the battery ground terminal and turn the ignition switch to ON.	Does the airbag warning light illuminate for 6 seconds and 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 for 20 seconds or more.  2) Disconnect the airbag resistor from test harness.  3) Disconnect connector (AB11) from side airbag module (RH).  4) Disconnect connectors (AB7) and (AB8) from airbag control module.  5) Connect the connector (1R) in the test harness R to connector (AB8).  6) Measure resistance between connector (3R) in the test harness R and connector (2N) in the test harness N.  Connector & terminal  (3R) No. 17 — (2N) No. 1:  (3R) No. 19 — (2N) No. 2:	Is the resistance less than 10 $\Omega$ ?	Go to step 4.	Replace the side airbag harness along with the body harness.
4	CHECK SIDE AIRBAG HARNESS (RH).  Measure resistance between connector (3R) terminals in the test harness R.  Connector & terminal  (3R) No. 17 — (3R) No. 19:	Is the resistance 1 $M\Omega$ or more?	Go to step 5.	Replace the side airbag harness along with the body harness.
5	CHECK SIDE AIRBAG HARNESS (RH).  Measure resistance between connector (3R) in the test harness R and chassis ground.  Connector & terminal  (3R) No. 17 — Chassis ground:  (3R) No. 19 — Chassis ground:	Is the resistance 1 $M\Omega$ or more?	Go to step 6.	Replace the side airbag harness along with the 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 the DTC.</li> </ol>	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-17,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 7.
7	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using "List of Diagnostic Trouble Code (DTC)". <ref. (dtc).="" ab(diag)-43,="" ble="" code="" diagnostic="" list="" of="" to="" trou-=""></ref.>	Finish the diagnosis.

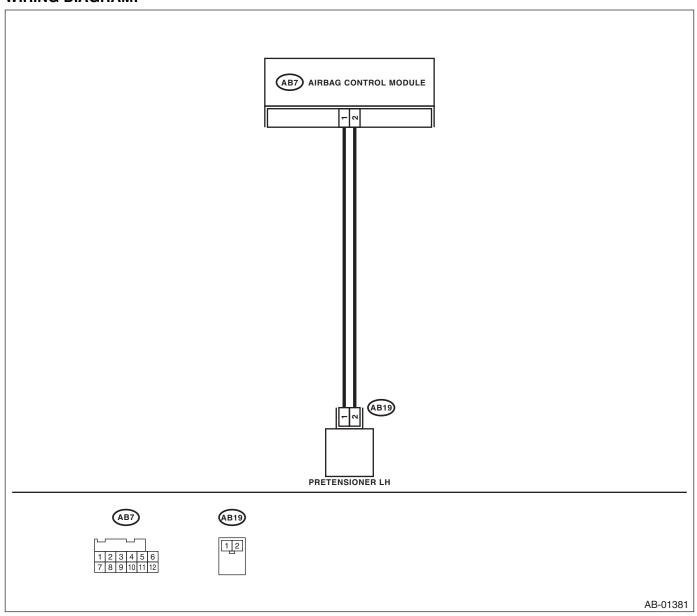
# **AG:DTC 62 BELT PRETENSIONER LH FAILURE**

# **DTC DETECTING CONDITION:**

- Seat belt pretensioner (LH) circuit is open, shorted, or ground shorted.
- 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 terminal from battery, and wait for 20 seconds or more before starting to work.
- When inspecting the side airbag harness, disconnect the side airbag module connector, and seat belt pretensioner connector for safety.



