

18. Evaporator

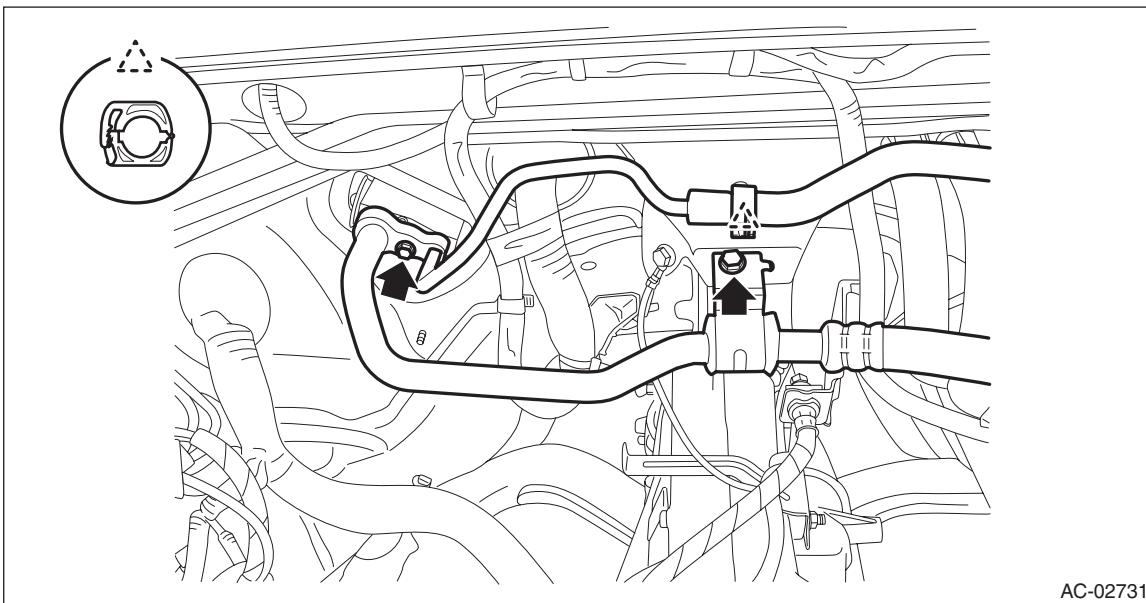
A: REMOVAL

- 1) Disconnect the ground cable from battery.
- 2) Using the refrigerant recovery system, discharge refrigerant. <Ref. to AC-26, PROCEDURE, Refrigerant Recovery Procedure.>
- 3) Remove the intake boot. <Ref. to IN(H4DO)-12, REMOVAL, Air Intake Boot.>

CAUTION:

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

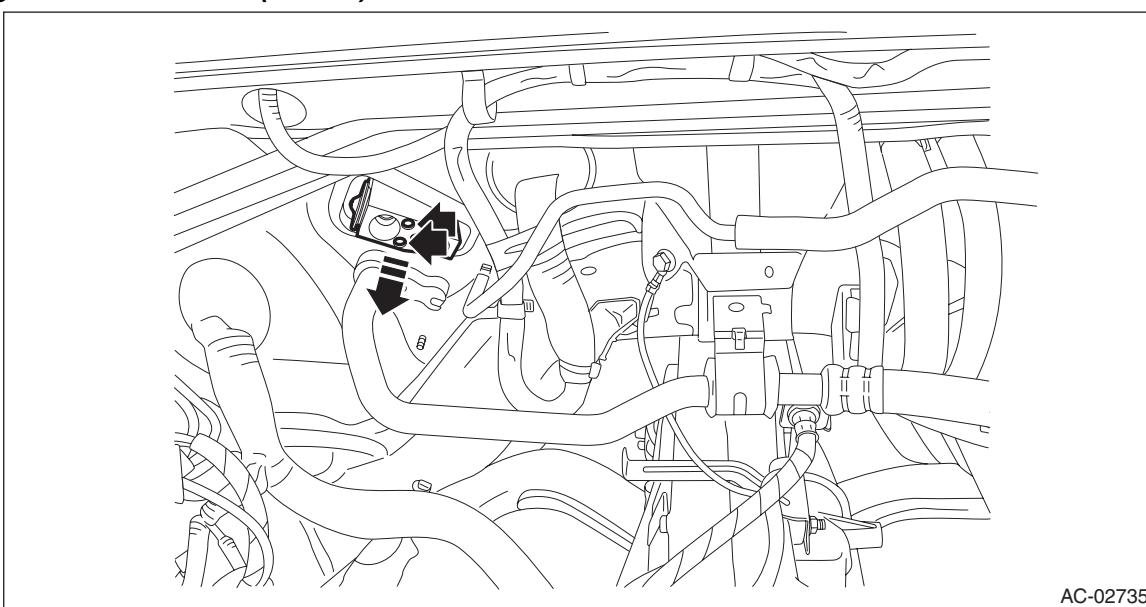
- 4) Remove the expansion valve - cooling.
 - (1) Remove the bolt, and detach the hose - pressure suction and the pipe - evaporator cooling.



