### A: LIST OF TROUBLE CODE

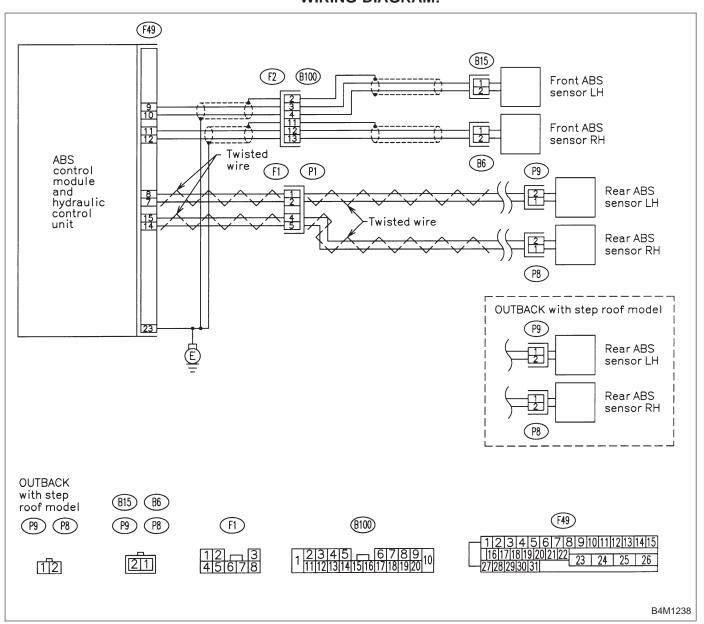
Trouble code	Contents	of diagnosis	Ref. to
11	Start code  Trouble code is shown after start code. Only start code is shown in normal condition.		_
21		Front right ABS sensor	4-4d [T8B0]
23	Abnormal ABS sensor	Front left ABS sensor	4-4d [T8C0]
25	(Open circuit or input voltage too high)	Rear right ABS sensor	4-4d [T8D0]
27		Rear left ABS sensor	4-4d [T8E0]
22		Front right ABS sensor	4-4d [T8F0]
24		Front left ABS sensor	4-4d [T8G0]
26	Abnormal ABS sensor (Abnormal ABS sensor signal)	Rear right ABS sensor	4-4d [T8H0]
28	(Abhornal Abo sensor signal)	Rear left ABS sensor	4-4d [T8I0]
29		Any one of four	4-4d [T8J0]
31		Front right inlet valve	4-4d [T8K0]
32		Front right outlet valve	4-4d [T8O0]
33		Front left inlet valve	4-4d [T8L0]
34	Abnormal solenoid valve circuit(s) in ABS	Front left outlet valve	4-4d [T8P0]
35	control module and hydraulic unit	Rear right inlet valve	4-4d [T8M0]
36		Rear right outlet valve	4-4d [T8Q0]
37		Rear left inlet valve	4-4d [T8N0]
38	1	Rear left outlet valve	4-4d [T8R0]
41	Abnormal ABS control module	1	4-4d [T8S0]
42	Source voltage is abnormal.		
44	A combination of AT control abnormal		4-4d [T8U0]
51	Abnormal valve relay		4-4d [T8V0]
52	Abnormal motor and/or motor relay		4-4d [T8W0]
54	Abnormal stop light switch		4-4d [T8X0]
56	Abnormal G sensor output voltage		4-4d [T8Y0]

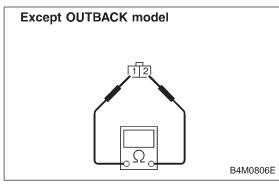
B: TROUBLE CODE 21 (FRONT RH)
C: TROUBLE CODE 23 (FRONT LH)
D: TROUBLE CODE 25 (REAR RH)
E: TROUBLE CODE 27 (REAR LH)
— ABNORMAL ABS SENSOR (OPEN CIRCUIT OR INPUT VOLTAGE TOO HIGH) —
DIAGNOSIS:

- Faulty ABS sensor (Broken wire, input voltage too high)
- Faulty harness connector

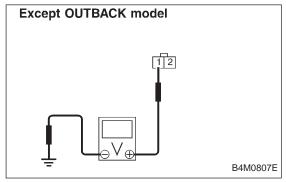
### TROUBLE SYMPTOM:

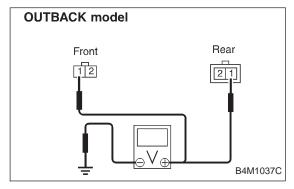
ABS does not operate.





# OUTBACK model Front Rear Quite Sear Rear Rear Rear Rear B4M1036C





### 8E1 CHECK ABS SENSOR.

- 1) Turn ignition switch to OFF.
- 2) Disconnect connector from ABS sensor.
- 3) Measure resistance of ABS sensor connector terminals.

#### Terminal

Front RH No. 1 — No. 2: Front LH No. 1 — No. 2: Rear RH No. 1 — No. 2: Rear LH No. 1 — No. 2:

CHECK): Is the resistance between 0.8 and 1.2 k $\Omega$ ?

YES : Go to step 8E2.

(NO): Replace ABS sensor.

### 8E2 CHECK BATTERY SHORT OF ABS SENSOR.

- 1) Disconnect connector from ABSCM&H/U.
- 2) Measure voltage between ABS sensor and chassis ground.

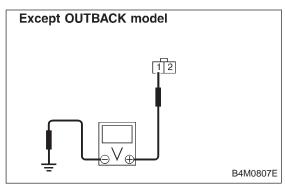
#### Terminal

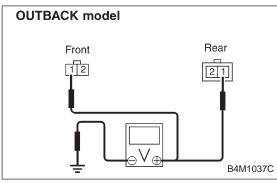
Front RH No. 1 (+) — Chassis ground (-): Front LH No. 1 (+) — Chassis ground (-): Rear RH No. 1 (+) — Chassis ground (-): Rear LH No. 1 (+) — Chassis ground (-):

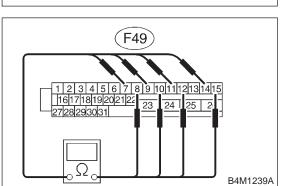
CHECK : Is the voltage less than 1 V?

YES : Go to step **8E3**.

NO : Replace ABS sensor.







8E3 CHECK BATTERY SHORT OF ABS	SEN-
--------------------------------	------

- 1) Turn ignition switch to ON.
- 2) Measure voltage between ABS sensor and chassis ground.

#### Terminal

8E4

Front RH No. 1 (+) — Chassis ground (-): Front LH No. 1 (+) — Chassis ground (-): Rear RH No. 1 (+) — Chassis ground (-): Rear LH No. 1 (+) — Chassis ground (-):

CHECK): Is the voltage less than 1 V?

YES: Go to step **8E4**.

NO: Replace ABS sensor.

CHECK HARNESS/CONNECTOR

1) Turn ignition switch to OFF.

SOR.

- 2) Connect connector to ABS sensor.
- 3) Measure resistance between ABSCM&H/U connector terminals.

BETWEEN ABSCM&H/U AND ABS SEN-

#### Connector & terminal

Trouble code 21 / (F49) No. 11 — No. 12: Trouble code 23 / (F49) No. 9 — No. 10: Trouble code 25 / (F49) No. 14 — No. 15:

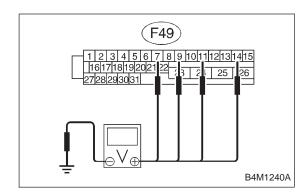
Trouble code 27 / (F49) No. 7 — No. 8:

(CHECK) : Is the resistance between 0.8 and 1.2 k $\Omega$ ?

(YES): Go to step 8E5.

No : Repair harness/connector between ABSCM&H/U

and ABS sensor.



### 8E5 CHECK BATTERY SHORT OF HARNESS.

Measure voltage between ABSCM&H/U connector and chassis ground.

Connector & terminal

Trouble code 21 / (F49) No. 11 (+) — Chassis ground (-):

Trouble code 23 / (F49) No. 9 (+) — Chassis ground (-):

Trouble code 25 / (F49) No. 14 (+) — Chassis ground (-):

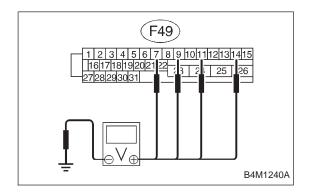
Trouble code 27 / (F49) No. 7 (+) — Chassis ground (-):

CHECK : Is the voltage less than 1 V?

YES: Go to step 8E6.

No : Repair harness between ABSCM&H/U and ABS

sensor.



### 8E6 CHECK BATTERY SHORT OF HARNESS.

1) Turn ignition switch to ON.

2) Measure voltage between ABSCM&H/U connector and chassis ground.

Connector & terminal

Trouble code 21 / (F49) No. 11 (+) — Chassis ground (–):

Trouble code 23 / (F49) No. 9 (+) — Chassis ground (-):

Trouble code 25 / (F49) No. 14 (+) — Chassis ground

Trouble code 27 / (F49) No. 7 (+) — Chassis ground (-):

CHECK : Is the voltage less than 1 V?

YES : Go to step 8E7.

Repair harness between ABSCM&H/U and ABS sensor.

8E7 CHECK INSTALLATION OF ABS SENSOR.

Tightening torque:

 $32\pm10 \text{ N/m}$  (3.3±1.0 kg-m, 24±7 ft-lb)

CHECK : Are the ABS sensor installation bolts tightened securely?

YES : Go to step 8E8.

(NO): Tighten ABS sensor installation bolts securely.

8E8 CHECK INSTALLATION OF TONE WHEEL.

