

8. Diagnostics Chart with Trouble Code by ABS Warning Light

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	Abnormal ABS sensor (Open circuit or input voltage too high)	Front right ABS sensor	<Ref. to 4-4 [T8B0].>
23		Front left ABS sensor	<Ref. to 4-4 [T8C0].>
25		Rear right ABS sensor	<Ref. to 4-4 [T8D0].>
27		Rear left ABS sensor	<Ref. to 4-4 [T8E0].>
22	Abnormal ABS sensor (Abnormal ABS sensor signal)	Front right ABS sensor	<Ref. to 4-4 [T8F0].>
24		Front left ABS sensor	<Ref. to 4-4 [T8G0].>
26		Rear right ABS sensor	<Ref. to 4-4 [T8H0].>
28		Rear left ABS sensor	<Ref. to 4-4 [T8I0].>
29		Any one of four	<Ref. to 4-4 [T8J0].>
31	Abnormal solenoid valve circuit(s) in ABS control module and hydraulic unit	Front right inlet valve	<Ref. to 4-4 [T8K0].>
32		Front right outlet valve	<Ref. to 4-4 [T8O0].>
33		Front left inlet valve	<Ref. to 4-4 [T8L0].>
34		Front left outlet valve	<Ref. to 4-4 [T8P0].>
35		Rear right inlet valve	<Ref. to 4-4 [T8M0].>
36		Rear right outlet valve	<Ref. to 4-4 [T8Q0].>
37		Rear left inlet valve	<Ref. to 4-4 [T8N0].>
38		Rear left outlet valve	<Ref. to 4-4 [T8R0].>
41	Abnormal ABS control module		<Ref. to 4-4 [T8S0].>
42	Source voltage is abnormal.		<Ref. to 4-4 [T8T0].>
44	A combination of AT control abnormal		<Ref. to 4-4 [T8U0].>
51	Abnormal valve relay		<Ref. to 4-4 [T8V0].>
52	Abnormal motor and/or motor relay		<Ref. to 4-4 [T8W0].>
54	Abnormal stop light switch		<Ref. to 4-4 [T8X0].>
56	Abnormal G sensor output voltage		<Ref. to 4-4 [T8Y0].>

MEMO:

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) —

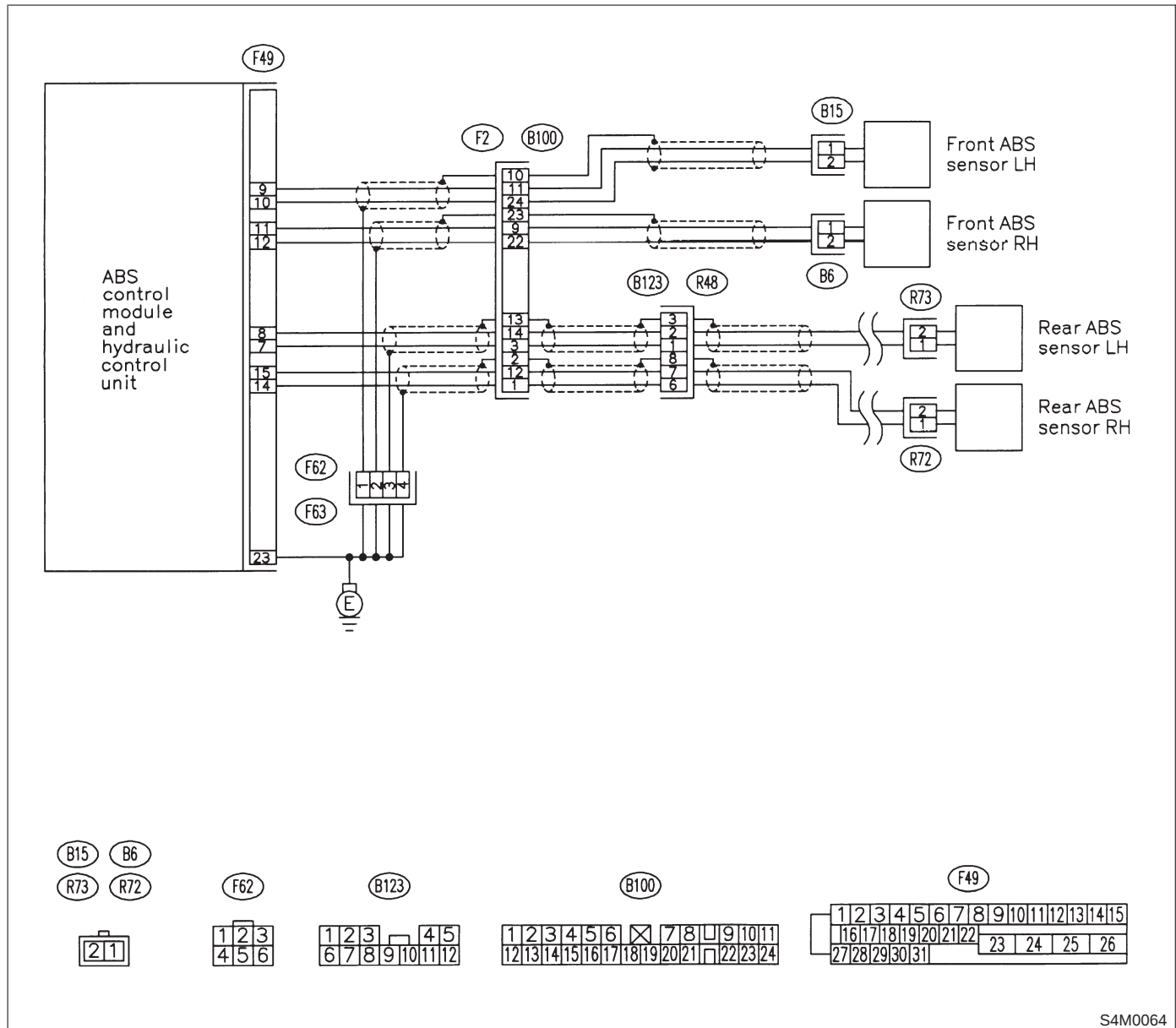
DIAGNOSIS:

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

TROUBLE SYMPTOM:

- ABS does not operate.

WIRING DIAGRAM:



S4M0064

8E1 : CHECK ABS SENSOR.

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

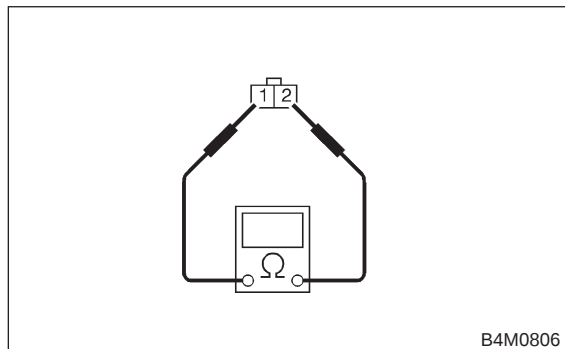
Terminal

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 kΩ?
- 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.

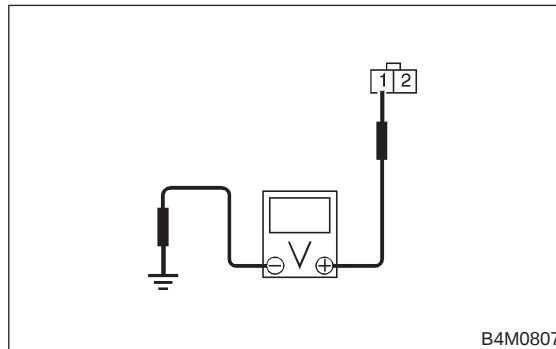
Terminal

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 SENSOR.

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

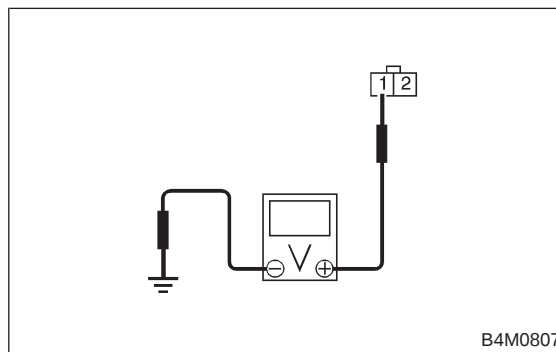
Terminal

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 8E4.
- NO** : Replace ABS sensor.

8E4 : CHECK HARNESS/CONNECTOR BETWEEN ABSCM&H/U AND ABS SENSOR.

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

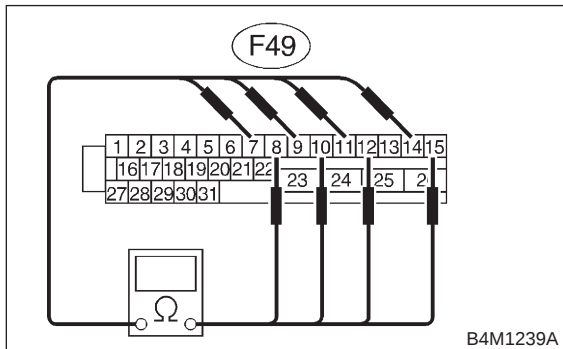
Connector & terminal

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 kΩ?**

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 (+) —

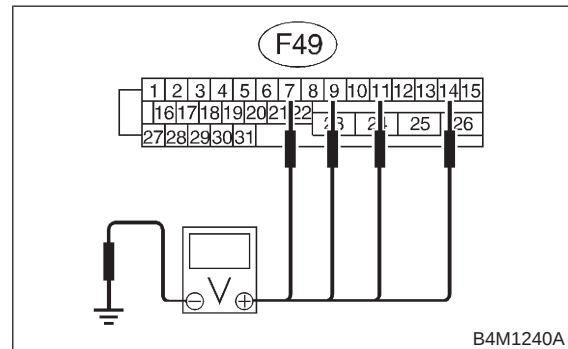
Chassis ground (-):

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 (+) —

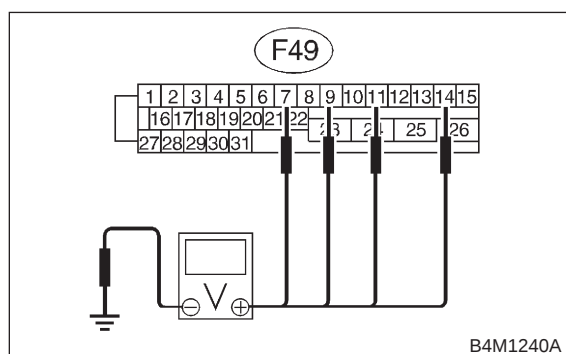
Chassis ground (-):

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.
- NO** : Repair harness between ABSCM&H/U and ABS sensor.

8E7 : 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 8E8.
- NO** : Tighten ABS sensor installation bolts securely.

8E8 : CHECK INSTALLATION OF TONE WHEEL.

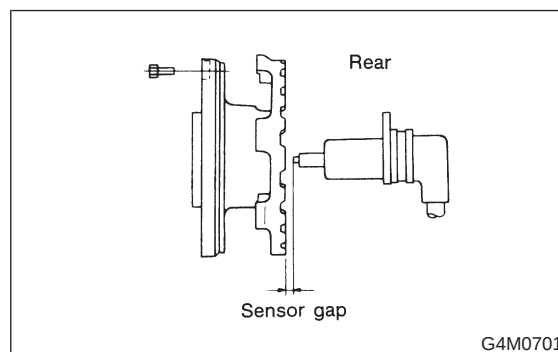
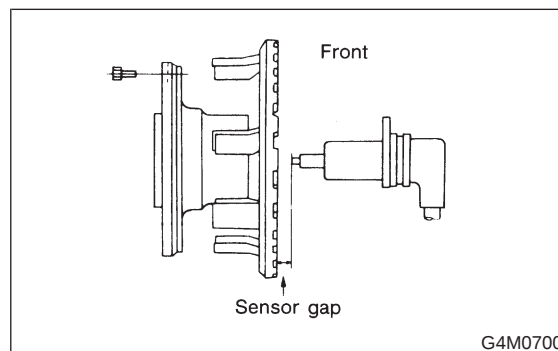
Tightening torque:

13±3 N·m (1.3±0.3 kg-m, 9±2.2 ft-lb)

- CHECK** : Are the tone wheel installation bolts tightened securely?
- YES** : Go to step 8E9.
- NO** : Tighten tone wheel installation bolts securely.

