

2. General Description

A: CAUTION

- 1) Never connect the battery in reverse polarity.
 - Doing so may immediately damage the 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 A/C control module etc.
- 3) Before disconnecting the connectors of sensors and the A/C control module, be sure to turn off the ignition switch.
 - 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:

- **Do not use electrical test devices on airbag system wiring harnesses or connectors.**
- **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 may cause problems in the A/C system.

1. BATTERY

- 1) Measure the battery voltage and specific gravity of the 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, and press the A/C switch.
- 2) Turn the temperature control switch to maximum hot position.
- 3) Set the blow vents to the DEF position.
- 4) Set the FAN switch to the MAX position.

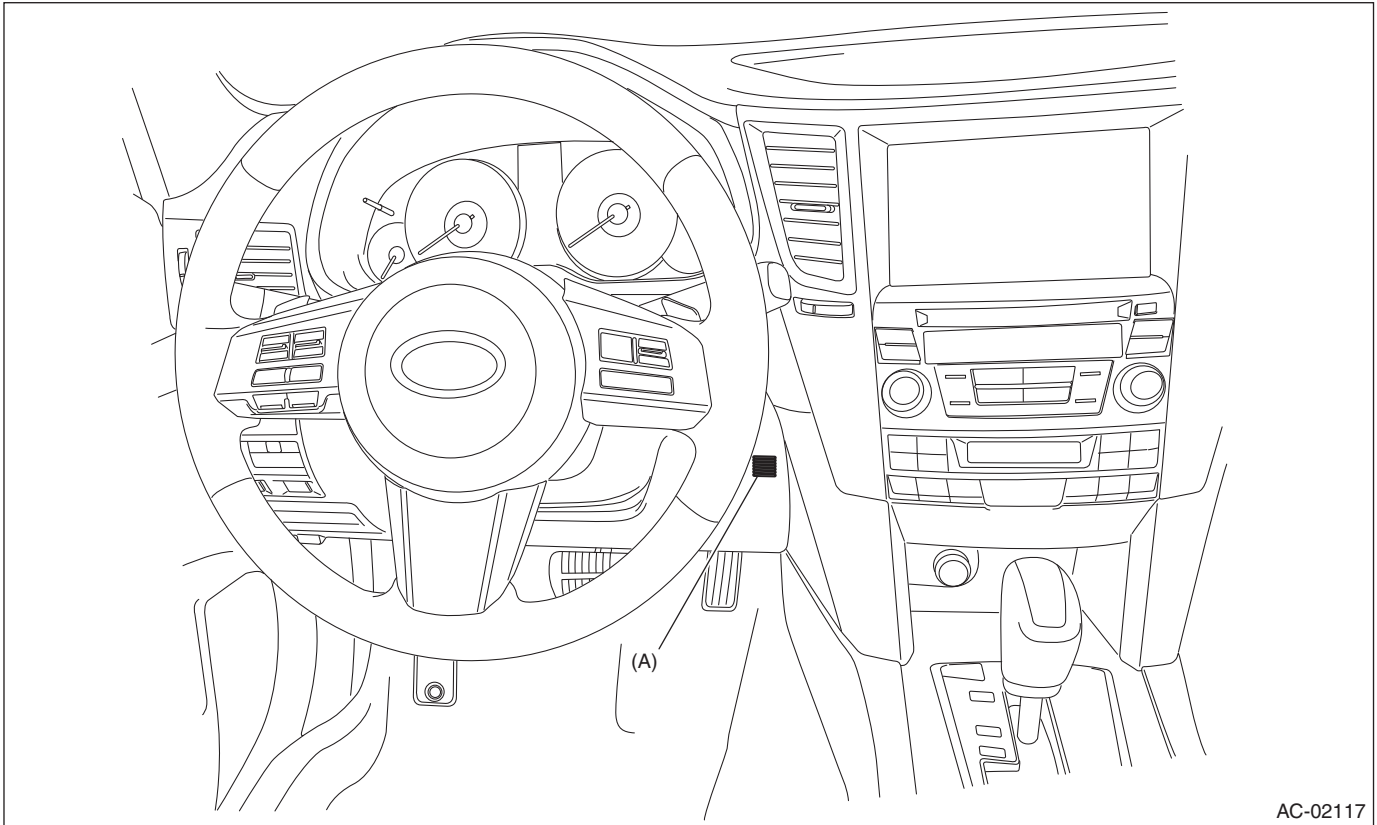
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5) Put a strip of paper close to the front side of in-vehicle sensor suction port (A) located in the instrument panel lower cover, and check that air is being sucked into the port by seeing the paper moving towards the port.

