

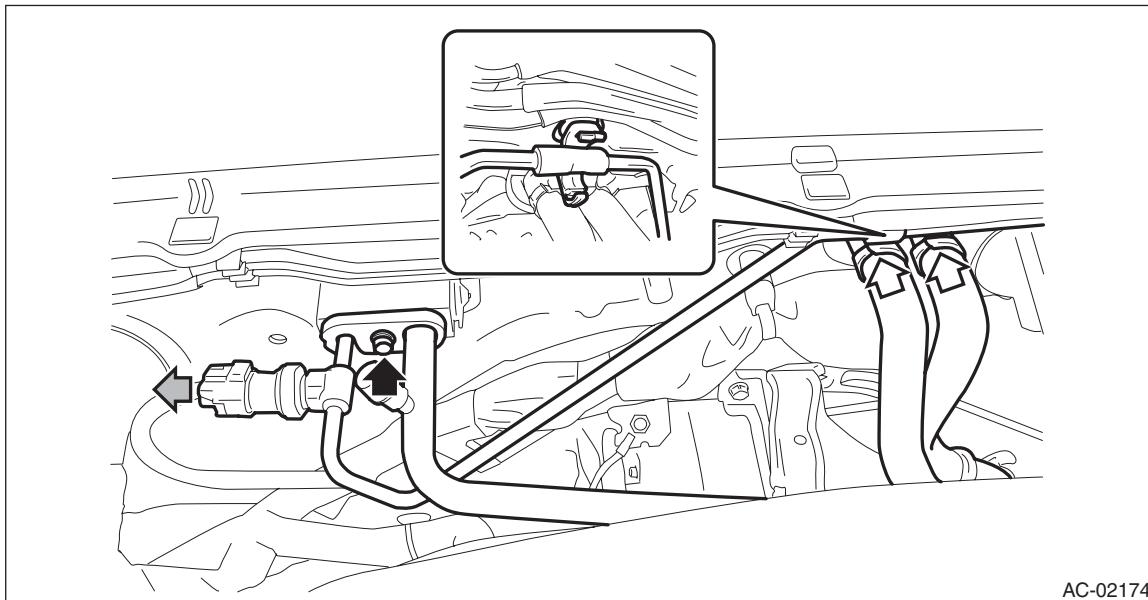
Evaporator

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

19. Evaporator

A: REMOVAL

- 1) Disconnect the ground cable from battery.
- 2) Using the refrigerant recovery system, discharge refrigerant. <Ref. to AC-20, PROCEDURE, Refrigerant Recovery Procedure.>
- 3) Drain the coolant from the radiator.
 - H4 non-turbo model: <Ref. to CO(H4SO)-13, DRAINING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>
 - H4 turbo model: <Ref. to CO(H4DOTC)-14, DRAINING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>
 - H6 model: <Ref. to CO(H6DO)-12, DRAINING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>
- 4) Remove the connector and bolts, and remove the expansion valve and AC pipes from the evaporator.
- 5) Loosen the heater hose clamps and remove the hoses.



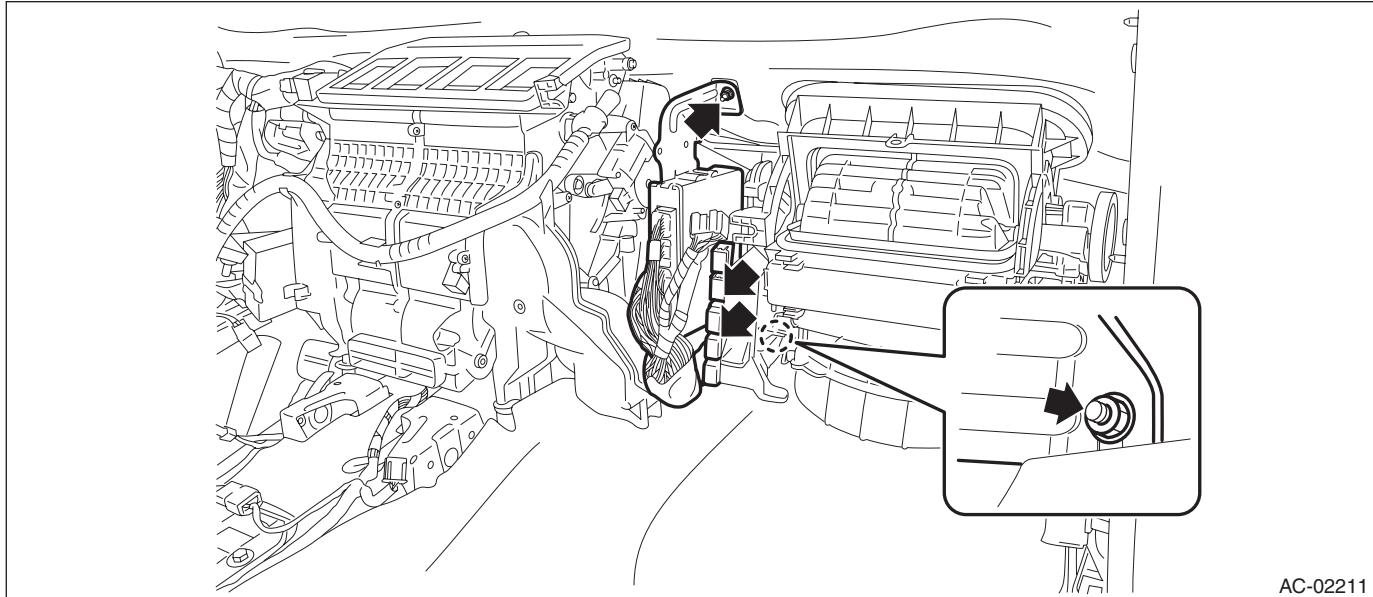
- 6) Remove the instrument panel assembly. <Ref. to EI-75, REMOVAL, Instrument Panel Assembly.>

