

18. Evaporator

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) 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.

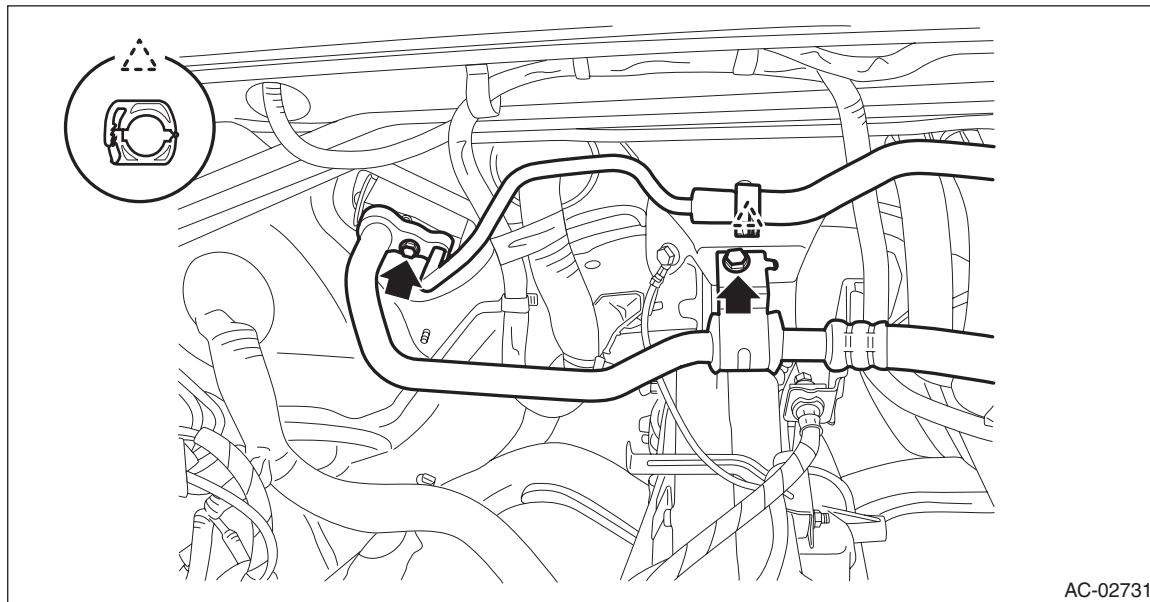
4) Remove the air cleaner case. (HEV model) <Ref. to IN(H4DO(HEV))-6, REMOVAL, Air Cleaner Case.>

5) Remove the expansion valve - cooling.

(1) Remove the clips and bolts, and detach the hose - pressure suction and the pipe - evaporator cooling.

CAUTION:

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



Evaporator

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

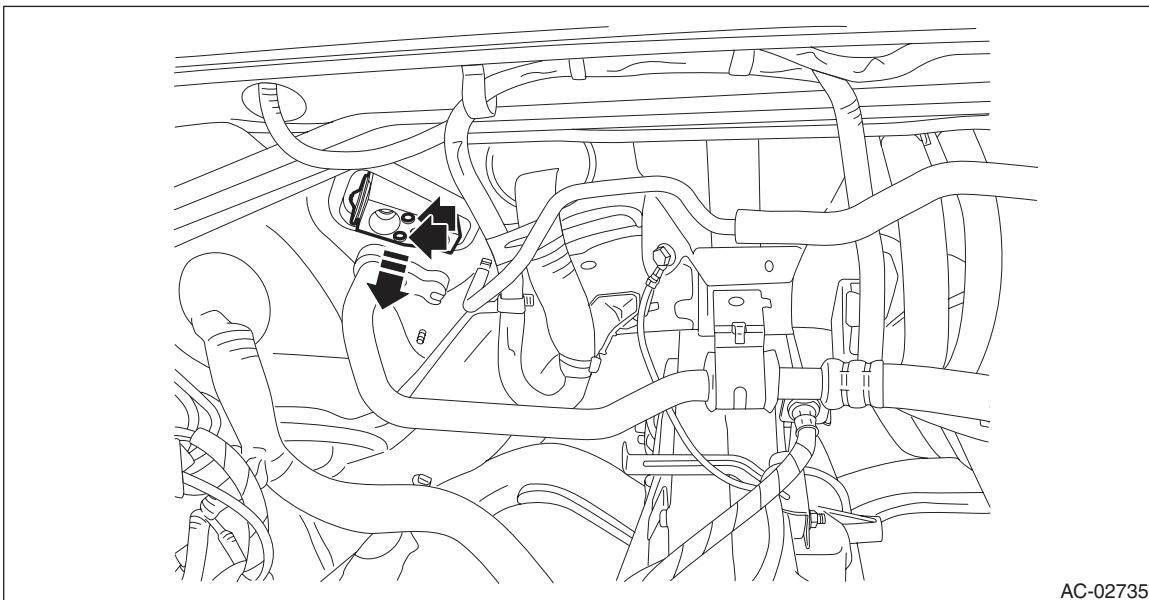
(2) Remove the bolt, and remove the expansion valve - cooling.