- (2) Remove the bolt, and remove the expansion valve - cooling.

PREPARATION TOOL:

Hexagon wrench: 4 mm (0.16 in)



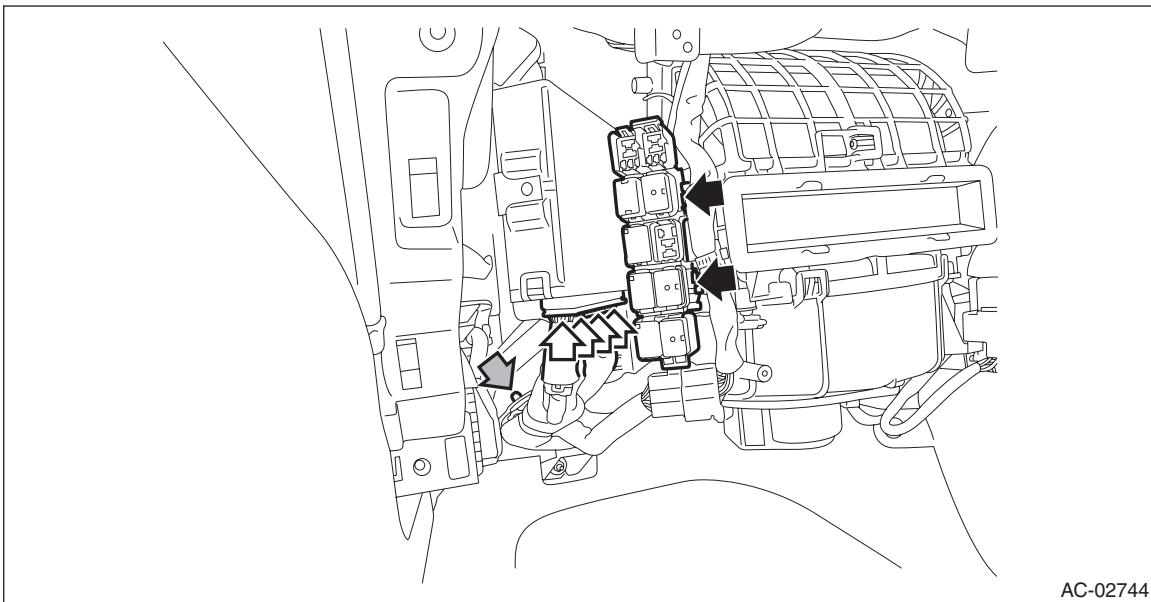
- 5) Remove the glove box. <Ref. to EI-63, REMOVAL, Glove Box.>

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HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

