# A: ABS WARNING LIGHT DOES NOT COME ON.

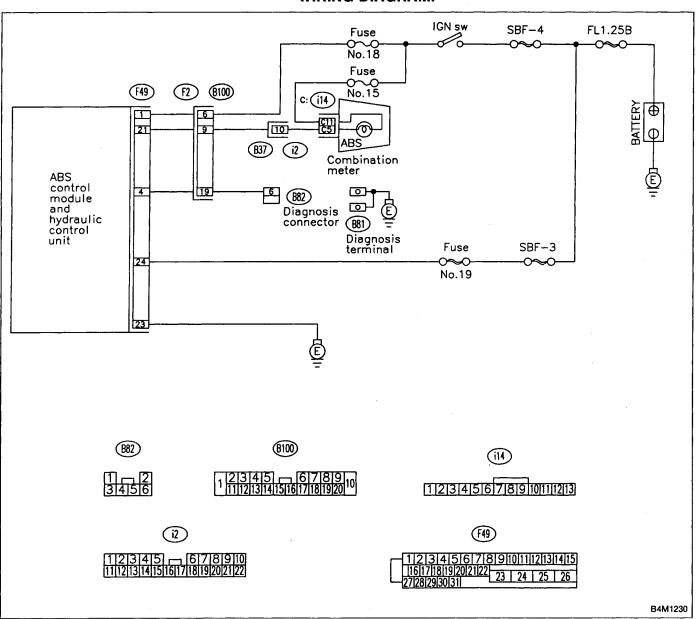
#### **DIAGNOSIS:**

• 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.

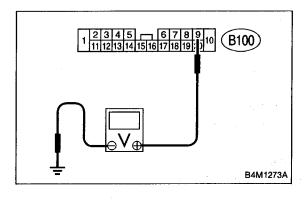
2) Remove combination meter.

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 WARN-ING LIGHT HARNESS.

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

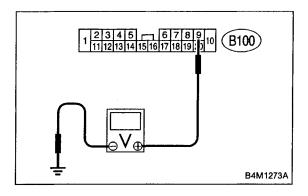
2) Measure voltage between connector (B100) and chassis ground.

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 WARN-ING LIGHT HARNESS.

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

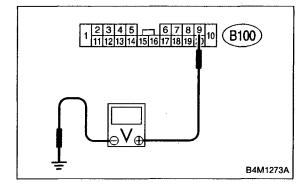
### Connector & terminal

(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.

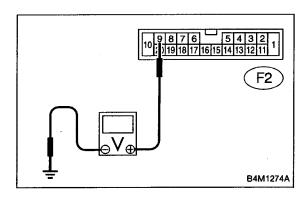
#### Connector & terminal

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

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

(YES): Go to step 7A6.

(No): Repair wiring harness.



# 7A6 CHECK BATTERY SHORT OF ABS WARN-ING LIGHT HARNESS.

1) Turn ignition switch to OFF.

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

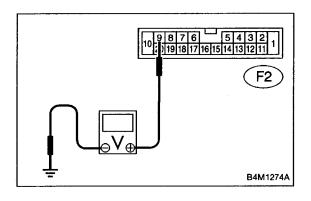
Connector & terminal

(F2) No. 9 (+) — Chassis ground (-):

CHECK): Is the voltage less than 3 V?

(YES): Go to step 7A7.

(No): Repair wiring harness.



# 7A7 CHECK BATTERY SHORT OF ABS WARN-ING LIGHT HARNESS.

1) Turn ignition switch to ON.

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

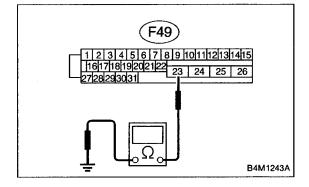
Connector & terminal

(F2) No. 9 (+) — Chassis ground (-):

(CHECK): Is voltage less than 3 V?

(YES): Go to step 7A8.

Repair wiring harness.