CAUTION:

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

Preparation tool:

Hexagon wrench: 4 mm (0.16 in)



6) Remove the glove box. <Ref. to EI-78, REMOVAL, Glove Box.>

7) Remove the engine control module (ECM).

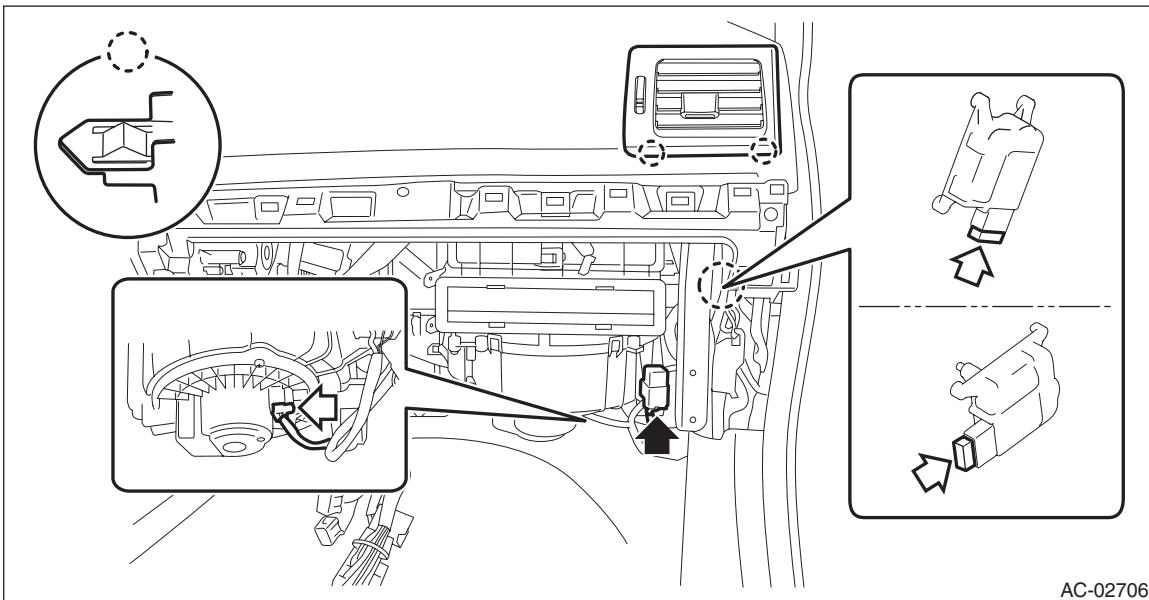
• Gasoline engine model: <Ref. to FU(H4DO(w/o HEV))-100, REMOVAL, Engine Control Module (ECM).>

• HEV model: <Ref. to FU(H4DO(HEV))-85, REMOVAL, Engine Control Module (ECM).>

8) 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.