			7 - 4 0	/ Eur
	Step	Check	Yes	C/No C
1	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact?	Replace the side	Go to step 2.
	Check for poor contact of the connectors		airbag harness	-OALF
	between the airbag control module and the seat		(LH) along with body harness.	
	belt pretensioner (LH).	De estable e sinhe e no consideration de	•	0-110
2	CHECK SEAT BELT PRETENSIONER.  1) Turn the ignition switch to OFF, disconnect	Does the airbag warning light illuminate for 6 seconds and go	Replace the seat belt pretensioner	Go to step 3.
	the battery ground cable, and wait for 20 sec-	off?	(LH). <ref. sb-<="" td="" to=""><td></td></ref.>	
	onds or more.		10, Front Seat	
	2) Disconnect connector (AB19) from seat belt		Belt.>	
	pretensioner (LH).			
	3) Connect the connector (1N) in the test har-			
	ness N to the connector (AB19).			
	4) Connect the airbag resistor to the connector			
	(2N) of test harness N.			
	5) Connect the battery ground terminal and			
	turn the ignition switch to ON.		0 1 1	D 1 11 11
3	CHECK SIDE AIRBAG HARNESS (LH).	Is the resistance less than 10	Go to step 4.	Replace the side
	<ol> <li>Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 sec-</li> </ol>	Ω?		airbag harness along with the body
	onds or more.			harness.
	Disconnect the airbag resistor from test har-			
	ness.			
	3) Disconnect connector (AB9) from side air-			
	bag module (LH).			
	4) Disconnect connectors (AB7) and (AB8)			
	from airbag control module.			
	5) Connect the connector (1R) in the test harness R to connector (AB7).			
	6) Measure resistance between connector			
	(3R) in the test harness R and connector (2N) in			
	the test harness N.			
	Connector & terminal			
	(3R) No. 11 — (2N) No. 1:			
	(3R) No. 13 — (2N) No. 2:			
4	CHECK SIDE AIRBAG HARNESS (LH).	Is the resistance 1 $M\Omega$ or	Go to step 5.	Replace the side
	Measure resistance between connector (3R) terminals in the test harness R.	more?		airbag harness
	Connector & terminal			along with the body harness.
	(3R) No. 11 — (3R) No. 13:			namess.
5	CHECK SIDE AIRBAG HARNESS (LH).	Is the resistance 1 M $\Omega$ or	Go to step 6.	Replace the side
	Measure resistance between connector (3R) in	more?	33 to stop <b>3</b> .	airbag harness
	the test harness R and chassis ground.			along with the body
	Connector & terminal			harness.
	(3R) No. 11 — Chassis ground:			
	(3R) No. 13 — Chassis ground:			
6	CHECK AIRBAG CONTROL MODULE.	Is the same DTC displayed?	Replace the airbag	Go to step 7.
	Connect all connectors.		control module.	
	Erase the memory.     Porform the Inspection Mode.		<ref. ab-17,<="" td="" to=""><td></td></ref.>	
	<ul><li>3) Perform the Inspection Mode.</li><li>4) Read the DTC.</li></ul>		Airbag Control Module.>	
7	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using	Finish the diagno-
<b> </b> ′	CHECKTON ANT OTHER DIC ON DISPLAT.	lis any other DTO displayed?	"List of Diagnostic	sis.
			Trouble Code	
			(DTC)". <ref. td="" to<=""><td></td></ref.>	
			AB(diag)-43, List	
			of Diagnostic Trou-	
			ble Code (DTC).>	

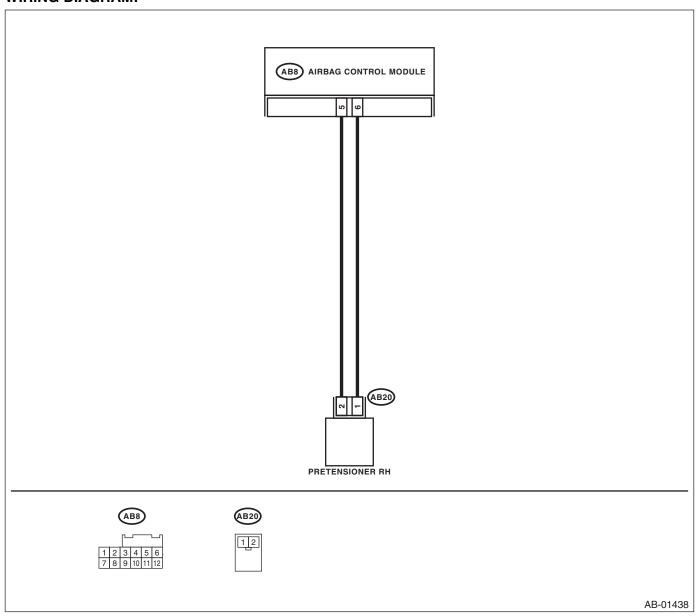
# **AH:DTC 65 BELT PRETENSIONER RH FAILURE**

# **DTC DETECTING CONDITION:**

- Seat belt pretensioner (RH) circuit is shorted to 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 terminal from battery, and wait for 20 seconds or more before starting to work.
- When inspecting the side airbag harness, disconnect the side airbag module connector, and seat belt pretensioner connector for safety.



