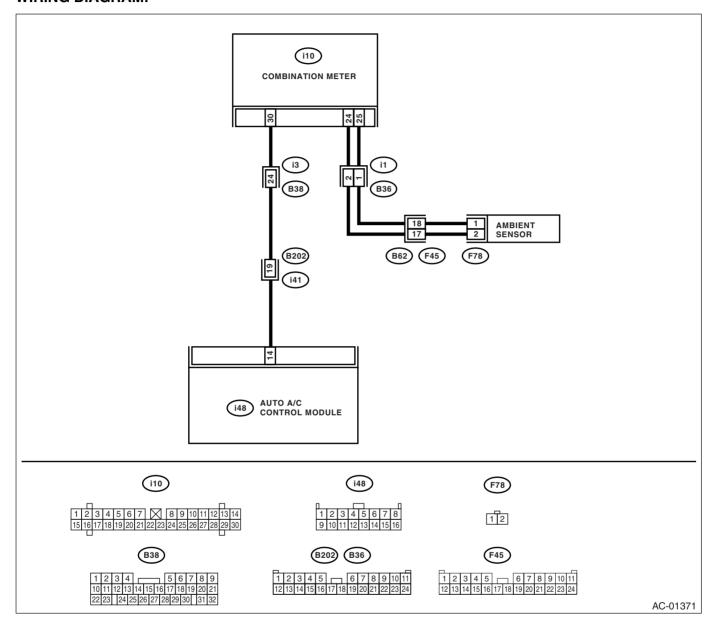
A: AMBIENT SENSOR

TROUBLE SYMPTOM:

- Fan speed is not switched when the fan speed control dial is in AUTO position.
- Failure related to the ambient sensor is indicated in self-diagnosis.

WIRING DIAGRAM:

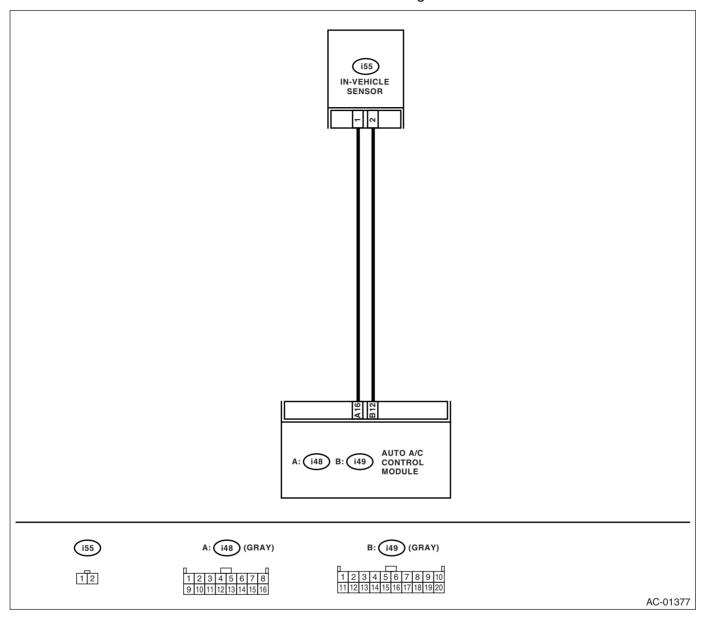


	Step	Check	Yes	No
1	CHECK HARNESS BETWEEN AUTO A/C CONTROL MODULE AND COMBINATION METER. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from auto A/C control module and the combination meter. 3) Measure the resistance of harness between the auto A/C control module and combination meter. Connector & terminal (i10) No. 30 — (i48) No. 14:	Is the resistance less than 1 Ω ?	Go to step 2.	Repair the open circuit of the harness between auto A/C control module and combination meter.
2	CHECK AMBIENT SENSOR CIRCUIT. Check the ambient sensor circuit. <ref. 9,="" cator,="" check="" combination="" idi-="" indi-="" inspection,="" meter="" outside="" system.="" temperature="" to=""></ref.>	Is the ambient sensor circuit normal?	Go to step 3.	Repair the ambient sensor circuit.
3	CHECK POOR CONTACT. Check poor contact of auto A/C control module connector.	Is there poor contact in the connector?	Repair the con- nector.	Replace the auto A/C control module.

B: IN-VEHICLE SENSOR

TROUBLE SYMPTOM:

- Blower fan speed, outlet port and inlet port do not change after turning the AUTO switch ON
- Failure related to the in-vehicle sensor is indicated in self-diagnosis.

