

## 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.**

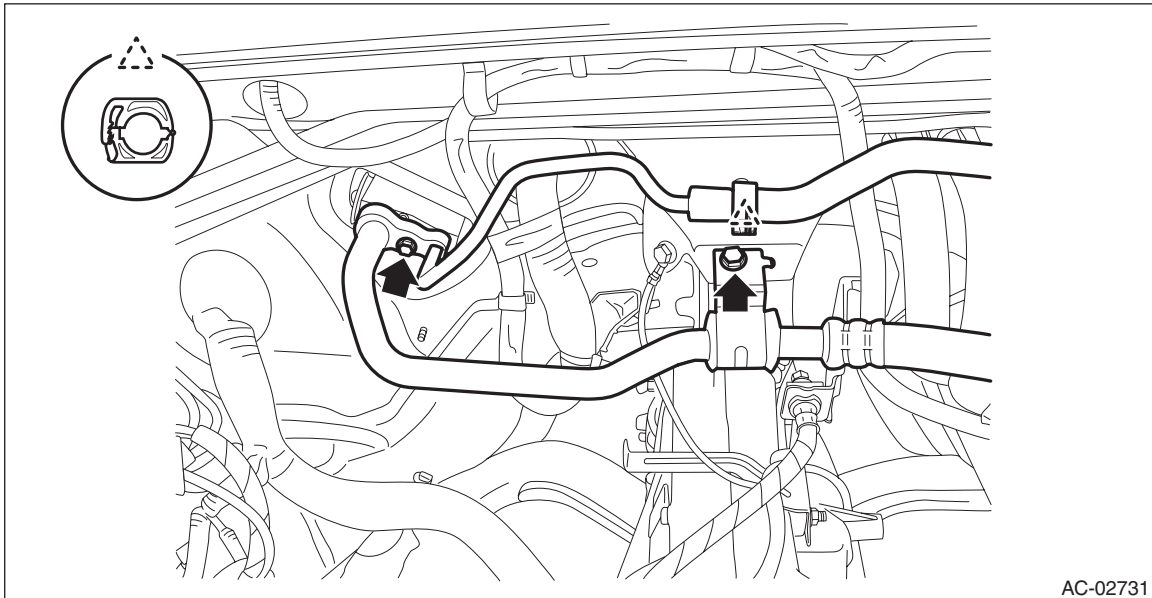
4) Remove the air cleaner case. (HEV model) <Ref. to IN(H4DO(HEV))-6, REMOVAL, Air Cleaner Case.>

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)

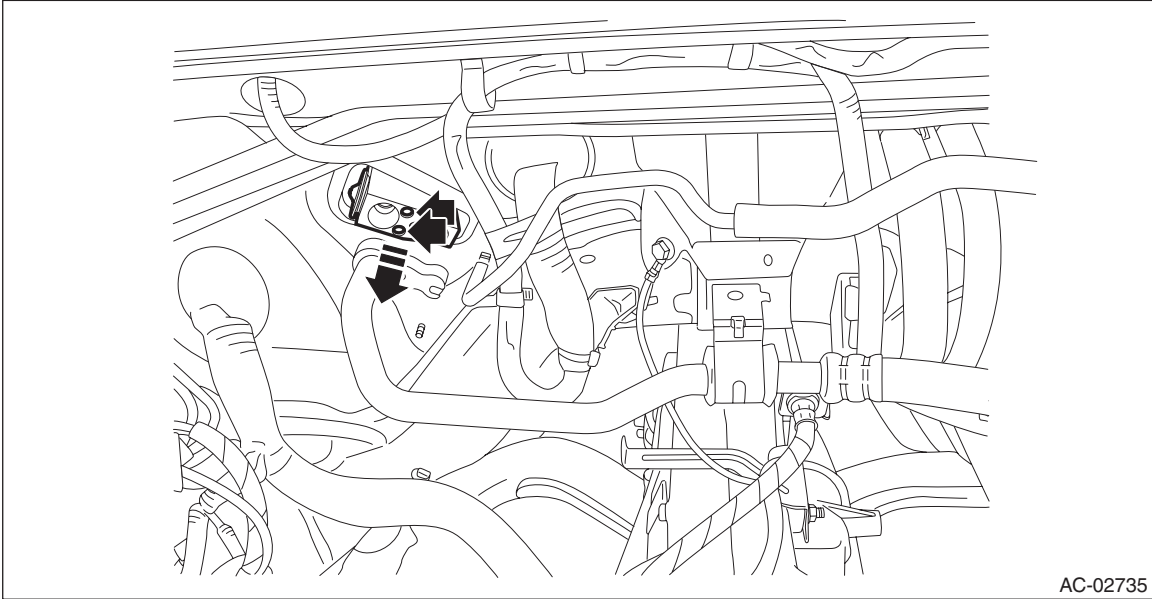
- (2) Remove the bolt, and remove the expansion valve - cooling.

