DIAGNOSTIC PROCEDURE WITH TROUBLE CODE

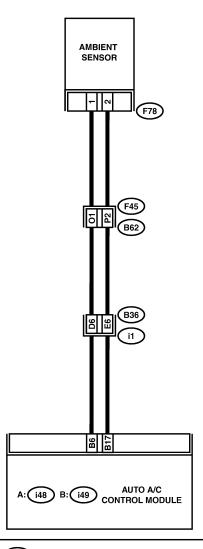
HVAC System (Auto A/C) (DIAGNOSTICS)

8. Diagnostic Procedure with Trouble Code sources

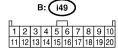
A: TROUBLE CODE 21 OR -21 (AMBIENT SENSOR) 5001509F41

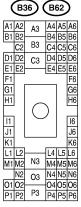
TROUBLE SYMPTOM:

Fan speed, outlets and inlets are not switched when AUTO or ECON switch is ON. **WIRING DIAGRAM:**









B4M2375

No.	Step	Check	Yes	No
1	CHECK AMBIENT SENSOR. 1) Turn ignition switch to OFF. 2) Disconnect connector from ambient sensor. 3) Measure resistance between connector terminals of ambient sensor. Terminals: No. 1 — No. 2	Is the resistance approx. 2.2 kΩ at 25°C (77°F)?	Go to step 2.	Replace ambient sensor.
2	CHECK INPUT SIGNALS FOR AMBIENT SENSOR. 1) Turn ignition ON. 2) Measure voltage between (F78) connector terminals. Connector & terminal: (F78) No. 1 — No. 2	Is the voltage approx. 4.5 V?	Go to step 6.	Go to step 3.
3	CHECK OUTPUT SIGNALS FROM A/C CONTROL MODULE. 1) Turn ignition switch to OFF. 2) Pull out A/C control panel. 3) Disconnect connector from ambient sensor. 4) Turn ignition switch to ON. 5) Measure voltage between connector terminals of A/C control module. Connector & terminal: (i49) No. 6 — No. 17	Is the voltage approx. 4.5 V?	Go to step 6.	Go to step 4.
4	CHECK HARNESS CONNECTOR BETWEEN A/C CONTROL MODULE AND AMBIENT SENSOR. 1) Turn ignition switch to OFF. 2) Disconnect connectors from A/C control module. 3) Measure resistance of harness between A/C control module and ambient sensor. Connector & terminal: (F78) No. 1 — (i49) No. 6	Is the resistance less than 1 Ω ?	Go to step 5.	Repair open circuit in harness between A/C control module and ambient sensor.
5	CHECK HARNESS CONNECTOR BETWEEN A/C CONTROL MODULE AND AMBIENT SENSOR. Measure resistance of harness between A/C control module and ambient sensor. Connector & terminal: (F78) No. 2 — (i49) No. 17	Is the resistance less than 1 Ω ?	Go to step 6.	Repair open cir- cuit in harness between A/C con- trol module and ambient sensor.
6	CHECK POOR CONTACT. Check poor contact in A/C control module.	Is there poor contact in A/C control module?	Repair poor contact in A/C control module.	Contact with SOA (distributor) service.

DIAGNOSTIC PROCEDURE WITH TROUBLE CODE

HVAC System (Auto A/C) (DIAGNOSTICS)

B: TROUBLE CODE 22 OR -22 (IN-VEHICLE SENSOR) S001509F42

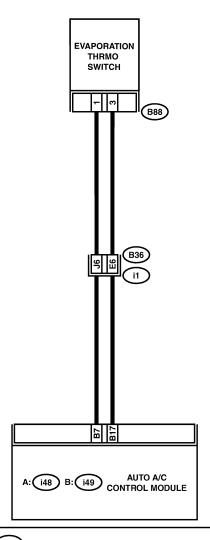
TROUBLE SYMPTOM:

When turning AUTO switch to ON, blower fan speed, outlet port and inlet port is not changed.

If trouble code 22 or -22 appears on the display, replace the A/C control module. The in-vehicle sensor is built into the A/C control module and cannot be replaced as a single unit.

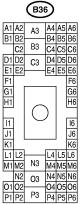
MEMO:

C: TROUBLE CODE 24 OR –24 (EVAPORATOR SENSOR) 5001509F43 WIRING DIAGRAM:



