

Heater and Cooling Unit

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

17.Heater and Cooling Unit

A: REMOVAL

1) Disconnect the ground cable from battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

NOTE:

For the 12 volt engine restart battery of HEV model, disconnect the ground terminal from 12V engine restart battery sensor.

2) Using the refrigerant recovery system, discharge refrigerant. <Ref. to AC-28, PROCEDURE, Refrigerant Recovery Procedure.>

3) Drain the coolant from the radiator. <Ref. to CO(H4DO(w/o HEV))-16, DRAINING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>

4) Remove the intake boot. (Gasoline engine model) <Ref. to IN(H4DO(w/o HEV))-12, REMOVAL, Air Intake Boot.>

CAUTION:

Move aside the intake boot to perform the operation without disconnecting the PCV hose.

5) Remove the air cleaner case. (HEV model) <Ref. to IN(H4DO(HEV))-6, REMOVAL, Air Cleaner Case.>

6) Remove the clips and bolts, and remove the hose - pressure suction and the pipe - evaporator cooling from the expansion valve - cooling.

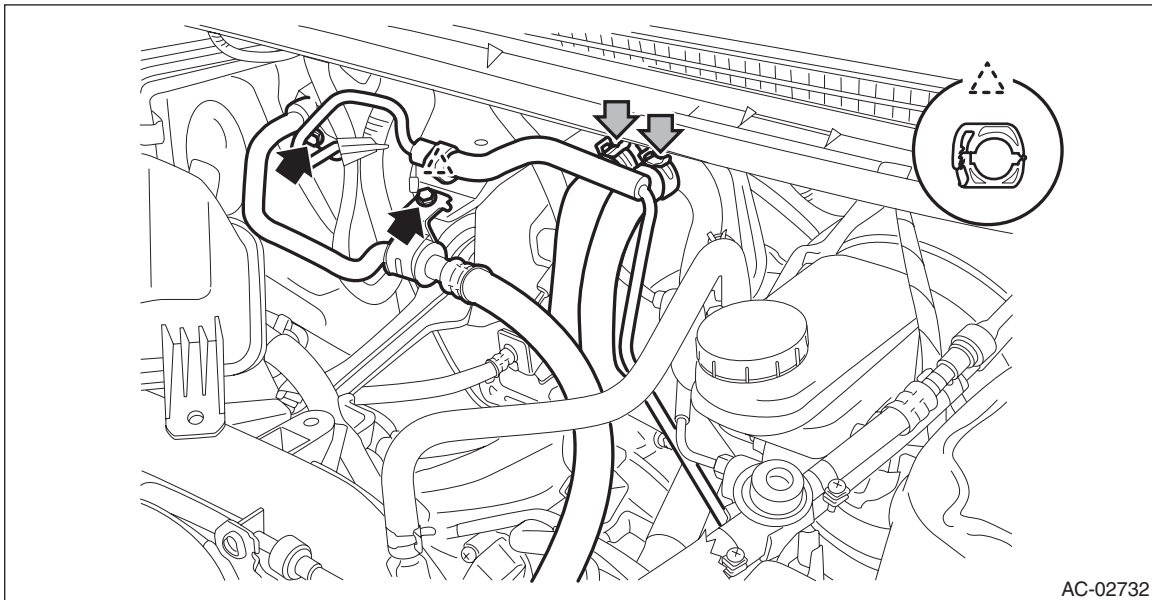
CAUTION:

Seal the disconnected hose and engaging part of expansion valve with a plug or vinyl tape to prevent foreign matter from entering.

7) Loosen the heater hose clamps and remove the hoses.

NOTE:

Put alignment marks to hoses, clamps, etc. and remove them.



8) Remove the instrument panel assembly. <Ref. to EI-83, REMOVAL, Instrument Panel Assembly.>