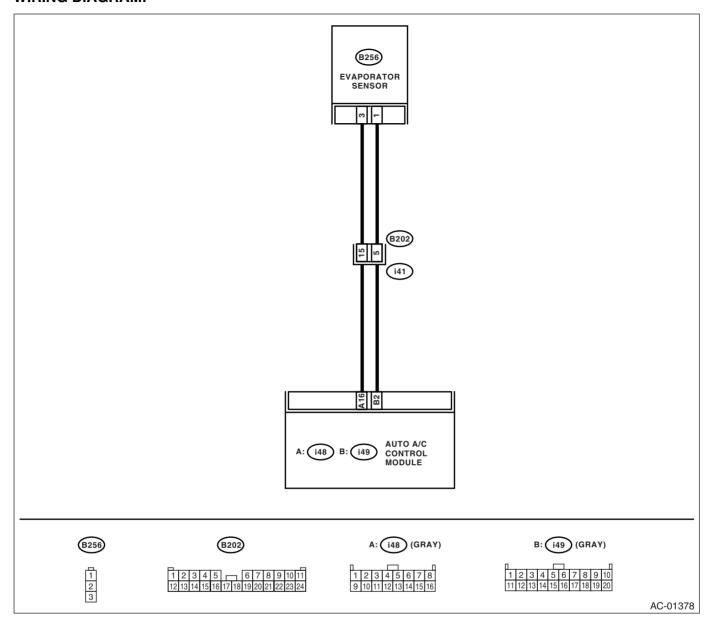


Step	Check	Yes	No
 CHECK IN-VEHICLE SENSOR. Turn the ignition switch to OFF. Remove the driver side lower cover. Disconnect the connector from in-vehicle sensor. Measure the resistance between connector terminals of in-vehicle sensor. Terminals No. 1 — No. 2: 	Is the resistance approximately 2.7 k Ω at 20°C (68°F)?	Go to step 2.	Replace the invehicle sensor.

	Step	Check	Yes	No
2	CHECK INPUT SIGNAL FOR IN-VEHICLE SENSOR. 1) Turn the ignition switch to ON. 2) Measure the voltage between in-vehicle sensor harness connector terminal and chassis ground. Connector & terminal (i55) No. 2 (+) — Chassis ground (-):	Is the voltage approx. 5 V?	Go to step 5.	Go to step 3.
3	CHECK AUTO A/C CONTROL MODULE OUTPUT SIGNAL. 1) Turn the ignition switch to OFF. 2) Pull out the auto A/C control module. 3) Turn the ignition switch to ON. 4) Measure the voltage between connector terminals of auto A/C control module. Connector & terminal (i49) No. 12 (+) — (i48) No. 16 (-):	Is the voltage approx. 5 V?	Go to step 4.	Go to step 6.
4	CHECK HARNESS BETWEEN AUTO A/C CONTROL MODULE AND IN-VEHICLE SEN- SOR. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from the auto A/ C control module. 3) Measure the resistance of harness between auto A/C control module and in-vehicle sensor. Connector & terminal (i55) No. 2 — (i49) No. 12:	Is the resistance less than 1 Ω ?	Go to step 5.	Repair the open circuit of the harness between auto A/C control module and in-vehicle sensor.
5	CHECK HARNESS BETWEEN AUTO A/C CONTROL MODULE AND IN-VEHICLE SEN- SOR. Measure the resistance of harness between auto A/C control module and in-vehicle sensor. Connector & terminal (i55) No. 1 — (i48) No. 16:	Is the resistance less than 1 Ω ?	Go to step 6.	Repair the open circuit of the harness between auto A/C control module and in-vehicle sensor.
6	CHECK POOR CONTACT. Check poor contact of auto A/C control module connector.	Is there poor contact in the connector?	Repair the con- nector.	Replace the auto A/C control module.

C: EVAPORATOR SENSOR

WIRING DIAGRAM:



Step	Check	Yes	No
 CHECK EVAPORATOR SENSOR Turn the ignition switch to OFF. Remove the glove box. Disconnect the connector from evaporator sensor. Measure the resistance between connector terminals of the evaporator sensor. Terminals 	Is the resistance approximately 2.7 kΩ at 20°C (68°F)?	Go to step 2.	Replace the evaporator sensor.

