2. General Description

A: CAUTION

- 1) Never connect the battery in reverse polarity.
- Auto A/C control module may be destroyed instantly.
- 2) Do not disconnect the battery terminals while the engine is running.
- A large counter electromotive force will be generated in the generator, and this voltage may damage electronic parts such as auto A/C control module, etc.
- 3) Before disconnecting the connectors of each sensor and the auto A/C control module, be sure to turn off the ignition switch.
- Auto A/C control module may be damaged.
- 4) Every A/C-related part is a precision part. Do not drop them.
- 5) Airbag system wiring harness is routed near the A/C control panel and junction box.

CAUTION:

- For airbag system, yellow-colored wiring harness and connectors are all used. Do not use the electrical test equipment on these circuits.
- Be careful not to damage the airbag system wiring harness when servicing the A/C control panel and junction box.

B: INSPECTION

Before performing the diagnosis, check the following items which might affect A/C system problems.

1. BATTERY

1) Measure the battery voltage and specific gravity of electrolyte.

Standard voltage: 12 V

Specific gravity: More than 1.260

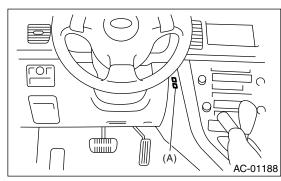
- 2) Check the condition of the fuses for A/C system power supply and other fuses.
- 3) Check the condition of harness and harness connector connections.

2. ASPIRATOR HOSE

- 1) Turn the ignition switch to ON, and press the A/C switch.
- 2) Turn the temperature control dial at maximum hot position.
- 3) Turn the air flow control dial to "DEF" position.
- 4) Turn the fan speed control dial to 4th position.
- 5) Approach a strip of paper in front of the in-vehicle sensor suction port (A) located in the driver's side console side panel, and check that air is being sucked into the port by seeing the paper moving towards the port.

NOTE:

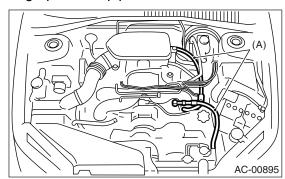
Be careful not to let the paper get sucked into the port.



6) If the paper does not move at all, remove the driver's side console side panel <Ref. to EI-54, RE-MOVAL, Center Console.> and check for improper connection of the aspirator hose, in-vehicle sensor and heater unit, and repair them if necessary.

3. A/C LINE

Check the connection for A/C line (A) and lower side high-pressure pipe.



4. CONTROL LINKAGE

- 1) Check the state of mode door linkage.
- 2) Check the state of air mix door linkage.
- 3) Check the state of intake door linkage.

5. CONTROL SWITCHES

Start and warm-up the engine completely.

1) Inspection using switches

No.	Point to check	Switch operation	Judgment standard
1	OFF switch	Press the OFF switch.	Setting temperature display goes out. Blower fan: OFF Inlet opening: External air Compressor: OFF
2	AUTO switch, Driver's side temperature control dial and passenger's side temperature control dial	1) Press the AUTO switch. 2) Turn the temperature control dial to the left fully, and set to 18°C (64°F) (maximum cool position).	AUTO display illuminates. Outlet air temperature: COOL Blower fan: HI (AUTO) Outlet opening: FACE Inlet opening: AUTO Compressor: AUTO
		3) Turn the temperature control dial to the right slowly, and change the setting from 18°C (64°F) (maximum cool position) to 32°C (90°F).	 Outlet air temperature: COOL → HOT Blower fan: AUTO Outlet opening: FACE → B/L → FOOT Inlet opening: AUTO Compressor: AUTO
		4) Turn the temperature control dial to the right fully, and set to 32°C (90°F) (maximum hot position).	 Outlet air temperature: HOT Blower fan: HI (AUTO) Outlet opening: FOOT Inlet opening: Ambient (AUTO) Compressor: AUTO
3	Defroster switch	Press the defroster switch.	Defroster switch indicator illuminates. Outlet air temperature: AUTO Blower fan: AUTO Outlet opening: DEF Inlet opening: External air Compressor: ON
4	FRESH/RECIRC switch	Press the FRESH/RECIRC switch.	Inlet opening switches RECIRC \rightarrow FRESH or FRESH \rightarrow RECIRC each time pressing the switch.
5	MODE switch	Press the MODE switch.	Outlet opening switches FACE \rightarrow B/L \rightarrow FOOT \rightarrow F/D each time pressing the switch.
6	FAN switch	Press the FAN (+) switch.	Inlet opening switches LO \rightarrow M1 \rightarrow M2 \rightarrow M3 \rightarrow M4 \rightarrow HI each time pressing the switch.

2) Compressor operation inspection

No.	Point to check	Switch operation	Judgment standard
1	Compressor	 Turn the A/C switch to ON. Set the FAN switch between LO and HI. 	Compressor: ON

3) Inspection of illumination control

No.	Point to check	Switch operation	Judgment standard
1	Illumination	Turn the lighting switch to ON.	Illumination comes on.