NOTE:

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

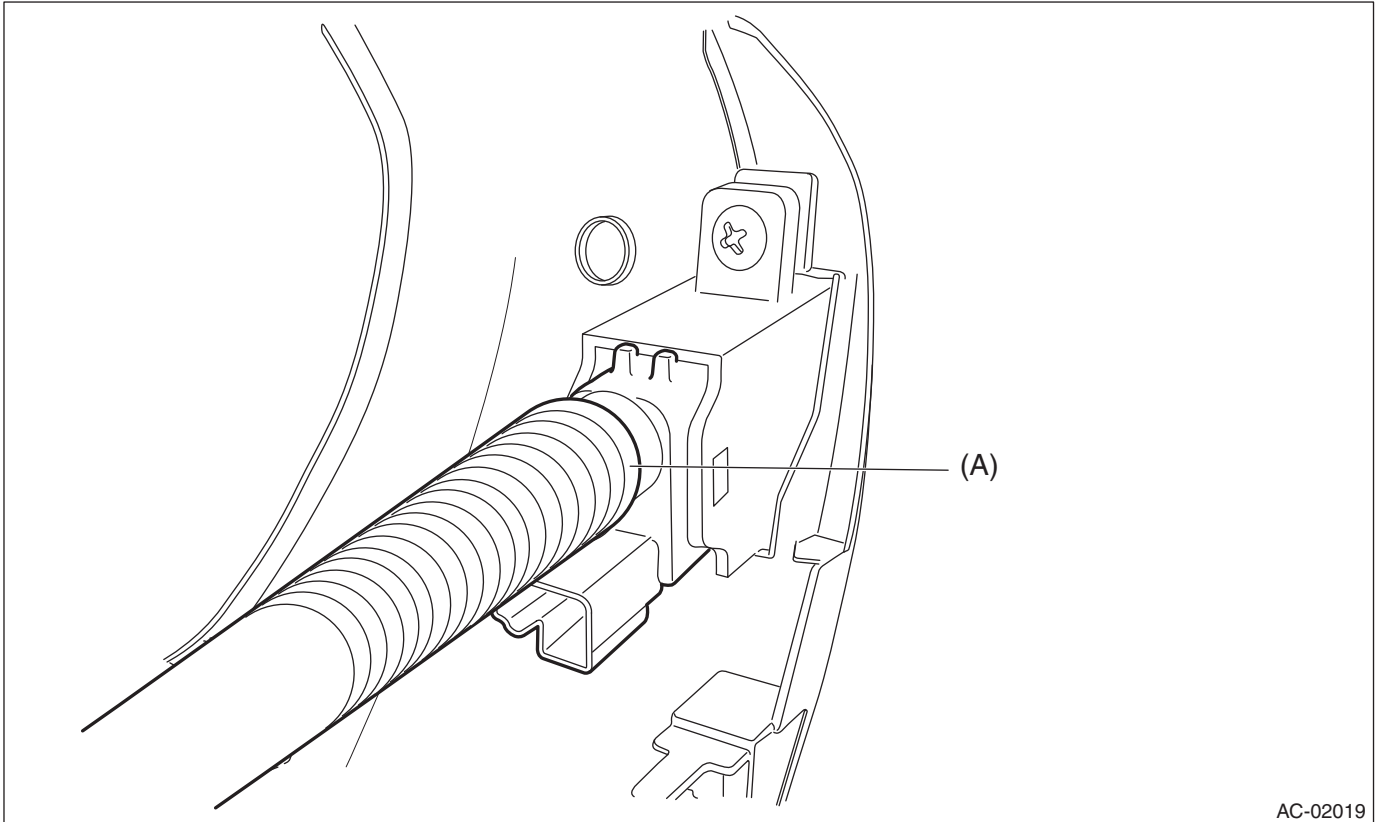


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6) If the paper does not move at all, remove the instrument panel lower cover <Ref. to EI-63, REMOVAL, Instrument Panel Lower Cover.> and check for poor connection of the aspirator hose (A), in-vehicle sensor and heater unit, and repair them if necessary.