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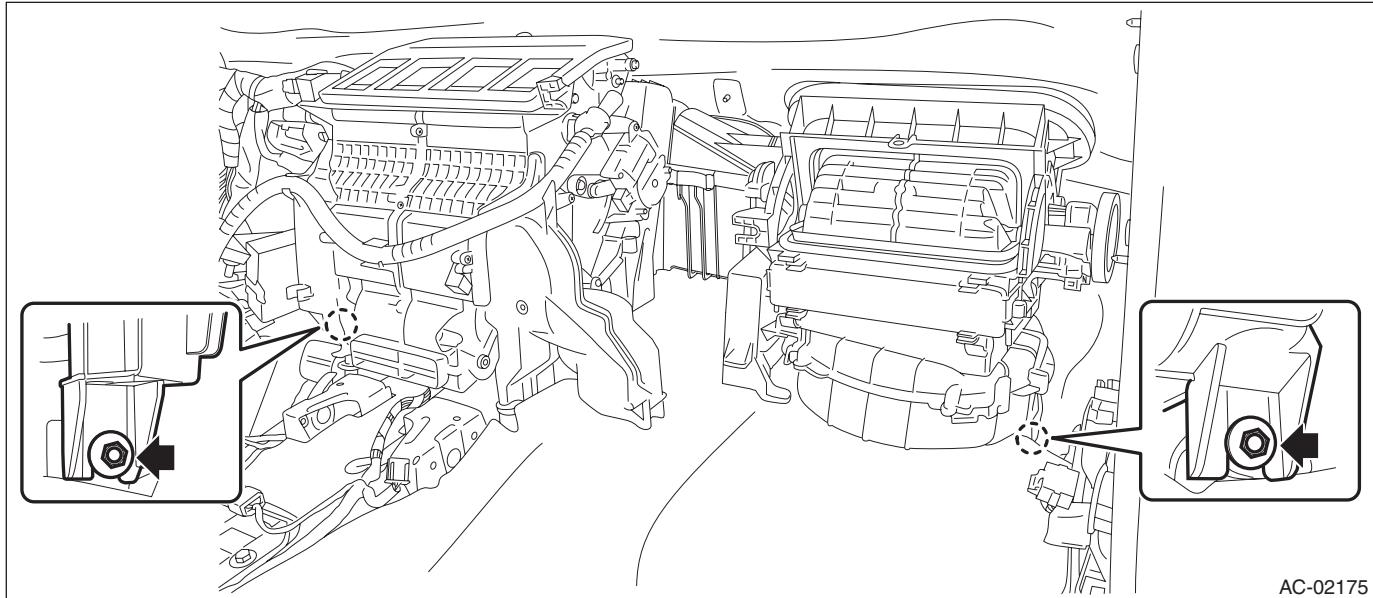
7) Remove the heater and cooling unit.

- (1) Release the lock and remove the relay holder.
- (2) Remove the nuts, and remove the engine control module (ECM).



AC-02211

- (3) Remove the bolt and remove the heater and cooling unit.