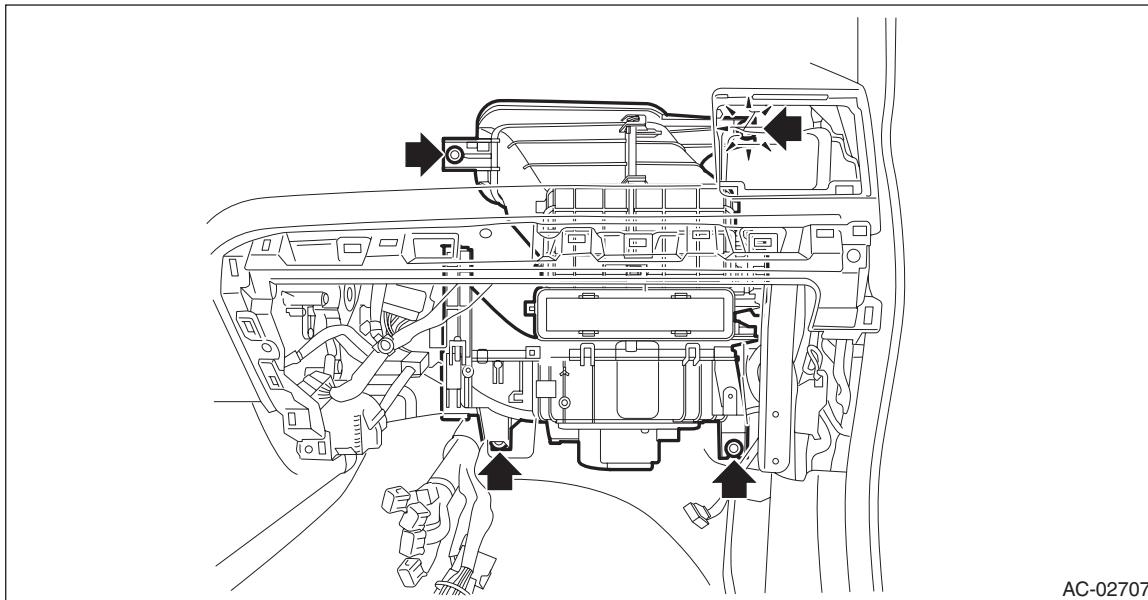
Evaporator

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

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

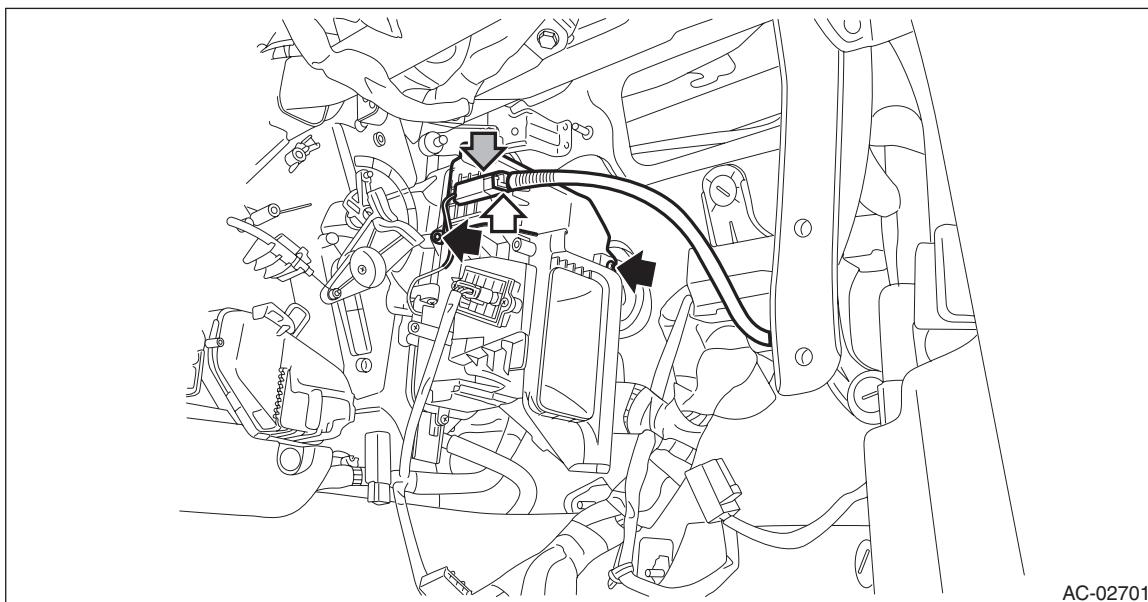
NOTE:

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



9) Remove the evaporator assembly - cooling.

- (1) Disconnect the connector and lock of the thermostat - cooling.
- (2) Remove the screws and detach the cover.