	Step	Check	Yes	No
2	CHECK INPUT SIGNAL FOR EVAPORATOR SENSOR. 1) Turn the ignition switch to ON. 2) Measure the voltage between evaporator sensor harness connector terminal and chassis ground. Connector & terminal (B256) No. 1 (+) — Chassis ground (-):	Is the voltage approx. 5 V?	Go to step 5.	Go to step 3.
3	CHECK AUTO A/C CONTROL MODULE OUTPUT SIGNAL. 1) Turn the ignition switch to OFF. 2) Pull out the auto A/C control module. 3) Turn the ignition switch to ON. 4) Measure the voltage between connector terminals of auto A/C control module. Connector & terminal (i49) No. 2 (+) — (i48) No. 16 (-):	Is the voltage approx. 5 V?	Go to step 4.	Go to step 6.
4	CHECK HARNESS CONNECTOR BETWEEN AUTO A/C CONTROL MODULE AND EVAPORATOR SENSOR. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from the auto A/C control module. 3) Measure the resistance of harness between auto A/C control module and evaporator sensor. Connector & terminal (B256) No. 1 — (i49) No. 2:		Go to step 5.	Repair the open circuit of harness between auto A/C control module and evaporator sensor.
5		Is the resistance less than 1 Ω ?	Go to step 6.	Repair the open circuit of harness between auto A/C control module and evaporator sensor.
6	CHECK POOR CONTACT. Check poor contact of auto A/C control module connector.	Is there poor contact in the connector?	Repair the connector.	Replace the auto A/C control module.

D: SUNLOAD SENSOR

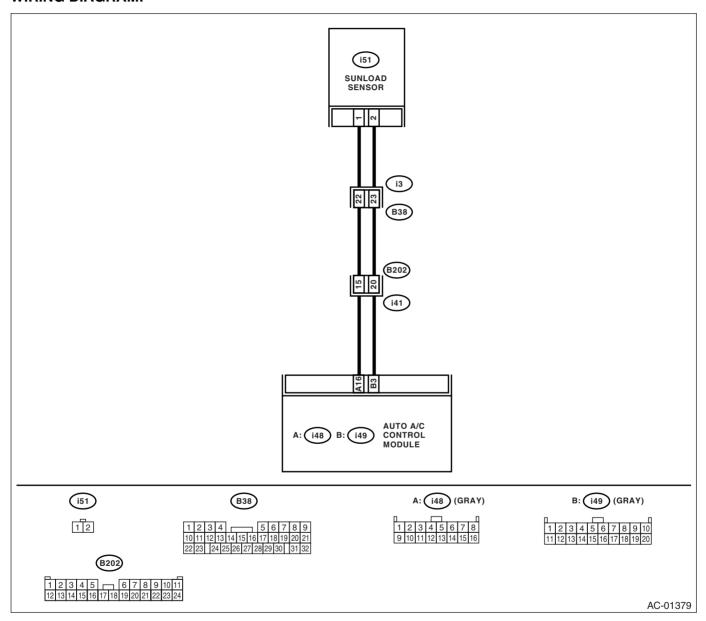
TROUBLE SYMPTOM:

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

NOTE:

When the sunload sensor is checked indoors or in the shade, an open circuit might be indicated. Always check the sunload sensor at a location exposed to direct sunlight.

WIRING DIAGRAM:



	Step	Check	Yes	No
1	CHECK INPUT VOLTAGE TO SUNLOAD SENSOR. 1) Turn the ignition switch to ON. 2) Measure the input voltage to sunload sen-	Is the voltage approx. 5 V?	Go to step 3.	Go to step 2.
	sor. Connector & terminal (i51) No. 2 (+) — Chassis ground (-):			

	Step	Check	Yes	No
2	CHECK HARNESS CONNECTOR BETWEEN AUTO A/C CONTROL MODULE AND SUNLOAD SENSOR. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from the auto A/C control module. 3) Measure the resistance of the harness between the auto A/C control module and sunload sensor. Connector & terminal (i51) No. 2 — (i49) No. 3:	Is the resistance less than 1 Ω ?	Go to step 5.	Repair the harness between auto A/C control module and sunload sensor.
3		Is the resistance less than 1 Ω ?	Go to step 4.	Repair the harness between auto A/C control module and sunload sensor.
4	CHECK INPUT VOLTAGE FOR AUTO A/C CONTROL MODULE. 1) Connect the auto A/C control module connector. 2) Turn the ignition switch to ON. 3) Measure the voltage between connector terminals of auto A/C control module. Connector & terminal (i49) No. 3 (+) — (i48) No. 16 (-):	Is the voltage approx. 2.5 V?	Go to step 5.	Replace the sun- load sensor.
5	CHECK POOR CONTACT.	Is there poor contact of the connector?	Repair the connector.	Replace the auto A/C control mod- ule.