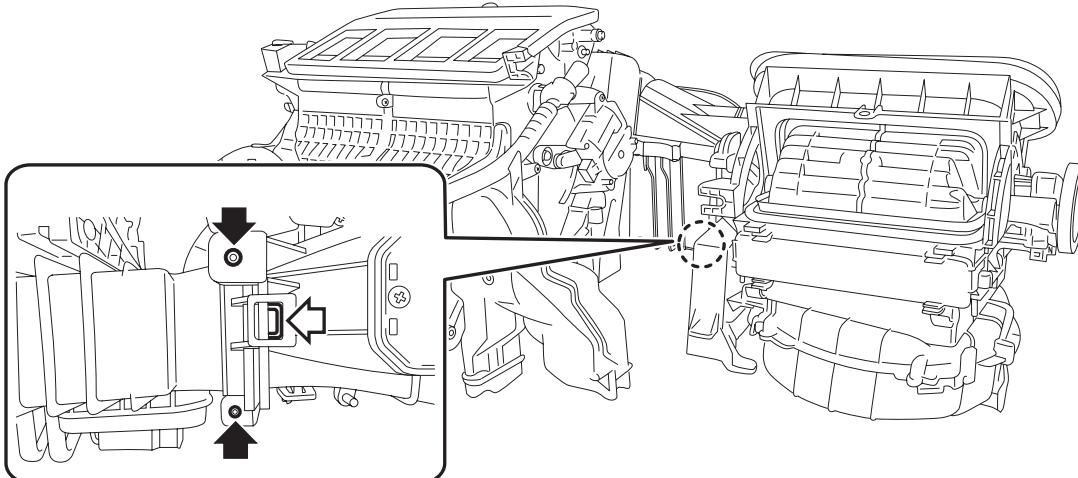
AC-02175

Evaporator

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

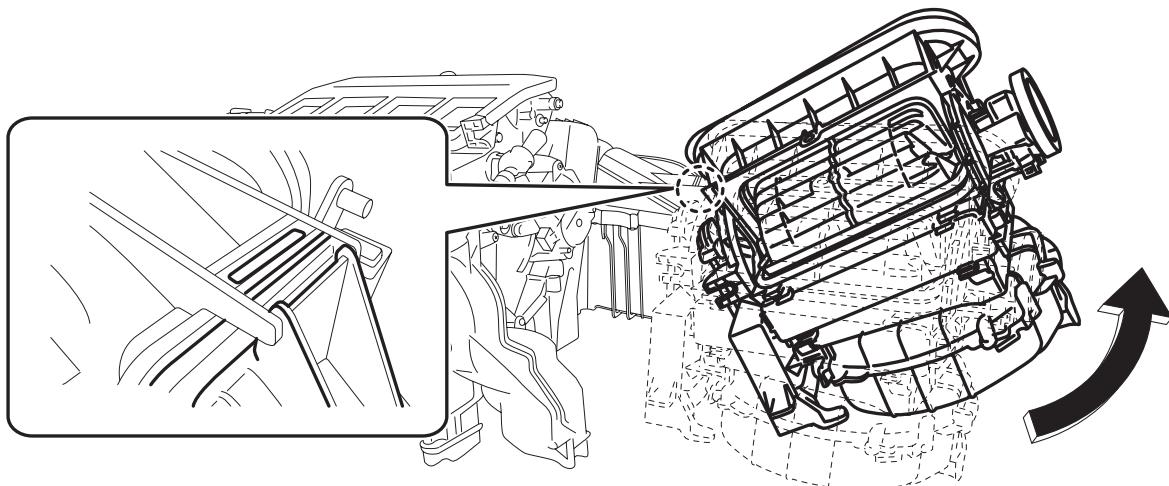
8) Remove the blower motor unit assembly.

(1) Release the claws and remove the bolts.



AC-02159

(2) Remove the blower motor unit assembly as shown in the figure.