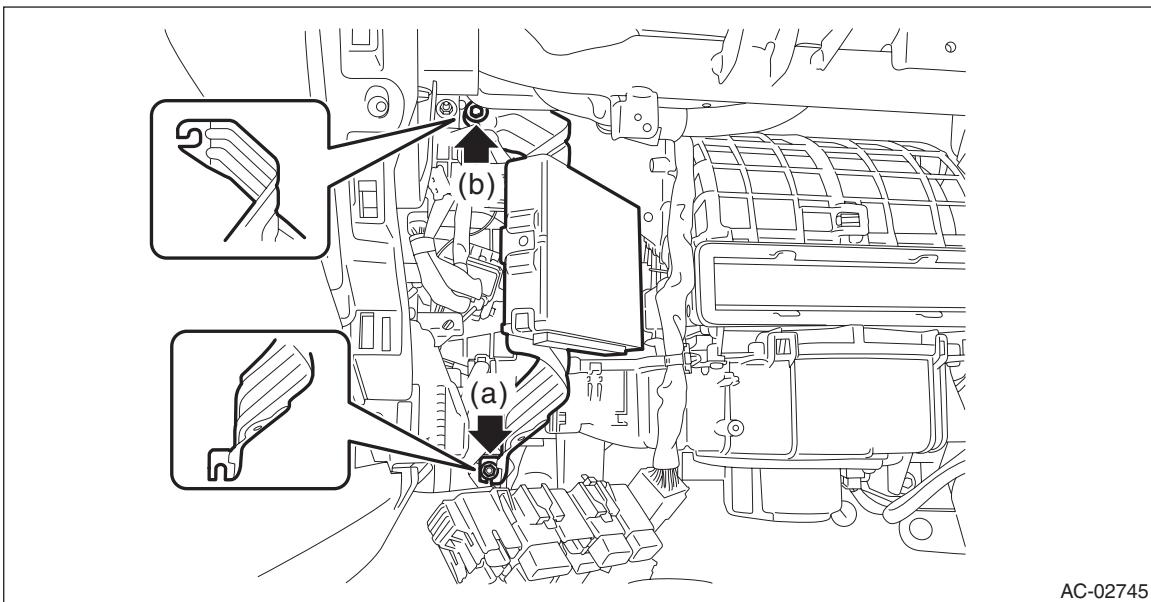
6) Remove the engine control module (ECM).

- (1) Release the lock and remove the relay holder.
- (2) Remove the harness clip, and disconnect the connector.



(3) Remove the nut (a).

(4) Loosen the bolt (b), and remove the engine control module (ECM).



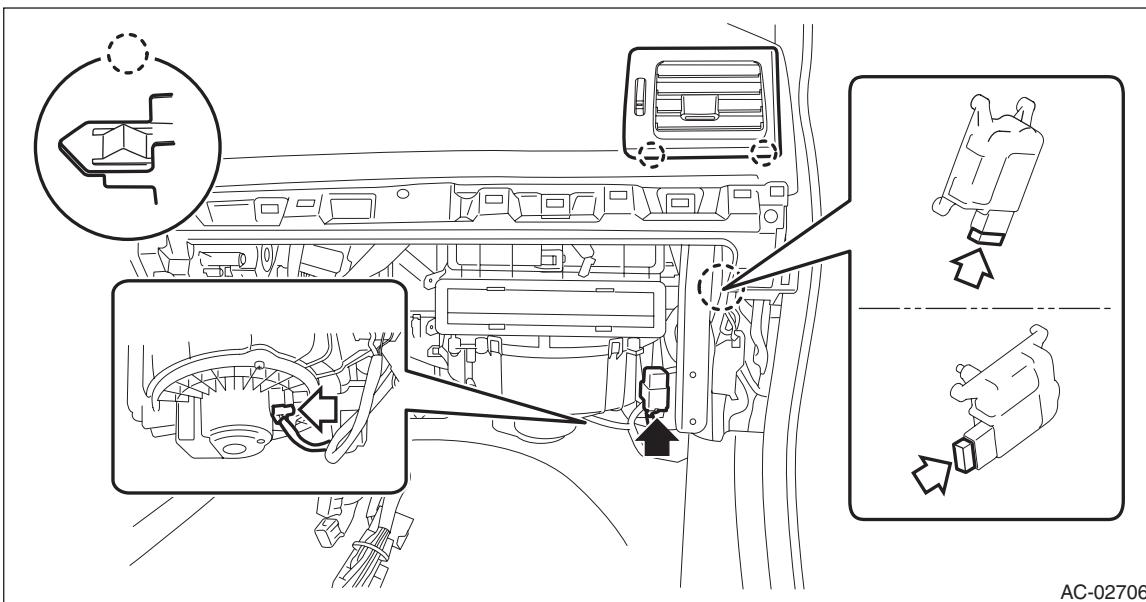
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HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

7) Remove the blower motor unit assembly.