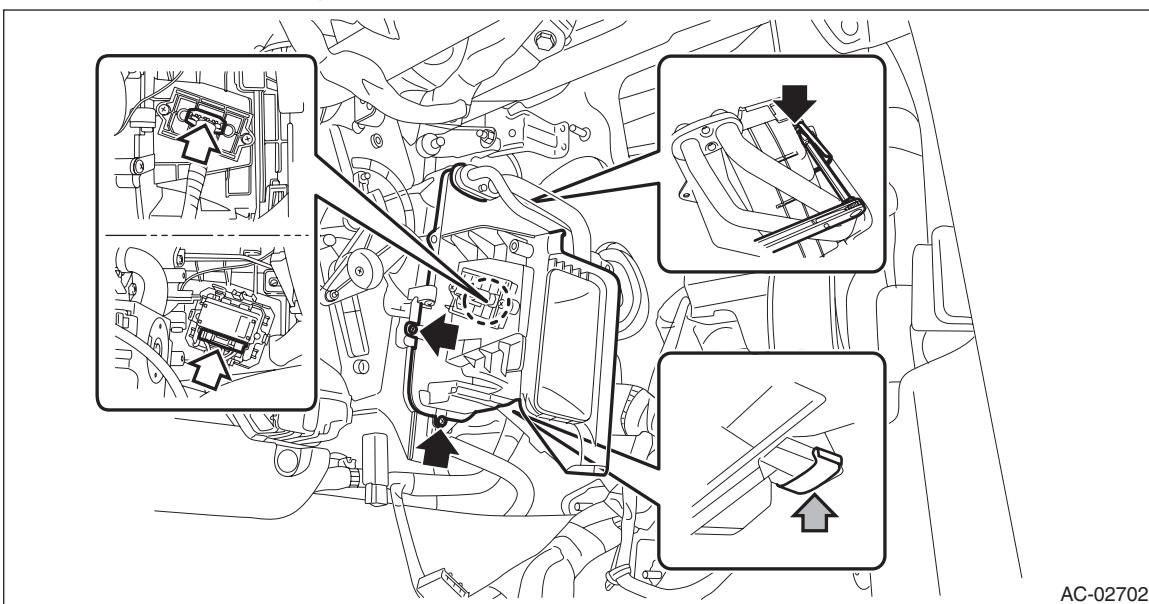


Evaporator

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

(3) Remove the cover - heater unit.

1. Disconnect the connector for the power transistor or resistor.
2. Remove the screws and clips to remove the cover - heater unit.



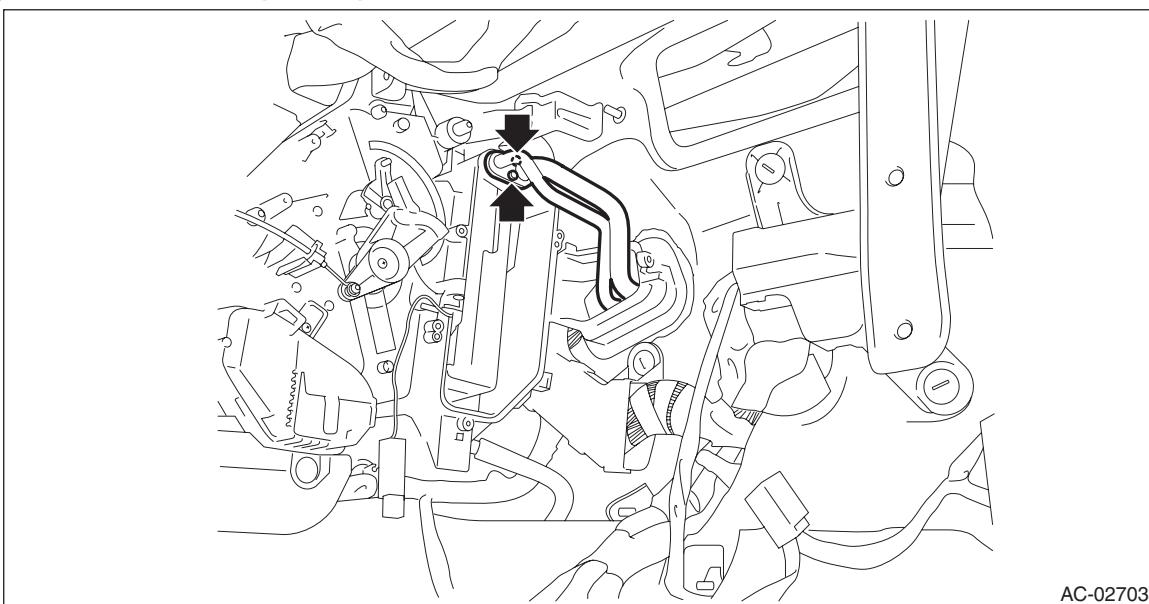
(4) Remove the bolt, and detach the pipe - evaporator core.

CAUTION:

Seal the disconnected pipe and engaging part of evaporator assembly with a plug or vinyl tape to prevent foreign matter from entering.