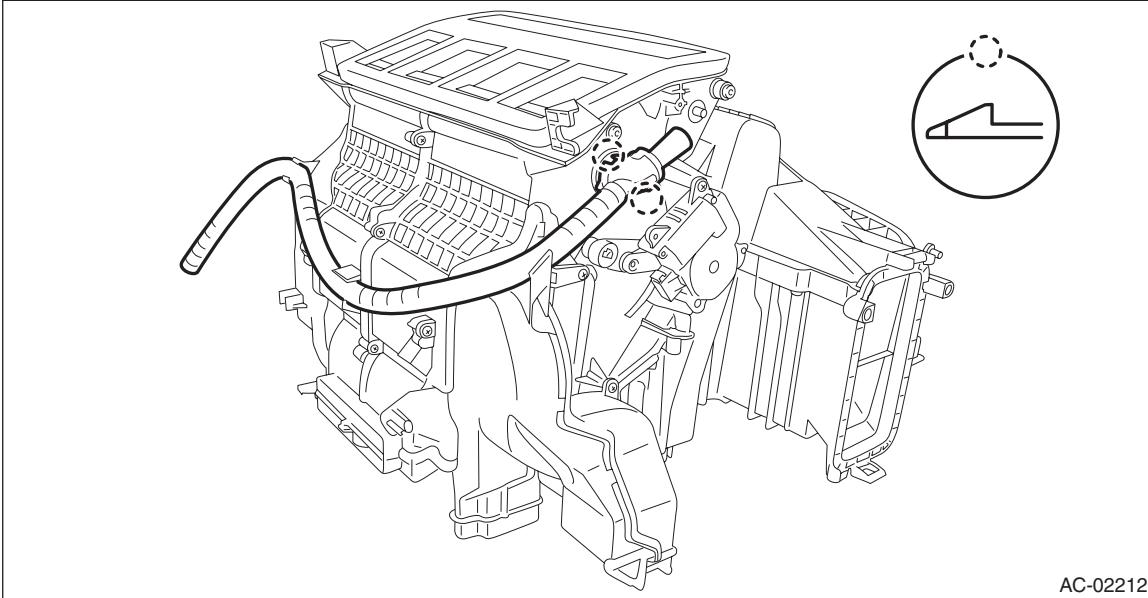


AC-02160

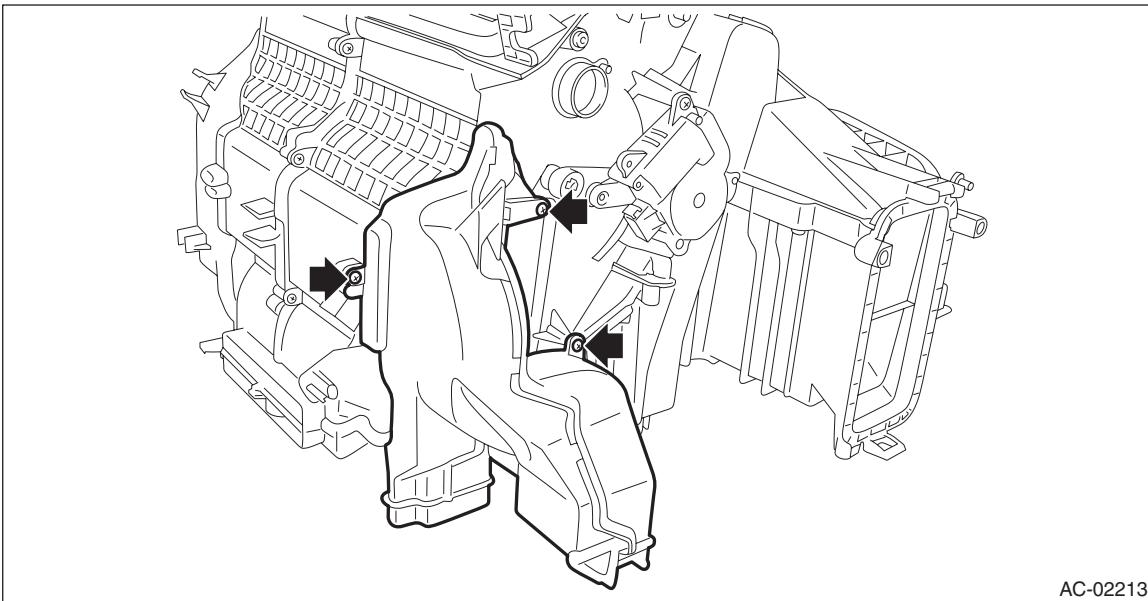
Evaporator

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9) Disconnect the claws and then remove the aspirator hose.



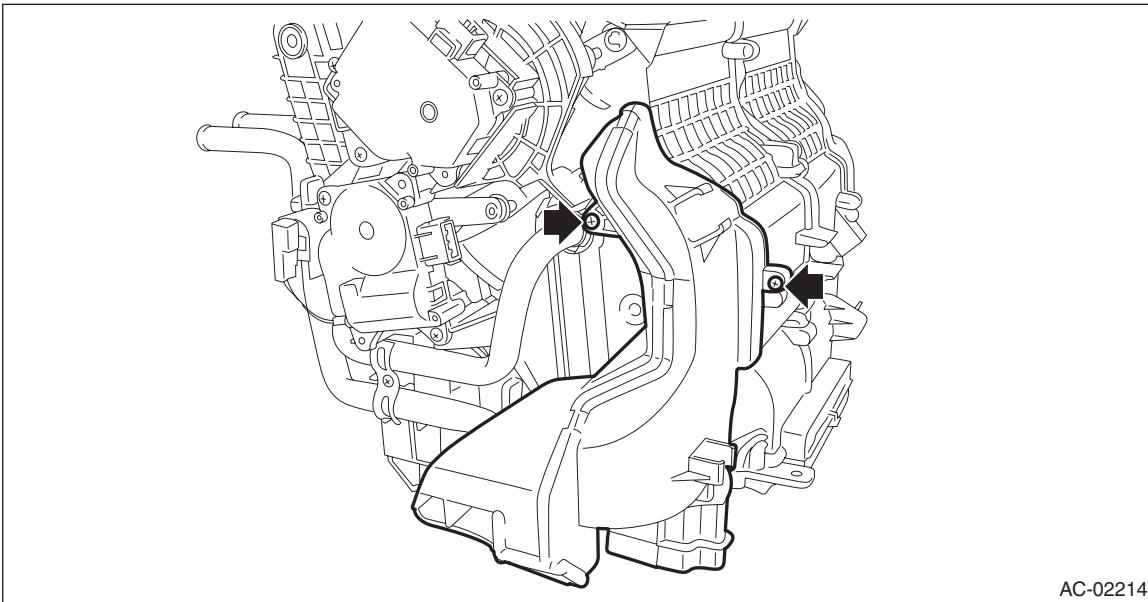
10) Remove the screw, and then remove the foot duct (RH).