8E9 : CHECK ABS SENSOR GAP.

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



	Front wheel	Rear wheel
Specifications	0.9 — 1.4 mm (0.035 — 0.055 in)	0.7 — 1.2 mm (0.028 — 0.047 in)

- CHECK** : Is the gap within the specifications?
- 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)?*

YES : Go to step **8E11**.

NO : Repair hub.

8E11 : CHECK GROUND SHORT OF ABS SENSOR.

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

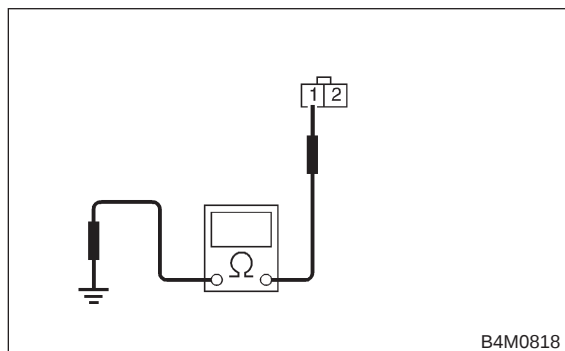
Terminal

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 MΩ?*

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.

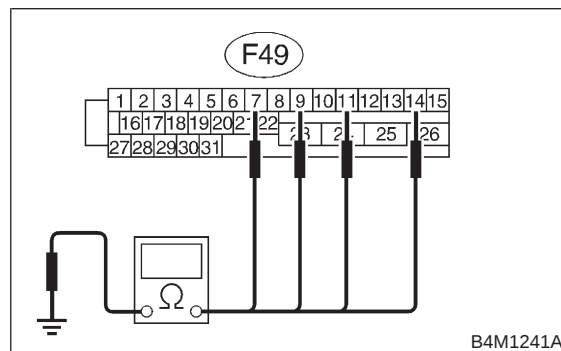
Connector & terminal

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:



CHECK : *Is the resistance more than 1 MΩ?*

YES : Go to step **8E13**.

NO : Repair harness between ABSCM&H/U and ABS sensor.
Replace ABSCM&H/U.

8E13 : CHECK POOR CONTACT IN CONNECTORS.

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

YES : Repair connector.

NO : 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.

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

YES : Replace ABSCM&H/U.

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

8E15 : 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.

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) —

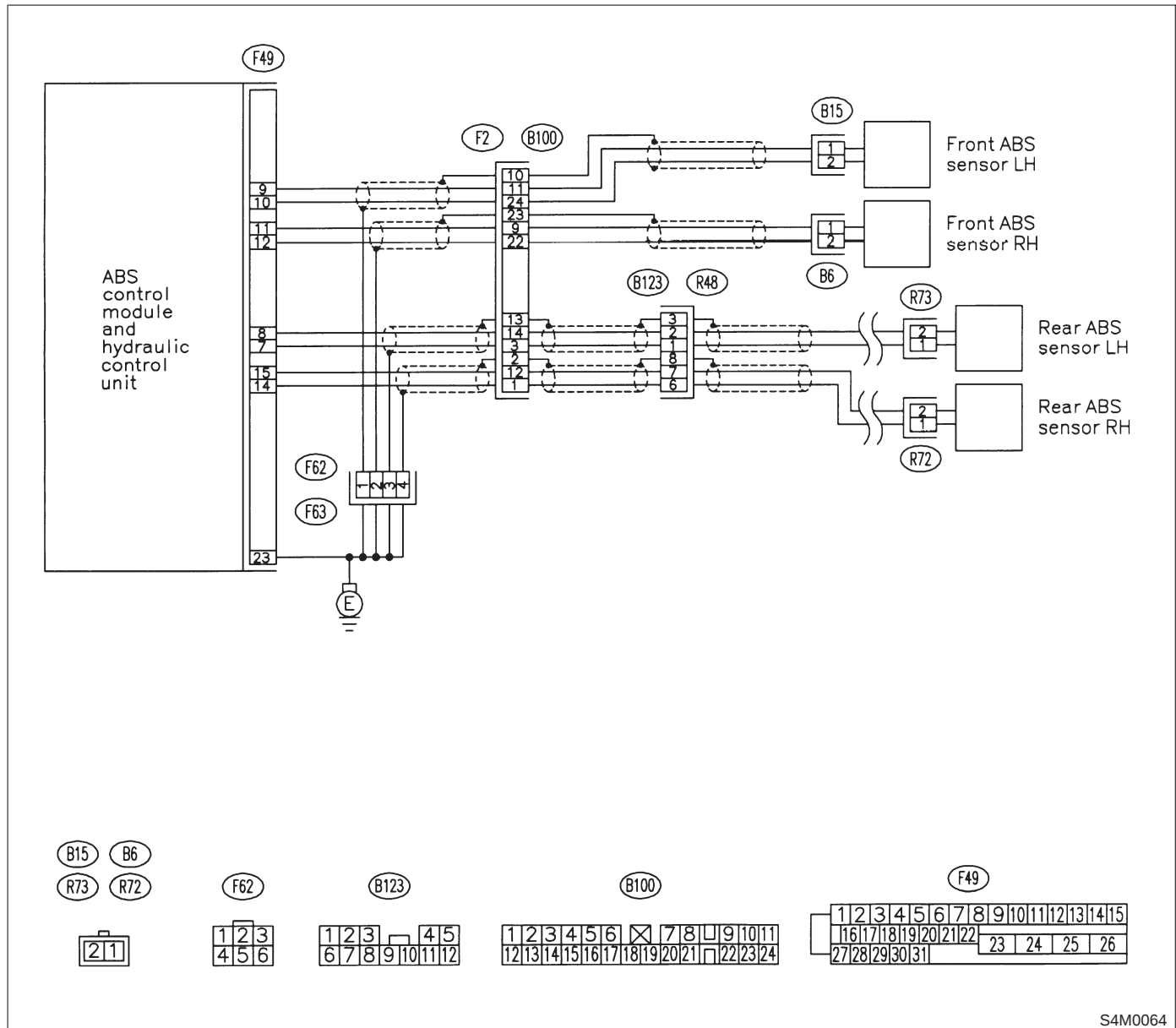
DIAGNOSIS:

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

TROUBLE SYMPTOM:

- ABS does not operate.

WIRING DIAGRAM:



S4M0064

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.
- NO** : Tighten ABS sensor installation bolts securely.

8I2 : CHECK INSTALLATION OF TONE WHEEL.

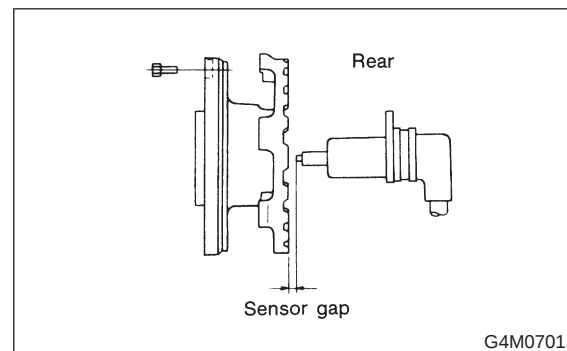
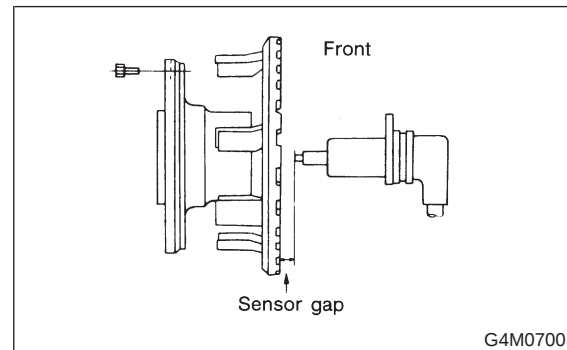
Tightening torque:

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 8I3.
- 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.



	Front wheel	Rear wheel
Specifications	0.9 — 1.4 mm (0.035 — 0.055 in)	0.7 — 1.2 mm (0.028 — 0.047 in)

- CHECK** : Is the gap within the specifications?
- YES** : Go to step 8I4.
- 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.

8I4 : CHECK OSCILLOSCOPE.

- CHECK** : Is an oscilloscope available?
- YES** : Go to step 8I5.
- NO** : Go to step 8I6.

815 : CHECK ABS SENSOR SIGNAL.

- 1) Raise all four wheels of ground.
- 2) Turn ignition switch OFF.
- 3) Connect the oscilloscope to the 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

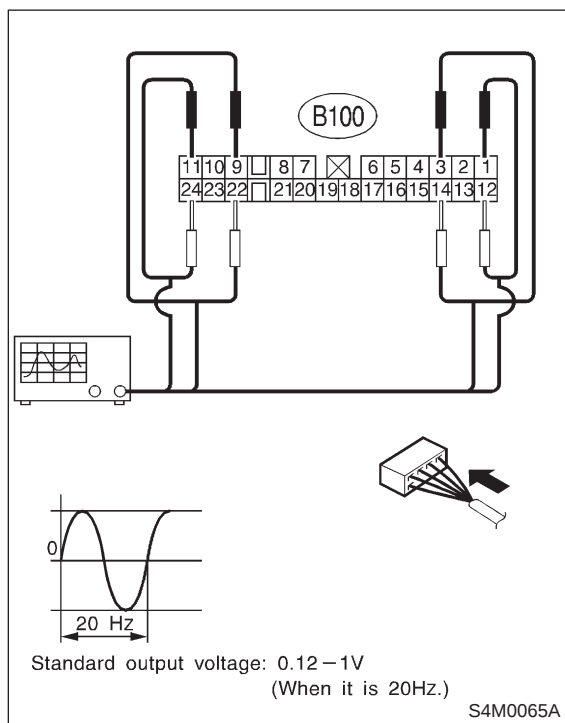
Trouble code 22 / (B100) No. 9 (+) — No. 22 (-):

Trouble code 24 / (B100) No. 11 (+) — No. 24 (-):

Trouble code 26 / (B100) No. 1 (+) — No. 12 (-):

Trouble code 28 / (B100) No. 3 (+) — No. 14 (-):

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



CHECK : *Is oscilloscope pattern smooth, as shown in figure?*

YES : Go to step 819.

NO : Go to step 816.

816 : 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.

NO : Go to step 817.

817 : CHECK DAMAGE OF ABS SENSOR OR TONE WHEEL.

CHECK : *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.

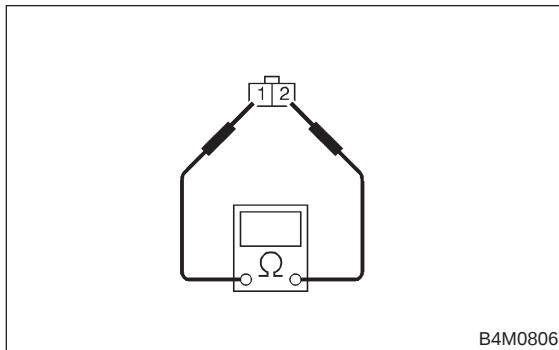
CHECK : *Is the runout less than 0.05 mm (0.0020 in)?*

YES : Go to step 819.

NO : Repair hub.

8I9 : 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:**

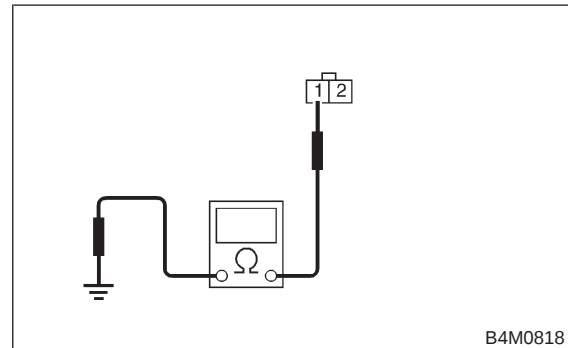
CHECK : **Is the resistance between 0.8 and 1.2 kΩ?**

YES : Go to step **8I10**.

NO : Replace ABS sensor.

8I10 : 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 MΩ?**

YES : Go to step **8I11**.

NO : Replace ABS sensor.

8I11 : CHECK HARNESS/CONNECTOR BETWEEN ABSCM&H/U 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.