# Diagnostic Chart with Trouble Code AIRBAG SYSTEM (DIAGNOSTICS)

		- NO	7 5 4 01	/ P
	Step	Check	Yes	E/No C
1	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact?	Replace the side	Go to step 2.
	Check for poor contact of the connectors		airbag harness	-OALE
	between the airbag control module and the seat		(RH) along with the	
	belt pretensioner (RH).		body harness.	
2	CHECK SEAT BELT PRETENSIONER.	Does the airbag warning light	Replace the seat	Go to step 3.
	<ol> <li>Turn the ignition switch to OFF, disconnect</li> </ol>	illuminate for 6 seconds and go	belt pretensioner	
	the battery ground cable, and wait for 20 sec-	off?	(RH). <ref. sb-<="" th="" to=""><th></th></ref.>	
	onds or more.		10, Front Seat	
	2) Disconnect connector (AB20) from seat belt		Belt.>	
	pretensioner (RH).			
	3) Connect connector (1N) in the test harness			
	N to the connector (AB20).			
	4) Connect the airbag resistor to the connector			
	(2N) of test harness N.			
	5) Connect the battery ground terminal and			
	turn 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
	1) Turn the ignition switch to OFF, disconnect			airbag harness
	the battery ground cable, and wait for 20 sec-			along with the body
	onds or more.			harness.
	2) Disconnect the airbag resistor from test har-			
	ness.			
	3) Disconnect connector (AB11) from side air-			
	bag module (RH).			
	<ol> <li>Disconnect connectors (AB7) and (AB8) from airbag control module.</li> </ol>			
	5) Connect the connector (1R) in the test har-			
	ness R to connector (AB8).			
	6) Connect the battery ground terminal and			
	turn the ignition switch to ON.			
	7) Measure the voltage between connector			
	(3R) in the test harness R and chassis ground.			
	Connector & terminal			
	(3R) No. 17 (+) — Chassis ground (–):			
	(3R) No. 19 (+) — Chassis ground (–):			
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-17,<="" th="" to=""><th> </th></ref.>	
	<ol><li>Perform the Inspection Mode.</li></ol>		Airbag Control	
	4) Read the DTC.		Module.>	
5	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using	Finish the diagno-
			"List of Diagnostic	sis.
			Trouble Code	
			(DTC)". <ref. th="" to<=""><th> </th></ref.>	
			AB(diag)-43, List	
			of Diagnostic Trou-	
			ble Code (DTC).>	

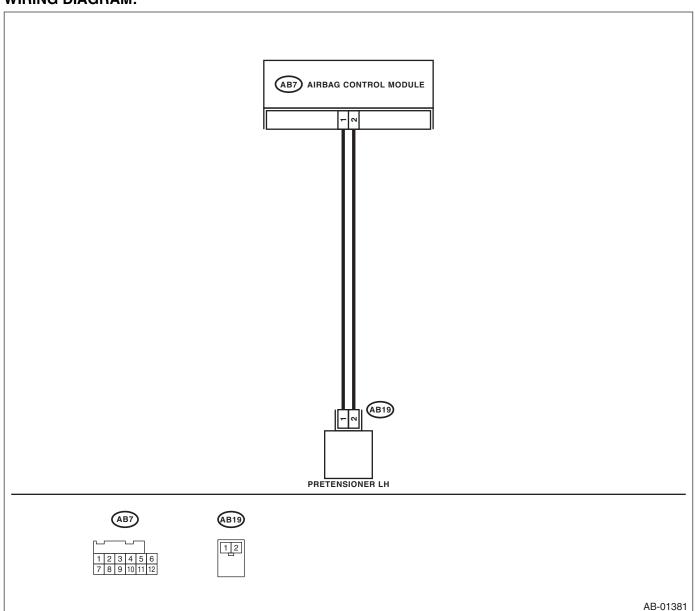
# **AI: DTC 66 BELT PRETENSIONER LH FAILURE**

# **DTC DETECTING CONDITION:**

- Seat belt pretensioner (LH) circuit is shorted to 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 terminal from battery, and wait for 20 seconds or more before starting to work.
- When inspecting the side airbag harness, disconnect the side airbag module connector, and seat belt pretensioner connector for safety.