Evaporator

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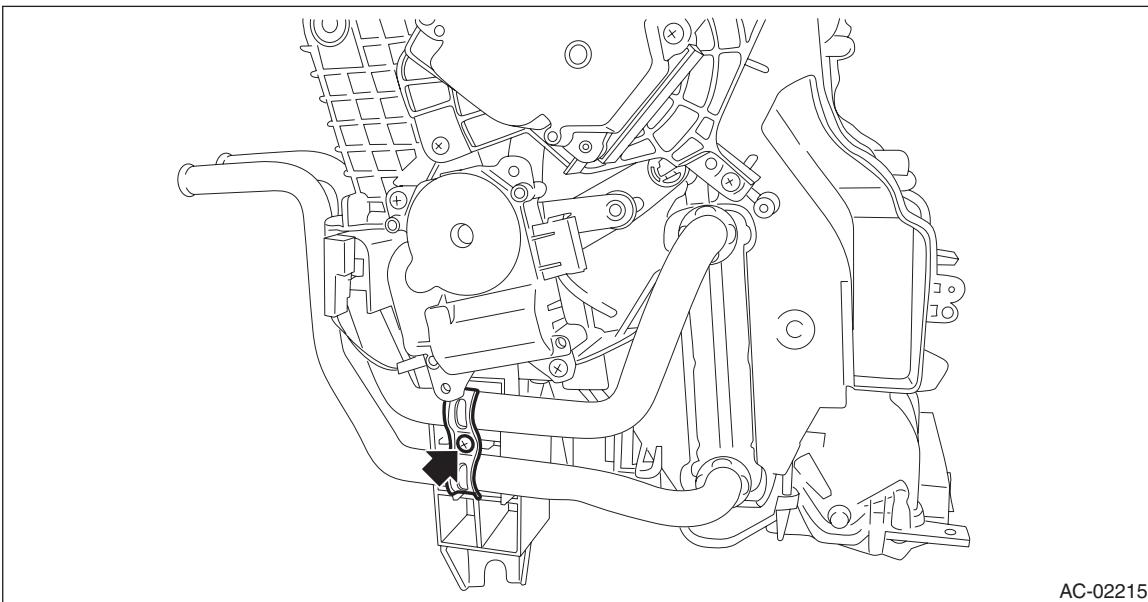
11) Remove the screws and remove the foot duct (LH).



AC-02214

12) Pull out the heater core.

(1) Remove the screw and remove the heater pipe clamp.

