



**A: LO MODE OPERATION**

**CONDITION:**

Condition (1) :

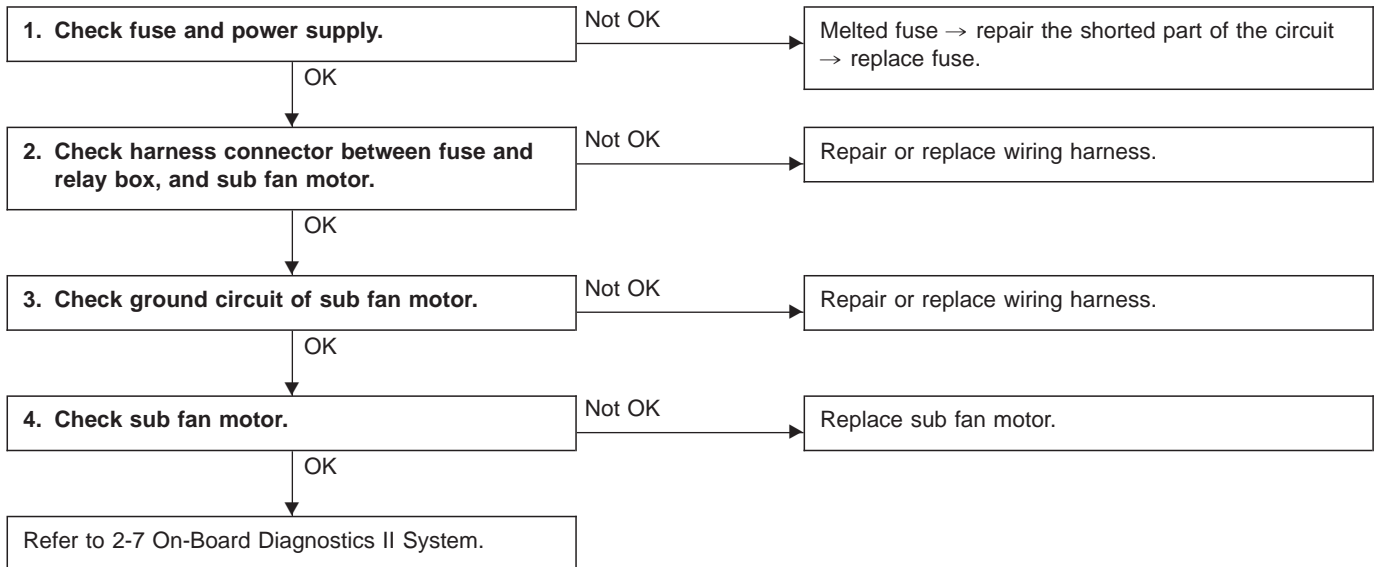
- Engine coolant temperature is below 89°C (192°F).
- A/C switch is turned ON.
- Vehicle speed is below 10 km/h (6 MPH).

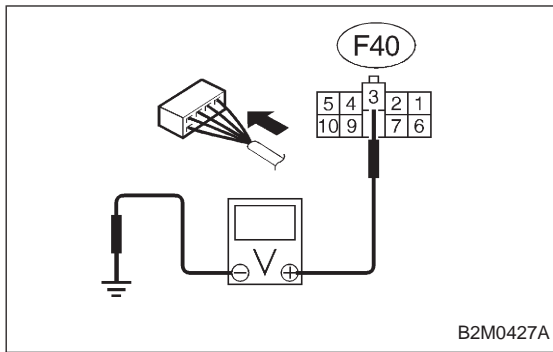
Condition (2) :

- Engine coolant temperature is above 95°C (203°F).
- A/C switch is turned OFF.
- Vehicle speed is below 10 km/h (6 MPH).

**TROUBLE SYMPTOM:**

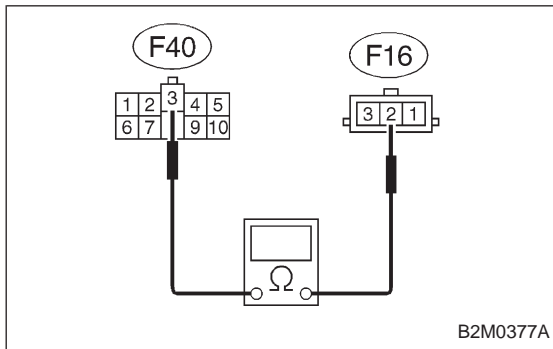
- Radiator sub fan does not rotate at LO speed under conditions (1) and (2) above.