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

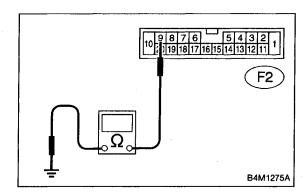
Measure resistance between ABSCM&H/U and chassis ground.

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

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

(YES): Go to step 7A9.

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



# 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  $\Omega$ ?

YES : Go to step 7A10.

(NO): Repair harness/connector.

# 7A10 CHECK POOR CONTACT IN CONNECTORS.

Turn ignition switch to OFF.

CHECK: Is there poor contact in connectors between combination meter and ABSCM&H/U? < Ref. to FOREWORD [T3C1].☆10>

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

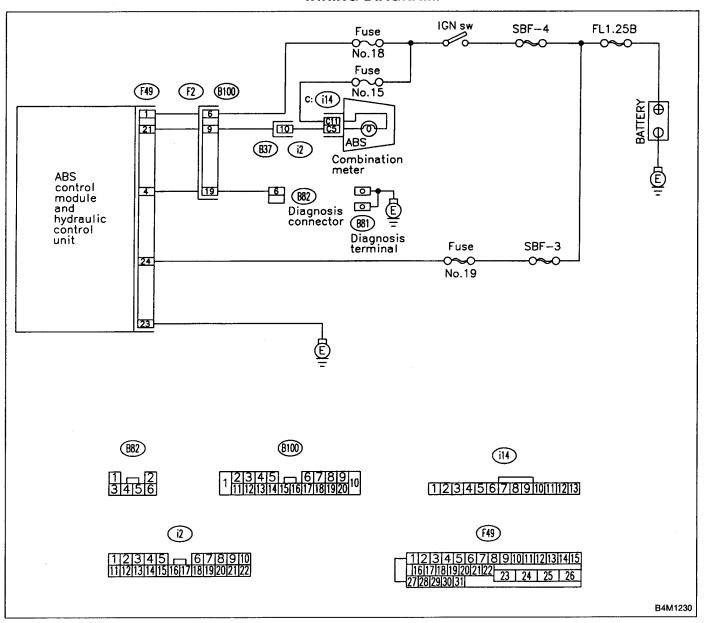
# B: ABS WARNING LIGHT DOES NOT GO OFF. DIAGNOSIS:

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.



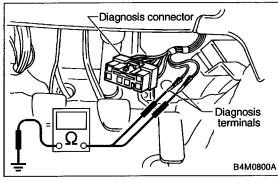
(CHECK): Is ABSCM&H/U connector inserted into ABSCM until the clamp locks onto it?

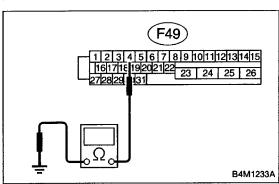
YES

: 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  $\Omega$ ?

: Go to step **7B3**. YES

(NO)

: Repair diagnosis terminal harness.

#### **7B3** 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.

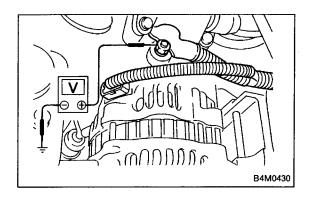
4) Measure resistance between ABSCM&H/U connector and chassis ground.

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

(YES): Go to step 7B4.

: Repair harness connector between ABSCM&H/U

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.

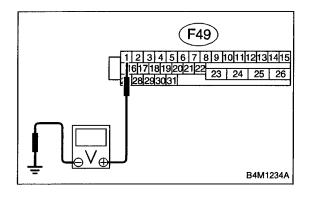
# 7B5 CHECK BATTERY TERMINAL.

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.
- 2) 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**.

(NO): Repair ABSCM&H/U power supply circuit.

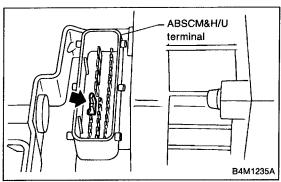
# 7B7 CHECK WIRING HARNESS.

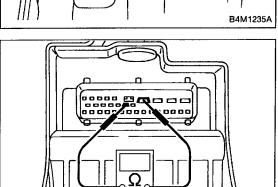
- 1) Disconnect connector (F2) from connector (B100).
- 2) Turn ignition switch to ON.