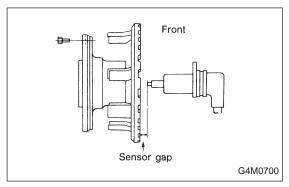
### Tightening torque:

13±3 N·m (1.3±0.3 kg-m, 9±2.2 ft-lb)

: Are the tone wheel installation bolts tightened securely?

YES : Go to step 8E9.

NO: Tighten tone wheel installation bolts securely.





Measure tone wheel-to-pole piece gap over entire perimeter of the wheel.

CHECK : Is the gap within the specifications shown in the following table?

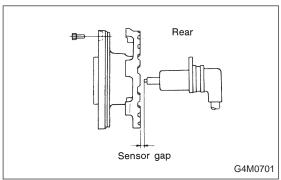
Front wheel	Rear wheel
	0.7 — 1.2 mm (0.028 — 0.047 in)

YES: Go to step **8E10**.

NO: Adjust the gap.

NOTE:

Adjust the gap using spacers (Part No. 26755AA000). If spacers cannot correct the gap, replace worn sensor or worn tone wheel.



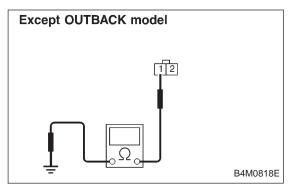
8E10 CHECK HUB RUNOUT.

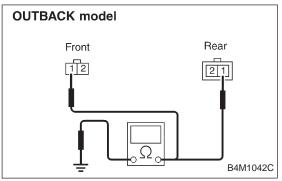
Measure hub runout.

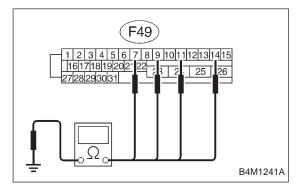
CHECK): Is the runout less than 0.05 mm (0.0020 in)?

Go to step **8E11**.

Repair hub.







### 8E11 CHECK GROUND SHORT OF ABS SENSOR.

- 1) Turn ignition switch to ON.
- 2) Measure resistance between ABS sensor and chassis ground.

### Terminal

Front RH No. 1 — Chassis ground: Front LH No. 1 — Chassis ground: Rear RH No. 1 — Chassis ground: Rear LH No. 1 — Chassis ground:

(CHECK) : Is the resistance more than 1 M $\Omega$ ?

YES: Go to step 8E12.

(NO): Replace ABS sensor and ABSCM&H/U.

### 8E12 CHECK GROUND SHORT OF HARNESS.

- 1) Turn ignition switch to OFF.
- 2) Connect connector to ABS sensor.
- 3) Measure resistance between ABSCM&H/U connector terminal and chassis ground.

### Connector & terminal

Trouble code 21 / (F49) No. 11 — Chassis ground: Trouble code 23 / (F49) No. 9 — Chassis ground: Trouble code 25 / (F49) No. 14 — Chassis ground: Trouble code 27 / (F49) No. 7 — Chassis ground:

 $_{
m CHECK}$  : Is the resistance more than 1 M $\Omega$ ?

(YES): Go to step 8E13.

(NO): Repair harness between ABSCM&H/U and ABS

sensor.

Replace ABSCM&H/U.

CHECK: Is there poor contact in connectors between ABSCM&H/U and ABS sensor? <Ref. to FOREWORD [T3C1].>

Repair connector.

On : Go to step 8E14.

8E14 CHECK ABSCM&H/U.

- 1) Connect all connectors.
- 2) Erase the memory.
- 3) Perform inspection mode.
- 4) Read out the trouble code.

diagnosis still being output?

(YES): Replace ABSCM&H/U.

(NO) : Go to step **8E15**.

8E15 CHECK ANY OTHER TROUBLE CODES APPEARANCE.

CHECK): Is the same trouble code as in the current

CHECK : Are other trouble codes being output?

Proceed with the diagnosis corresponding to the

trouble code.

No : A temporary poor contact.

NOTE:

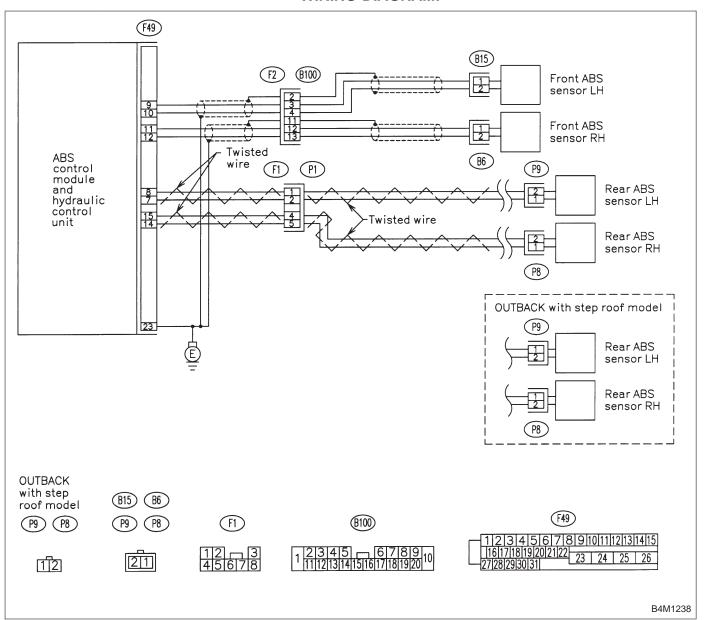
Check harness and connectors between ABSCM&H/U and ABS sensor.

F: TROUBLE CODE 22 (FRONT RH)
G: TROUBLE CODE 24 (FRONT LH)
H: TROUBLE CODE 26 (REAR RH)
I: TROUBLE CODE 28 (REAR LH)
— ABNORMAL ABS SENSOR (ABNORMAL
ABS SENSOR SIGNAL) —

- DIAGNOSIS:Faulty ABS sensor signal (noise, irregular signal, etc.)
- Faulty harness/connector

### **TROUBLE SYMPTOM:**

ABS does not operate.



8I1 CHECK INSTALLATION OF ABS SENSOR.

Tightening torque:

32±10 N·m (3.3±1.0 kg-m, 24±7 ft-lb)

CHECK : Are the ABS sensor installation bolts tightened securely?

(YES) : Go to step 8I2.

: Tighten ABS sensor installation bolts securely.

8I2 CHECK INSTALLATION OF TONE WHEEL.

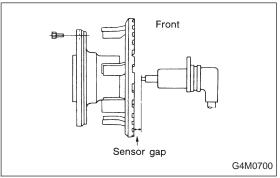
Tightening torque:

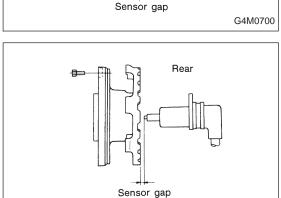
13±3 N·m (1.3±0.3 kg-m, 9±2.2 ft-lb)

CHECK : Are the tone wheel installation bolts tightened securely?

YES : Go to step 813.

No: Tighten tone wheel installation bolts securely.





8I3 CHECK ABS SENSOR GAP.

Measure tone wheel to pole piece gap over entire perimeter of the wheel.

CHECK

: Is the gap within the specifications shown in the following table?

Front wheel	Rear wheel
	0.7 — 1.2 mm (0.028 — 0.047 in)

YES : Go to step 814.

No : Adjust the gap.

NOTE:

G4M0701

Adjust the gap using spacer (Part No. 26755AA000). If spacers cannot correct the gap, replace worn sensor or worn tone wheel.

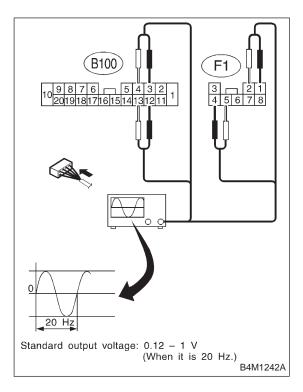
814	CHECK	<b>OSCILL</b>	OSCOPE.
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СНЕСК : Is an oscilloscope available?

(NO): Go to step 815.

8I5 CHECK AE	SS SENSOR SIGNAL.
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- 1) Raise all four wheels of ground.
- 2) Turn ignition switch OFF.
- 3) Connect the oscilloscope to the connector (F1) or connector (B100).
- 4) Turn ignition switch ON.



5) Rotate wheels and measure voltage at specified frequency.

### NOTE:

When this inspection is completed, the ABS control module sometimes stores the trouble code 29.

### Connector & terminal

Trouble code 22 / (B100) No. 12 (+) — No. 13 (-): Trouble code 24 / (B100) No. 3 (+) — No. 4 (-): Trouble code 26 / (F1) No. 4 (+) — No. 5 (-): Trouble code 28 / (F1) No. 1 (+) — No. 2 (-): Specified voltage: 0.12 — 1 V (When it is 20 Hz.)

: Is oscilloscope pattern smooth, as shown in figure?

(NO): Go to step 819.

### CHECK CONTAMINATION OF ABS SENSOR OR TONE WHEEL.

Remove disc rotor or drum from hub in accordance with trouble code.

CHECK : Is the ABS sensor pole piece or the tone wheel contaminated by dirt or other foreign matter?

YES: Thoroughly remove dirt or other foreign matter.

: Go to step 817.

### CHECK DAMAGE OF ABS SENSOR OR TONE WHEEL.

: Are there broken or damaged in the ABS sensor pole piece or the tone wheel?

YES : Replace ABS sensor or tone wheel.

(NO) : Go to step 818.

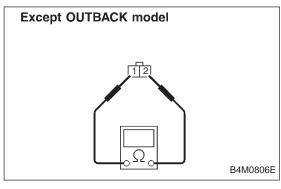
818 CHECK HUB RUNOUT.

Measure hub runout.

CHECK : Is the runout less than 0.05 mm (0.0020 in)?