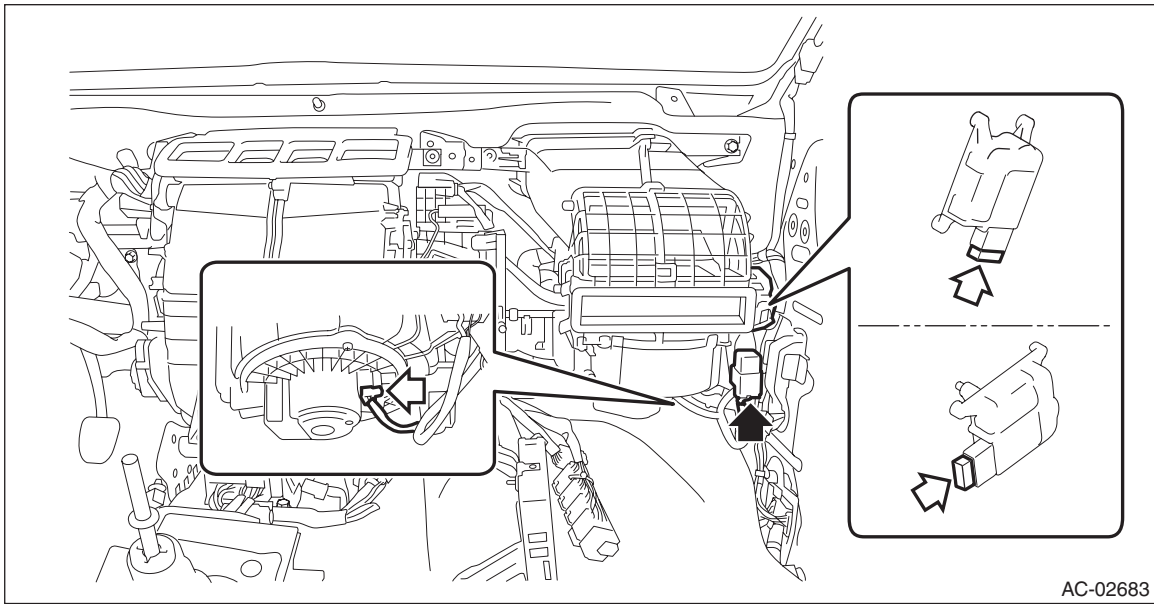
9) Remove the engine control module (ECM).

- Gasoline engine model: <Ref. to FU(H4DO(w/o HEV))-100, REMOVAL, Engine Control Module (ECM).>
- HEV model: <Ref. to FU(H4DO(HEV))-85, REMOVAL, Engine Control Module (ECM).>

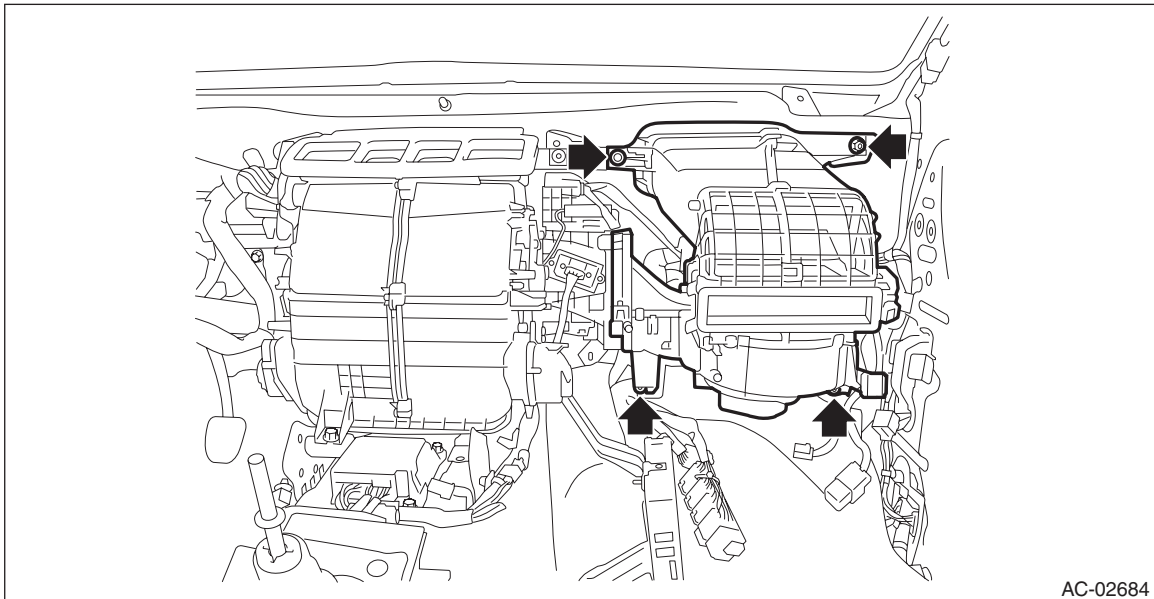
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- 10) Remove the blower motor unit assembly.
 - (1) Disconnect the blower motor relay and each connector.



- (2) Remove the bolts and nuts to remove blower motor unit assembly.