# Diagnostic Chart with Trouble Code AIRBAG SYSTEM (DIAGNOSTICS)

		NO	17 - 4 DI	1.5	•
	Step	Check	Yes	No	
1	CHECK POOR CONTACT OF CONNECTORS. Check for poor contact of the connectors between the airbag control module and the seat belt pretensioner (LH).	·	Replace the side airbag harness (LH) along with body harness.	Go to step 2.	dios
2	CHECK SEAT BELT PRETENSIONER.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 seconds or more.  2) Disconnect connector (AB19) from seat belt pretensioner (LH).  3) Connect the connector (1N) in the test harness N to the connector (AB19).  4) Connect the airbag resistor to the connector (2N) of test harness N.  5) Connect the battery ground terminal and turn the ignition switch to ON.	Does the airbag warning light illuminate for 6 seconds and 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 for 20 seconds or more.  2) Disconnect the airbag resistor from test harness.  3) Disconnect connector (AB9) from side airbag module (LH).  4) Disconnect connectors (AB7) and (AB8) from airbag control module.  5) Connect the connector (1R) in the test harness R to connector (AB7).  6) Connect the battery ground terminal and turn the ignition switch to ON.  7) Measure the voltage between connector (3R) in the test harness R and chassis ground.  Connector & terminal  (3R) No. 11 (+) — Chassis ground (-):  (3R) No. 13 (+) — Chassis ground (-):	Is the voltage less than 1 V?	Go to step 4.	Replace the side airbag harness along with the body harness.	
4	CHECK AIRBAG CONTROL MODULE.  1) Connect all connectors.  2) Erase the memory.  3) Perform the Inspection Mode.  4) Read the DTC.	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-17,<br="" to="">Airbag Control Module.&gt;</ref.>	·	
5	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using "List of Diagnostic Trouble Code (DTC)". <ref. (dtc).="" ab(diag)-43,="" ble="" code="" diagnostic="" list="" of="" to="" trou-=""></ref.>	Finish the diagnosis.	

# AJ:DTC 71 DRIVER'S AIRBAG FAILURE

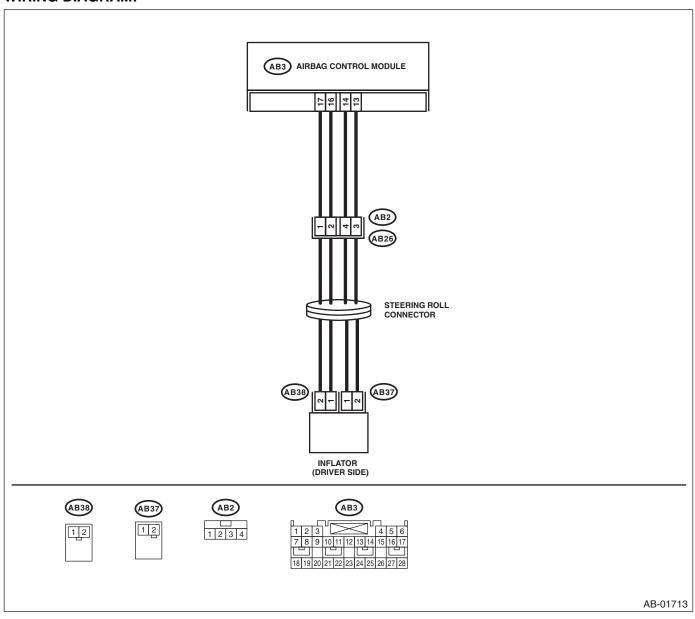
# **DTC DETECTING CONDITION:**

- · Airbag main harness circuit is open, shorted or ground shorted.
- T FOR RESALE Airbag module harness (Driver's side) circuit is open, shorted or ground shorted.
- Roll connector circuit is open, shorted or ground shorted.
- 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 terminal from battery, and wait for 20 seconds or more before starting to work.
- When replacing the airbag module, seat belt pretensioner, roll connector, control module and sensor, reconnect each part and check that the warning light operates properly.
- When inspecting the airbag main harness, disconnect the airbag module connectors and seat belt pretensioners of the driver's and passenger's seats for safety reasons.