YES : Go to step 8I9.

NO : Repair hub.



### 819 CHECK RESISTANCE OF ABS SENSOR.

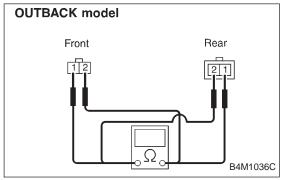
- 1) Turn ignition switch OFF.
- 2) Disconnect connector from ABS sensor.
- 3) Measure resistance between ABS sensor connector terminals.

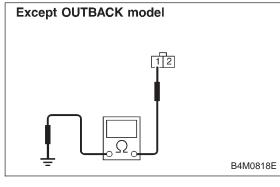
#### Terminal

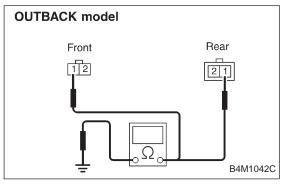
Front RH No. 1 — No. 2: Front LH No. 1 — No. 2: Rear RH No. 1 — No. 2: Rear LH No. 1 — No. 2:

CHECK): Is the resistance between 0.8 and 1.2 k $\Omega$ ?

(NO): Go to step 8I10.
(NO): Replace ABS sensor.







### 8l10 CHECK GROUND SHORT OF ABS SENSOR.

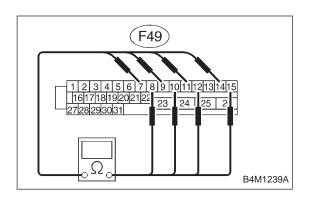
Measure resistance between ABS sensor and chassis ground.

#### Terminal

Front RH No. 1 — Chassis ground: Front LH No. 1 — Chassis ground: Rear RH No. 1 — Chassis ground: Rear LH No. 1 — Chassis ground:

(CHECK) : Is the resistance more than 1 M $\Omega$ ?

(NO): Go to step 8111.
(NO): Replace ABS sensor.



### 8I11 CHECK HARNESS/CONNECTOR BETWEEN ABSCM AND ABS SENSOR.

- 1) Connect connector to ABS sensor.
- 2) Disconnect connector from ABSCM&H/U.
- 3) Measure resistance at ABSCM&H/U connector terminals.

Connector & terminal

Trouble code 22 / (F49) No. 11 — No. 12: Trouble code 24 / (F49) No. 9 — No. 10: Trouble code 26 / (F49) No. 14 — No. 15:

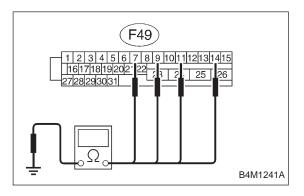
Trouble code 28 / (F49) No. 7 — No. 8:

(CHECK) : Is the resistance between 0.8 and 1.2 k $\Omega$ ?

(YES) : Go to step 8I12.

: Repair harness/connector between ABSCM&H/U

and ABS sensor.



### 8I12 CHECK GROUND SHORT OF HARNESS.

Measure resistance between ABSCM&H/U connector and chassis ground.

Connector & terminal

Trouble code 22 / (F49) No. 11 — Chassis ground:

Trouble code 24 / (F49) No. 9 — Chassis ground:

Trouble code 26 / (F49) No. 14 — Chassis ground:

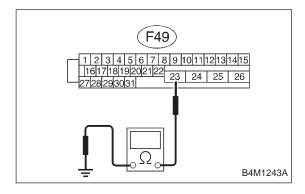
Trouble code 28 / (F49) No. 7 — Chassis ground:

(CHECK): Is the resistance more than 1 M $\Omega$ ?

(YES): Go to step 8I13.

Repair harness/connector between ABSCM&H/U

and ABS sensor.



### 8I13 CHECK GROUND CIRCUIT OF ABSCM&H/U.

Measure resistance between ABSCM&H/U and chassis ground.

Connector & terminal (F49) No. 23 — GND:

(CHECK) : Is the resistance less than 0.5  $\Omega$ ?

(YES) : Go to step 8I14.

No : Repair ABSCM&H/U ground harness.

	8114	CHECK POOR CONTACT IN CONNEC-
0114	0114	TORS.

: Is there poor contact in connectors between ABSCM&H/U and ABS sensor? <Ref. to FOREWORD [T3C1].>

Repair connector.

Ono : Go to step 8115.

### 8115 CHECK SOURCES OF SIGNAL NOISE.

CHECK : Is the car telephone or the wireless transmitter properly installed?

YES: Go to step 8I16.

Properly install the car telephone or the wireless transmitter.

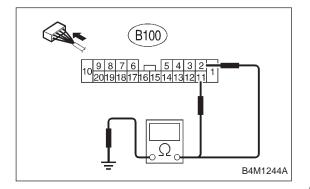
### 8116 CHECK SOURCES OF SIGNAL NOISE.

: Are noise sources (such as an antenna) installed near the sensor harness?

YES : Install the noise sources apart from the sensor

harness.

(NO): Go to step 8I17.



### 8I17 CHECK SHIELD CIRCUIT.

- 1) Connect all connectors.
- 2) Measure resistance between shield connector and chassis ground.

Connector & terminal

Trouble code 22 / (B100) No. 11 — Chassis ground:

Trouble code 24 / (B100) No. 2 — Chassis ground:

Trouble code 26 / Go to step 8118. Trouble code 28 / Go to step 8118.

 $\widehat{\text{CHECK}}$ : Is the resistance less than 0.5  $\Omega$ ?

**YES**: Go to step **8I18**.

Repair shield harness.

### 8I18 CHECK ABSCM&H/U.

- 1) Connect all connectors.
- 2) Erase the memory.
- 3) Perform inspection mode.
- 4) Read out the trouble code.

diagnosis still being output?

(YES): Replace ABSCM&H/U.

(NO) : Go to step 8I19.

### 8I19 CHECK ANY OTHER TROUBLE CODES APPEARANCE.

(CHECK): Is the same trouble code as in the current

(CHECK): Are other trouble codes being output?

Proceed with the diagnosis corresponding to the

trouble code.

No : A temporary noise interference.

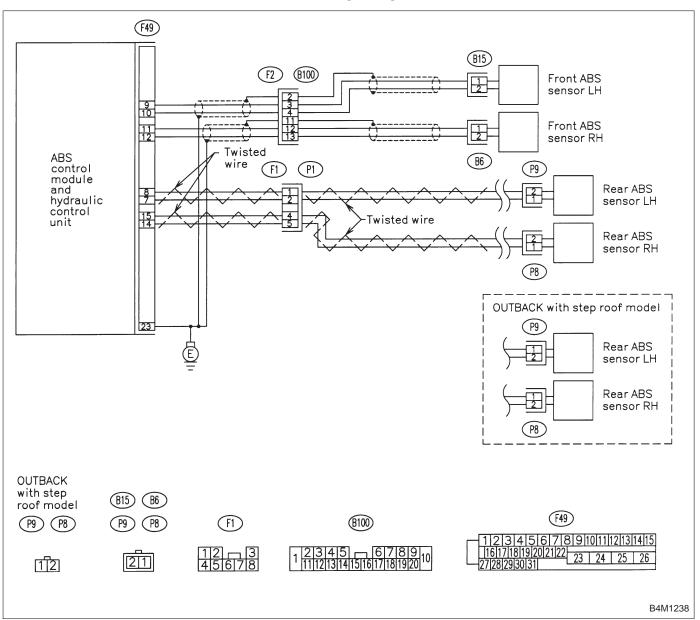
# J: TROUBLE CODE 29 — ABNORMAL ABS SENSOR SIGNAL (ANY ONE OF FOUR) —

### **DIAGNOSIS:**

- Faulty ABS sensor signal (noise, irregular signal, etc.)
- Faulty tone wheel
- Wheels turning freely for a long time

### **TROUBLE SYMPTOM:**

ABS does not operate.



### CHECK IF THE WHEELS HAVE TURNED FREELY FOR A LONG TIME.

CHECK

: Check if the wheels have been turned freely for more than one minute, such as when the vehicle is jacked-up, under full-lock cornering or when tire is not in contact with road surface.

(YES): The ABS is normal. Erase the trouble code.

#### NOTE:

When the wheels turn freely for a long time, such as when the vehicle is towed or jacked-up, or when steering wheel is continuously turned all the way, this trouble code may sometimes occur.

(NO): Go to step 8J2.

### 8J2 CHECK TIRE SPECIFICATIONS.

(CHECK): Are the tire specifications correct?

Go to step **8J3**.

Replace tire.

### 8J3 CHECK WEAR OF TIRE.

CHECK : Is the tire worn excessively?

Replace tire.

Ro to step **8J4**.

### 8J4 CHECK TIRE PRESSURE.

**CHECK** : Is the tire pressure correct?

Fig. : Go to step **8J5**.

NO : Adjust tire pressure.

### 8J5 CHECK INSTALLATION OF ABS SENSOR.

#### Tightening torque:

32±10 N·m (3.3±1.0 kg-m, 24±7 ft-lb)

: Are the ABS sensor installation bolts tightened securely?

YES : Go to step 8J6.

: Tighten ABS sensor installation bolts securely.

CHECK INSTALLATION OF TONE **8J6** WHEEL.

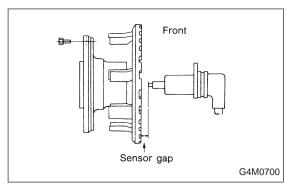
### Tightening torque:

13±3 N·m (1.3±0.3 kg-m, 9±2.2 ft-lb)

CHECK): Are the tone wheel installation bolts tightened securely?

(YES): Go to step 8J7.

(NO): Tighten tone wheel installation bolts securely.