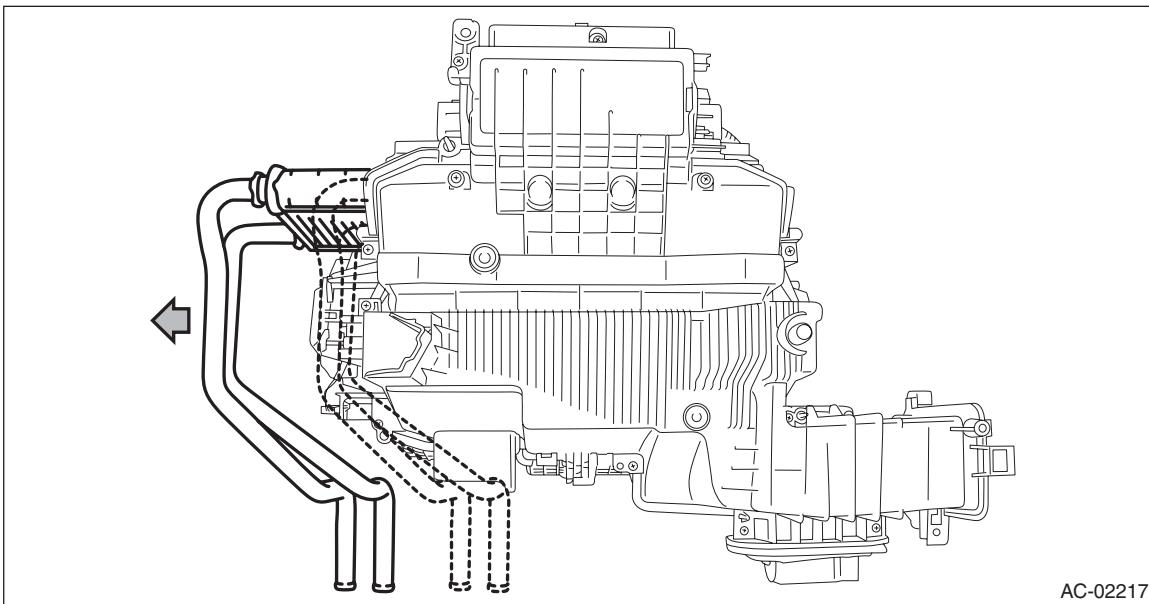


AC-02215

Evaporator

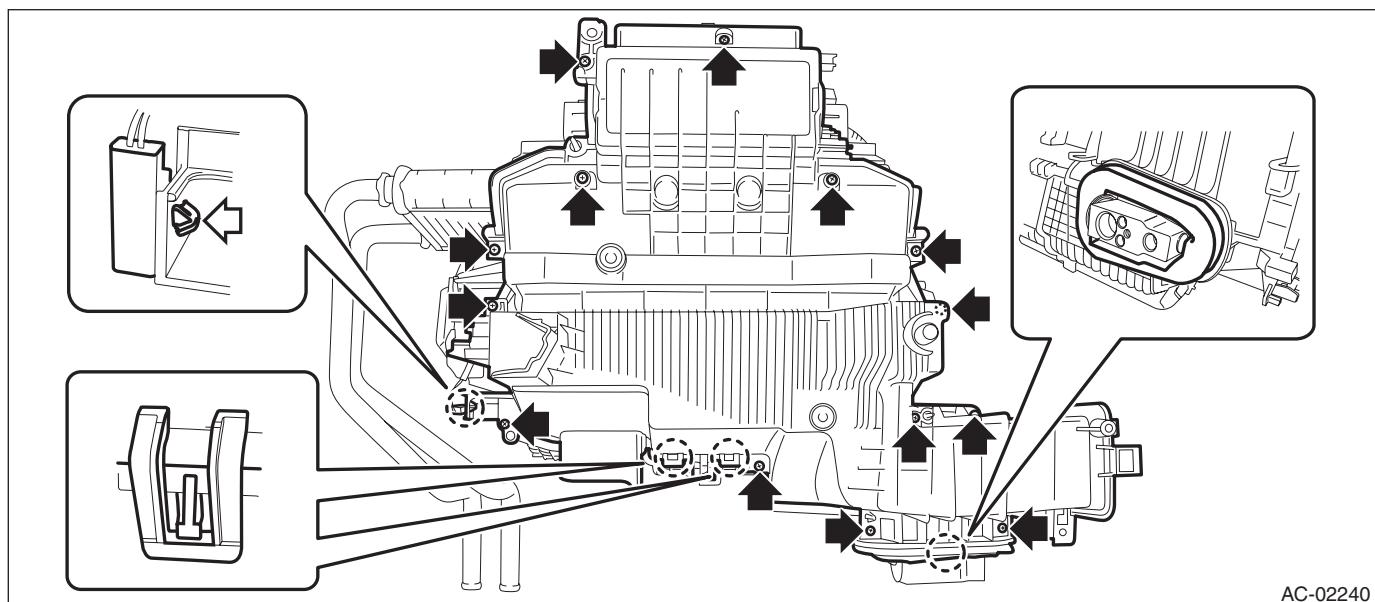
HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

(2) Pull out the heater core from the heater and cooling unit assembly.



13) Remove the heater case lower.