B88

B: 149 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



B4M2376

No.	Step	Check	Yes	No
1	CHECK EVAPORATOR SENSOR. 1) Turn ignition switch to OFF. 2) Remove glove box. 3) Disconnect connector from evaporator sensor. 4) Measure resistance between connector terminals of evaporator sensor. Terminals: No. 1 — No. 3	Is the resistance approx. 1.8 — 2.0 kΩ at 20°C (68°F)?	Go to step 2.	Replace evaporator sensor.
2	CHECK INPUT SIGNALS FOR EVAPORATOR SENSOR. 1) Turn ignition switch to "ON". 2) Measure voltage between (B88) connector terminal and chassis ground. Connector & terminal (B88) No. 1 (+) — Chassis ground (-):	Is the voltage approx. 4.5 V?	Go to step 3.	Replace evaporator sensor.
3	CHECK OUTPUT SIGNALS FROM A/C CONTROL MODULE. 1) Turn ignition switch to OFF. 2) Pull out A/C control module. 3) Turn ignition switch to "ON". 4) Measure voltage between A/C control module connector terminals. Connector & terminal: (i49) No. 7 — No. 17	Is the voltage approx. 4.5 V?	Go to step 4.	Go to step 6.
4	CHECK HARNESS CONNECTOR BETWEEN A/C CONTROL MODULE AND EVAPORATOR SENSOR. 1) Turn ignition switch to OFF. 2) Disconnect connectors from A/C control module. 3) Measure resistance of harness between A/C control module and evaporator sensor. Connector & terminal: (B88) No. 1 — (i49) No. 7	Is the resistance less than 1 Ω ?	Go to step 5.	Repair open circuit in harness between A/C control module and evaporator sensor.
5	CHECK HARNESS CONNECTOR BETWEEN A/C CONTROL MODULE AND EVAPORATOR SENSOR. Measure resistance of harness between A/C control module and evaporator sensor. Connector & terminal: (B88) No. 3 — (i49) No. 17	Is the resistance less than 1 Ω ?	Go to step 6.	Repair open circuit in harness between A/C control module and evaporator sensor.
6	CHECK POOR CONTACT. Check poor contact in A/C control module.	Is there poor contact in A/C control module?	Repair poor contact in A/C control module.	Contact with SOA (distributor) service.

DIAGNOSTIC PROCEDURE WITH TROUBLE CODE

HVAC System (Auto A/C) (DIAGNOSTICS)

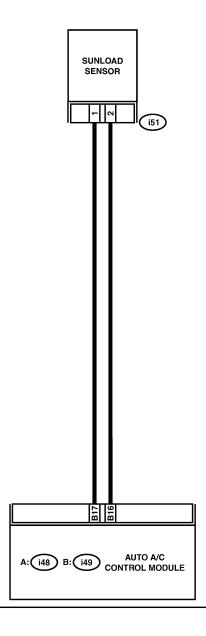
D: TROUBLE CODE 25 OR -25 (SUNLOAD SENSOR) 5001509F44

TROUBLE SYMPTOM:

- Sensor identified that sunlight is at maximum. Then, A/C system is controlled to COOL side.
 Sensor identified that sunlight is at minimum. Then, A/C system is controlled to HOT side.

When the sunload sensor is checked inside the passenger compartment or in the shade, code "25" may appear on the indicator. Always check the sunload sensor in a place where it senses direct sunlight.

WIRING DIAGRAM:



(i51) 1 2 B: 149 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

B4M2377

No.	Step	Check	Yes	No
1	CHECK SUNLOAD SENSOR. 1) Turn ignition switch to OFF. 2) Remove sunload sensor. <ref. (auto="" a="" ac-44,="" c).="" removal,="" sensor="" sun-load="" to=""> 3) Measure resistance between sunload sensor terminals. Terminals: No. 2 — No. 1</ref.>	Is the resistance less than 1 Ω ?	Go to step 2.	Replace sunload sensor.
2	CHECK SUNLOAD SENSOR. Make sure that there is no resistance in the reverse side terminals. Terminals: No. 1 — No. 2	Is the resistance more than 1 $\mbox{M}\Omega\mbox{?}$	Go to step 3.	Replace sunload sensor.
3	CHECK INPUT VOLTAGE TO SUNLOAD SENSOR. 1) Turn ignition switch to ON. 2) Measure input voltage to sunload sensor. Connector & terminal: (i51) No. 2 — No. 1	Is the voltage approx. 4.5 V?	Go to step 6.	Go to step 4.
4	CHECK HARNESS CONNECTOR BETWEEN A/C CONTROL MODULE AND SUNLOAD SENSOR. 1) Turn ignition switch to OFF. 2) Disconnect connectors from A/C control module. 3) Measure resistance of harness between A/C control module and sunload sensor. Connector & terminal: (i51) No. 2 — (i49) No. 16	Is the resistance less than 1 Ω ?	Go to step 5.	Repair open circuit in harness between A/C control module and sunload sensor.
5	CHECK HARNESS CONNECTOR BETWEEN A/C CONTROL MODULE AND SUNLOAD SENSOR. Measure resistance of harness between A/C control module and sunload sensor. Connector & terminal: (i51) No. 1 — (i49) No. 17	Is the resistance less than 1 Ω ?	Go to step 6.	Repair open circuit in harness between A/C control module and sunload sensor.
6	CHECK POOR CONTACT. Check poor contact in A/C control module.	Is there poor contact in A/C control module?	Repair poor contact in A/C control module.	Contact with SOA (distributor) service.