#### 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)**



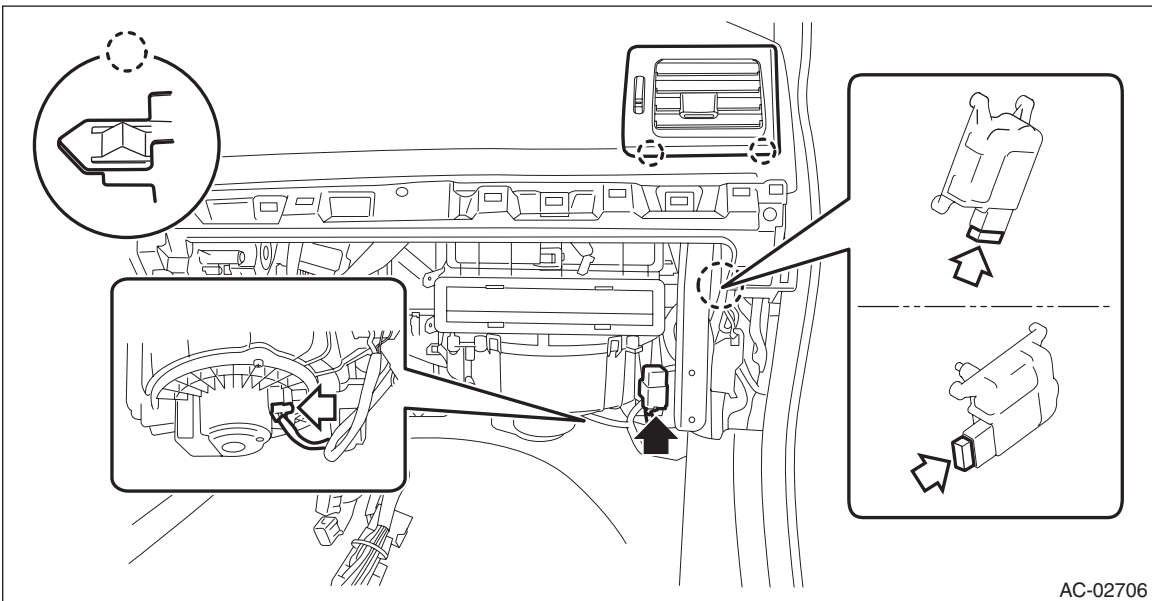
- 6) Remove the glove box. <Ref. to EI-78, REMOVAL, Glove Box.>

- 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.



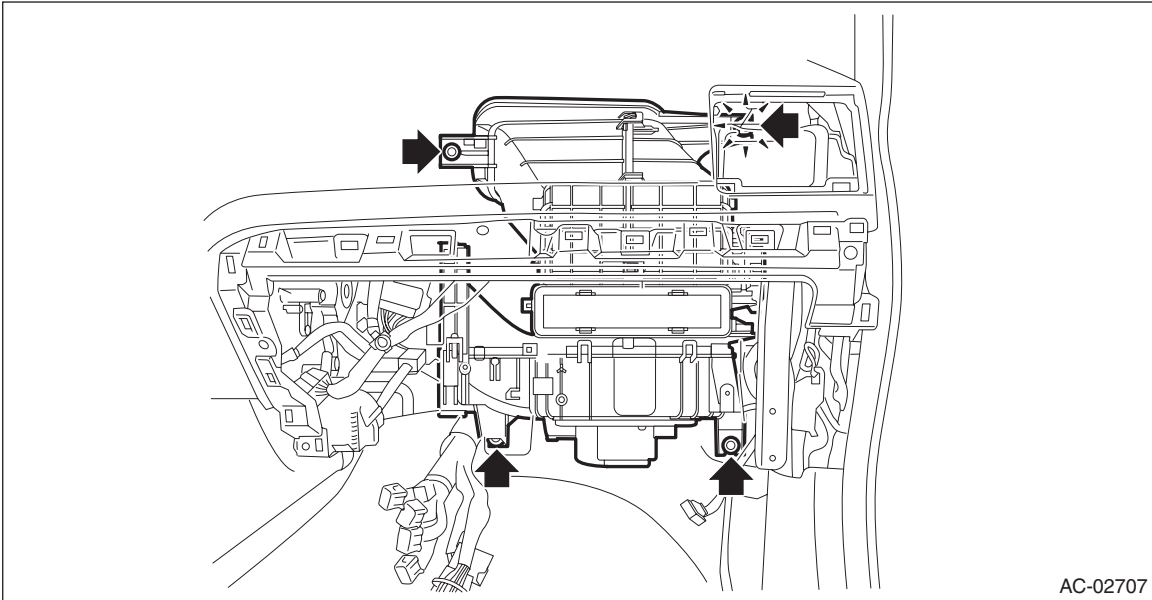
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HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