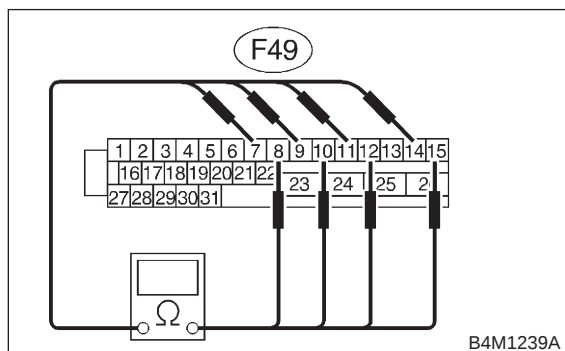
Connector & terminal

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 kΩ?

YES : Go to step 8I12.

NO : 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.

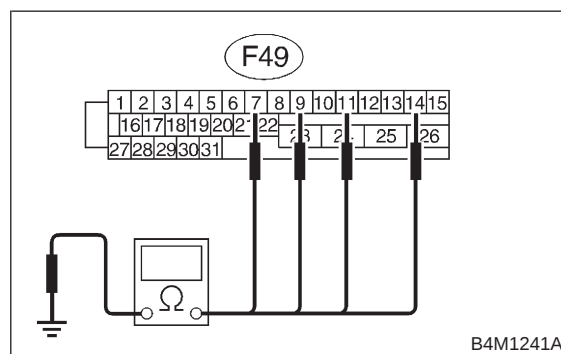
Connector & terminal

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 MΩ?

YES : Go to step 8I13.

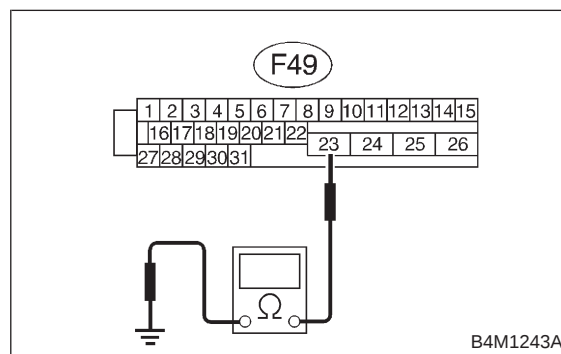
NO : Repair harness/connector between ABSCM&H/U and ABS sensor.

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 Ω?

YES : Go to step 8I14.

NO : Repair ABSCM&H/U ground harness.

8I14 : CHECK POOR CONTACT IN CONNECTORS.

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

YES : Repair connector.

NO : Go to step **8I15**.

8I15 : CHECK SOURCES OF SIGNAL NOISE.

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

YES : Go to step **8I16**.

NO : Properly install the car telephone or the wireless transmitter.

8I16 : CHECK SOURCES OF SIGNAL NOISE.

CHECK : *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.

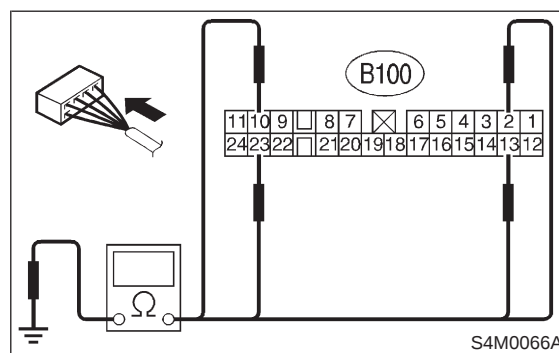
Connector & terminal

Trouble code 22 / (B100) No. 23 — Chassis ground:

Trouble code 24 / (B100) No. 10 — Chassis ground:

Trouble code 26 / (B100) No. 2 — Chassis ground:

Trouble code 28 / (B100) No. 13 — Chassis ground:



CHECK : *Is the resistance less than 0.5 Ω?*

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

NO : 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.

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

YES : Replace ABSCM&H/U.

NO : Go to step **8I19**.

8I19 : CHECK ANY OTHER TROUBLE CODES APPEARANCE.

CHECK : *Are other trouble codes being output?*

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

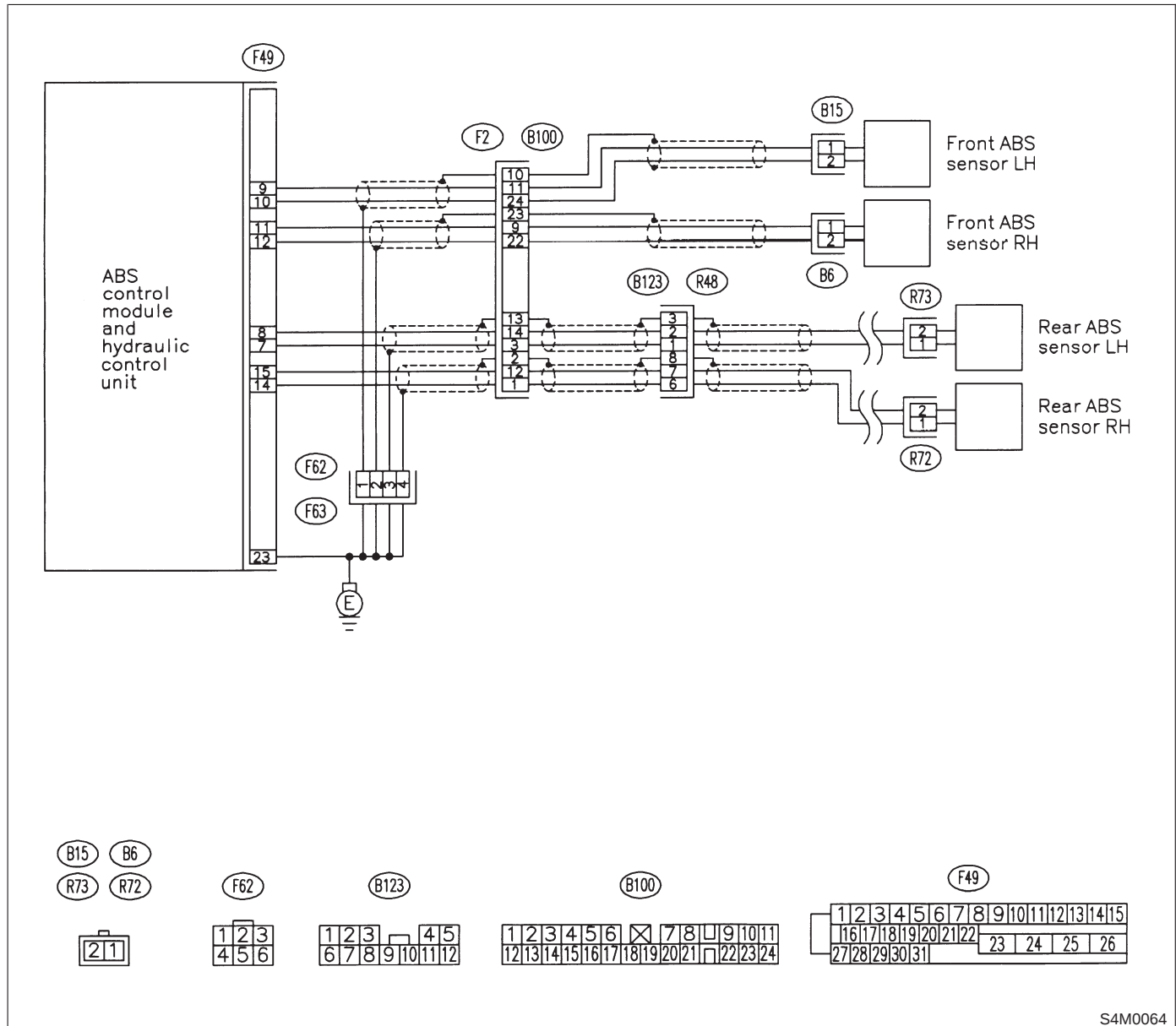
NO : A temporary noise interference.

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.

WIRING DIAGRAM:

S4M0064

8J1 : 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?
- YES** : Go to step 8J3.
- NO** : Replace tire.

8J3 : CHECK WEAR OF TIRE.

- CHECK** : Is the tire worn excessively?
- YES** : Replace tire.
- NO** : Go to step 8J4.

8J4 : CHECK TIRE PRESSURE.

- CHECK** : Is the tire pressure correct?
- YES** : 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)

- CHECK** : Are the ABS sensor installation bolts tightened securely?
- YES** : Go to step 8J6.
- NO** : Tighten ABS sensor installation bolts securely.

8J6 : CHECK INSTALLATION OF TONE WHEEL.

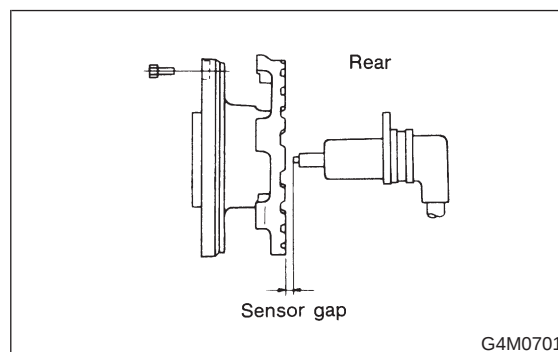
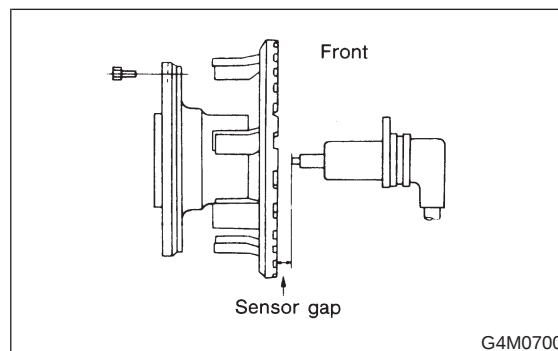
Tightening torque:

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 8J7.
- NO** : Tighten tone wheel installation bolts securely.

8J7 : CHECK ABS SENSOR GAP.

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



	Front wheel	Rear wheel
Specifications	0.9 — 1.4 mm (0.035 — 0.055 in)	0.7 — 1.2 mm (0.028 — 0.047 in)

- CHECK** : Is the gap within the specifications?
- 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.**CHECK** : *Is an oscilloscope available?***YES** : Go to step **8J9**.**NO** : Go to step **8J10**.**8J9 : CHECK ABS SENSOR SIGNAL.**

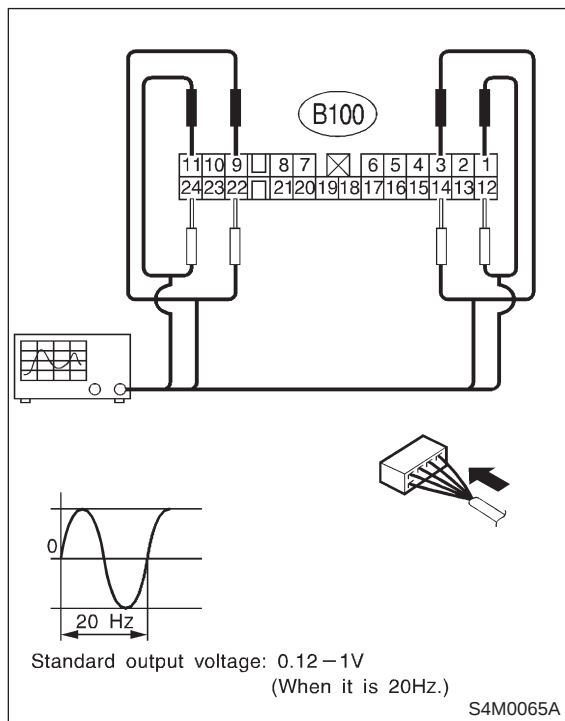
- 1) Raise all four wheels of ground.
- 2) Turn ignition switch OFF.
- 3) Connect the oscilloscope to the connector (B100).
- 4) Turn ignition switch ON.
- 5) Rotate wheels and measure voltage at specified frequency.

NOTE:

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

Connector & terminal**(B100) No. 9 (+) — No. 22 (–) (Front RH):****(B100) No. 11 (+) — No. 24 (–) (Front LH):****(B100) No. 1 (+) — No. 12 (–) (Rear RH):****(B100) No. 3 (+) — No. 14 (–) (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**.**8J10 : CHECK CONTAMINATION OF ABS SENSOR 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**.**8J11 : CHECK DAMAGE OF ABS SENSOR OR TONE WHEEL.****CHECK** : *Are there broken or damaged teeth in the 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**.**NO** : 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.**NO** : Go to step **8J14**.**8J14 : 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.