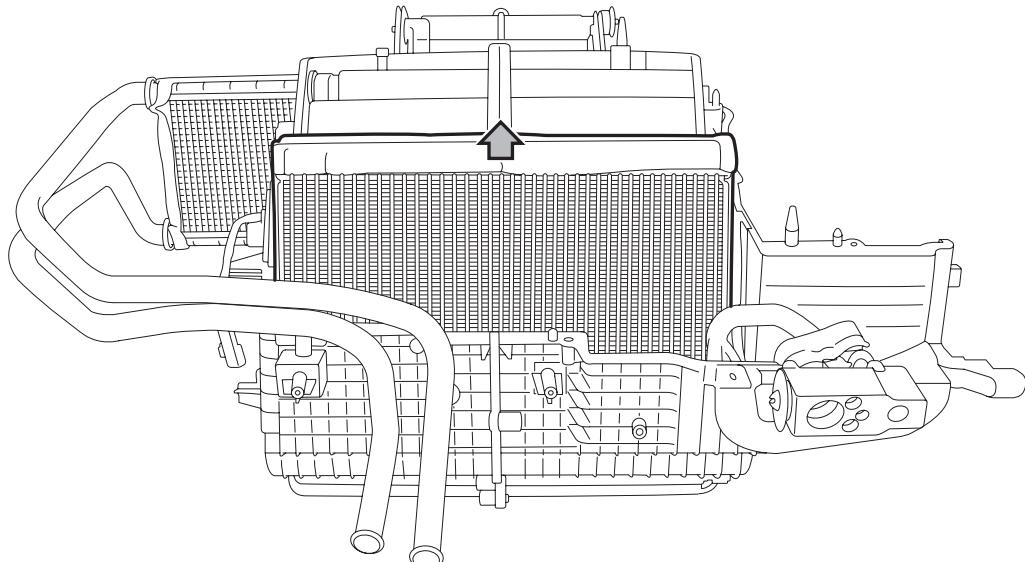
- (1) Remove the clip, and remove the evaporator connector.
- (2) Remove the gasket.
- (3) Remove the screw and lock, then remove the heater case lower.



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HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

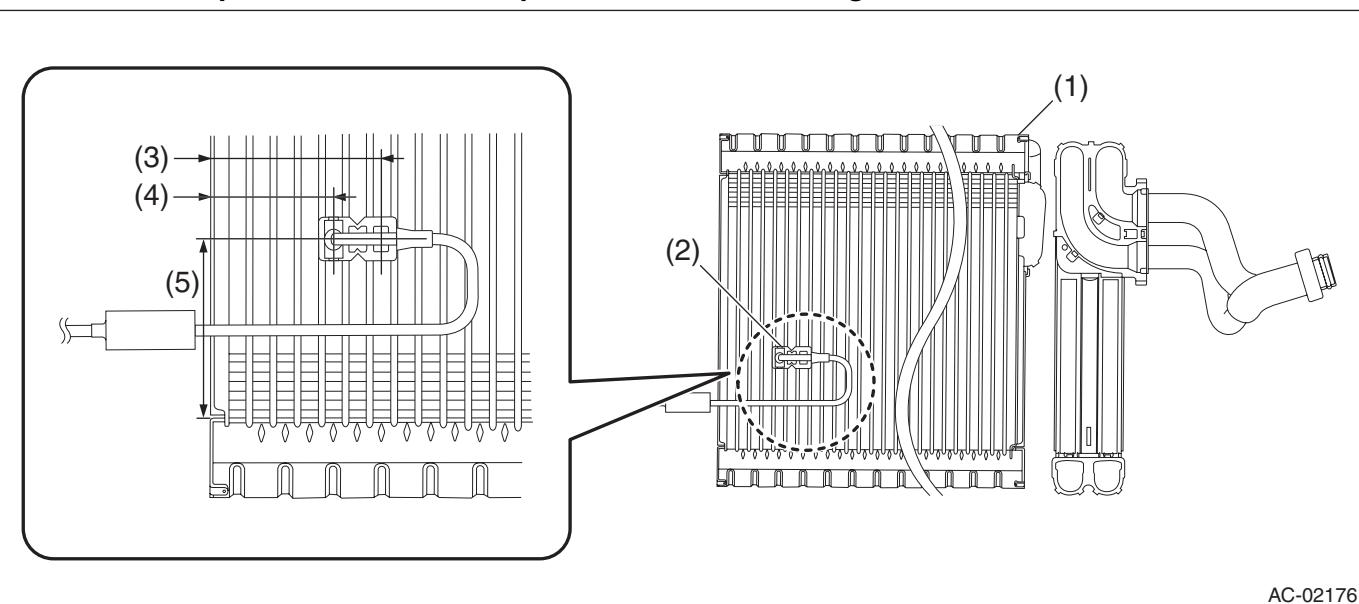
14) Remove the evaporator.



B: INSTALLATION

CAUTION:

- Do not start the engine before charging refrigerant.
- If the engine is started with no refrigerant charge, replace the compressor.
- If the evaporator has been replaced, add an appropriate amount of compressor oil to the evaporator. <Ref. to AC-26, REPLACEMENT, Compressor Oil.>
- Make sure that the water seal gasket on the cover attachment area is securely attached.
- Replace the O-rings on pipes with new parts, and then apply compressor oil.
- Install the evaporator sensor at the position shown in the figure below.