**1. CHECK FUSE AND POWER SUPPLY.**

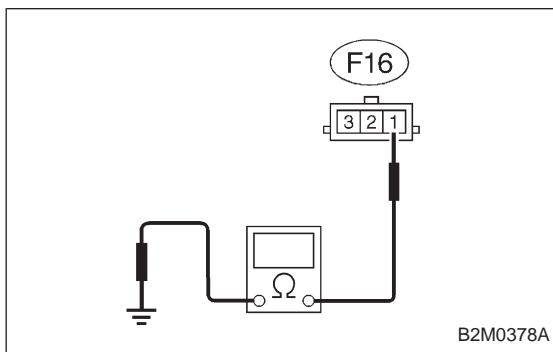
- 1) Check fuse No. 13.
- 2) Turn ignition switch to ACC.
- 3) Measure voltage between fuse and relay box, and body.

**Connector & terminal / Specified voltage:**  
**(F40) No. 3 — Body / 10 V, or more**

**2. CHECK HARNESS CONNECTOR BETWEEN FUSE AND RELAY BOX, AND SUB FAN MOTOR.**

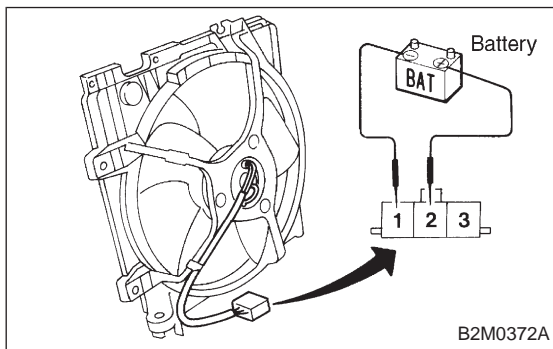
- 1) Turn ignition switch to OFF.
- 2) Disconnect connectors from fuse and relay box, and sub fan motor.
- 3) Measure resistance of harness connector between fuse and relay box, and sub fan motor.

**Connector & terminal / Specified resistance:**  
**(F40) No. 3 — (F16) No. 2 / 10 Ω, max.**

**3. CHECK GROUND CIRCUIT OF SUB FAN MOTOR.**

Measure resistance between sub fan motor connector and body.

**Connector & terminal / Specified resistance:**  
**(F16) No. 1 — Body / 10 Ω, max.**

**4. CHECK SUB FAN MOTOR.**

- 1) Disconnect connector from sub fan motor.
- 2) Connect battery positive (+) terminal to terminal No. 2 and connect terminal No. 1 to ground. Ensure that fan rotates at LO speed.

**B: HI MODE OPERATION**

**CONDITION:**

Condition (1) :

- Engine coolant temperature is below 89°C (192°F).
- A/C switch is turned ON.
- Vehicle speed is over 20 km/h (12 MPH).

Condition (2) :