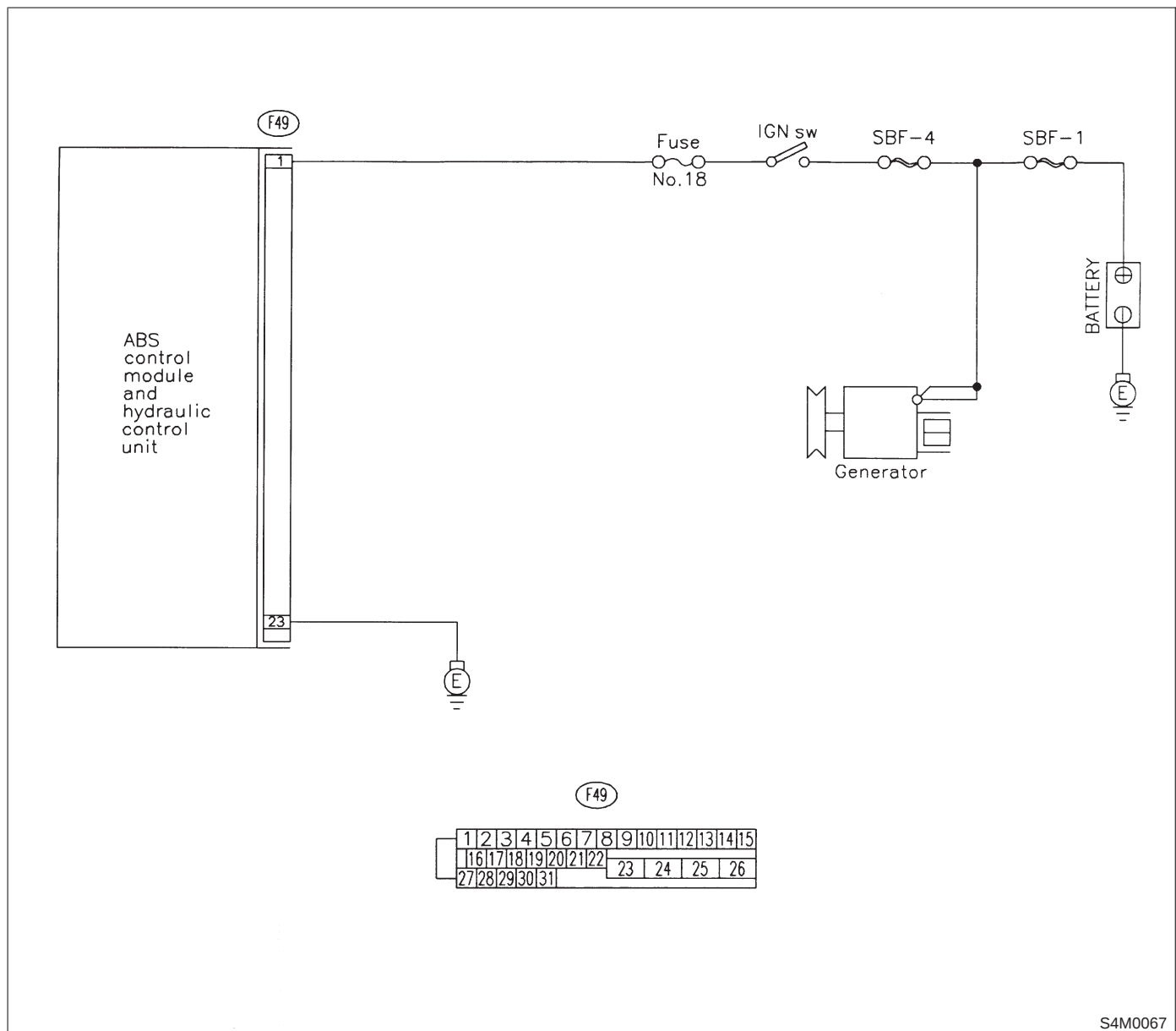
MEMO:

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.

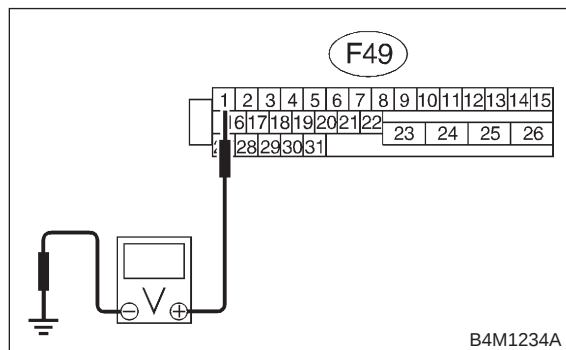
WIRING DIAGRAM:

8N1 : 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 (-):



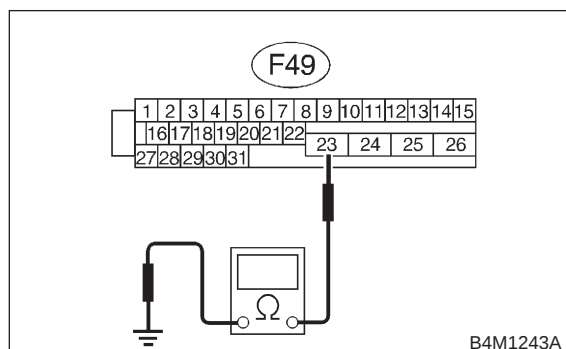
- CHECK** : *Is the voltage between 10 V and 15 V?*
- YES** : Go to step **8N2**.
- NO** : Repair harness connector between battery, ignition switch and ABSCM&H/U.

8N2 : 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 Ω?*
- YES** : Go to step **8N3**.
- NO** : Repair ABSCM&H/U ground harness.

8N3 : CHECK POOR CONTACT IN CONNECTORS.

- CHECK** : *Is there poor contact in connectors between generator, battery and ABSCM&H/U? <Ref. to FOREWORD [T3C1]. >*
- YES** : Repair connector.
- NO** : 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.

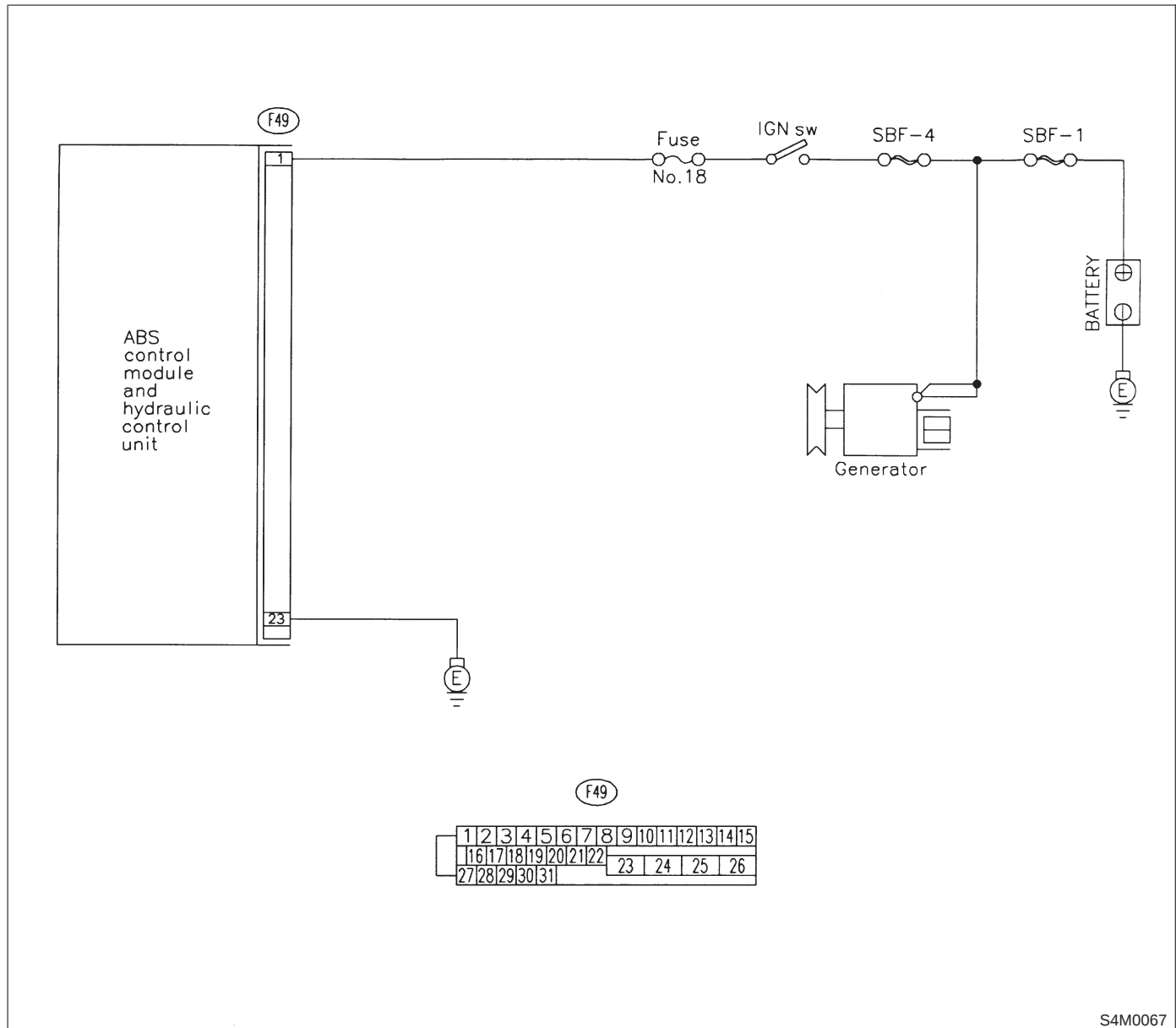
- CHECK** : *Are other trouble codes being output?*
- YES** : Proceed with the diagnosis corresponding to the trouble code.
- NO** : A temporary poor contact.

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.

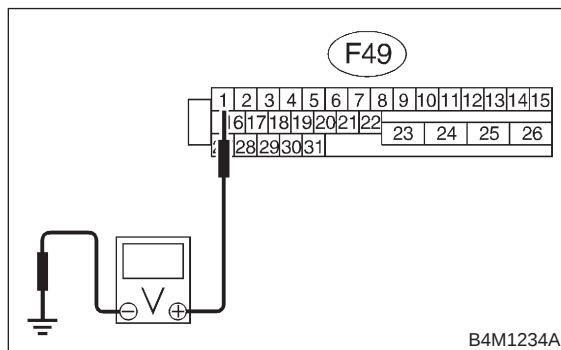
WIRING DIAGRAM:

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 (-):



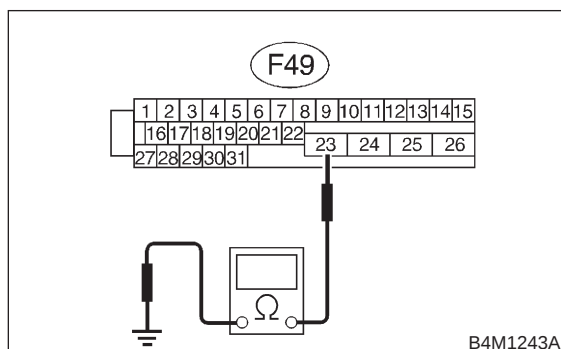
- CHECK** : *Is the voltage between 10 V and 15 V?*
- YES** : Go to step **8R2**.
- NO** : Repair harness connector between battery, ignition switch and ABSCM&H/U.

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 Ω?*
- YES** : Go to step **8R3**.
- NO** : Repair ABSCM&H/U ground harness.

8R3 : CHECK POOR CONTACT IN CONNECTORS.

- CHECK** : *Is there poor contact in connectors between generator, battery and ABSCM&H/U? <Ref. to FOREWORD [T3C1]. >*
- YES** : Repair connector.
- NO** : Go 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**.

8R5 : 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.