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



		NO	7 JUL	2 h
	Step	Check	Yes	C/No C
1	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact?	Replace the airbag	Go to step 2.
	Check for poor contact of the connectors		main harness	-OALE
	between the airbag control module and the		along with body	
	driver's airbag module.		harness.	
2	CHECK DRIVER'S AIRBAG MODULE.	Does the airbag warning light	Replace the	Go to step 3.
	1) Turn the ignition switch to OFF, disconnect	illuminate for 6 seconds and go	driver's airbag	
	the battery ground cable, and wait for 20 sec-	off?	module. <ref. td="" to<=""><td></td></ref.>	
	onds or more.		AB-13, Driver's Air-	
	2) Remove the driver's airbag module.		bag Module.>	
	3) Connect the connector (1N) in the test har-			
	ness N to the connector (AB38). 4) Connect the airbag resistor to the connector			
	(2N) of test harness N.			
	5) Connect the connector (1Q) in the test har-			
	ness Q to connector (AB37).			
	6) Connect the airbag resistor to the connector			
	(2Q) in the test harness Q.			
	7) Connect the battery ground terminal and			
	turn the ignition switch to ON.			
3	CHECK ROLL CONNECTOR.	Does the airbag warning light	Replace the roll	Go to step 4.
	<ol> <li>Turn the ignition switch to OFF, disconnect</li> </ol>	illuminate for 6 seconds and go	connector. <ref. td="" to<=""><td></td></ref.>	
	the battery ground cable, and wait for 20 sec-	off?	AB-19, Roll Con-	
	onds or more.		nector.>	
	2) Disconnect the test harness N from connec-			
	tor (AB38).			
	<ol><li>Disconnect the test harness Q from connector (AB37).</li></ol>			
	4) Remove the instrument panel lower cover			
	and disconnect the connector (AB26) from			
	(AB2).			
	5) Connect the connector (1P) in the test har-			
	ness P to connector (AB2).			
	<ol><li>Connect the airbag resistor to the connec-</li></ol>			
	tors (2P) and (3P) of test harness P.			
	7) Connect the battery ground terminal and			
	turn the ignition switch to ON.		<u>-</u>	D 1 11 11
4	CHECK AIRBAG MAIN HARNESS (DRIV-	Is the resistance less than 10	Go to step 5.	Replace the airbag
	<ul><li>ER'S AIRBAG HARNESS).</li><li>1) Turn the ignition switch to OFF, disconnect</li></ul>	$\Omega$ ?		main harness along with body
	the battery ground cable, and wait for 20 sec-			harness.
	onds or more.			namoo.
	Disconnect the airbag resistor from the con-			
	nectors (2P) and (3P) of test harness P.			
	3) Remove the instrument panel side cover on			
	the passenger's side and disconnect connec-			
	tors (AB4) and (AB27).			
	4) Disconnect connector (AB3) from airbag			
	control module, and connect connector (1R) in the test harness U.			
	<ul><li>5) Measure the resistance between connector</li></ul>			
	(2R) in the test harness R and connectors (2P)			
	and (3P) in the 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. 4:			

AIRBAG SYSTEM (DIAGNOSTICS)

		NOT		
	Step	Check	Yes	ETNo C
5	CHECK AIRBAG MAIN HARNESS (DRIV-ER'S AIRBAG HARNESS).  Measure the resistance between connector (2R) terminals in the 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. 2 — Chassis ground: (2R) No. 8 — (2R) No. 12: (2R) No. 8 — Chassis ground: (2R) No. 12 — Chassis ground:	Is the resistance 1 MΩ or more?	Go to step 6.	Replace the airbag main harness along 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 the DTC.</li> </ol>	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-17,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 7.
7	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using "List of Diagnostic Trouble Code (DTC)". <ref. (dtc).="" ab(diag)-43,="" ble="" code="" diagnostic="" list="" of="" to="" trou-=""></ref.>	Finish the diagnosis.

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

# **DTC DETECTING CONDITION:**

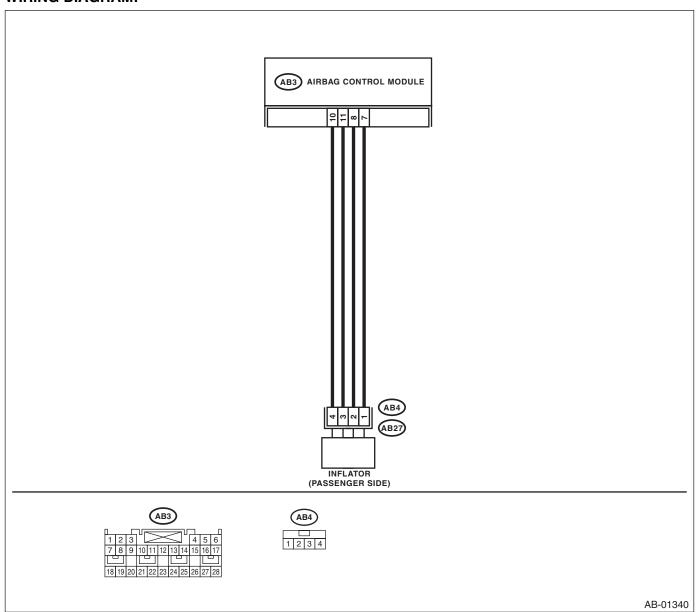
- Airbag harness is open, shorted or ground shorted.
- Airbag module (Passenger's side) circuit is open, shorted or ground shorted.
- Airbag control module is faulty.
- Passenger's airbag module is faulty.