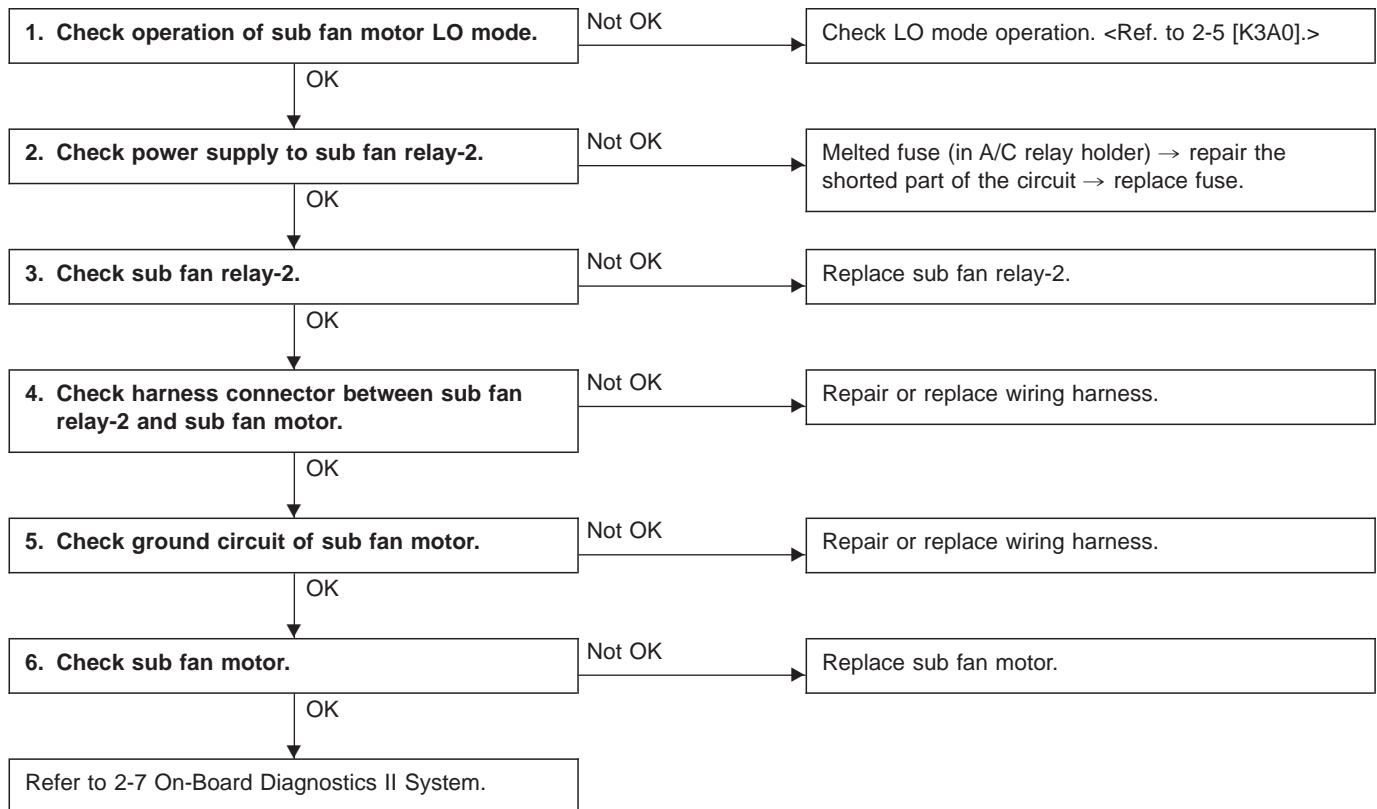
- Engine coolant temperature is above 95°C (203°F).
- A/C switch is turned OFF.
- Vehicle speed is over 20 km/h (12 MPH).

Condition (3) :

- Engine coolant temperature is above 95°C (203°F).
- A/C switch is turned ON.

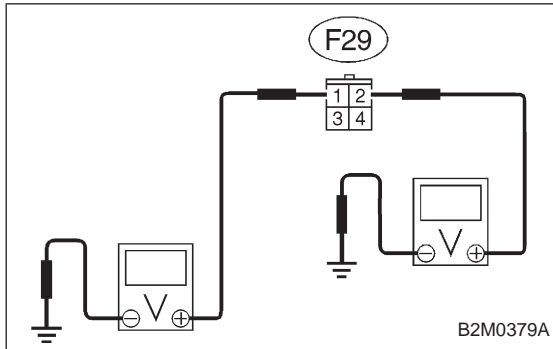
**TROUBLE SYMPTOM:**

- Radiator sub fan does not rotate at HI speed under conditions (1), (2) and (3) above.



**1. CHECK OPERATION OF SUB FAN MOTOR LO MODE.**

Check that radiator sub fan rotates at LO speed under each condition described under LO mode operation. <Ref. to 2-5 [K3A0].>



**2. CHECK POWER SUPPLY TO SUB FAN RELAY-2.**

- 1) Turn ignition switch to OFF.
- 2) Disconnect connector from A/C relay holder.
- 3) Measure voltage between A/C relay holder connector and body.