S: TROUBLE CODE 41

— ABNORMAL ABS CONTROL MODULE —

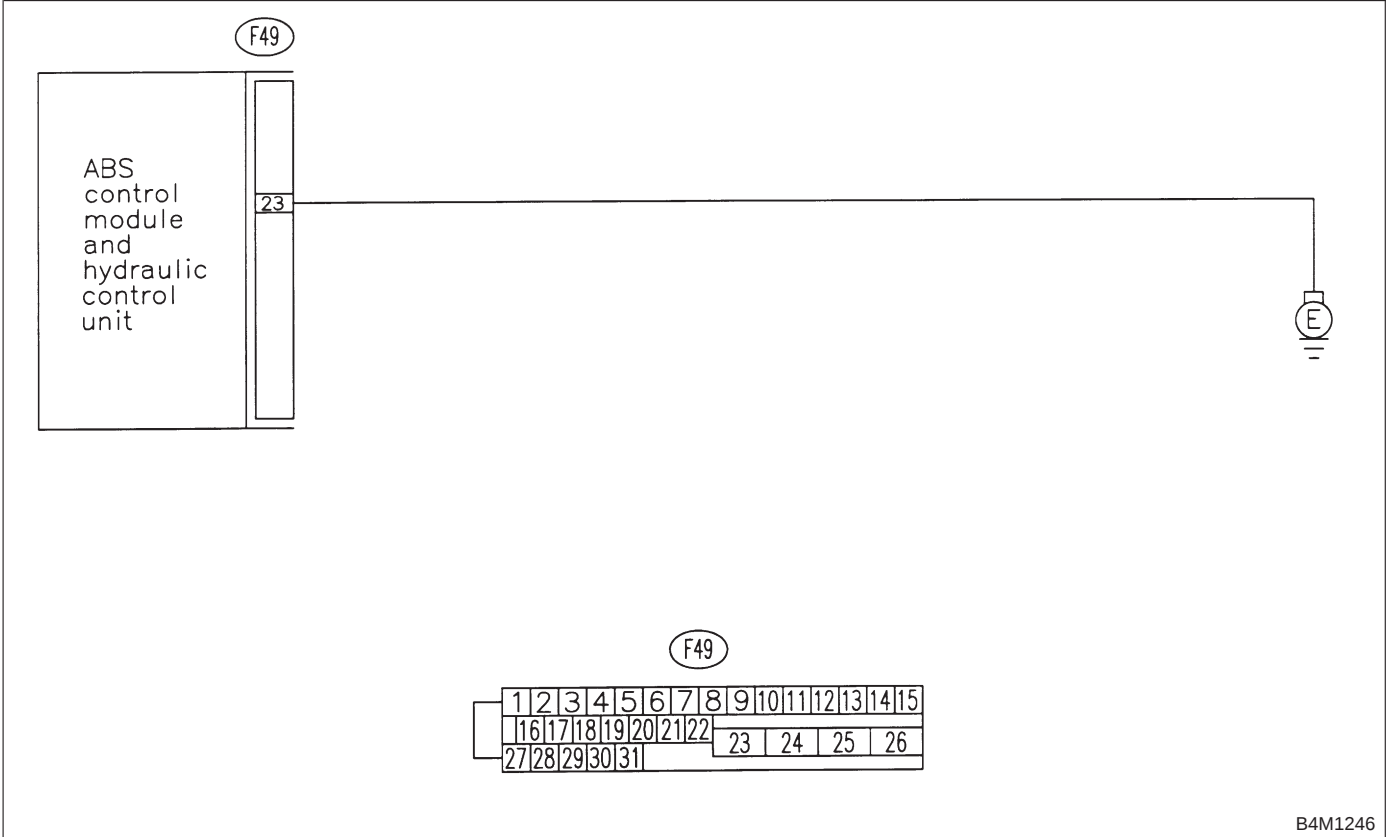
DIAGNOSIS:

- Faulty ABSCM&H/U.

TROUBLE SYMPTOM:

- ABS does not operate.

WIRING DIAGRAM:

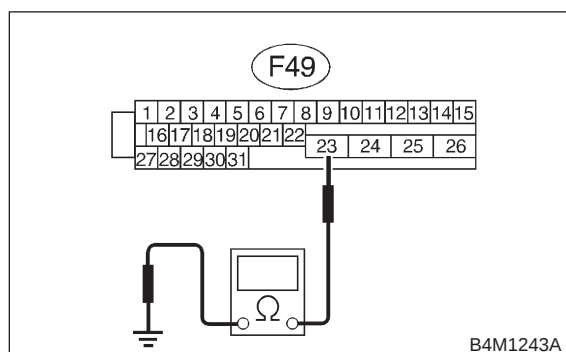


8S1 : CHECK GROUND CIRCUIT OF ABSCm&H/U.

- 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 Ω?*
- YES** : Go to step 8S2.
- NO** : Repair ABSCm&H/U ground harness.

8S2 : CHECK POOR CONTACT IN CONNECTORS.

- CHECK** : *Is there poor contact in connectors between battery, ignition switch and ABSCm&H/U? <Ref. to FOREWORD [T3C1]. >*
- YES** : Repair connector.
- NO** : Go to step 8S3.

8S3 : CHECK SOURCES OF SIGNAL NOISE.

- CHECK** : *Is the car telephone or the wireless transmitter properly installed?*
- YES** : Go to step 8S4.
- NO** : Properly install the car telephone or the wireless transmitter.

8S4 : CHECK SOURCES OF SIGNAL NOISE.

- CHECK** : *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.

8S6 : 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.

T: TROUBLE CODE 42

— SOURCE VOLTAGE IS ABNORMAL. —

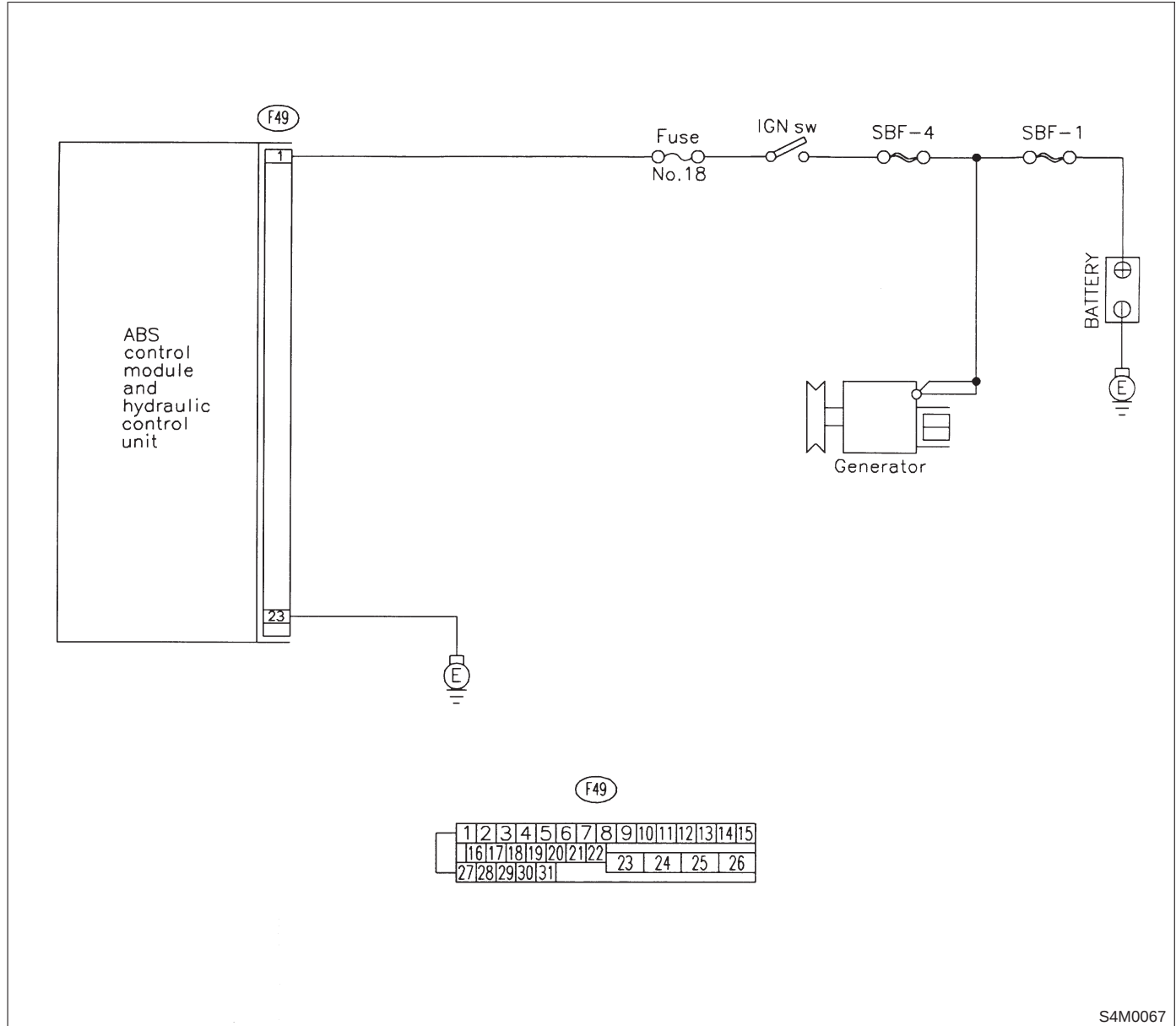
DIAGNOSIS:

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

TROUBLE SYMPTOM:

- ABS does not operate.

WIRING DIAGRAM:



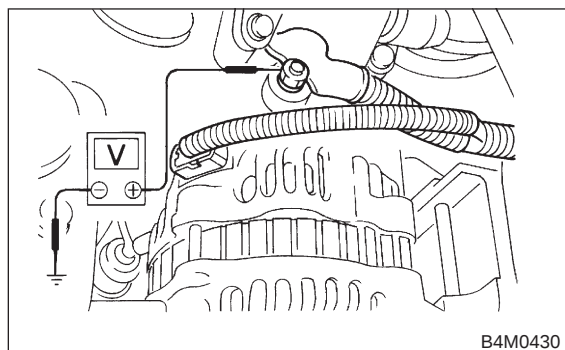
S4M0067

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?
- YES** : Go to step 8T2.
- NO** : Repair generator.

8T2 : CHECK BATTERY TERMINAL.

Turn ignition switch to OFF.

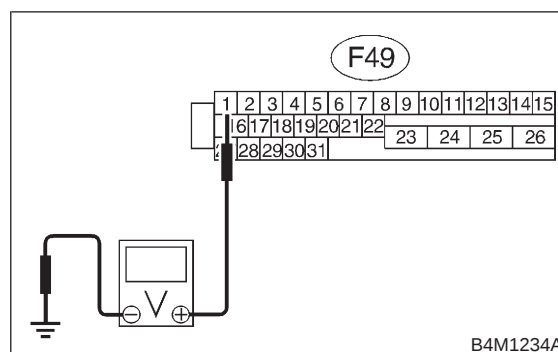
- CHECK** : Are the positive and negative battery terminals tightly clamped?
- YES** : Go to step 8T3.
- NO** : Tighten the clamp of terminal.

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 (-):



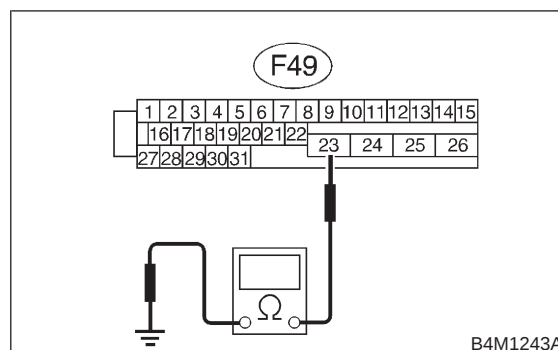
- CHECK** : Is the voltage between 10 V and 17 V?
- YES** : Go to step 8T4.
- NO** : Repair harness connector between battery, ignition switch and ABSCM&H/U.

8T4 : 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 Ω?
- 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]. >*

YES : Repair connector.

NO : 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.