(1) Release the claws, and then remove the grille assembly - ventilation RH.

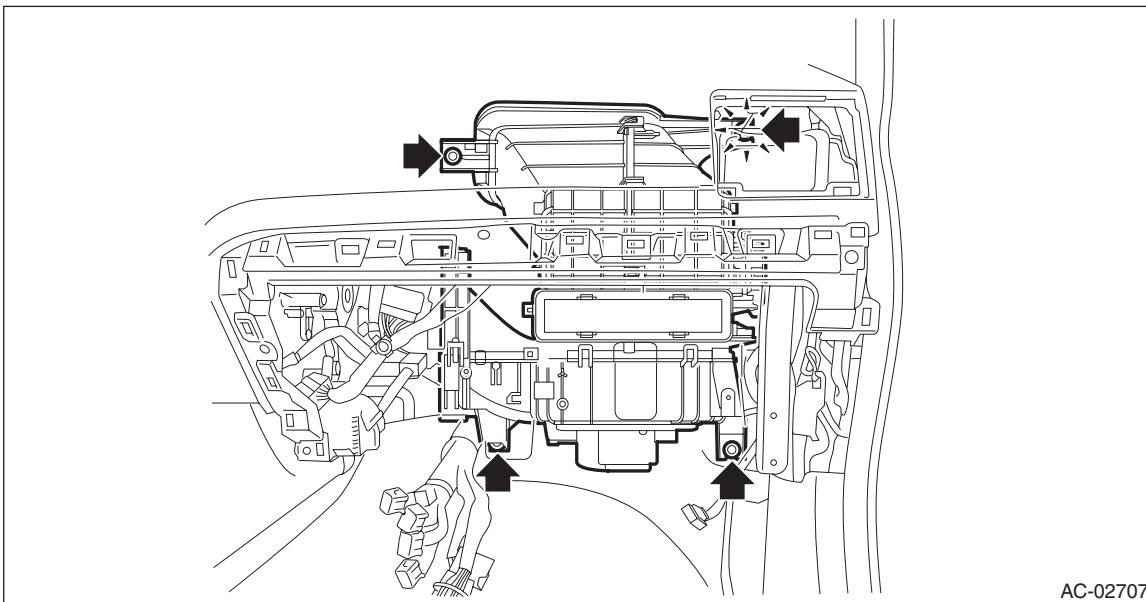
(2) Disconnect the blower motor relay and each connector.



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

NOTE:

Remove the RH upper nut from the mounting portion of the grille assembly - ventilation RH.



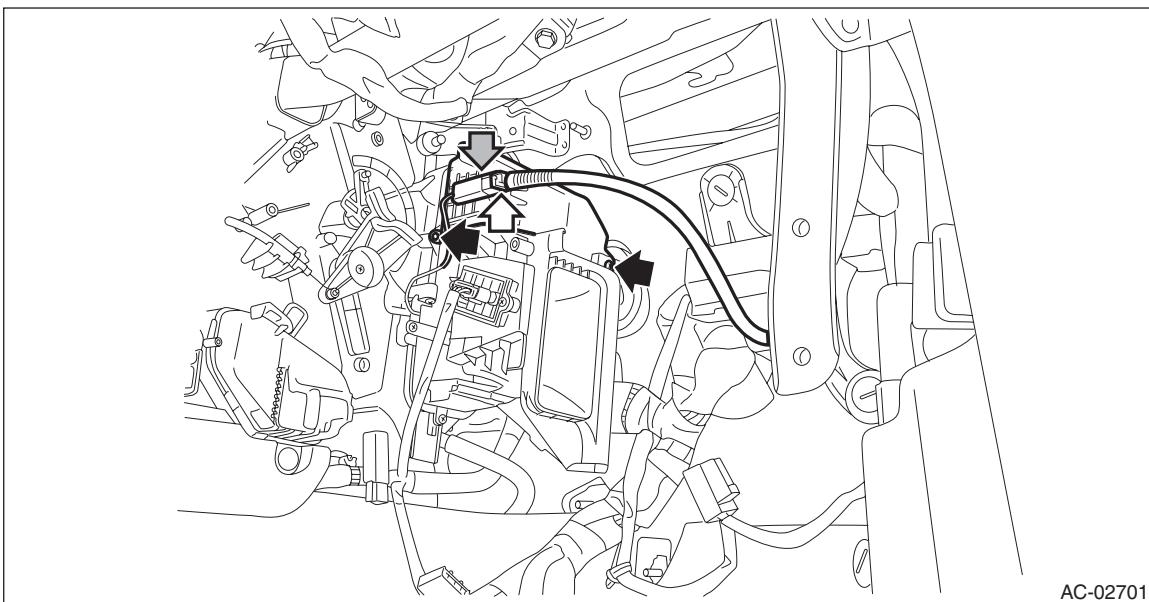
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8) Remove the evaporator assembly - cooling.