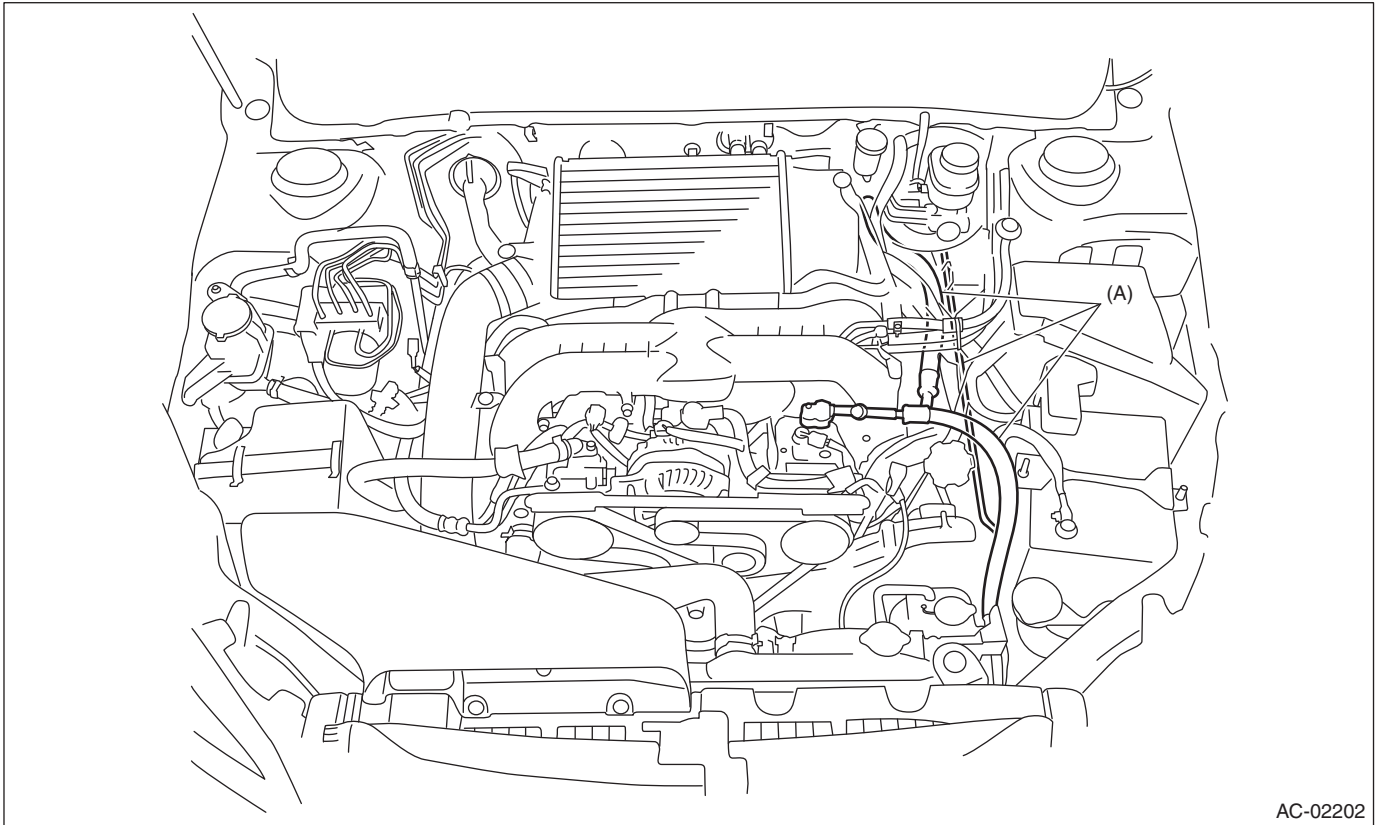
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3. A/C LINE

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



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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 FRESH/RECIRC door linkage.

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5. CONTROL SWITCHES

Start the engine and warm up 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. <ul style="list-style-type: none"> Blower fan: OFF Inlet opening: FRESH Compressor: OFF
2	AUTO switch, driver's side temperature control switch, and passenger's side temperature control switch	1) Press the AUTO switch. 2) Press the temperature control switch to set to LO (maximum cool position).	FULL AUTO display illuminates. <ul style="list-style-type: none"> Outlet air temperature: COOL Blower fan: HI (AUTO) Outlet opening: FACE Inlet opening: AUTO Compressor: AUTO
		3) Press the temperature control switch to change the setting from LO (maximum cool position) to HI.	<ul style="list-style-type: none"> Outlet air temperature: COOL → HOT Blower fan: AUTO Outlet opening: FACE → B/L → FOOT Inlet opening: AUTO Compressor: AUTO
		4) Press the temperature control switch to set to HI (maximum hot position).	<ul style="list-style-type: none"> Outlet air temperature: HOT Blower fan: HI (AUTO) Outlet opening: FOOT Inlet opening: FRESH (AUTO) Compressor: AUTO
3	Defroster switch	Press the defroster switch.	Defroster switch indicator illuminates. <ul style="list-style-type: none"> Outlet air temperature: AUTO Blower fan: AUTO Outlet opening: DEF Inlet opening: FRESH Compressor: ON
4	FRESH/RECIRC switch	Press the FRESH/RECIRC switch.	Inlet opening switches RECIRC → FRESH or FRESH → RECIRC each time pressing the switch.
5	MODE switch	Press the MODE switch.	Outlet opening switches FACE → B/L → FOOT → F/D each time pressing the switch.
6	FAN switch	Press the FAN (+) switch.	Blower fan switches LO → M1 → M2 → M3 → M4 → HI each time pressing the switch.

2) Inspection of compressor operation

No.	Point to check	Switch operation	Judgment standard
1	Compressor	1) Turn the A/C switch to ON. 2) Set the FAN switch between LO and HI.	Compressor: ON

3) Inspection of illumination control

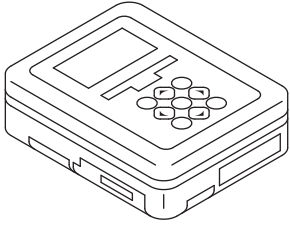
No.	Point to check	Switch operation	Judgment standard
1	Illumination	Turn the lighting switch to ON.	Illumination comes on.

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C: PREPARATION TOOL

1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST1B022XU0	1B022XU0	SUBARU SELECT MONITOR III KIT	Used for troubleshooting the electrical system.

2. GENERAL TOOL

TOOL NAME	REMARKS
Circuit tester	Used for measuring resistance, voltage and current.