7. Diagnostics Chart for ABS Warning Light Circuit and Diagnosis Circuit Failure

A: ABS WARNING LIGHT DOES NOT COME ON.

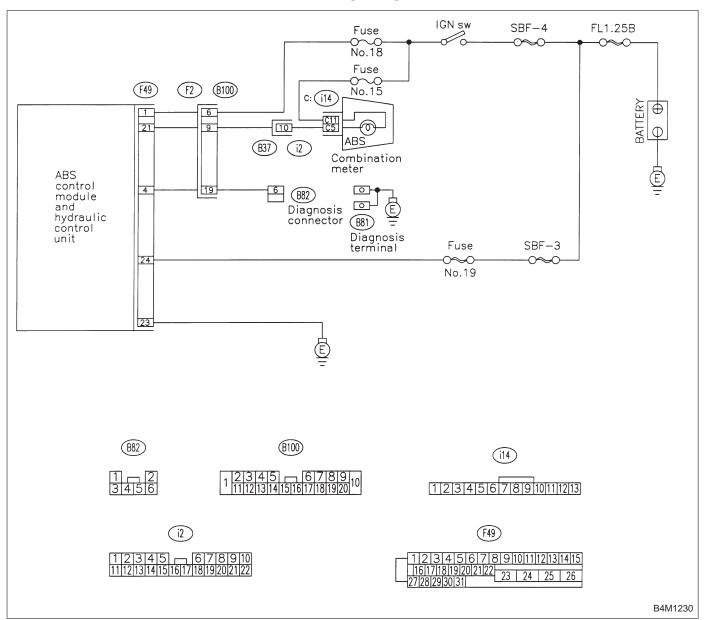
DIAGNOSIS:

ABS warning light circuit is open or shorted.

TROUBLE SYMPTOM:

• When ignition switch is turned ON (engine OFF), ABS warning light does not come on.

WIRING DIAGRAM:



7A1 CHECK IF OTHER WARNING LIGHTS TURN ON.

Turn ignition switch to ON (engine OFF).

(CHECK): Do other warning lights turn on?

YES: Go to step 7A2.

(NO): Repair combination meter.

7A2 CHECK ABS WARNING LIGHT BULB.

1) Turn ignition switch to OFF.

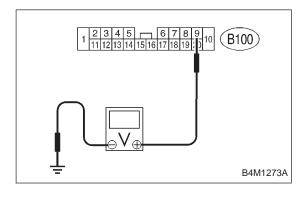
2) Remove combination meter.

3) Remove ABS warning light bulb from combination meter.

(CHECK) : Is ABS warning light bulb OK?

YES : Go to step 7A3.

(NO): Replace ABS warning light bulb.



7A3 CHECK BATTERY SHORT OF ABS WARNING LIGHT HARNESS.

1) Disconnect connector (B100) from connector (F2).

2) Measure voltage between connector (B100) and chassis ground.

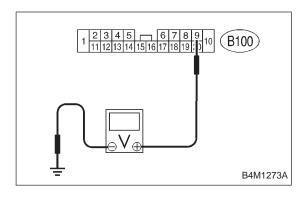
Connector & terminal

(B100) No. 9 (+) — Chassis ground (-):

CHECK : Is the voltage less than 3 V?

YES : Go to step 7A4.

(NO): Repair warning light harness.



7A4 CHECK BATTERY SHORT OF ABS WARNING LIGHT HARNESS.

- 1) Turn ignition switch to ON.
- 2) Measure voltage between connector (B100) and chassis ground.

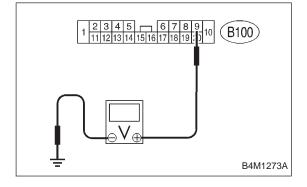
Connector & terminal

(B100) No. 9 (+) — Chassis ground (-):

CHECK : Is voltage less than 3 V?

(YES) : Go to step 7A5.

(NO): Repair warning light harness.



7A5 CHECK WIRING HARNESS.

- 1) Turn ignition switch to OFF.
- 2) Install ABS warning light bulb from combination meter.
- 3) Install combination meter.
- 4) Turn ignition switch to ON.
- 5) Measure voltage between connector (B100) and chassis ground.