(1) Evaporator
(2) Evaporator sensor

(3) 47.7 mm (1.88 in)
(4) 34.3 mm (1.35 in)

(5) 50 mm (1.97 in)

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

2) Fill engine coolant.

- H4 non-turbo model: <Ref. to CO(H4SO)-13, FILLING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>

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- H4 turbo model: <Ref. to CO(H4DOTC)-14, FILLING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>
- H6 model: <Ref. to CO(H6DO)-12, FILLING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>
- 3) Charge refrigerant. <Ref. to AC-21, PROCEDURE, Refrigerant Charging Procedure.>

Tightening torque:

Heater cooling unit: <Ref. to AC-5, HEATER COOLING UNIT, COMPONENT, General Description.>

Blower motor unit: <Ref. to AC-7, BLOWER MOTOR UNIT, COMPONENT, General Description.>

C: INSPECTION

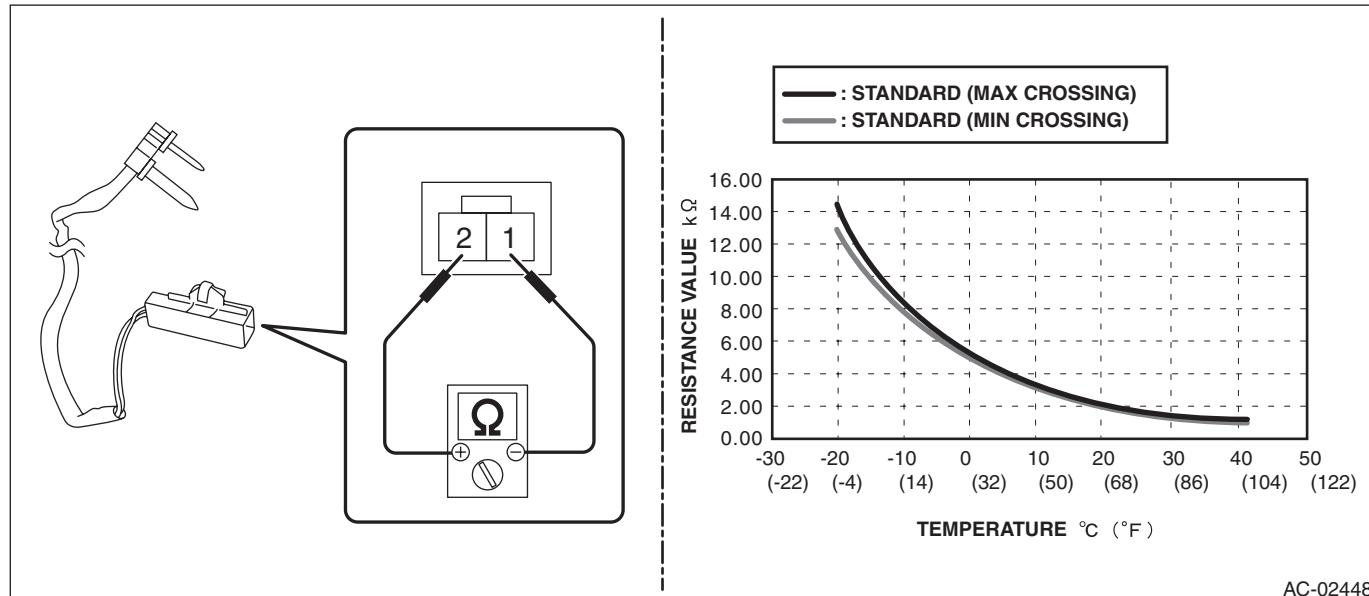
1. CHECK EVAPORATOR UNIT

- 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 from the evaporator, replace the evaporator.

2. INSPECTION OF EVAPORATOR SENSOR UNIT

- 1) Check the resistance between evaporator sensor terminals.

Preparation tool: Circuit tester



AC-02448

Terminal No.	Inspection conditions	Standard
1 — 2	-20°C	13.584 — 14.541 kΩ
	-15°C	10.34 — 10.946 kΩ
	-10°C	7.938 — 8.313 kΩ
	-5°C	6.143 — 6.366 kΩ
	0°C	4.79 — 4.914 kΩ
	5°C	3.718 — 3.829 kΩ
	10°C	2.889 — 3.031 kΩ
	15°C	2.247 — 2.435 kΩ
	20°C	1.785 — 1.952 kΩ
	25°C	1.427 — 1.574 kΩ
	30°C	1.149 — 1.278 kΩ
	35°C	0.931 — 1.044 kΩ
	40°C	0.759 — 0.858 kΩ

- 2) Replace the evaporator sensor if the inspection result is not within the standard value.