**Connector & terminal / Specified voltage:**

**(F29) No. 1 — Body / 1 V, max.**

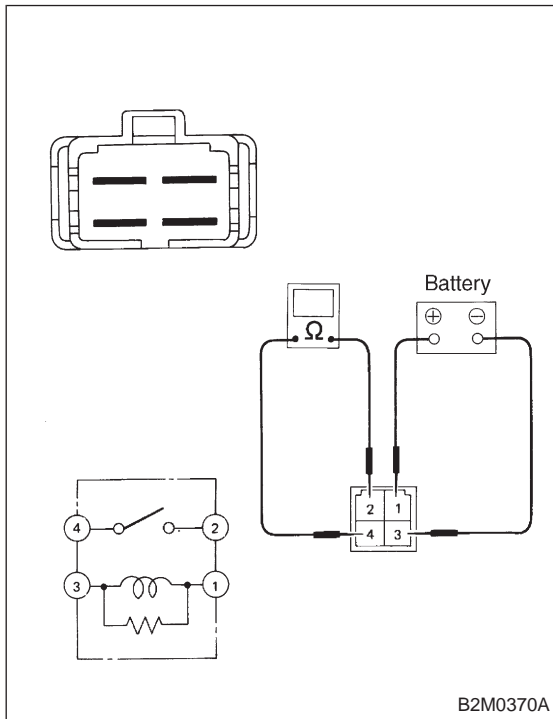
**(F29) No. 2 — Body / 1 V, max.**

- 4) Turn ignition switch to ON.
- 5) Measure voltage between A/C relay holder connector and body.

**Connector & terminal / Specified voltage:**

**(F29) No. 1 — Body / 10 V, or more**

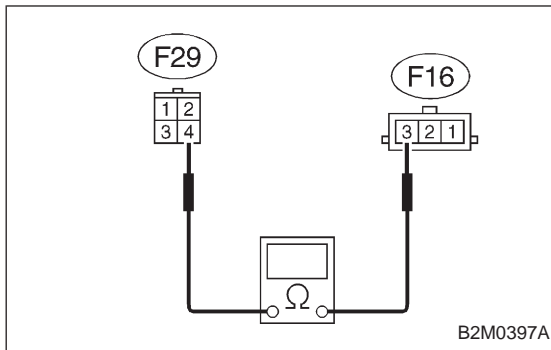
**(F29) No. 2 — Body / 10 V, or more**



**3. CHECK SUB FAN RELAY-2.**

- 1) Turn ignition switch to OFF.
- 2) Remove sub fan relay-2 from A/C relay holder.
- 3) Check continuity between terminals (indicated in table below) when terminal (1) is connected to battery and terminal (3) is grounded.

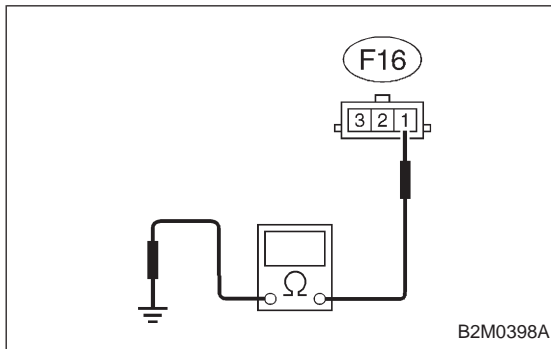
|                             |                               |                            |
|-----------------------------|-------------------------------|----------------------------|
| When current flows.         | Between terminals (2) and (4) | Continuity exists.         |
| When current does not flow. | Between terminals (2) and (4) | Continuity does not exist. |
|                             | Between terminals (1) and (3) | Continuity exists.         |



#### 4. CHECK HARNESS CONNECTOR BETWEEN SUB FAN RELAY-2 AND SUB FAN MOTOR.

- 1) Disconnect connectors from sub fan relay-2 and sub fan motor.
- 2) Measure resistance of harness connector between sub fan relay-2 and sub fan motor.

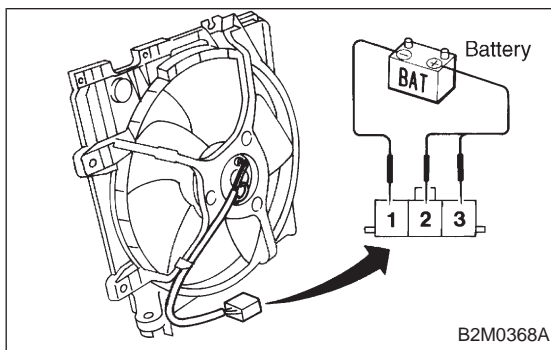
**Connector & terminal / Specified resistance:**  
**(F29) No. 4 — (F16) No. 3 / 10  $\Omega$ , max.**



#### 5. CHECK GROUND CIRCUIT OF SUB FAN MOTOR.

Measure resistance between sub fan motor connector and body.

**Connector & terminal / Specified resistance:**  
**(F16) No. 1 — Body / 10  $\Omega$ , max.**



#### 6. CHECK SUB FAN MOTOR.

- 1) Disconnect connector from sub fan motor.
- 2) Connect battery positive (+) terminal to terminals No. 2 and No.3, and connect terminal No. 1 to ground. Ensure that fan rotates at HI speed.