Measure tone wheel to pole piece gap over entire perimeter of the wheel.

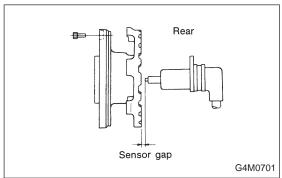
(CHECK): Is the gap within the specifications shown in the following table?

Front wheel	Rear wheel
	0.7 — 1.2 mm (0.028 — 0.047 in)

(YES): Go to step 8J8. (NO) : Adjust the gap.

NOTE:

Adjust the gap using spacer (Part No. 26755AA000). If spacers cannot correct the gap, replace worn sensor or worn tone wheel.



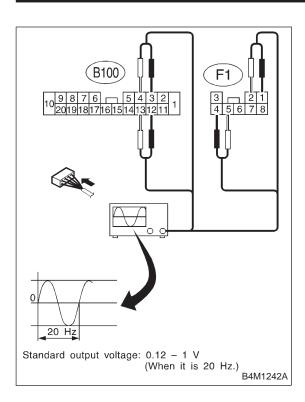
**8J8** CHECK OSCILLOSCOPE.

: Is an oscilloscope available? CHECK

: Go to step **8J9**. : Go to step **8J10**.

#### 8J9 CHECK ABS SENSOR SIGNAL.

- 1) Raise all four wheels of ground.
- 2) Turn ignition switch OFF.
- 3) Connect the oscilloscope to the connector (F1) or connector (B100).
- 4) Turn ignition switch ON.



5) Rotate wheels and measure voltage at specified frequency.

#### NOTE:

When this inspection is completed, the ABS control module sometimes stores the trouble code 29.

Connector & terminal

(B100) No. 12 (+) — No. 13 (-) (Front RH): (B100) No. 3 (+) — No. 4 (-) (Front LH):

(F1) No. 4 (+) — No. 5 (-) (Rear RH):

(F1) No. 1 (+) — No. 2 (-) (Rear LH):

Specified voltage: 0.12 — 1 V (When it is 20 Hz.)

(CHECK): Is oscilloscope pattern smooth, as shown in

figure?

(YES): Go to step 8J13.

(NO): Go to step 8J10.

CHECK CONTAMINATION OF ABS SEN-**8J10** SOR OR TONE WHEEL.

Remove disc rotor from hub.

CHECK): Is the ABS sensor pole piece or the tone wheel contaminated by dirt or other foreign

matter?

(YES): Thoroughly remove dirt or other foreign matter.

(NO): Go to step 8J11.

CHECK DAMAGE OF ABS SENSOR OR **8J11** TONE WHEEL.

: Are there broken or damaged teeth in the CHECK ABS sensor pole piece or the tone wheel?

(YES): Replace ABS sensor or tone wheel.

(No): Go to step 8J12.

**8J12** CHECK HUB RUNOUT.

Measure hub runout.

CHECK): Is the runout less than 0.05 mm (0.0020 in)?

(YES): Go to step 8J13.

: Repair hub.

8J13 CHECK ABSCM&H/U.

- 1) Turn ignition switch to OFF.
- 2) Connect all connectors.
- 3) Erase the memory.
- 4) Perform inspection mode.
- 5) Read out the trouble code.

CHECK : Is the same trouble code as in the current diagnosis still being output?

(YES): Replace ABSCM&H/U.

(ND) : Go to step 8J14.

8J14 CHECK ANY OTHER TROUBLE CODES APPEARANCE.

CHECK : Are other trouble codes being output?

Proceed with the diagnosis corresponding to the

trouble code.

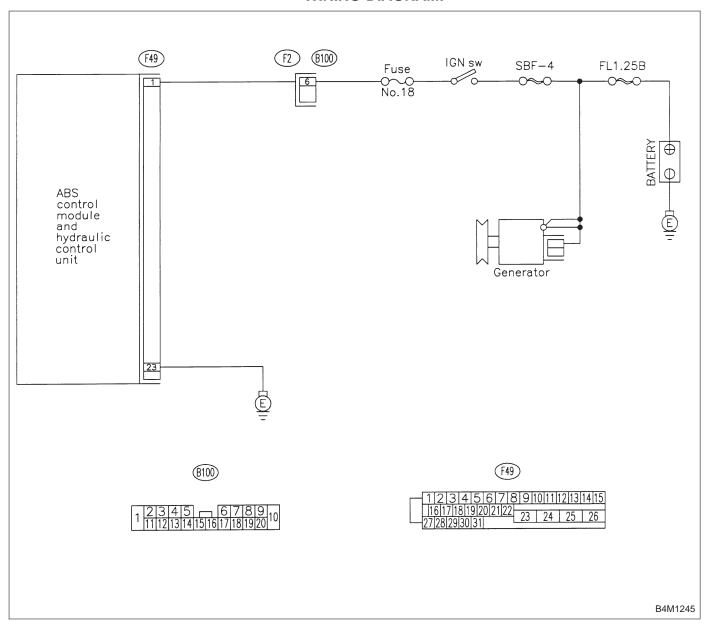
(NO): A temporary poor contact.

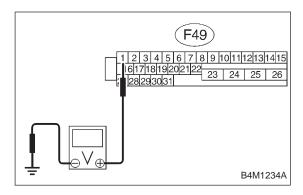
K: TROUBLE CODE 31 (FRONT RH)
L: TROUBLE CODE 33 (FRONT LH)
M: TROUBLE CODE 35 (REAR RH)
N: TROUBLE CODE 37 (REAR LH)
— ABNORMAL INLET SOLENOID VALVE
CIRCUIT(S) IN ABSCM&H/U —
DIAGNOSIS:

- Faulty harness/connector
- Faulty inlet solenoid valve in ABSCM&H/U

### TROUBLE SYMPTOM:

ABS does not operate.





	CHECK INPUT VOLTAGE OF ABSCM&H/U.
--	-----------------------------------

- 1) Disconnect connector from ABSCM&H/U.
- 2) Run the engine at idle.
- 3) Measure voltage between ABSCM&H/U connector and chassis ground.

### Connector & terminal

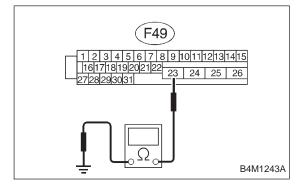
(F49) No. 1 (+) — Chassis ground (-):

CHECK : Is the voltage between 10 V and 15 V?

YES: Go to step 8N2.

Repair harness connector between battery, igni-

tion switch and ABSCM&H/U.



8N2	CHECK GROUND CIRCUIT OF ABSCM&H/U.
-----	------------------------------------

- 1) Turn ignition switch to OFF.
- Measure resistance between ABSCM&H/U connector and chassis ground.

### Connector & terminal

(F49) No. 23 — Chassis ground:

(CHECK): Is the resistance less than 0.5  $\Omega$ ?

(YES): Go to step 8N3.

: Repair ABSCM&H/U ground harness.

### 8N3 CHECK POOR CONTACT IN CONNECTORS.

: Is there poor contact in connectors between generator, battery and ABSCM&H/U? <Ref. to FOREWORD [T3C1].>

Repair connector.

Ono: Go to step 8N4.

### 8N4 CHECK ABSCM&H/U.

- 1) Connect all connectors.
- 2) Erase the memory.
- 3) Perform inspection mode.
- 4) Read out the trouble code.

CHECK : Is the same trouble code as in the current diagnosis still being output?

(YES): Replace ABSCM&H/U.

(NO): Go to step 8N5.

8N5 CHECK ANY OTHER TROUBLE CODES APPEARANCE.

**CHECK**: Are other trouble codes being output?

Proceed with the diagnosis corresponding to the

trouble code.

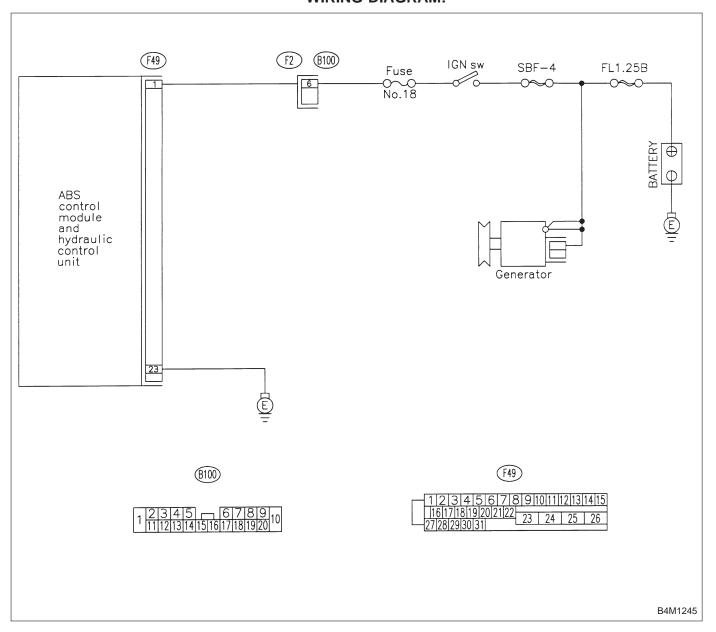
No : A temporary poor contact.

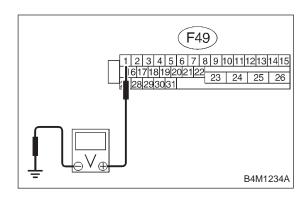
O: TROUBLE CODE 32 (FRONT RH)
P: TROUBLE CODE 34 (FRONT LH)
Q: TROUBLE CODE 36 (REAR RH)
R: TROUBLE CODE 38 (REAR LH)
— ABNORMAL OUTLET SOLENOID VALVE
CIRCUIT(S) IN ABSCM&H/U —
DIAGNOSIS:

- Faulty harness/connector
- Faulty outlet solenoid valve in ABSCM&H/U

### TROUBLE SYMPTOM:

ABS does not operate.