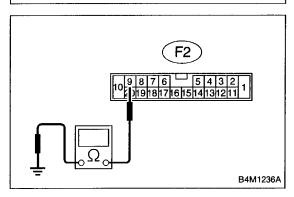
CHECK): Does the ABS warning light remain off?

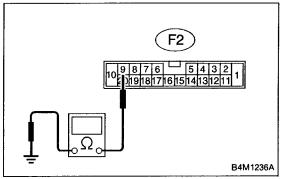
(YES): Go to step 7B8.

(NO): Repair front wiring harness.









### 7B8 CHECK PROJECTION AT ABSCM&H/U.

1) Turn ignition switch to OFF.

2) Check for broken projection at the ABSCM&H/U terminal.

CHECK): Are the projection broken?

(YES): Go to step 7B9.

(NO): Replace ABSCM&H/U.

### 7B9 CHECK ABSCM&H/U.

Measure resistance between ABSCM&H/U terminals.

#### **Terminals**

B4M1237A

No. 21 — No. 23:

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

**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  $\Omega$ ?

(NO): Go to step **7B11**.

# 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 $\Omega$ ?

Go to step **7B12**.

Repair harness.

# 7B12 CHECK POOR CONTACT IN ABSCM&H/U

CHECK: Is there poor contact in ABSCM&H/U connector? < Ref. to FOREWORD [T3C1].☆10>

YES : Repair connector.

: Replace ABSCM&H/U.

### C: TROUBLE CODE DOES NOT APPEAR.

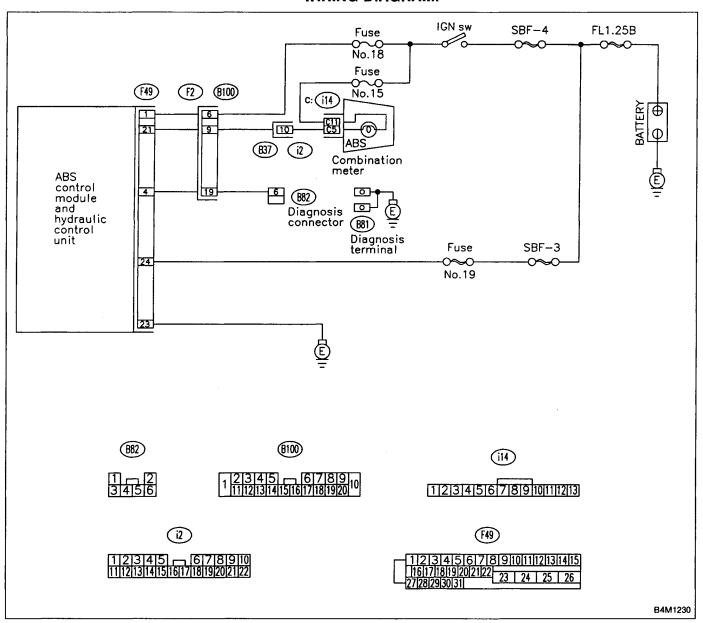
#### **DIAGNOSIS:**

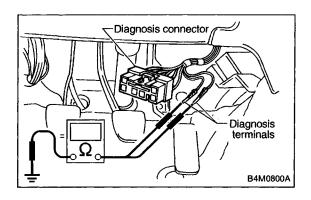
• Diagnosis circuit is open.

#### **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.

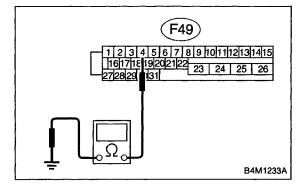
#### **Terminals**

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

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

(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  $\Omega$ ?

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

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

and diagnosis connector.

1760	CHECK POOR CONTACT IN ABSCM&H/U
	CONNECTOR.

(CHECK): Is there poor contact in ABSCM&H/U connector? <Ref. to FOREWORD [T3C1].☆10>

: Repair connector. (YES)

: Replace ABSCM&H/U.