2. General Description

A: CAUTION

- 1) Never connect the battery in reverse polarity.
- Doing so may immediately damage the auto A/C control module.
- 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 sensors and the auto A/C control module, be sure to turn off the ignition switch.
- Otherwise, the auto A/C control module may be damaged.
- 4) Every A/C-related part is a precision part. Do not drop them.
- 5) The airbag system wiring harness is routed near the A/C control panel (auto A/C control module) and junction box.

CAUTION:

- The airbag system wiring harnesses and connectors are all yellow in color. Do not use electrical test equipment on these circuits.
- Be careful not to damage the airbag system wiring harness when servicing the A/C control panel (auto A/C control module) and junction box.

B: INSPECTION

Before performing the diagnosis, check the following items which may cause problems in the A/C system.

1. BATTERY

1) Measure the battery voltage and check electrolyte.

Standard voltage:

12 V

Specific gravity:

1.260 or more

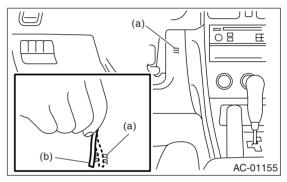
- 2) Check the condition of the fuses for A/C system power supply and other fuses.
- 3) Check the condition of harness and harness connector connections.

2. ASPIRATOR HOSE

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

NOTE:

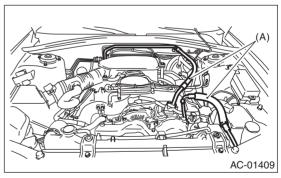
- Be careful not to let the paper get sucked into the port.
- Hold the paper approx. 5 mm (0.02 in) away from port when the suction force is not very strong.



6) If the paper does not move at all, remove the lower cover <Ref. to AC-29, REMOVAL, Control Unit.> and check for improper connection of the aspirator hose, lower cover, and heater unit, and fix them if necessary.

3. REFRIGERANT LINE

Check the connection for A/C line (A) and 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 RESH/RECIRC door linkage.

5. CONTROL SWITCHES

Start the engine and warm-up completely.

1) Inspection using switches

No.	Point to check	Switch operation	Judgment standard
1	Air flow control dial	Turn the dial to the right.	Outlet opening switches in order to AUTO \rightarrow VENT \rightarrow BILEVEL \rightarrow HEAT \rightarrow DEF/HEAT \rightarrow DEF each time the dial is turned.
2	Fan speed control dial	Turn the dial to the right.	Fan speeds switch OFF \rightarrow AUTO \rightarrow 1st \rightarrow 2nd \rightarrow 3rd \rightarrow 4th \rightarrow 5th \rightarrow 6th \rightarrow 7th each time the dial is turned.
3	FRESH/RECIRC switch	Press the FRESH/RECIRC switch.	Inlet opening switches RECIRC \rightarrow FRESH \rightarrow RECIRC each time the switch is pressed. (The LED lights for RECIRC.)
		Press the FRESH/RECIRC switch for a longer period of time. (1 second or more)	The LED blinks twice and the system switches to AUTO.
4	A/C switch	Turn the A/C switch to ON with the fan speed control dial is set to other than OFF position.	The LED lights and the compressor operates.
4		Press the FRESH/RECIRC switch for a longer period of time. (1 second or more)	The LED blinks twice and the system switches to AUTO.
	Auto function Operate in order from 1).	 Set the following dial and switch to AUTO. Air flow control dial Fan speed control dial FRESH/RECIRC switch A/C switch Turn the temperature control dial completely to the left, and set to the maximum cool position. 	 Outlet air temperature: COOL Fan speed: Max. Outlet opening: VENT Inlet opening: RECIRC Compressor: AUTO
5		3) Turn the temperature control dial to the right slowly up to the maximum warm position.	 Outlet air temperature: COOL → HOT Fan speed: AUTO Outlet opening: AUTO Inlet opening: AUTO Compressor: AUTO
		4) Turn the temperature control dial fully to the right, to the maximum hot position.	 Outlet air temperature: HOT Fan speed: Max. Outlet opening: HEAT Inlet opening: FRESH Compressor: AUTO
			Outlet opening: AUTO Fan speed: AUTO
6	Defroster Interlock Function Rear defogger switch	Set the air flow control dial to the DEF or the DEF/HEAT position. Press the rear defogger switch.	Outlet opening: DEF or DEF/HEAT Inlet opening: FRESH Compressor: ON Does the LED light?

2) Inspection of illumination control

Ī	No.	Point to check	Switch operation	Judgment standard
	1	Illumination	Turn the lighting switch ON.	Illumination comes on. If the LED lights, the LED will dim.