### 8R1 CHECK INPUT VOLTAGE OF ABSCM&H/U.

- 1) Disconnect connector from ABSCM&H/U.
- 2) Run the engine at idle.
- 3) Measure voltage between ABSCM&H/U connector and chassis ground.

### Connector & terminal

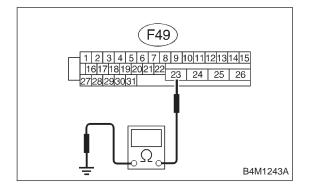
(F49) No. 1 (+) — Chassis ground (-):

CHECK): Is the voltage between 10 V and 15 V?

(YES): Go to step 8R2.

No: Repair harness connector between battery, igni-

tion switch and ABSCM&H/U.



### 8R2 CHECK GROUND CIRCUIT OF ABSCM&H/U.

- 1) Turn ignition switch to OFF.
- 2) Measure resistance between ABSCM&H/U connector and chassis ground.

### Connector & terminal

(F49) No. 23 — Chassis ground:

(CHECK) : Is the resistance less than 0.5  $\Omega$ ?

(YES): Go to step 8R3.

No: Repair ABSCM&H/U ground harness.

### 8R3 CHECK POOR CONTACT IN CONNECTORS.

: Is there poor contact in connectors between generator, battery and ABSCM&H/U? <Ref. to FOREWORD [T3C1].>

Repair connector.

So to step **8R4**.

### 8R4 CHECK ABSCM&H/U.

- 1) Connect all connectors.
- 2) Erase the memory.
- 3) Perform inspection mode.
- 4) Read out the trouble code.

CHECK : Is the same trouble code as in the current diagnosis still being output?

(YES): Replace ABSCM&H/U.

(NO): Go to step 8R5.

**CHECK ANY OTHER TROUBLE CODES** 8R5 APPEARANCE.

: Are other trouble codes being output?

YES : Proceed with the diagnosis corresponding to the trouble code.

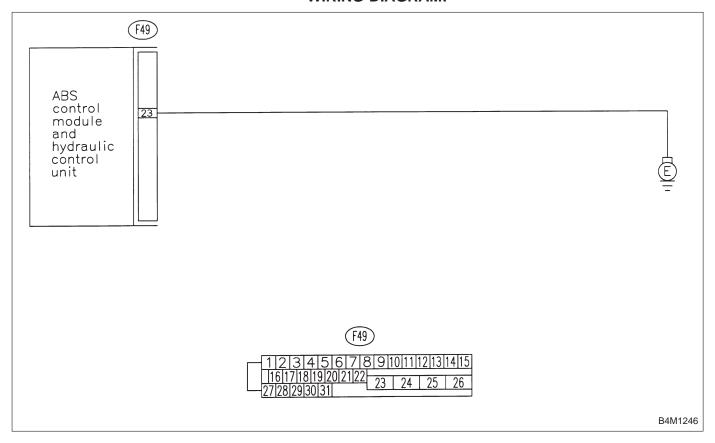
(NO): A temporary poor contact.

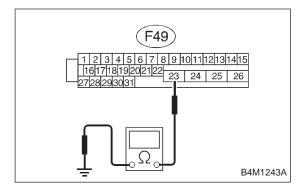
# S: TROUBLE CODE 41 — ABNORMAL ABS CONTROL MODULE — DIAGNOSIS:

• Faulty ABSCM&H/U.

### **TROUBLE SYMPTOM:**

• ABS does not operate.





8S1 CHECK GROUND CIRCUIT OF ABSCM&H/U.	
--	--

- 1) Turn ignition switch to OFF.
- 2) Disconnect connector from ABSCM&H/U.
- 3) Measure resistance between ABSCM&H/U and chassis ground.

### Connector & terminal

(F49) No. 23 — Chassis ground:

(CHECK): Is the resistance less than 0.5  $\Omega$ ?

(YES): Go to step 8S2.

(NO): Repair ABSCM&H/U ground harness.

### 8S2 CHECK POOR CONTACT IN CONNECTORS.

: Is there poor contact in connectors between battery, ignition switch and ABSCM&H/U? <Ref. to FOREWORD [T3C1].>

Repair connector.

Go to step 853.

### 8S3 CHECK SOURCES OF SIGNAL NOISE.

CHECK : Is the car telephone or the wireless transmitter properly installed?

YES : Go to step 8S4.

Properly install the car telephone or the wireless transmitter.

### 8S4 CHECK SOURCES OF SIGNAL NOISE.

: Are noise sources (such as an antenna) installed near the sensor harness?

YES : Install the noise sources apart from the sensor harness.

(NO) : Go to step 8S5.

### 8S5 CHECK ABSCM&H/U.

- 1) Connect all connectors.
- 2) Erase the memory.
- 3) Perform inspection mode.
- 4) Read out the trouble code.

CHECK : Is the same trouble code as in the current diagnosis still being output?

(YES): Replace ABSCM&H/U.

(NO) : Go to step **8S6**.

BRAKES [ABS 5.3i TYPE] 4-4d
8. Diagnostics Chart with Trouble Code by ABS Warning Light

**CHECK ANY OTHER TROUBLE CODES 8S6** APPEARANCE.

**CHECK** : Are other trouble codes being output?

YES : Proceed with the diagnosis corresponding to the

trouble code.

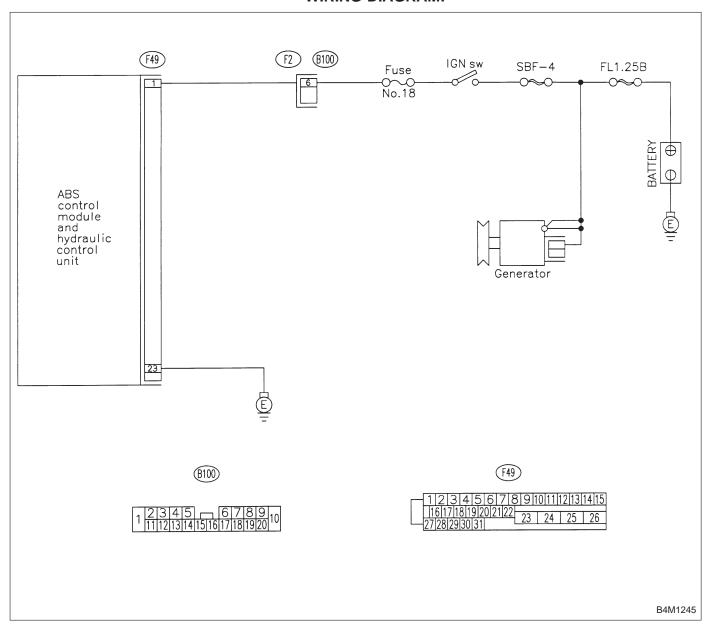
NO : A temporary poor contact.

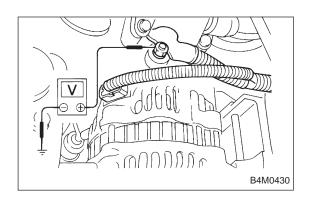
# T: TROUBLE CODE 42 — SOURCE VOLTAGE IS ABNORMAL. — DIAGNOSIS:

• Power source voltage of the ABSCM&H/U is low or high.

### TROUBLE SYMPTOM:

• ABS does not operate.





### 8T1 CHECK GENERATOR.

- 1) Start engine.
- 2) Idling after warm-up.
- 3) Measure voltage between generator B terminal and chassis ground.

### Terminal

Generator B terminal — Chassis ground:

CHECK): Is the voltage between 10 V and 17 V?

Go to step **8T2**.

Repair generator.

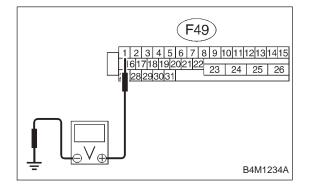
### 8T2 CHECK BATTERY TERMINAL.

Turn ignition switch to OFF.

CHECK : Are the positive and negative battery terminals tightly clamped?

YES: Go to step 8T3.

NO: Tighten the clamp of terminal.



### 8T3 CHECK INPUT VOLTAGE OF ABSCM&H/U.

- 1) Disconnect connector from ABSCM&H/U.
- 2) Run the engine at idle.
- 3) Measure voltage between ABSCM&H/U connector and chassis ground.

### Connector & terminal

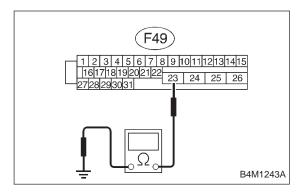
(F49) No. 1 (+) — Chassis ground (-):

(CHECK): Is the voltage between 10 V and 17 V?

(YES): Go to step 8T4.

: Repair harness connector between battery, ignition switch and ARSCM&H/L

tion switch and ABSCM&H/U.



014	CHECK GROUND CIRCUIT OF ABSCM&H/U.
-----	------------------------------------

1) Turn ignition switch to OFF.

2) Measure resistance between ABSCM&H/U connector and chassis ground.

### Connector & terminal

(F49) No. 23 — Chassis ground:

(CHECK): Is the resistance less than 0.5  $\Omega$ ?

(YES): Go to step 8T5.

(NO): Repair ABSCM&H/U ground harness.

### 8T5 CHECK POOR CONTACT IN CONNECTORS.

CHECK : Is there poor contact in connectors between generator, battery and ABSCM&H/U? <Ref. to FOREWORD [T3C1].>

Repair connector.

Go to step 8T6.

### 8T6 CHECK ABSCM&H/U.

1) Connect all connectors.