# **CAUTION:**

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

# NOTE:

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



		NOT STUDY ST		
	Step	Check	Yes	C No.
1	CHECK POOR CONTACT OF CONNECTORS.  Check for poor contact of the connectors between the airbag control module and the passenger's airbag module.	Is there poor contact?	Replace the airbag main harness along with body harness.	Go to step 2.
2	CHECK PASSENGER'S AIRBAG MODULE.  1) Turn the ignition switch to OFF, disconnect the battery ground cable, and wait 20 seconds or more.  2) Remove the glove box.  3) Disconnect passenger's airbag module connector from (AB4).  4) Connect the connector (1P) in the test harness P to connector (AB4).  5) Connect two airbag resistors to connectors (2P) and (3P) of test harness P.  6) Connect the battery ground terminal and turn the ignition switch to ON.	Does the airbag warning light illuminate for 6 seconds and go off?	Replace the pas- senger's airbag module. <ref. to<br="">AB-14, 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 battery ground cable, and wait 20 seconds or more.  2) Disconnect two airbag resistors from connectors (2P) and (3P) of test harness P.  3) Remove the lower cover and disconnect connector (AB26) from (AB2).  4) Disconnect connector (AB3) from airbag control module, and connect the test harness R to connector (1R).  5) Measure the resistance between connector (2R) in the test harness R and connectors (2P) and (3P) in the test harness P.  Connector & terminal  (2R) No. 9 — (3P) No. 3:  (2R) No. 13 — (3P) No. 4:  (2R) No. 5 — (2P) No. 1:  (2R) No. 5 — (2P) No. 2:	Is the resistance less than 10 $\Omega$ ?	Go to step 4.	Replace the airbag main harness along with body harness.
4	CHECK AIRBAG MAIN HARNESS.  Measure the resistance of connector (2R) in the test harness R.  Connector & terminal  (2R) No. 9 — (2R) No. 13:  (2R) No. 9 — Chassis ground:  (2R) No. 13 — Chassis ground:  (2R) No. 3 — (2R) No. 5:  (2R) No. 3 — Chassis ground:  (2R) No. 5 — Chassis ground:	Is the resistance 1 $M\Omega$ or more?	Go to step 5.	Replace the airbag main harness along with body harness.
5	<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 the DTC.</li> </ol>	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-17,<br="" to="">Airbag Control Module.&gt;</ref.>	Go to step 6.
6	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using "List of Diagnostic Trouble Code (DTC)". <ref. (dtc).="" ab(diag)-43,="" ble="" code="" diagnostic="" list="" of="" to="" trou-=""></ref.>	Finish the diagnosis.

# **AL:DTC 75 DRIVER'S AIRBAG FAILURE**

# **DTC DETECTING CONDITION:**

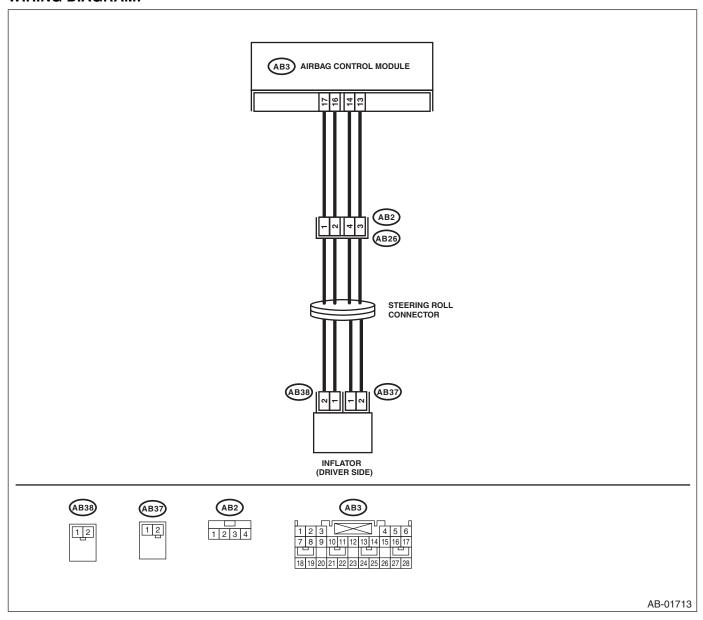
- Airbag main harness circuit (Driver's side) is shorted to power supply.
- · Airbag module harness circuit (Driver's side) is shorted to power supply.
- Roll connector is shorted to power supply.
- Driver's airbag module is faulty.
- Airbag control module is faulty.