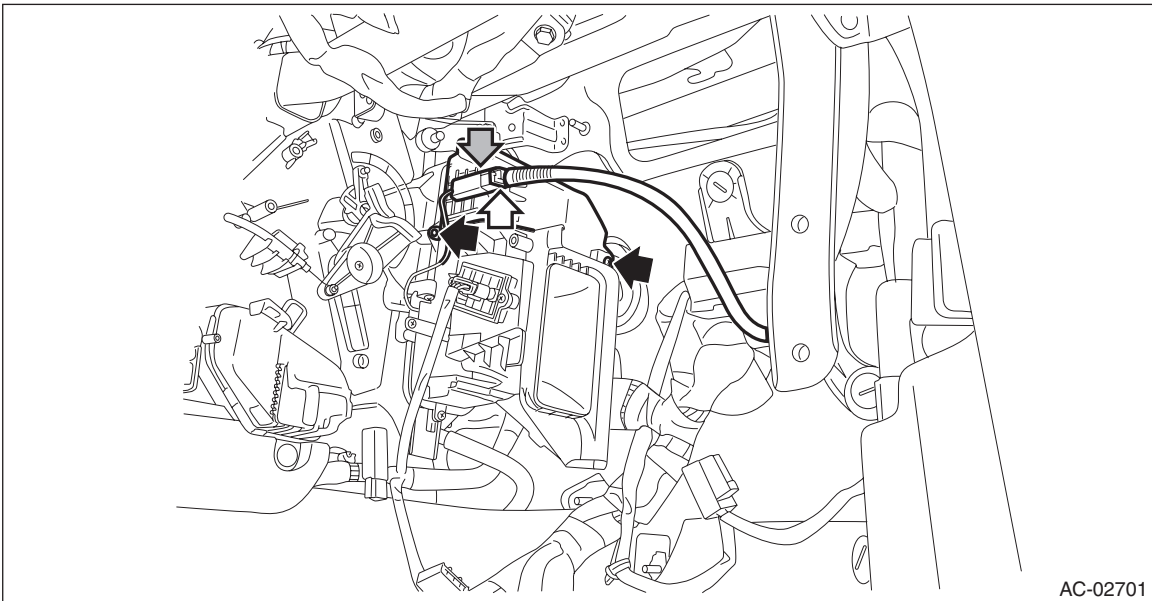
- (3) Remove the bolts and nuts to remove blower motor unit assembly.

**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.

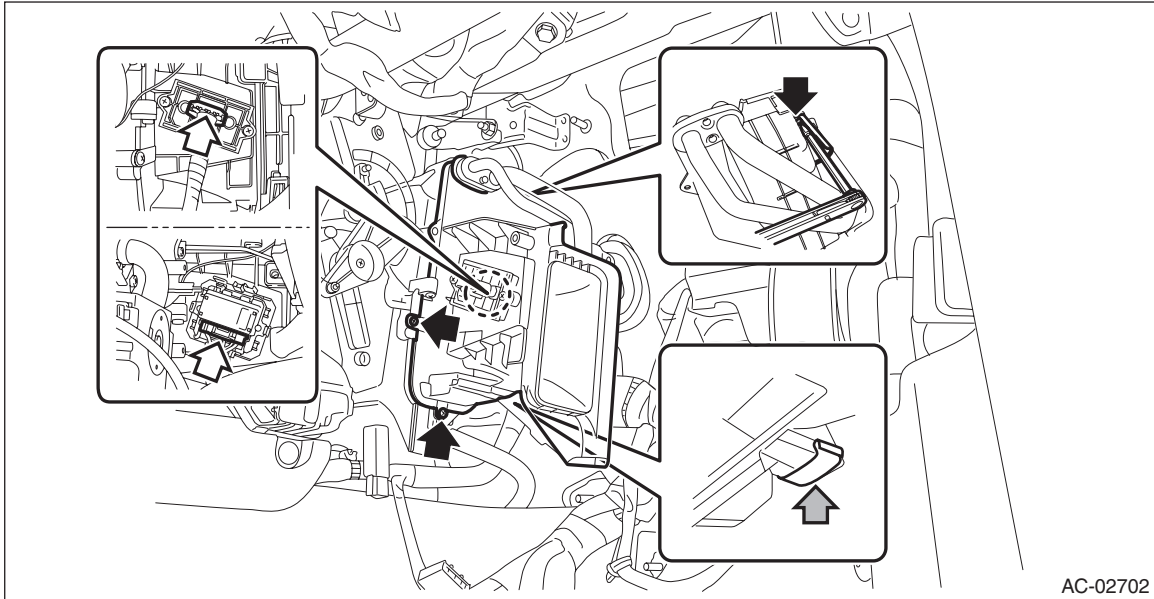


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### HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