2) Erase the memory.

3) Perform inspection mode.

4) Read out the trouble code.

CHECK : Is the same trouble code as in the current diagnosis still being output?

(YES): Replace ABSCM&H/U.

(NO): Go to step **8T7**.

### 8T7 CHECK ANY OTHER TROUBLE CODES APPEARANCE.

CHECK): Are other trouble codes being output?

YES : Proceed with the diagnosis corresponding to the

trouble code.

(NO) : A temporary poor contact.

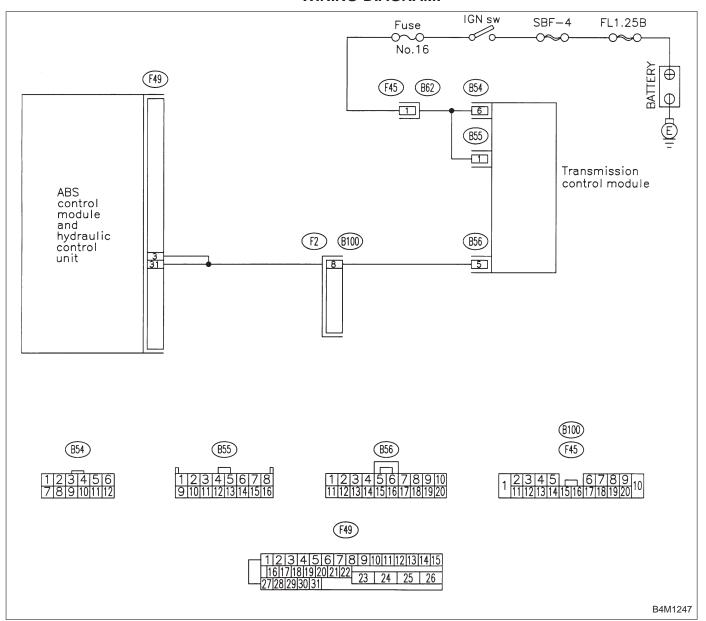
# U: TROUBLE CODE 44 — A COMBINATION OF AT CONTROL ABNORMAL —

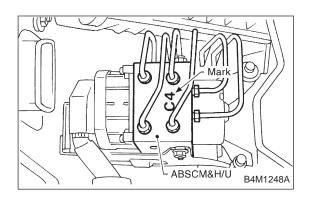
### **DIAGNOSIS:**

Combination of AT control faults

### TROUBLE SYMPTOM:

ABS does not operate.





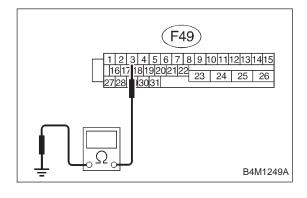
Check specifications of the mark to the ABSCM&H/U.

Mark	Model
C3	AWD AT
C4	AWD MT

CHECK : Is an ABSCM&H/U for AT model installed on a MT model?

(YES): Replace ABSCM&H/U.

No: Go to step 8U2.



### 8U2 CHECK GROUND SHORT OF HARNESS.

- 1) Turn ignition switch to OFF.
- 2) Disconnect two connectors from TCM.
- Disconnect connector from ABSCM&H/U.
- 4) Measure resistance between ABSCM&H/U connector and chassis ground.

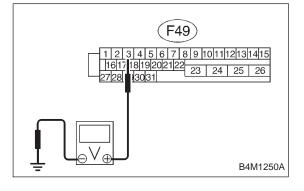
#### Connector & terminal

(F49) No. 3 — Chassis ground:

(CHECK) : Is the resistance more than 1 M $\Omega$ ?

(YES): Go to step 8U3.

Repair harness between TCM and ABSCM&H/U.



### 8U3 CHECK BATTERY SHORT OF HARNESS.

Measure voltage between ABSCM&H/U connector and chassis ground.

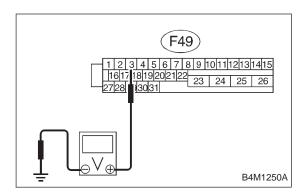
### Connector & terminal

(F49) No. 3 (+) — Chassis ground (-):

CHECK : Is the voltage less than 1 V?

YES : Go to step 8U4.

: Repair harness between TCM and ABSCM&H/U.



### 8U4 CHECK BATTERY SHORT OF HARNESS.

1) Turn ignition switch to ON.

2) Measure voltage between ABSCM&H/U connector and chassis ground.

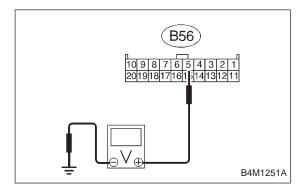
### Connector & terminal

(F49) No. 3 (+) — Chassis ground (-):

CHECK): Is the voltage less than 1 V?

YES: Go to step 8U5.

: Repair harness between TCM and ABSCM&H/U.



### 8U5 CHECK TCM.

- 1) Turn ignition switch to OFF.
- 2) Connect all connectors to TCM.
- 3) Turn ignition switch to ON.
- 4) Measure voltage between TCM connector terminal and chassis ground.

### Connector & terminal

(B56) No. 5 (+) — Chassis ground (-):

(CHECK): Is the voltage between 10 V and 15 V?

Go to step 8U7.

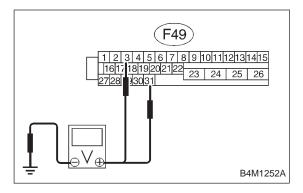
Go to step 8U6.

### 8U6 CHECK AT.

CHECK): Is the AT functioning normally?

: Replace TCM.

No : Repair AT.



### 8U7 CHECK OPEN CIRCUIT OF HARNESS.

Measure voltage between ABSCM&H/U connector and chassis ground.

Connector & terminal

(F49) No. 3 (+) — Chassis ground (-): (F49) No. 31 (+) — Chassis ground (-):

CHECK): Is the voltage between 10 V and 15 V?

YES: Go to step 8U8.

: Repair harness/connector between TCM and ABSCM&H/U.

8U8 CHECK POOR CONTACT IN CONNECTORS.

: Is there poor contact in connectors between TCM and ABSCM&H/U? <Ref. to FORE-WORD [T3C1].>

Repair connector.

Ro to step 8U9.

### 8U9 CHECK ABSCM&H/U.

1) Turn ignition switch to OFF.

2) Connect all connectors.

3) Erase the memory.

4) Perform inspection mode.

5) Read out the trouble code.

CHECK : Is the same trouble code as in the current diagnosis still being output?

YES: Replace ABSCM&H/U.

No: Go to step **8U10**.

8U10 CHECK ANY OTHER TROUBLE CODES APPEARANCE.

CHECK : Are other trouble codes being output?

Proceed with the diagnosis corresponding to the trouble code.

No : A temporary poor contact.

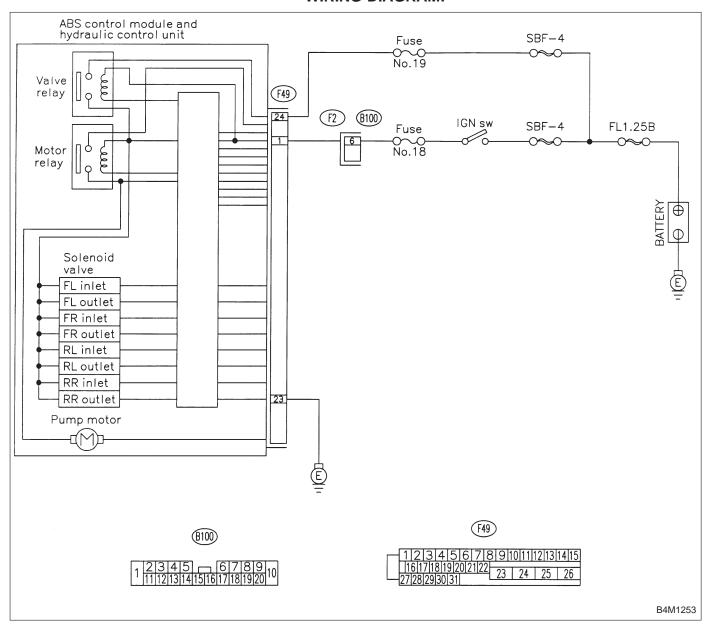
## V: TROUBLE CODE 51 — ABNORMAL VALVE RELAY —

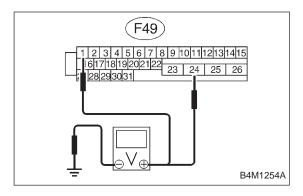
### **DIAGNOSIS:**

Faulty valve relay

### **TROUBLE SYMPTOM:**

• ABS does not operate.





## 8V1 CHECK INPUT VOLTAGE OF ABSCM&H/U.

- 1) Turn ignition switch to OFF.
- 2) Disconnect connector from ABSCM&H/U.
- 3) Run the engine at idle.
- 4) Measure voltage between ABSCM&H/U connector and chassis ground.

#### Connector & terminal

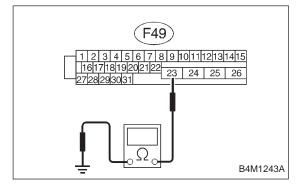
(F49) No. 1 (+) — Chassis ground (-): (F49) No. 24 (+) — Chassis ground (-):

CHECK): Is the voltage between 10 V and 15 V?

YES : Go to step 8V2.

NO : Repair harness connector between battery and

ABSCM&H/U.



## 8V2 CHECK GROUND CIRCUIT OF ABSCM&H/U.

- 1) Turn ignition switch to OFF.
- 2) Measure resistance between ABSCM&H/U connector and chassis ground.