# **CAUTION:**

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

### NOTF:

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



	Step	Check	Yes	CINO C.
1	CHECK POOR CONTACT OF CONNECTORS.		Replace the airbag	- The 17th But
•	Check for poor contact of the connectors	is there poor contact?	main harness	Go to step 2.
	between the airbag control module and the		along with body	. ILC
	driver's airbag module.		harness.	
2	CHECK DRIVER'S AIRBAG MODULE.	Does the airbag warning light	Replace the	Go to step 3.
_	Turn the ignition switch to OFF, disconnect	illuminate for 6 seconds and go	driver's airbag	do to step 3.
	the battery ground cable, and wait for 20 sec-	off?	module. <ref. td="" to<=""><td></td></ref.>	
	onds or more.		AB-13, Driver's Air-	
	2) Remove the driver's airbag module.		bag Module.>	
	3) Connect the connector (AB38) to the con-			
	nector (1N) in the test harness N.			
	4) Connect the airbag resistor to the connector			
	(2N) of test harness N.			
	5) Connect the connector (1Q) in the test har-			
	ness Q to connector (AB37).			
	6) Connect the airbag resistor to the connector			
	(2Q) in the test harness Q.			
	7) Connect the battery ground terminal 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 and go	connector. <ref. td="" to<=""><td></td></ref.>	
	the battery ground cable, and wait for 20 seconds or more.	off?	AB-19, Roll Con- nector.>	
	<ul><li>2) Disconnect the test harness N from connec-</li></ul>		nector.>	
	tor (AB38).			
	3) Disconnect the test harness Q from connec-			
	tor (AB37).			
	Remove the instrument panel lower cover			
	and disconnect the connector (AB26) from			
	(AB2).			
	5) Connect the connector (1P) in the test har-			
	ness P to connector (AB2).			
	6) Connect the airbag resistor to the connec-			
	tors (2P) and (3P) of test harness P.			
	7) Connect the battery ground terminal 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
	<ol> <li>Turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 20 sec-</li> </ol>			along with body harness.
	onds or more.			namess.
	<ul><li>2) Disconnect the airbag resistor from the con-</li></ul>			
	nectors (2P) and (3P) of test harness P.			
	3) Remove the instrument panel side cover on			
	the passenger's side and disconnect connec-			
	tors (AB4) and (AB27).			
	4) Disconnect the connector (AB6) from airbag			
	control module, and connect the connector (1R)			
	in the test harness R.			
	5) Connect the battery ground terminal and			
	turn the ignition switch to ON. (engine OFF)			
	6) Measure the voltage between connector			
	(2R) in the test harness R and chassis ground.			
	Connector & terminal			
	(2R) No. 4 (+) — Chassis ground (–): (2R) No. 2 (+) — Chassis ground (–):			
	(2R) No. 8 (+) — Chassis ground (–):			

# Diagnostic Chart with Trouble Code AIRBAG SYSTEM (DIAGNOSTICS)

			17 - 4 0	2.3%
	Step	Check	Yes	C/No C
5	<ul><li>CHECK AIRBAG CONTROL MODULE.</li><li>1) Connect all connectors.</li><li>2) Erase the memory.</li></ul>	Is the same DTC displayed?	Replace the airbag control module. <ref. ab-17,<="" th="" to=""><th>Go to step 6.</th></ref.>	Go to step 6.
	<ul><li>3) Perform the Inspection Mode.</li><li>4) Read the DTC.</li></ul>		Airbag Control Module.>	
6	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using "List of Diagnostic Trouble Code (DTC)". <ref. to<br="">AB(diag)-43, List of Diagnostic Trou-</ref.>	Finish the diagnosis.
			ble Code (DTC).>	