Preparation tool:

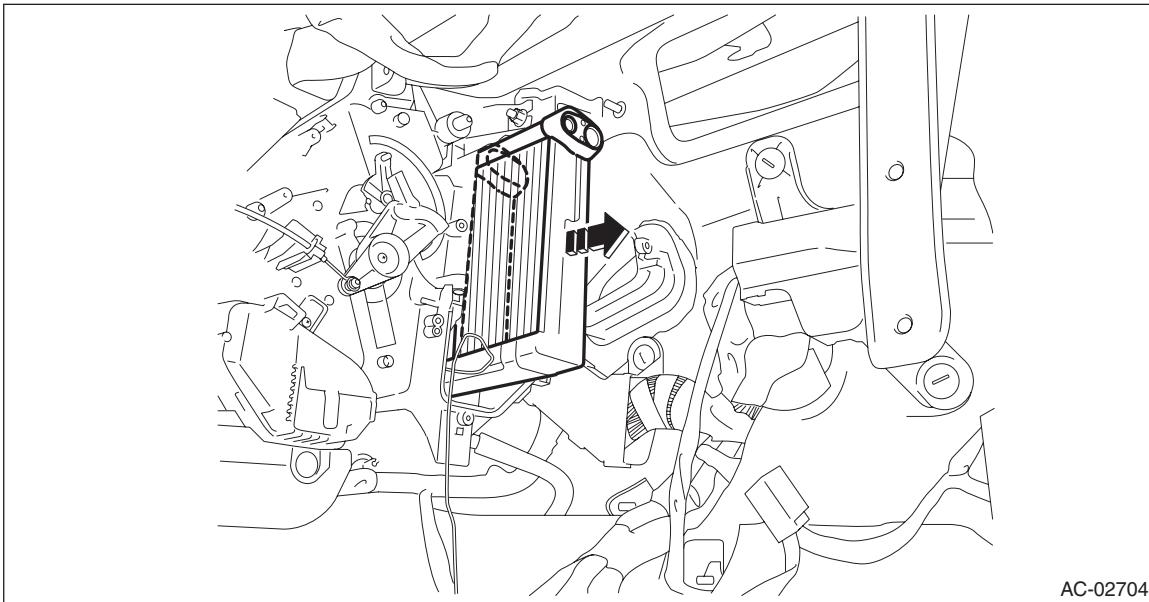
Hexagon wrench: 4 mm (0.16 in)



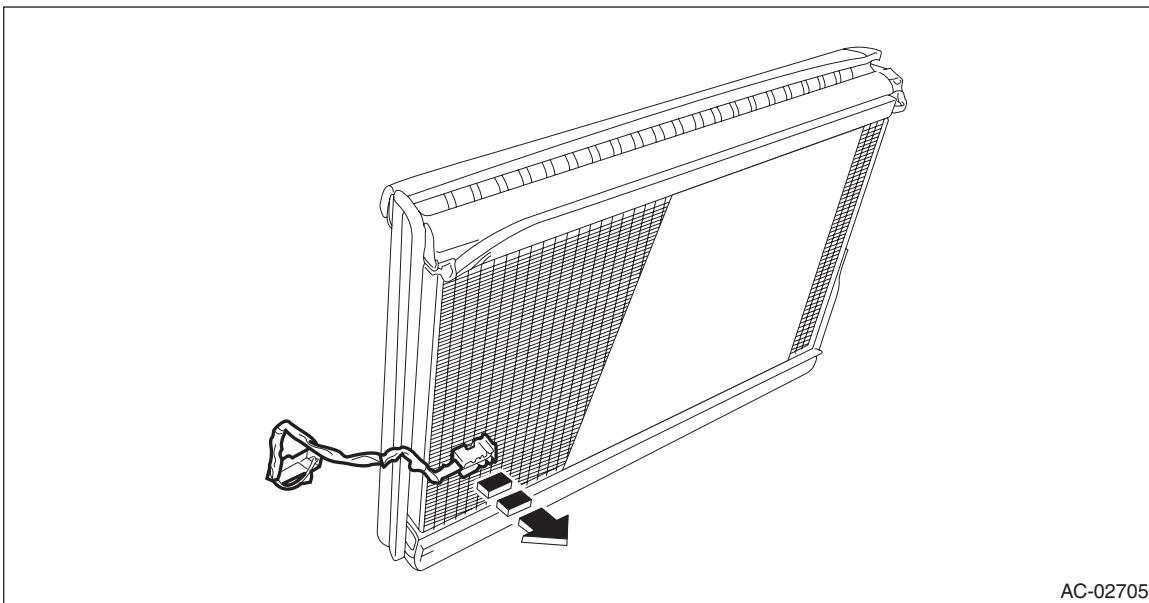
Evaporator

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

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



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



Evaporator

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

B: INSTALLATION

CAUTION:

- If the evaporator assembly - cooling has been replaced, add an appropriate amount of compressor oil. <Ref. to AC-37, ADJUSTMENT, 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-89, INSTALLATION, Evaporator Sensor.>
- 2) 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.>

- 3) Charge refrigerant. <Ref. to AC-30, 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.