MEMO:

U: TROUBLE CODE 44

— A COMBINATION OF AT CONTROL ABNORMAL —

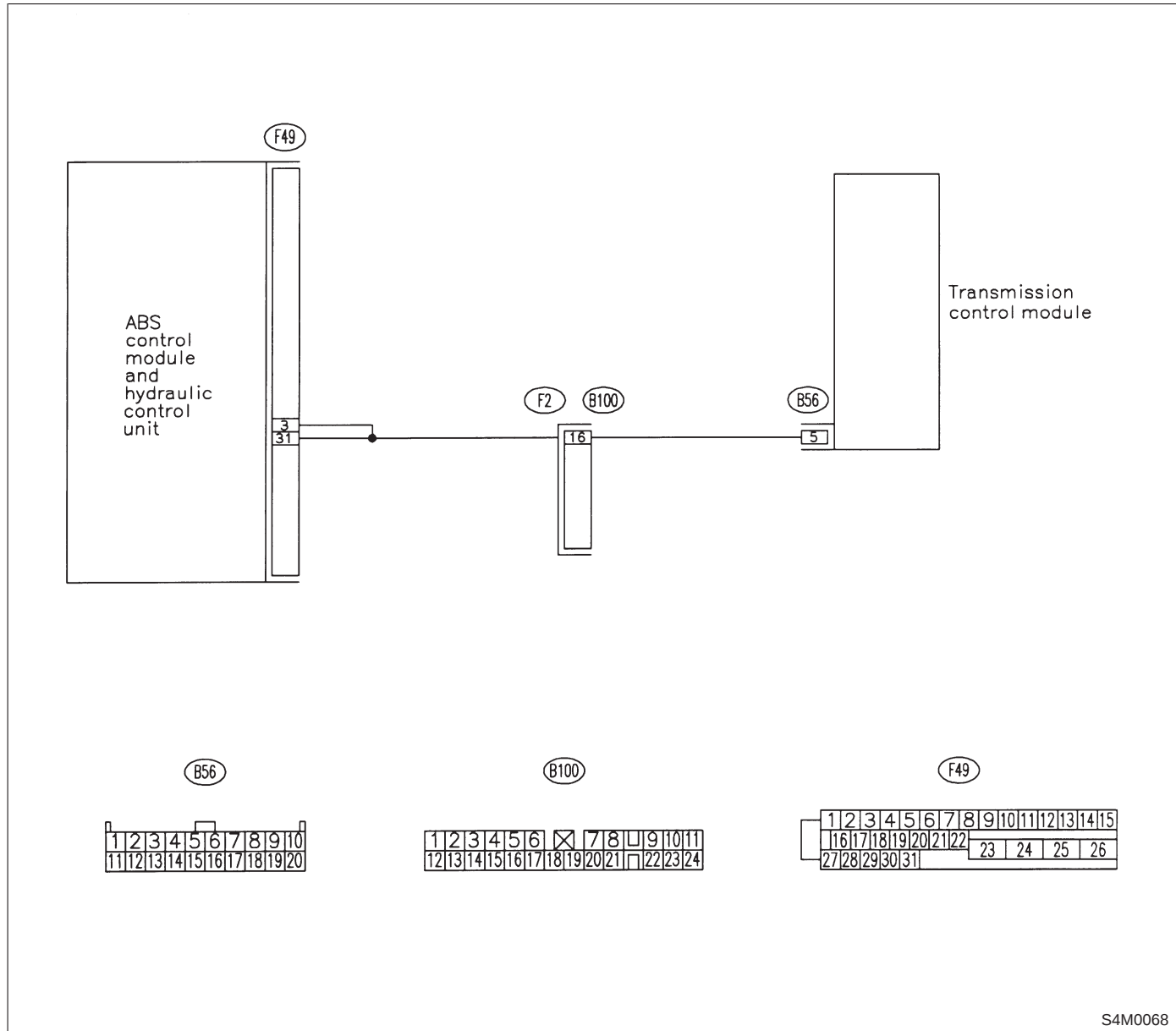
DIAGNOSIS:

● Combination of AT control faults

TROUBLE SYMPTOM:

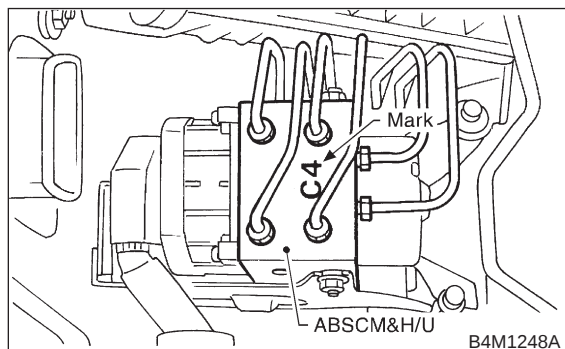
● ABS does not operate.

WIRING DIAGRAM:



8U1 : CHECK SPECIFICATIONS OF THE 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&H/U for AT model installed on a MT model?

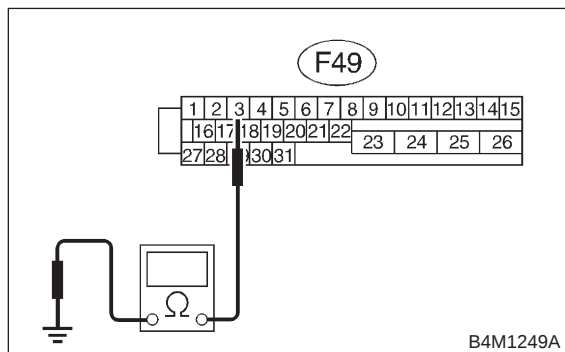
YES : Replace ABSCM&H/U.

NO : Go to step 8U2.

8U2 : CHECK GROUND SHORT OF HARNESS.

- 1) Turn ignition switch to OFF.
- 2) Disconnect two connectors from TCM.
- 3) 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 MΩ?

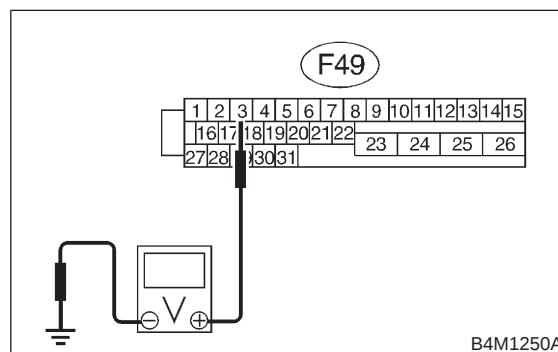
YES : Go to step 8U3.

NO : 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?

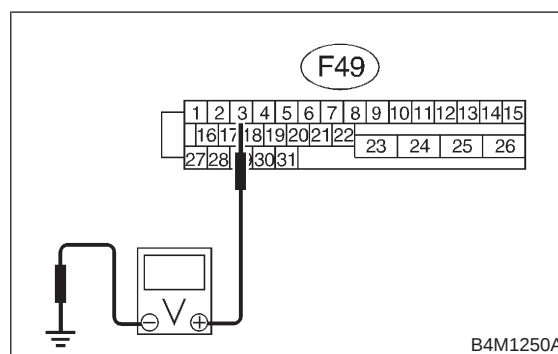
YES : Go to step 8U4.

NO : 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 (-):



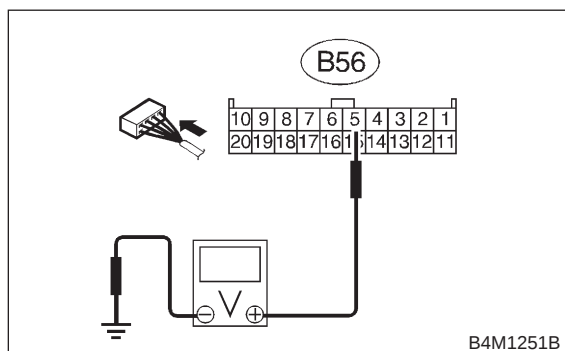
CHECK : Is the voltage less than 1 V?

YES : Go to step 8U5.

NO : 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 (-):**

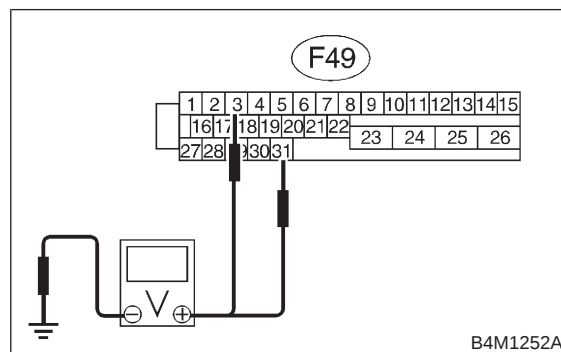
- CHECK** : Is the voltage between 10 V and 15 V?
- YES** : Go to step 8U7.
- NO** : Go to step 8U6.

8U6 : CHECK AT.

- CHECK** : Is the AT functioning normally?
- YES** : 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.
- NO** : Repair harness/connector between TCM and ABSCM&H/U.

8U8 : CHECK POOR CONTACT IN CONNECTORS.

- CHECK** : Is there poor contact in connectors between TCM and ABSCM&H/U?
<Ref. to FOREWORD [T3C1]. >
- YES** : Repair connector.
- NO** : Go 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.

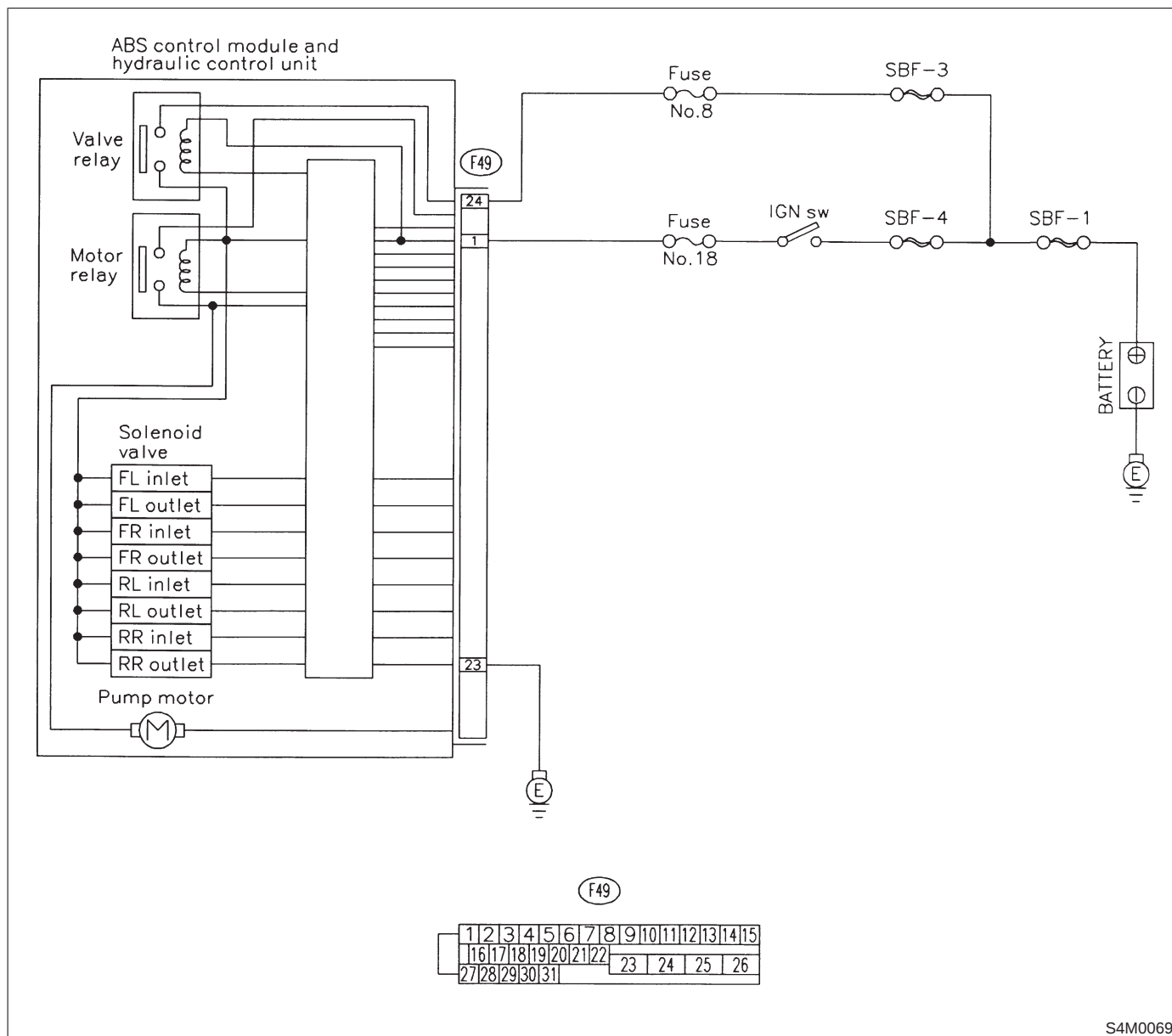
- CHECK** : *Are other trouble codes being output?*
- YES** : Proceed with the diagnosis corresponding to the trouble code.
- NO** : A temporary poor contact.