Connector & terminal

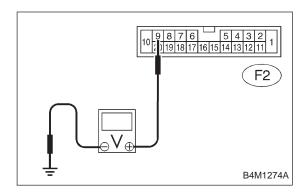
(B100) No. 9 (+) — Chassis ground (-):

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

(YES): Go to step 7A6.

(NO): Repair wiring harness.

7. Diagnostics Chart for ABS Warning Light Circuit and Diagnosis Circuit Failure



7A6 CHECK BATTERY SHORT OF ABS WARNING LIGHT HARNESS.

- 1) Turn ignition switch to OFF.
- 2) Measure voltage between connector (F2) and chassis ground.

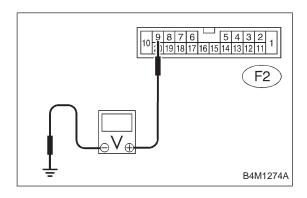
Connector & terminal

(F2) No. 9 (+) — Chassis ground (-):

(CHECK): Is the voltage less than 3 V?

(YES): Go to step 7A7.

: Repair wiring harness.



7A7 CHECK BATTERY SHORT OF ABS WARNING LIGHT HARNESS.

- 1) Turn ignition switch to ON.
- 2) Measure voltage between connector (F2) and chassis ground.

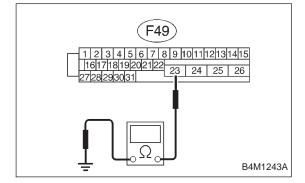
Connector & terminal

(F2) No. 9 (+) — Chassis ground (-):

(CHECK): Is voltage less than 3 V?

(YES): Go to step 7A8.

(NO): Repair wiring harness.



7A8 CHECK GROUND CIRCUIT OF ABSCM&H/U.

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

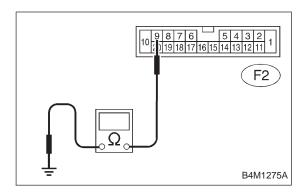
Connector & terminal (F49) No. 23 — GND:

(CHECK) : Is the resistance less than 0.5 Ω ?

(YES): Go to step 7A9.

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

7. Diagnostics Chart for ABS Warning Light Circuit and Diagnosis Circuit Failure



7A9 CHECK WIRING HARNESS.

Measure resistance between connector (F2) and chassis ground.

Connector & terminal

(F2) No. 9 — Chassis ground:

(CHECK): Is the resistance less than 0.5 Ω ?

(YES): Go to step 7A10.

(NO): Repair harness/connector.

7A10 CHECK POOR CONTACT IN CONNECTORS.

Turn ignition switch to OFF.

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

(NO): Repair connector.
(NO): Replace ABSCM&H/U.

B: ABS WARNING LIGHT DOES NOT GO OFF.

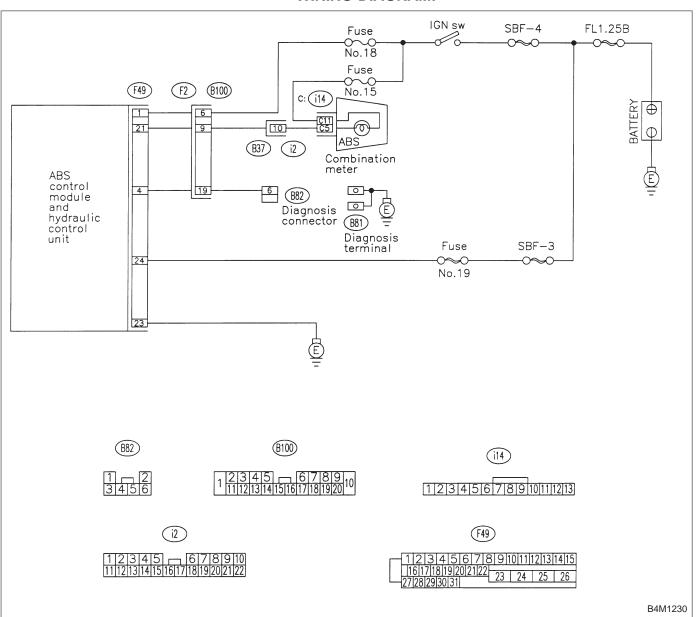
DIAGNOSIS:

• ABS warning light circuit is open or shorted.

TROUBLE SYMPTOM:

• When starting the engine and while ABS warning light is kept ON.

WIRING DIAGRAM:



CHECK INSTALLATION OF ABSCM&H/U **7B1** CONNECTOR.