(1) Disconnect the connector and lock of the thermostat - cooling.

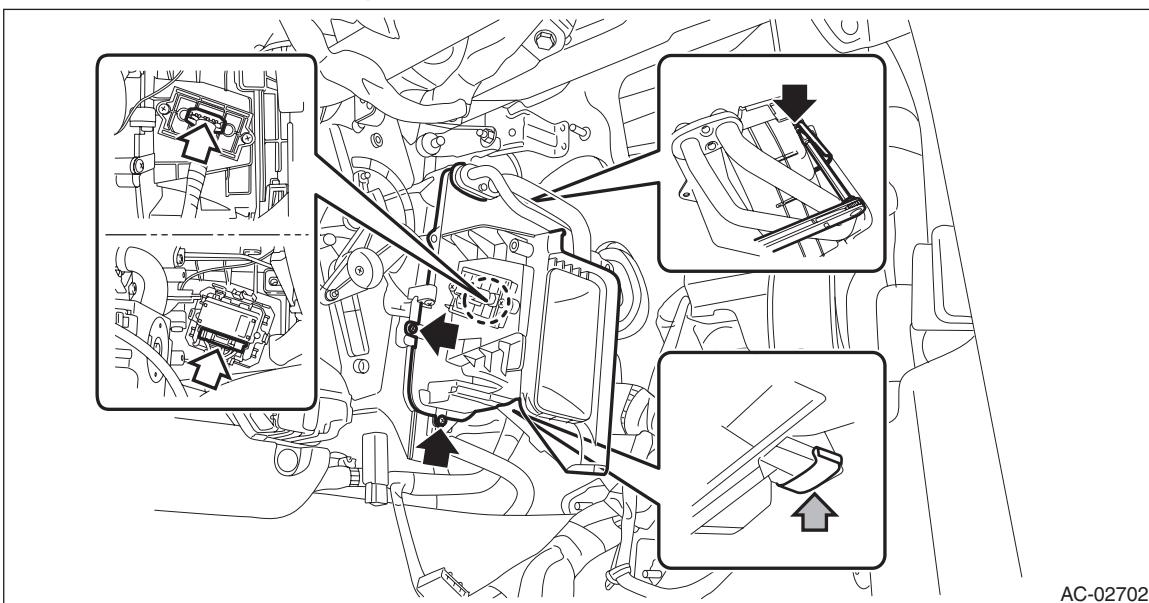
(2) Remove the screws and detach the cover.



(3) Remove the cover - heater unit.

a) Disconnect the connector for the power transistor or resistor.

b) Remove the screws and clips to remove the cover - heater unit.