# AM:DTC 76 PASSENGER'S AIRBAG FAILURE

# **DTC DETECTING CONDITION:**

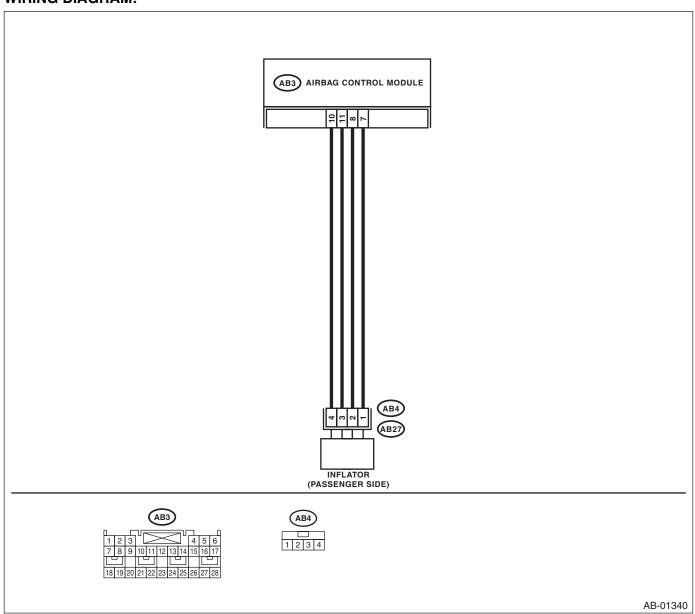
- Airbag main harness (Passenger's side) is shorted to power supply.
- Airbag module harness (Passenger's side) is shorted to power supply.
- Airbag control module is faulty.
- · Passenger's airbag module is faulty.

# **CAUTION:**

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

# NOTE:

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



# Diagnostic Chart with Trouble Code AIRBAG SYSTEM (DIAGNOSTICS)

	NOTEDUE			15
	Step	Check	Yes	No C
1	CHECK POOR CONTACT OF CONNECTORS.	Is there poor contact?	Replace the airbag	Go to step 2.
	Check for poor contact of the connectors		main harness	MLE
	between the airbag control module and the pas-		along with body	
	senger's airbag module.		harness.	0
2	CHECK PASSENGER'S AIRBAG MODULE.	Does the airbag warning light	Replace the pas-	Go to step 3.
	<ol> <li>Turn the ignition switch to OFF, disconnect the battery ground cable, and wait 20 seconds</li> </ol>	illuminate for 6 seconds and go off?	senger's airbag module. <ref. th="" to<=""><th></th></ref.>	
	or more.	OII!	AB-14, Passen-	
	2) Remove the glove box.		ger's Airbag Mod-	
	3) Disconnect connector (AB4) from passen-		ule.>	
	ger's airbag module.			
	4) Connect the connector (1P) in the test har-			
	ness P to connector (AB4).			
	5) Connect two airbag resistors to connectors			
	(2P) and (3P) of test harness P.			
	<ol><li>Connect the battery ground terminal and</li></ol>			
	turn the ignition switch to ON.			
3	CHECK AIRBAG MAIN HARNESS.	Is the voltage less than 1 V?	Go to step 4.	Replace the airbag
	Turn the ignition switch to OFF, disconnect			main harness
	the battery ground cable, and wait 20 seconds			along with body
	or more.			harness.
	<ol><li>Disconnect two airbag resistors from con- nectors (2P) and (3P) of test harness P.</li></ol>			
	3) Remove the lower cover and disconnect			
	connector (AB2) from (AB26).			
	4) Disconnect connector (AB3) from airbag			
	control module, and connect the test harness R			
	to connector (1R).			
	5) Connect the battery ground terminal and			
	turn the ignition switch to ON.			
	<ol><li>Measure the voltage between connector</li></ol>			
	(2R) in the test harness R and chassis ground.			
	Connector & terminal			
	(2R) No. 9 (+) — Chassis ground (-):			
	(2R) No. 13 (+) — Chassis ground (–): (2R) No. 5 (+) — Chassis ground (–):			
	(2R) No. 3 (+) — Chassis ground (-):			
4	CHECK AIRBAG CONTROL MODULE.	Is the same DTC displayed?	Replace the airbag	Go to step 5
	Connect all connectors.	le and dame by o displayed:	control module.	ωο το στορ <b>σ</b> .
	2) Erase the memory.		<ref. ab-17,<="" td="" to=""><td></td></ref.>	
	3) Perform the Inspection Mode.		Airbag Control	
	4) Read the DTC.		Module.>	
5	CHECK FOR ANY OTHER DTC ON DISPLAY.	Is any other DTC displayed?	Check DTC using	Finish the diagno-
			"List of Diagnostic	sis.
			Trouble Code	
			(DTC)". <ref. td="" to<=""><td></td></ref.>	
			AB(diag)-43, List	
			of Diagnostic Trou-	
1			ble Code (DTC).>	

AIRBAG SYSTEM (DIAGNOSTICS)