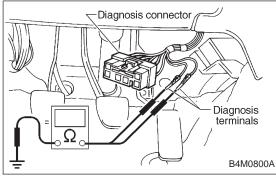
Turn ignition switch to OFF.

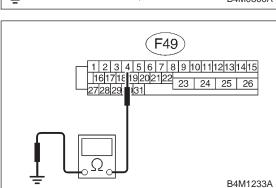
: Is ABSCM&H/U connector inserted into ABSCM until the clamp locks onto it?

(YES): Go to step 7B2.

: Insert ABSCM&H/U connector into ABSCM&H/U

until the clamp locks onto it.





7B2 CHECK DIAGNOSIS TERMINAL.

Measure resistance between diagnosis terminals (B81) and chassis ground.

CHECK : Terminals

Diagnosis terminal (A) — Chassis ground: Diagnosis terminal (B) — Chassis ground: Is the resistance less than 0.5 Ω ?

(YES): Go to step 7B3.

(NO): Repair diagnosis terminal harness.

7B3 CHECK DIAGNOSIS LINE.

1) Turn ignition switch to OFF.

Connect diagnosis terminal to diagnosis connector (B82) No. 6.

3) Disconnect connector from ABSCM&H/U.

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

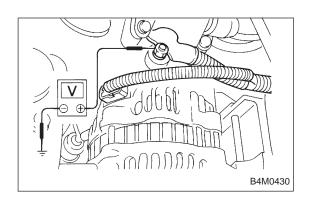
CHECK): Connector & terminal (F49) No. 4 — Chassis ground: Is the resistance less than 0.5 Ω ?

: Go to step **7B4**.

(YES)

: Repair harness connector between ABSCM&H/U NO

and diagnosis connector.



7B4 CHECK GENERATOR.

- 1) Start the engine.
- 2) Idle the engine.
- 3) Measure voltage between generator and chassis ground.

Terminal

Generator B terminal (+) — Chassis ground (-):

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

(YES): Go to step 7B5. (NO) : Repair generator.

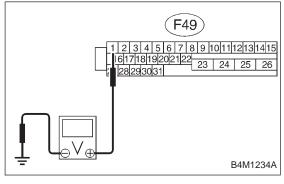
7B5 CHECK BATTERY TERMINAL.

Turn ignition switch to OFF.

CHECK): Is there poor contact at battery terminal?

(YES): Repair battery terminal.

(No): Go to step **7B6**.



7B6 CHECK POWER SUPPLY OF ABSCM.

- 1) Disconnect connector from ABSCM&H/U.
- Start engine.
- 3) Idle the engine.
- 4) Measure voltage between ABSCM&H/U connector and chassis ground.

Connector & terminal

(F49) No. 1 (+) — Chassis ground (-):

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

(YES): Go to step 7B7.

Repair ABSCM&H/U power supply circuit.

7B7 CHECK WIRING HARNESS.

- 1) Disconnect connector (F2) from connector (B100).
- 2) Turn ignition switch to ON.

CHECK): Does the ABS warning light remain off?

YES : Go to step **7B8**.

(No): Repair front wiring harness.

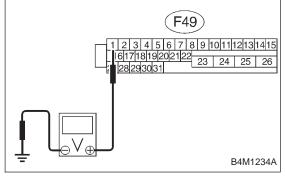


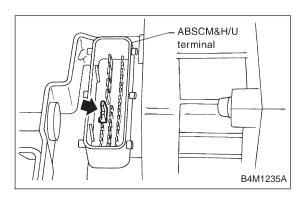
- 1) Turn ignition switch to OFF.
- 2) Check for broken projection at the ABSCM&H/U termi-

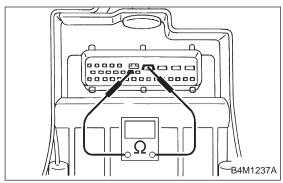
(CHECK): Are the projection broken?

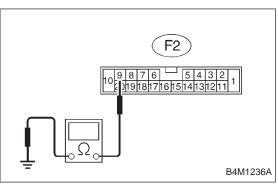
(YES): Go to step 7B9.

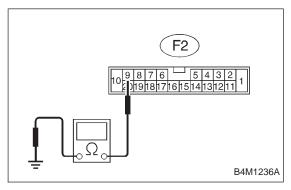
: Replace ABSCM&H/U.