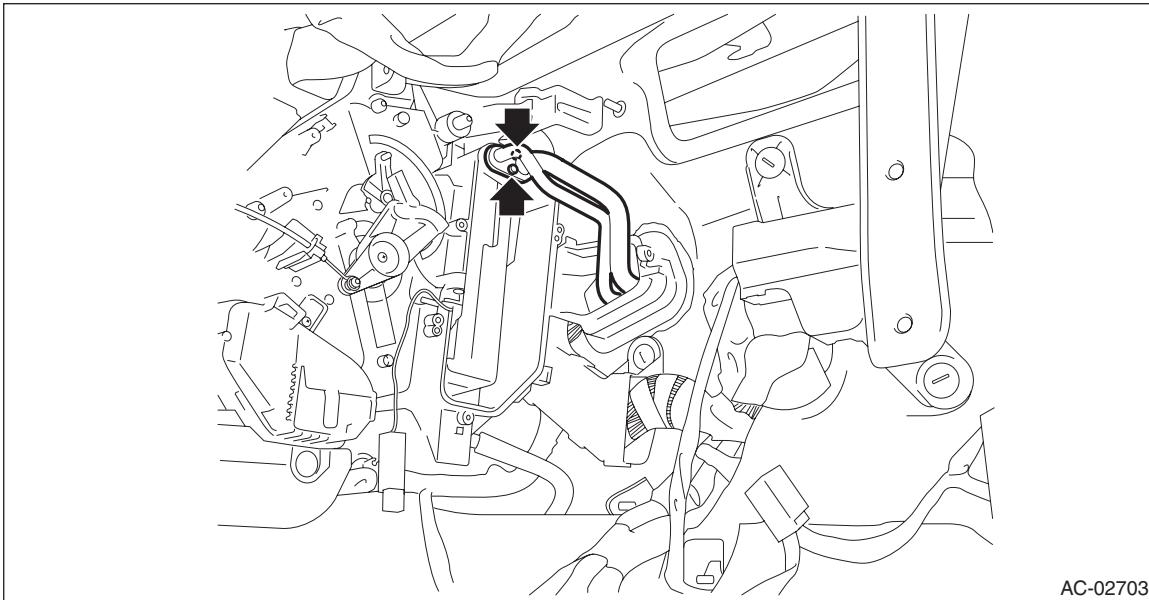
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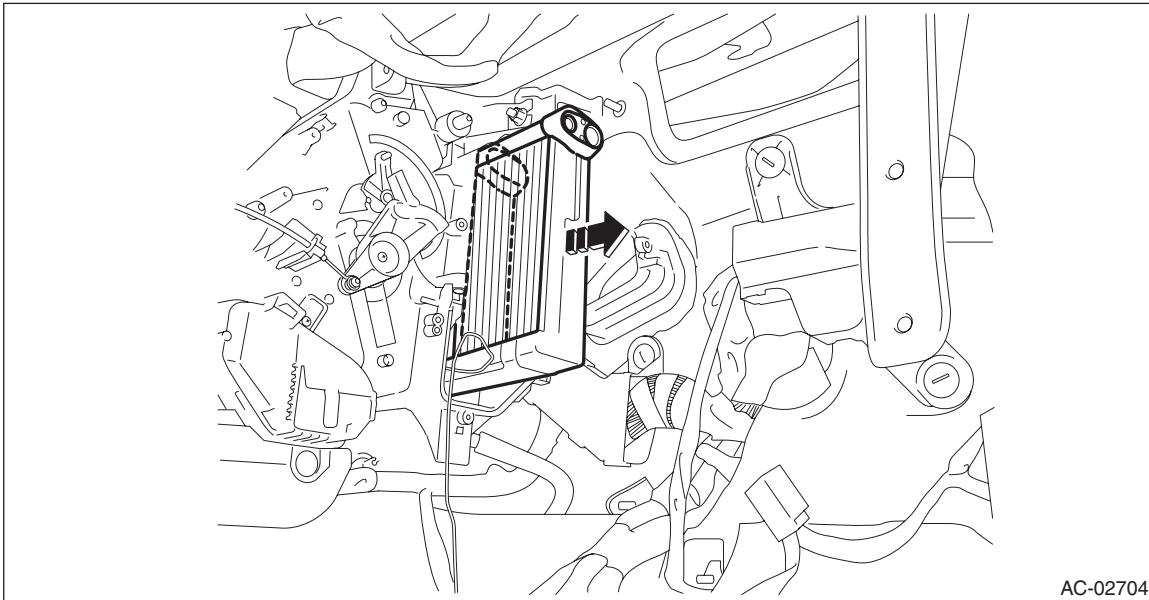
(4) Remove the bolt, and detach the pipe - evaporator core.