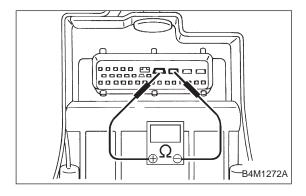
#### Connector & terminal

(F49) No. 23 — Chassis ground:

(CHECK) : Is the resistance less than 0.5  $\Omega$ ?

(YES): Go to step 8V3.

(NO): Repair ABSCM&H/U ground harness.



## 8V3 CHECK VALVE RELAY IN ABSCM&H/U.

Measure resistance between ABSCM&H/U and terminals.

#### **Terminals**

No. 23 (+) — No. 24 (-):

(CHECK) : Is the resistance more than 1 M $\Omega$ ?

(YES): Go to step 8V4.

(NO): Replace ABSCM&H/U.

8V4 CHECK POOR CONTACT IN CONNECTORS.

: Is there poor contact in connectors between generator, battery and ABSCM&H/U? < Ref.

to FOREWORD [T3C1].>

Repair connector.

On : Go to step 8V5.

## 8V5 CHECK ABSCM&H/U.

1) Connect all connectors.

2) Erase the memory.

3) Perform inspection mode.

4) Read out the trouble code.

CHECK : Is the same trouble code as in the current diagnosis still being output?

(YES): Replace ABSCM&H/U.

(NO) : Go to step 8V6.

8V6 CHECK ANY OTHER TROUBLE CODES APPEARANCE.

**CHECK**: Are other trouble codes being output?

YES : Proceed with the diagnosis corresponding to the

trouble code.

No : A temporary poor contact.

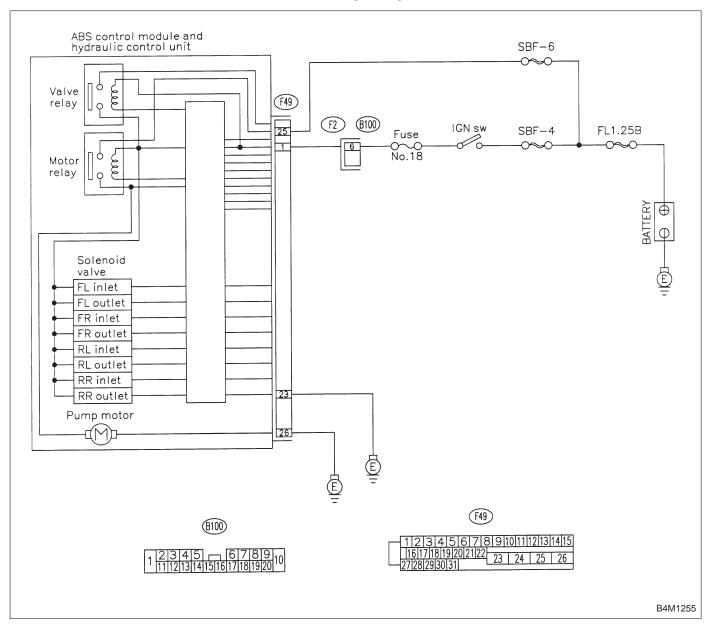
# W: TROUBLE CODE 52 — ABNORMAL MOTOR AND/OR MOTOR RELAY —

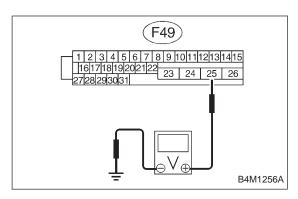
### **DIAGNOSIS:**

- Faulty motor
- Faulty motor relay
- Faulty harness connector

### TROUBLE SYMPTOM:

ABS does not operate.





## 8W1 CHECK INPUT VOLTAGE OF ABSCM&H/U.

- 1) Turn ignition switch to OFF.
- 2) Disconnect connector from ABSCM&H/U.
- 3) Turn ignition switch to ON.
- 4) Measure voltage between ABSCM&H/U connector and chassis ground.

### Connector & terminal

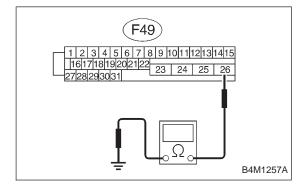
(F49) No. 25 (+) — Chassis ground (-):

CHECK): Is the voltage between 10 V and 15 V?

YES : Go to step 8W2.

No : Repair harness/connector between battery and

ABSCM&H/U and check fuse SBF6.



## 8W2 CHECK GROUND CIRCUIT OF MOTOR.

- 1) Turn ignition switch to OFF.
- 2) Measure resistance between ABSCM&H/U connector and chassis ground.

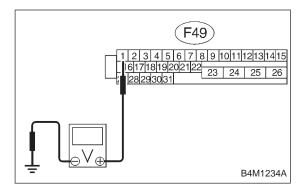
## Connector & terminal

(F49) No. 26 — Chassis ground:

(CHECK): Is the resistance less than 0.5  $\Omega$ ?

YES: Go to step 8W3.

: Repair ABSCM&H/U ground harness.



8W3	CHECK INPUT VOLTAGE OF ABSCM&H/U.
-----	-----------------------------------

- 1) Run the engine at idle.
- Measure voltage between ABSCM&H/U connector and chassis ground.

## Connector & terminal

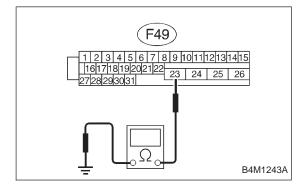
(F49) No. 1 (+) — Chassis ground (-):

CHECK): Is the voltage between 10 V and 15 V?

(YES): Go to step 8W4.

No : Repair harness connector between battery, igni-

tion switch and ABSCM&H/U.



## 8W4 CHECK GROUND CIRCUIT OF ABSCM&H/U.

- 1) Turn ignition switch to OFF.
- 2) Measure resistance between ABSCM&H/U connector and chassis ground.

#### Connector & terminal

(F49) No. 23 — Chassis ground:

(CHECK) : Is the resistance less than 0.5  $\Omega$ ?

(YES): Go to step 8W5.

: Repair ABSCM&H/U ground harness.

## 8W5 CHECK MOTOR OPERATION.

Operate the sequence control. <Ref. to 4-4 [W20D0].> NOTE:

Use the diagnosis connector to operate the sequence control.

CHECK : Can motor revolution noise (buzz) be heard when carrying out the sequence control?

YES : Go to step 8W6.

(NO): Replace ABSCM&H/U.

CHECK POOR CONTACT IN CONNEC-**8W6** TORS.

Turn ignition switch to OFF.

(CHECK): Is there poor contact in connector between generator, battery and ABSCM&H/U? <Ref. to FOREWORD [T3C1].>

(YES): Repair connector. (No): Go to step 8W7.

#### 8W7 CHECK ABSCM&H/U.

1) Connect all connectors.

2) Erase the memory.

3) Perform inspection mode.

4) Read out the trouble code.

CHECK): Is the same trouble code as in the current diagnosis still being output?

(YES): Replace ABSCM&H/U.

(NO) : Go to step 8W8.

CHECK ANY OTHER TROUBLE CODES 8W8 APPEARANCE.

: Are other trouble codes being output? (CHECK)

: Proceed with the diagnosis corresponding to the

trouble code.

(NO): A temporary poor contact.

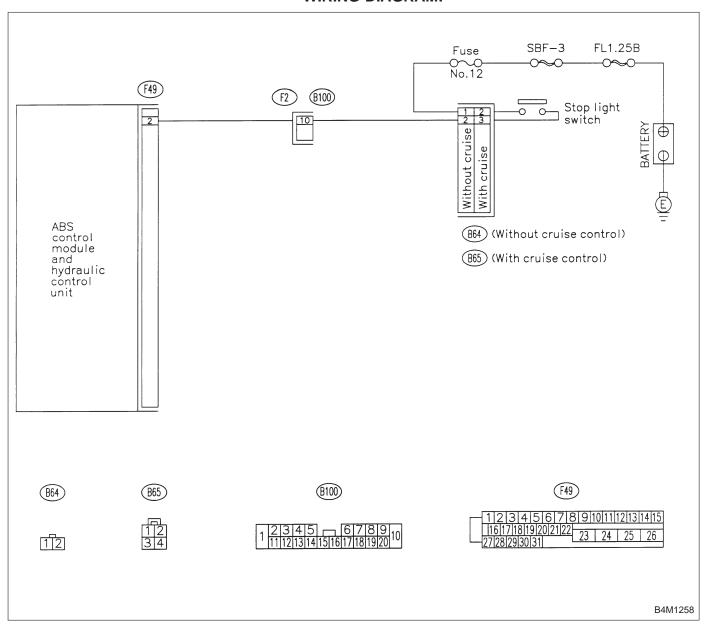
## X: TROUBLE CODE 54 — ABNORMAL STOP LIGHT SWITCH —

#### **DIAGNOSIS:**

• Faulty stop light switch

### **TROUBLE SYMPTOM:**

• ABS does not operate.



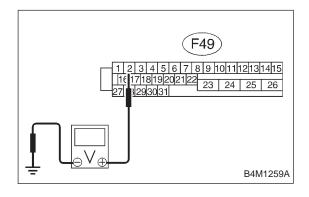
## 8X1 CHECK STOP LIGHTS COME ON.

Depress the brake pedal.

CHECK : Do stop lights come on?

(YES): Go to step 8X2.

(NO): Repair stop lights circuit.



## 8X2 CHECK OPEN CIRCUIT IN HARNESS.

1) Turn ignition switch to OFF.

2) Disconnect connector from ABSCM&H/U.

3) Depress brake pedal.

4) Measure voltage between ABSCM&H/U connector and chassis ground.

Connector & terminal

(F49) No. 2 (+) — Chassis ground (-):

CHECK): Is the voltage between 10 V and 15 V?

YES: Go to step 8X3.