7B9 CHECK ABSCM&H/U.

Measure resistance between ABSCM&H/U terminals.

Terminals

No. 21 — No. 23:

CHECK) : Is the resistance more than 1 M Ω ?

YES : Go to step **7B10**.

(NO): Replace ABSCM&H/U.

7B10 CHECK WIRING HARNESS.

Measure resistance between connector (F2) and chassis ground.

Connector & terminal

(F2) No. 9 — Chassis ground:

CHECK) : Is the resistance less than 0.5 Ω ?

YES : Go to step **7B11**.

NO : Repair harness.

7B11 CHECK WIRING HARNESS.

1) Connect connector to ABSCM&H/U.

2) Measure resistance between connector (F2) and chassis ground.

Connector & terminal

(F2) No. 9 — Chassis ground:

(CHECK) : Is the resistance more than 1 M Ω ?

Go to step **7B12**.

Repair harness.

7B12 CHECK POOR CONTACT IN ABSCM&H/U CONNECTOR.

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

Repair connector.

Replace ABSCM&H/U.

C: TROUBLE CODE DOES NOT APPEAR.

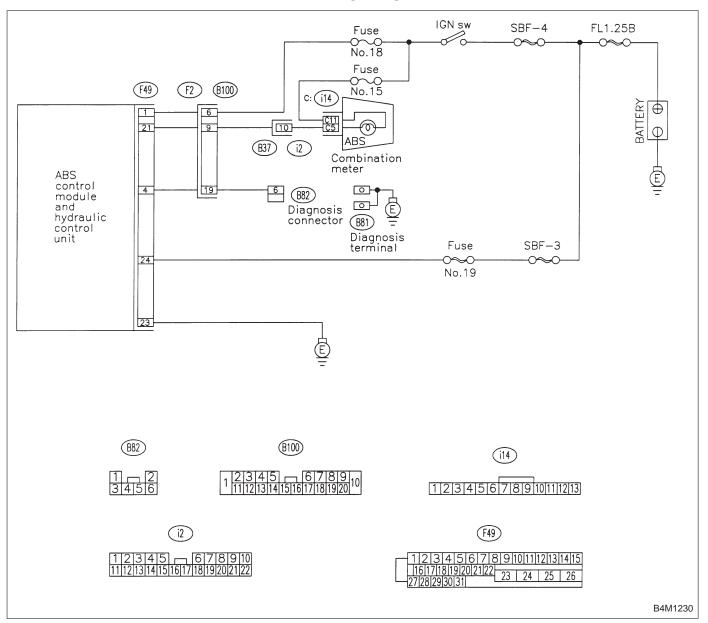
DIAGNOSIS:

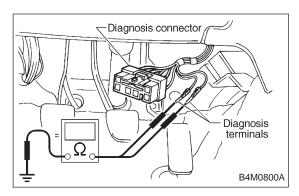
• Diagnosis circuit is open.

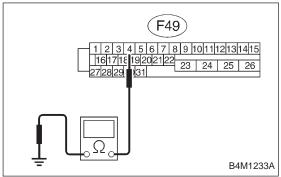
TROUBLE SYMPTOM:

• The ABS warning light turns on or off normally but the start code cannot be read out in the diagnostic mode.

WIRING DIAGRAM:







7C1 CHECK DIAGNOSIS TERMINAL.

Measure resistance between diagnosis terminals (B81) and chassis ground.

Terminals

Diagnosis terminal (A) — Chassis ground: Diagnosis terminal (B) — Chassis ground:

CHECK) : Is the resistance less than 0.5 Ω ?

YES : Go to step **7C2**.

(NO): Repair diagnosis terminal harness.

7C2 CHECK DIAGNOSIS LINE.

1) Turn ignition switch to OFF.

2) Connect diagnosis terminal to diagnosis connector (B82) No. 6.

3) Disconnect connector from ABSCM&H/U.

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

Connector & terminal

(F49) No. 4 — Chassis ground:

(CHECK) : Is the resistance less than 0.5 Ω ?

YES : Go to step **7C3**.

No : Repair harness connector between ABSCM&H/U

and diagnosis connector.

7C3 CHECK POOR CONTACT IN ABSCM&H/U CONNECTOR.

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

(YES): Repair connector.

(NO): Replace ABSCM&H/U.