PREPARATION TOOL:

Hexagon wrench: 4 mm (0.16 in)



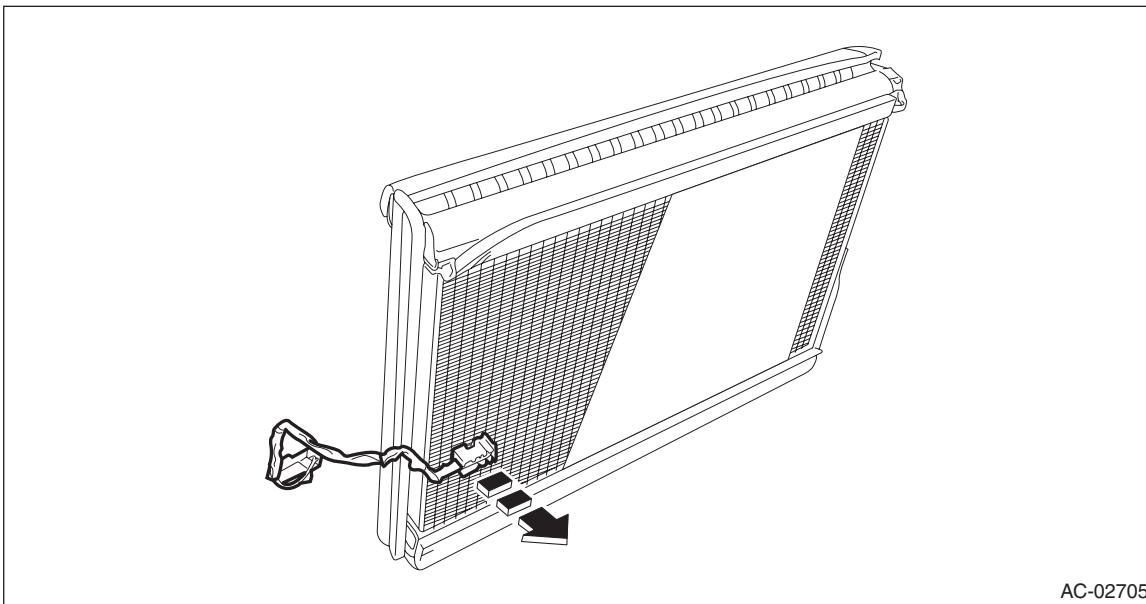
(5) Pull out the evaporator assembly - cooling from the case - heater unit.



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(6) Remove the thermostat - cooling from the evaporator assembly - cooling.



B: INSTALLATION

CAUTION:

- If the evaporator assembly - cooling has been replaced, add an appropriate amount of compressor oil to the evaporator assembly - cooling. <Ref. to AC-34, REPLACEMENT, Compressor Oil.>
- When the evaporator assembly - cooling has been replaced, replace the packing of the expansion valve - cooling with a new one, and then apply compressor oil.
- Make sure that the water seal packing on the cover attachment area is securely attached.
- Replace the O-rings with new parts, and then apply compressor oil.
- After installing the grille assembly - ventilation RH, check that the air vent grille of the grille assembly - ventilation RH is inserted correctly into the air vent duct.

1) Install the thermostat - cooling to the specified position. <Ref. to AC-82, INSTALLATION, Evaporator Sensor.>

2) Install each part in the reverse order of removal.

Tightening torque:

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

Engine control module (ECM): 7.5 N·m (0.76 kgf·m, 5.5 ft-lb)

3) Charge refrigerant. <Ref. to AC-27, PROCEDURE, Refrigerant Charging Procedure.>

C: INSPECTION

- 1) Check the evaporator fin for dust. Blow with compressed air or flush fins with water as needed.
- 2) If any oil leak is found, replace the evaporator assembly - cooling.