(NO): Repair harness between stop light switch and

ABSCM&H/U.

## 8X3 CHECK POOR CONTACT IN CONNECTORS.

: Is there poor contact in connector between stop light switch and ABSCM&H/U? <Ref. to FOREWORD [T3C1].>

Repair connector.

Go to step 8X4.

## 8X4 CHECK ABSCM&H/U.

1) Connect all connectors.

2) Erase the memory.

3) Perform inspection mode.

4) Read out the trouble code.

CHECK : Is the same trouble code as in the current diagnosis still being output?

(YES): Replace ABSCM&H/U.

(NO) : Go to step **8X5**.

## 8X5 CHECK ANY OTHER TROUBLE CODES APPEARANCE.

**CHECK** : Are other trouble codes being output?

Proceed with the diagnosis corresponding to the trouble code.

(NO): A temporary poor contact.

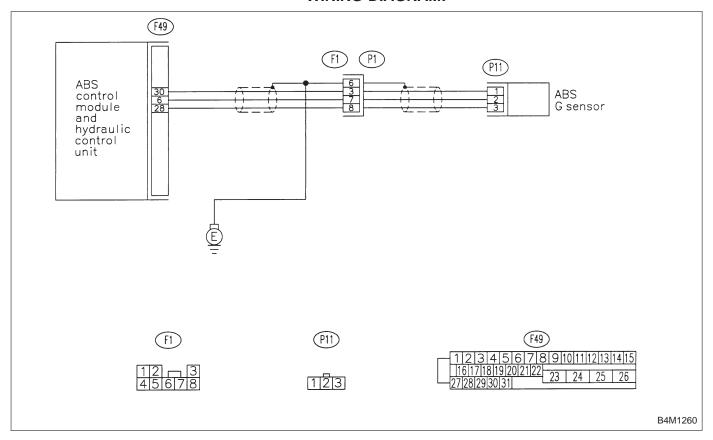
## Y: TROUBLE CODE 56 - ABNORMAL G SENSOR OUTPUT **VOLTAGE** —

### **DIAGNOSIS:**

Faulty G sensor output voltage

## TROUBLE SYMPTOM:

• ABS does not operate.

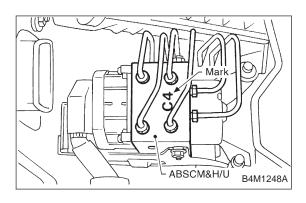


CHECK ALL FOUR WHEELS FOR FREE TURNING.

CHECK : Have the wheels been turned freely such as when the vehicle is lifted up, or operated on a rolling road?

(YES): The ABS is normal. Erase the trouble code.

(NO): Go to step 8Y2.



8Y2	CHECK SPECIFICATIONS OF ABSCM&H/U.
-----	------------------------------------

Check specifications of the mark to the ABSCM&H/U.

Mark	Model
C3	AWD AT
C4	AWD MT

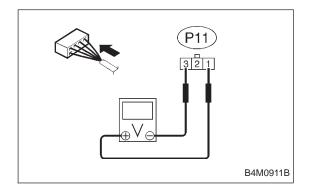
CHECK : Is an ABSCM for AWD model installed on a FWD model?

#### CAUTION:

Be sure to turn ignition switch to OFF when removing ABSCM&H/U.

YES: Replace ABSCM&H/U.

: Go to step 8Y3.



## 8Y3 CHECK INPUT VOLTAGE OF G SENSOR.

- 1) Turn ignition switch to OFF.
- 2) Remove console box.
- 3) Disconnect G sensor from body. (Do not disconnect connector.)
- 4) Turn ignition switch to ON.
- 5) Measure voltage between G sensor connector terminals.

#### Connector & terminal

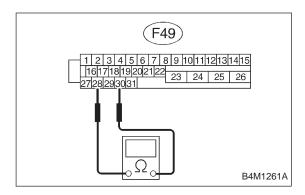
(P11) No. 1 (+) — No. 3 (-):

CHECK : Is the voltage between 4.75 and 5.25 V?

(YES): Go to step 8Y4.

No : Repair harness/connector between G sensor and

ABSCM&H/U.



8Y4 CHECK OPEN CIRCUIT IN G SENSOR OUTPUT HARNESS AND GROUND HARNESS.

- 1) Turn ignition switch to OFF.
- 2) Disconnect connector from ABSCM&H/U.
- 3) Measure resistance between ABSCM&H/U connector terminals.

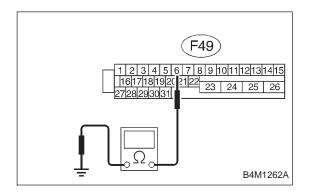
Connector & terminal (F49) No. 30 — No. 28:

CHECK): Is the resistance between 4.3 and 4.9 k $\Omega$ ?

(YES): Go to step 8Y5.

: Repair harness/connector between G sensor and

ABSCM&H/U.



## 8Y5 CHECK GROUND SHORT IN G SENSOR OUTPUT HARNESS.

- 1) Disconnect connector from G sensor.
- 2) Measure resistance between ABSCM&H/U connector and chassis ground.

Connector & terminal

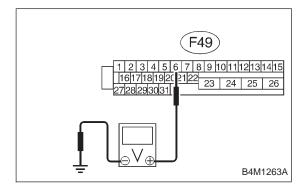
(F49) No. 6 — Chassis ground:

(CHECK) : Is the resistance more than 1 M $\Omega$ ?

(YES): Go to step 8Y6.

(ND): Repair harness between G sensor and

ABSCM&H/U.



## 8Y6 CHECK BATTERY SHORT OF HARNESS.

Measure voltage between ABSCM&H/U connector and chassis ground.

Connector & terminal

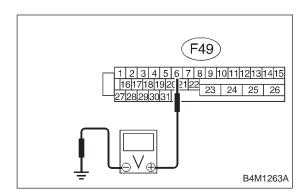
(F49) No. 6 (+) — Chassis ground (-):

(CHECK): Is the voltage less than 1 V?

(YES): Go to step 8Y7.

NO : Repair harness between G sensor and

ABSCM&H/U.



## 8Y7 CHECK BATTERY SHORT OF HARNESS.

- 1) Turn ignition switch to ON.
- 2) Measure voltage between ABSCM&H/U connector and chassis ground.

Connector & terminal

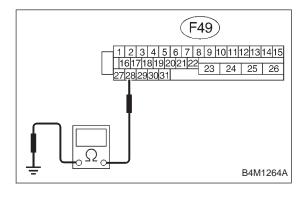
(F49) No. 6 (+) — Chassis ground (-):

CHECK : Is the voltage less than 1 V?

(YES): Go to step 8Y8.

: Repair harness between G sensor and

ABSCM&H/U.



## 8Y8 CHECK GROUND SHORT OF HARNESS.

Measure resistance between ABSCM&H/U connector and chassis ground.

Connector & terminal

(F49) No. 28 — Chassis ground:

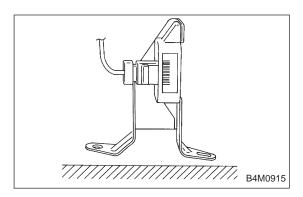
CHECK) : Is the resistance more than 1 M $\Omega$ ?

YES: Go to step 8Y9.

(NO): Repair harness between G sensor and

ABSCM&H/U.

Replace ABSCM&H/U.



#### 8Y9 CHECK G SENSOR.

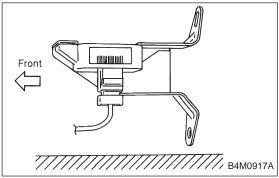
- 1) Turn ignition switch to OFF.
- 2) Remove G sensor from vehicle.
- 3) Connect connector to G sensor.
- 4) Connect connector to ABSCM&H/U.
- 5) Turn ignition switch to ON.
- 6) Measure voltage between G sensor connector terminals.

#### Connector & terminal

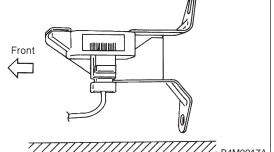
(P11) No. 2 (+) — No. 1 (-):

CHECK): Is the voltage between 2.1 and 2.4 V when G sensor is horizontal?

(YES): Go to step 8Y10. : Replace G sensor.



Front



#### 8Y10 CHECK G SENSOR.

Measure voltage between G sensor connector terminals.

#### Connector & terminal

(P11) No. 2 (+) — No. 1 (-):

: Is the voltage between 3.7 and 4.1 V when G sensor is inclined forwards to 90°?

(YES): Go to step 8Y11. No : Replace G sensor.

#### 8Y11 CHECK G SENSOR.

Measure voltage between G sensor connector terminals.

## Connector & terminal

(P11) No. 2 (+) — No. 1 (-):

CHECK): Is the voltage between 0.5 and 0.9 V when G sensor is inclined backwards to 90°?

**YES** : Go to step **8Y12**. (NO): Replace G sensor.

		<b>CHECK POOR CONTACT IN CONNEC-</b>
3112	0112	TORS.

: Is there poor contact in connector between ABSCM&H/U and G sensor? <Ref. to FORE-**WORD [T3C1].>** 

(YES): Repair connector. **NO** : Go to step **8Z12**.

## 8Y13 CHECK ABSCM&H/U.

- 1) Connect all connectors.
- 2) Erase the memory.
- 3) Perform inspection mode.
- 4) Read out the trouble code.

diagnosis still being output?

YES: Replace ABSCM&H/U.

(NO) : Go to step 8Y14.

8Y14 CHECK ANY OTHER TROUBLE CODES APPEARANCE.

CHECK): Is the same trouble code as in the current

**CHECK** : Are other trouble codes being output?

Proceed with the diagnosis corresponding to the

trouble code.

No : A temporary poor contact.