V: TROUBLE CODE 51**— ABNORMAL VALVE RELAY —****DIAGNOSIS:**

- Faulty valve relay

TROUBLE SYMPTOM:

- ABS does not operate.

WIRING DIAGRAM:

S4M0069

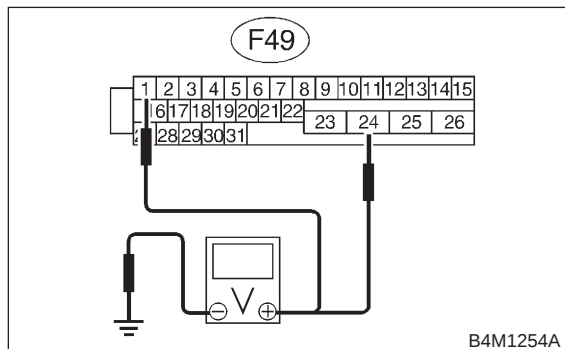
8V1 : CHECK INPUT VOLTAGE OF ABSCM&H/U.

- 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.

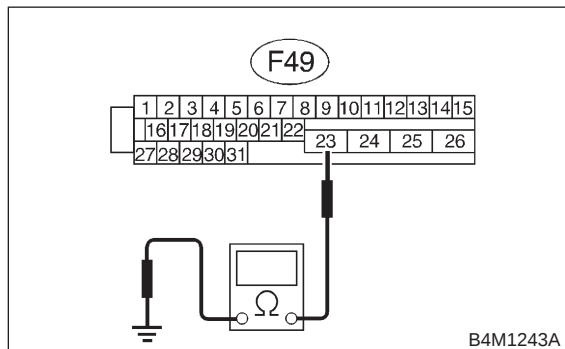
NO : Repair harness connector between battery and ABSCM&H/U.

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 Ω?

YES : Go to step 8V3.

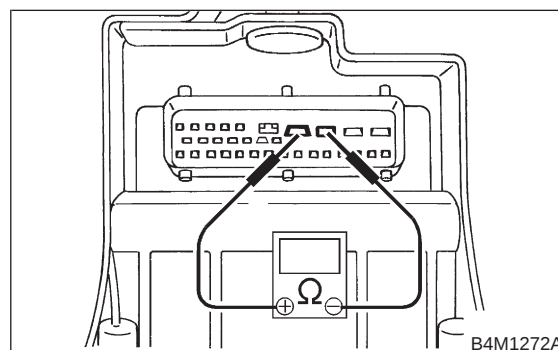
NO : Repair ABSCM&H/U ground harness.

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 MΩ?

YES : Go to step 8V4.

NO : Replace ABSCM&H/U.

8V4 : CHECK POOR CONTACT IN CONNECTORS.

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

YES : Repair connector.

NO : 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.

MEMO:

DIAGNOSIS:

- Faulty motor
- Faulty motor relay
- Faulty harness connector

- ABS does not operate.

WIRING DIAGRAM:

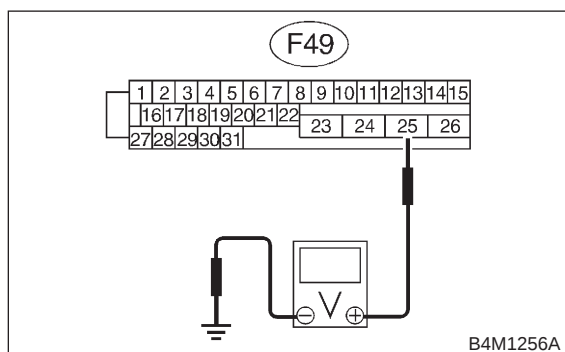


8W1 : CHECK INPUT VOLTAGE OF ABSCM&H/U.

- 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 (-):



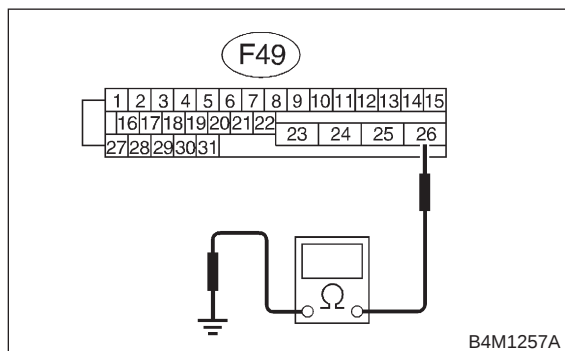
- CHECK** : Is the voltage between 10 V and 15 V?
- YES** : Go to step 8W2.
- NO** : Repair harness/connector between battery and ABSCM&H/U and check fuse SBF-holder.

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:



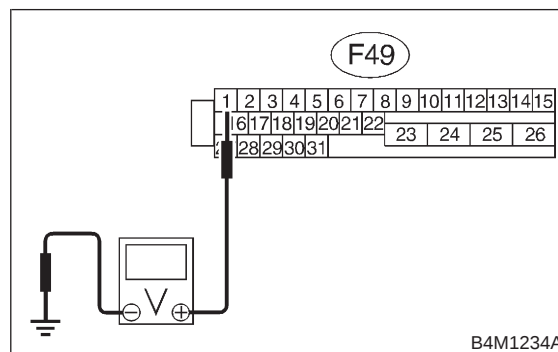
- CHECK** : Is the resistance less than 0.5 Ω?
- YES** : Go to step 8W3.
- NO** : Repair ABSCM&H/U ground harness.

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

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

Connector & terminal

(F49) No. 1 (+) — Chassis ground (-):



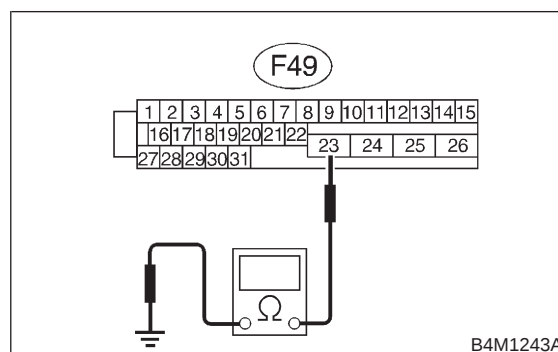
- CHECK** : Is the voltage between 10 V and 15 V?
- YES** : Go to step 8W4.
- NO** : Repair harness connector between battery, ignition switch and ABSCM&H/U.

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 Ω?
- YES** : Go to step 8W5.
- NO** : Repair ABSCM&H/U ground harness.

8W5 : CHECK MOTOR OPERATION.

Operate the sequence control. <Ref. to 4-4 [W14D1].>

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.

8W6 : CHECK POOR CONTACT IN CONNECTORS.

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**.

8W8 : 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.

MEMO:

X: TROUBLE CODE 54

— ABNORMAL STOP LIGHT SWITCH —

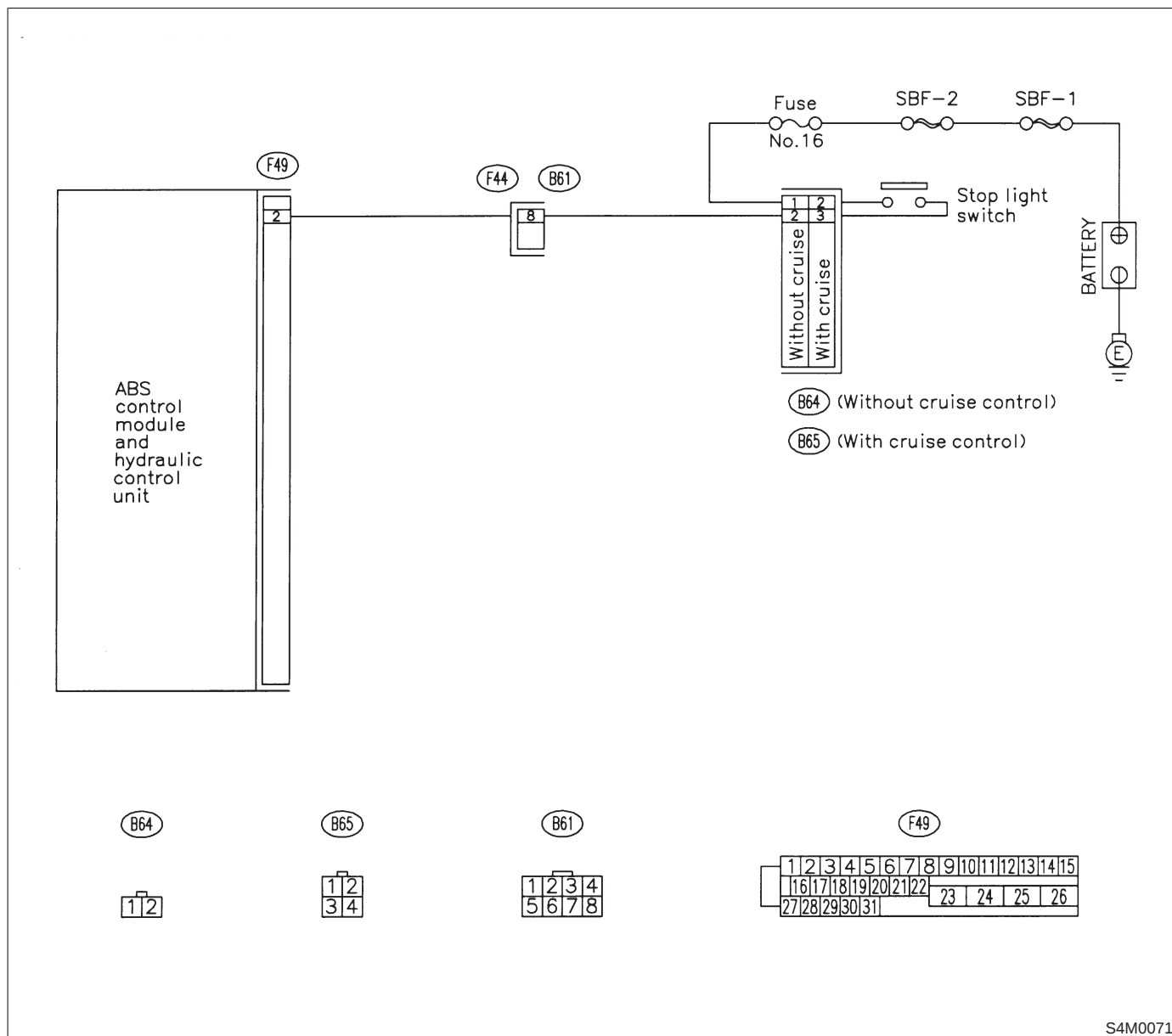
DIAGNOSIS:

- Faulty stop light switch

TROUBLE SYMPTOM:

- ABS does not operate.

WIRING DIAGRAM:



S4M0071

8X1 : CHECK STOP LIGHTS COME ON.

Depress the brake pedal.

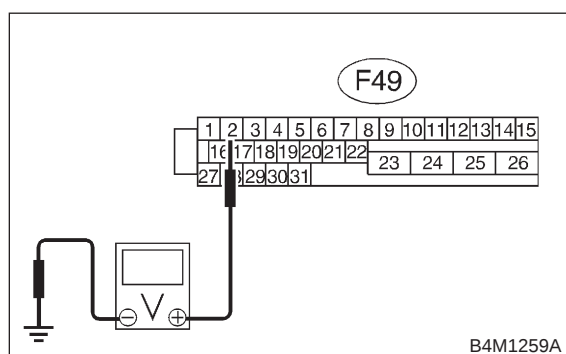
- CHECK** : *Do stop lights come on?*
- YES** : Go to step **8X2**.
- NO** : Repair stop lights circuit.

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.

- CHECK** : Is there poor contact in connector between stop light switch and ABSCM&H/U? <Ref. to FOREWORD [T3C1]. >
- YES** : Repair connector.
- NO** : 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?
- YES** : Proceed with the diagnosis corresponding to the trouble code.
- NO** : A temporary poor contact.