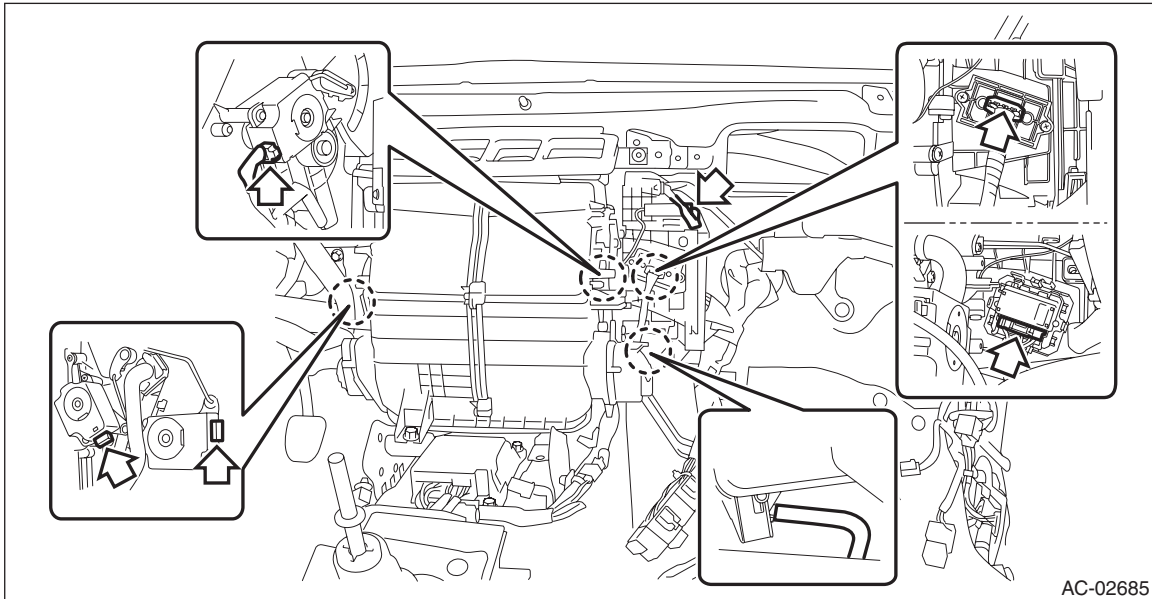
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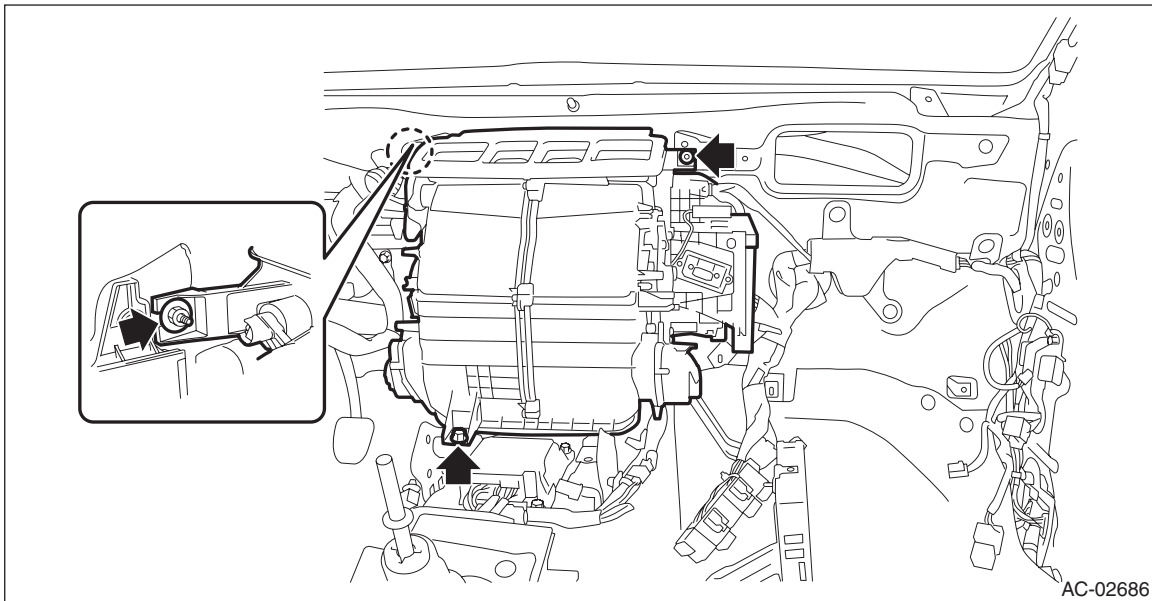
- 11) Remove the heater and cooling unit assembly.
(1) Disconnect each connector and the hose - drain.

NOTE:

For HEV model, disconnect the heater core sensor connector.



- (2) Remove the bolt and nuts, and remove the heater & cooling unit assembly.



B: INSTALLATION

CAUTION:

Replace the O-rings with new parts, and then apply compressor oil.

- 1) Install each part in the reverse order of removal.

Tightening torque:

Heater and cooling unit: <Ref. to AC-6, HEATER AND COOLING UNIT, COMPONENT, General Description.>

Blower motor unit: <Ref. to AC-10, BLOWER MOTOR UNIT, COMPONENT, General Description.>

Air conditioning unit: <Ref. to AC-12, AIR CONDITIONING UNIT, COMPONENT, General Description.>

- 2) Fill engine coolant. <Ref. to CO(H4DO(w/o HEV))-16, FILLING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>

- 3) Charge refrigerant. <Ref. to AC-30, PROCEDURE, Refrigerant Charging Procedure.>