(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:

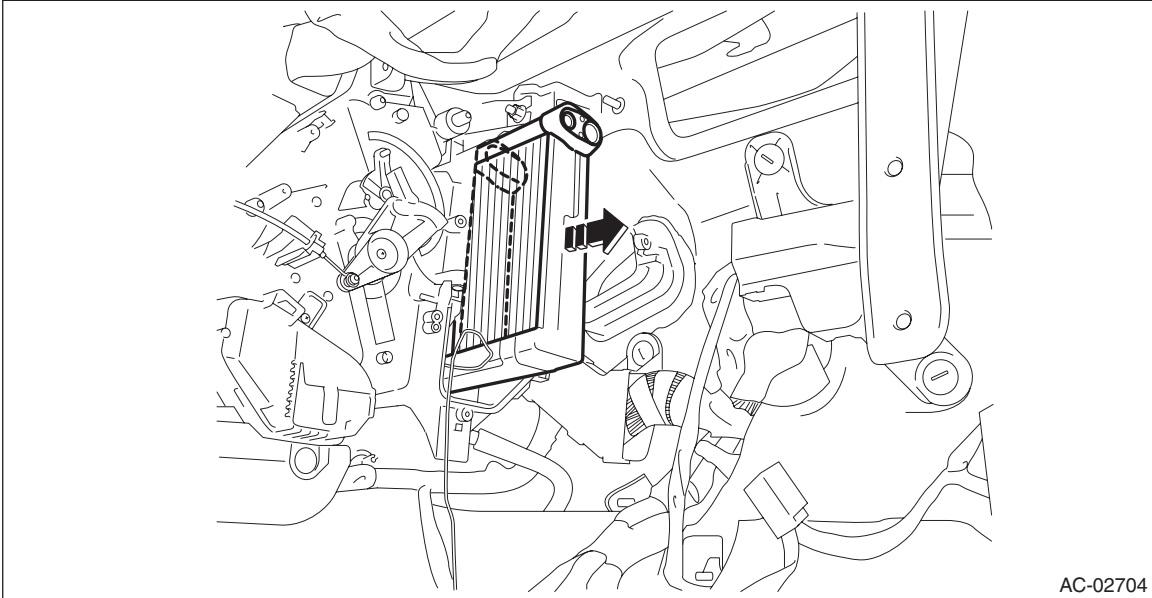
**Hexagon wrench: 4 mm (0.16 in)**



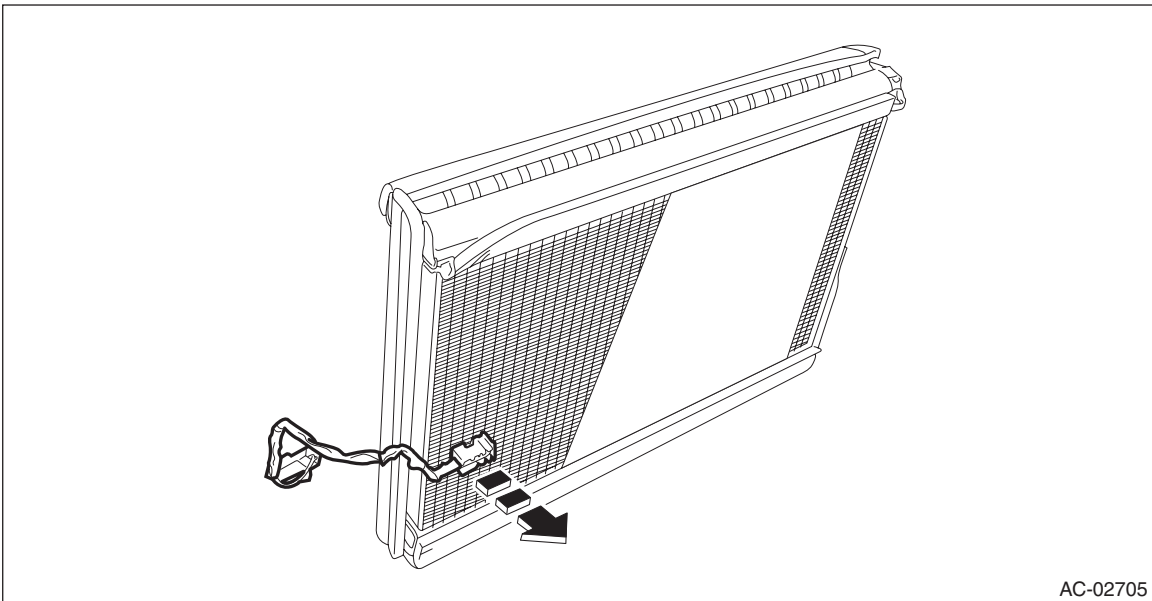
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HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

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



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



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HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

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## 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.