Y: TROUBLE CODE 56

— ABNORMAL G SENSOR OUTPUT VOLTAGE —

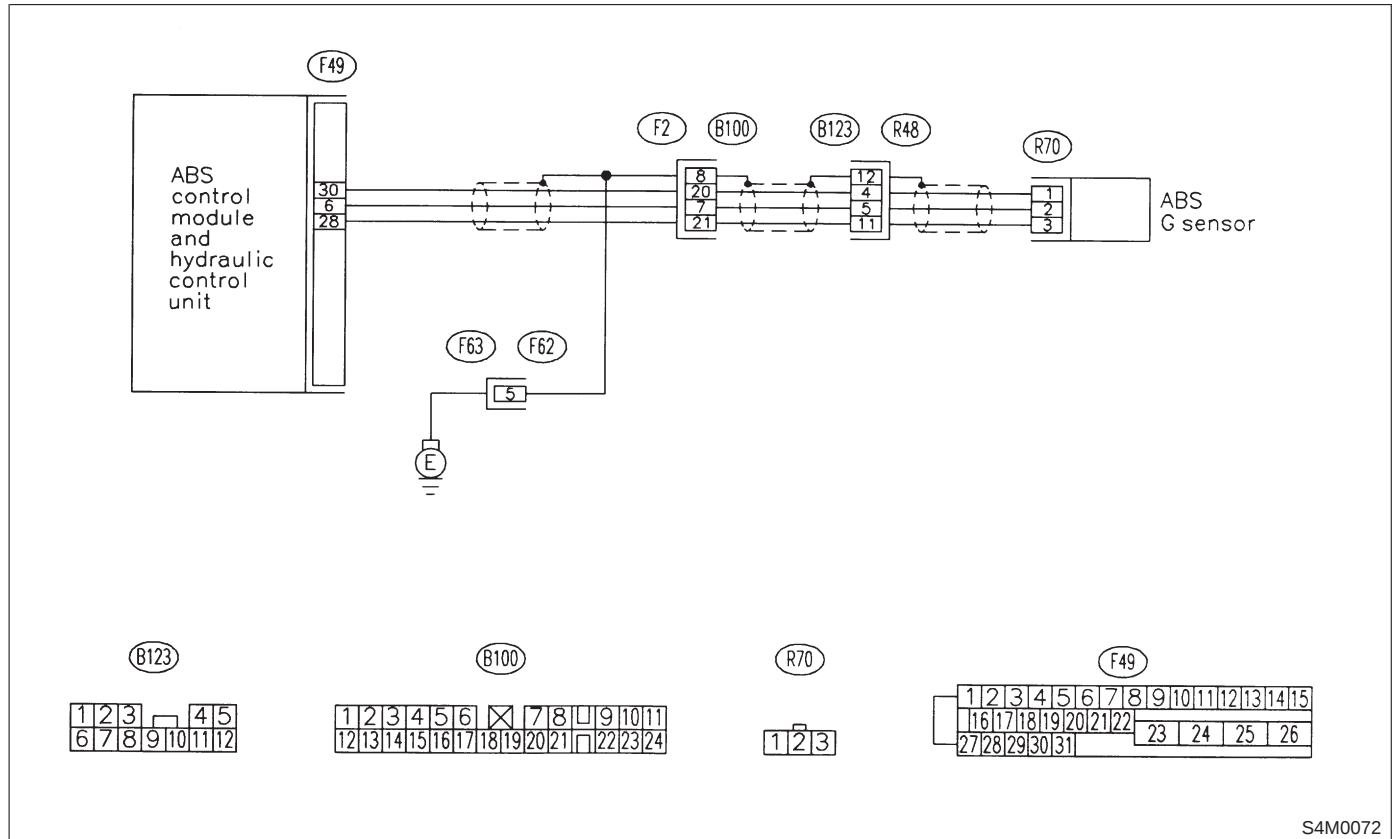
DIAGNOSIS:

- Faulty G sensor output voltage

TROUBLE SYMPTOM:

- ABS does not operate.

WIRING DIAGRAM:



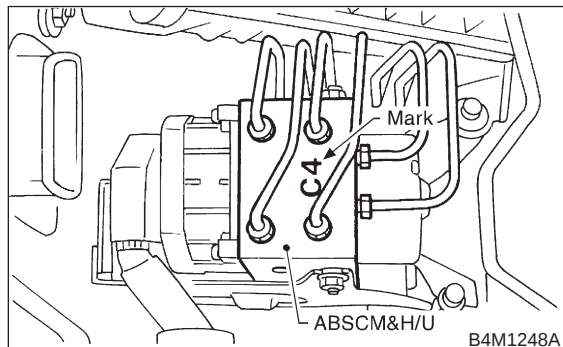
S4M0072

8Y1 : 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?*

YES : Replace ABSCM&H/U.

CAUTION:

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

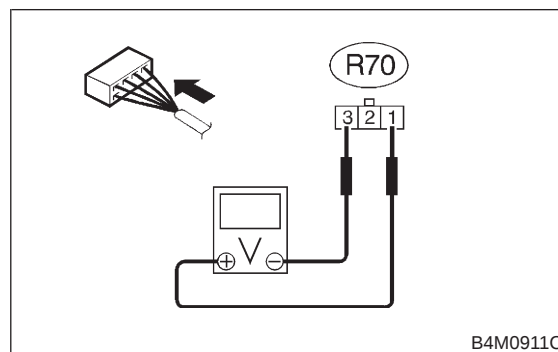
NO : Go to step 8Y3.

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

(R70) No. 1 (+) — No. 3 (-):



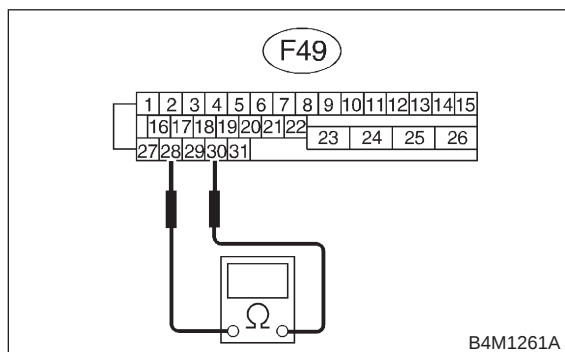
CHECK : *Is the voltage between 4.75 and 5.25 V?*

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:


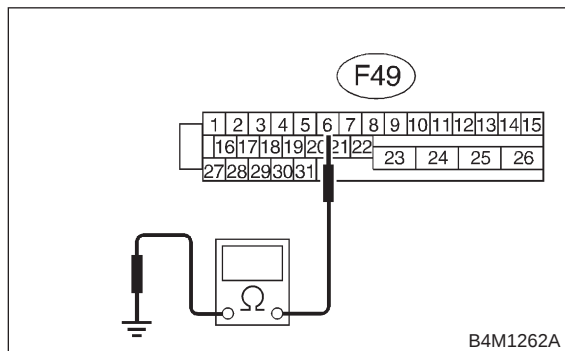
CHECK : Is the resistance between 4.3 and 4.9 kΩ?

YES : Go to step 8Y5.

NO : 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:


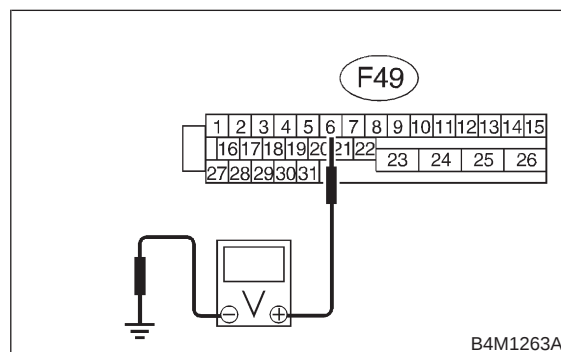
CHECK : Is the resistance more than 1 MΩ?

YES : Go to step 8Y6.

NO : 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 (-):


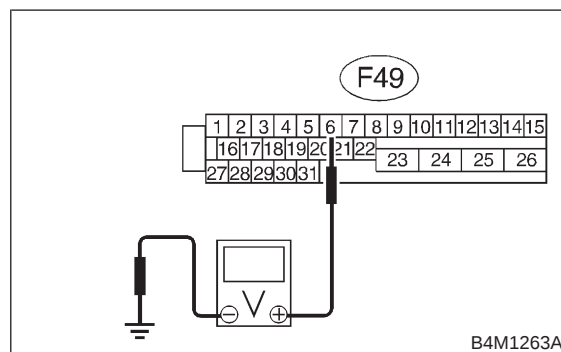
CHECK : Is the voltage less than 1 V?

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.

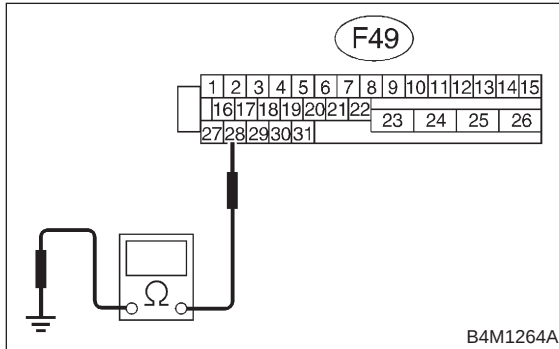
NO : Repair harness between G sensor and ABSCM&H/U.

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 MΩ?

YES : Go to step 8Y9.

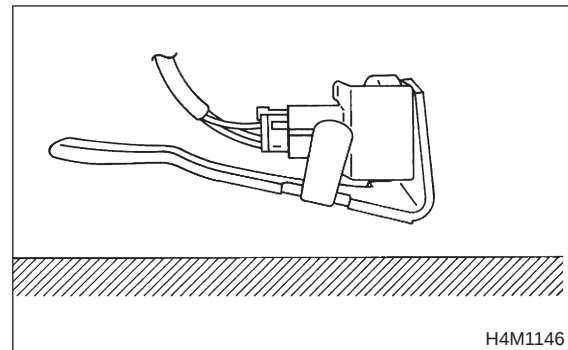
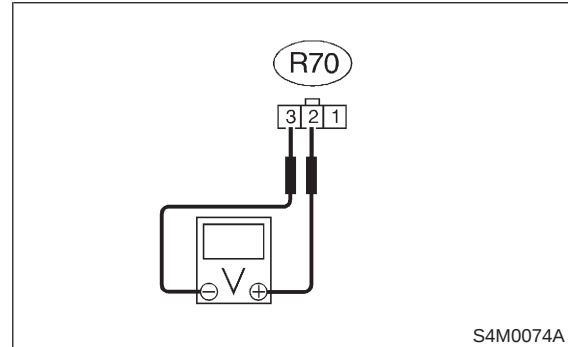
NO : Repair harness between G sensor and ABSCM&H/U.
Replace ABSCM&H/U.

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

(R70) No. 2 (+) — No. 3 (-):



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

YES : Go to step 8Y10.

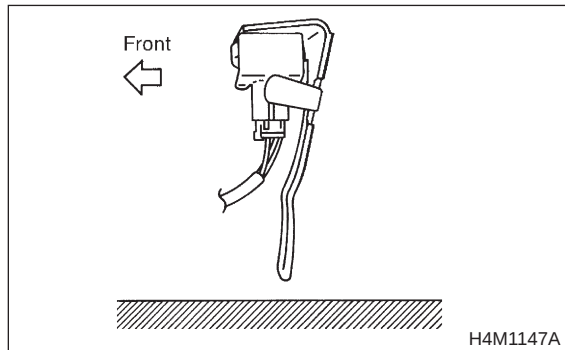
NO : Replace G sensor.

8Y10 : CHECK G SENSOR.

Measure voltage between G sensor connector terminals.

Connector & terminal

(R70) No. 2 (+) — No. 3 (-):



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

YES : Go to step **8Y11**.

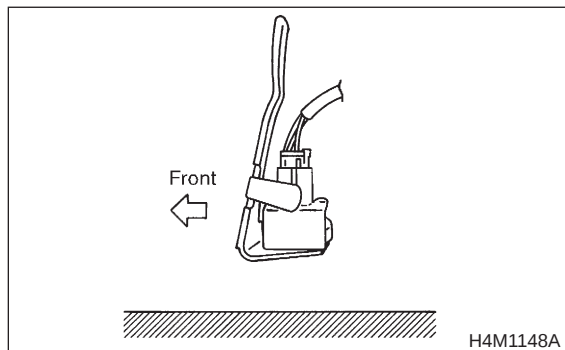
NO : Replace G sensor.

8Y11 : CHECK G SENSOR.

Measure voltage between G sensor connector terminals.

Connector & terminal

(R70) No. 2 (+) — No. 3 (-):



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.

8Y12 : CHECK POOR CONTACT IN CONNECTORS.

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

YES : Repair connector.

NO : Go to step **8Y13**.

8Y13 : 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 **8Y14**.

8Y14 : 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.