

# Evaporator

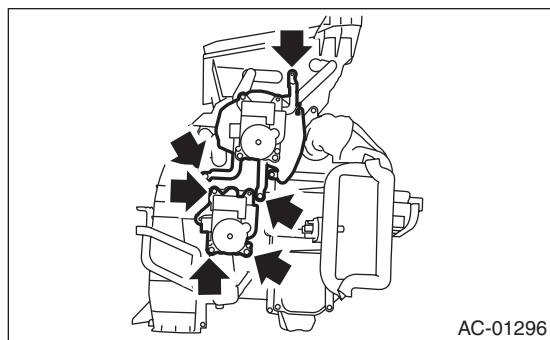
HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

## 17.Evaporator

### A: REMOVAL

#### 1. FRONT

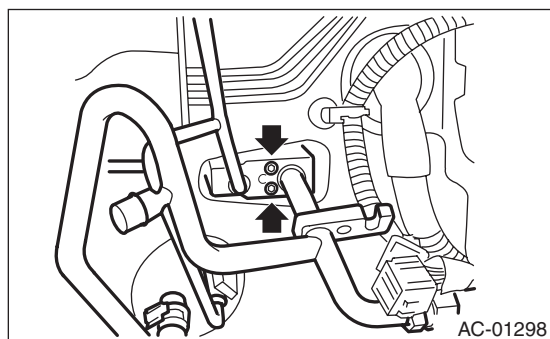
- 1) Using the refrigerant recovery system, discharge refrigerant. <Ref. to AC-21, PROCEDURE, Refrigerant Recovery Procedure.>
- 2) Disconnect the ground cable from battery.
- 3) Remove the blower motor unit assembly. <Ref. to AC-27, REMOVAL, Blower Motor Unit Assembly.>
- 4) Disconnect the connector, remove the screw and then remove the air-mix door actuator and mode door actuator.



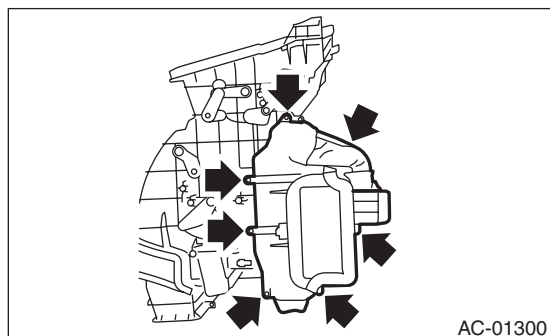
- 5) Remove the bolts holding the expansion valve, and remove the expansion valve.

#### CAUTION:

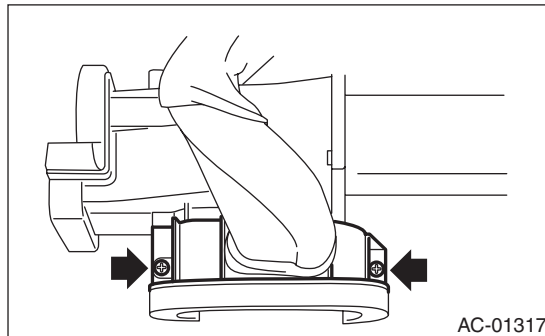
**Seal the disconnected hose, pipe and engaging part of evaporator with a plug or vinyl tape to prevent foreign matter from entering.**



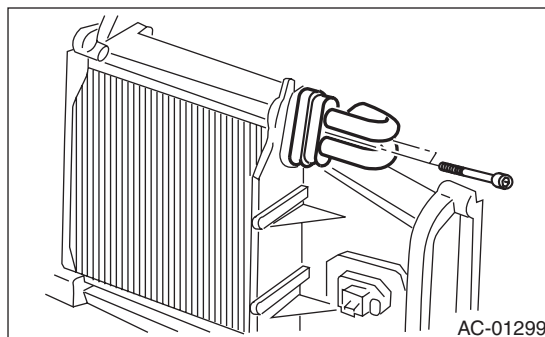
- 6) Remove the screws and pull out the evaporator.



- 7) Remove the pipe cover from the evaporator.

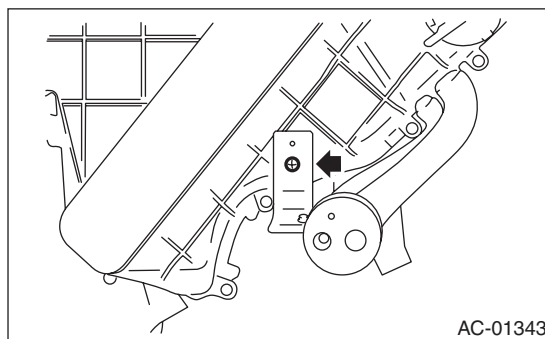


- 8) Remove the bolt which holds the pipe to evaporator, and remove the evaporator.



#### 2. REAR

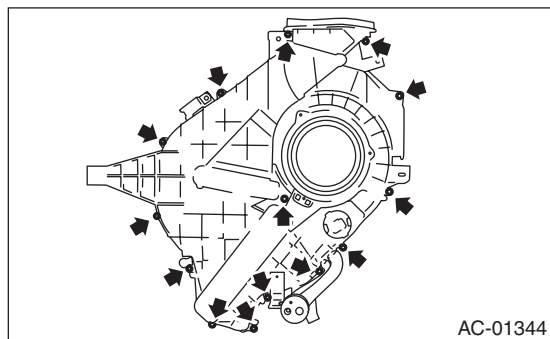
- 1) Using the refrigerant recovery system, discharge refrigerant. <Ref. to AC-21, PROCEDURE, Refrigerant Recovery Procedure.>
- 2) Disconnect the ground cable from battery.
- 3) Remove the rear cooler unit. <Ref. to AC-37, REAR, REMOVAL, Heater and Cooling Unit.>
- 4) Remove the pipe bracket bolts and remove the bracket.



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5) Remove the screws, and then remove the cooler unit.

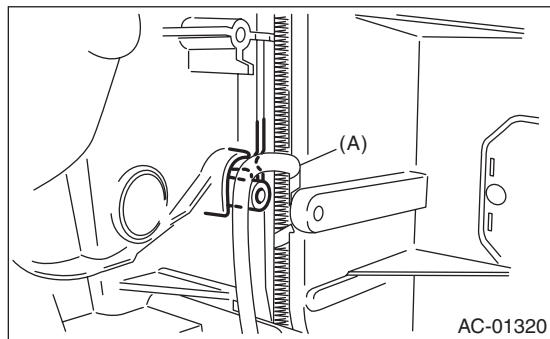


6) Remove from the cooler unit and disconnect the pipe from the evaporator.

## B: INSTALLATION

### CAUTION:

- If the evaporator has been replaced, add an appropriate amount of compressor oil to the compressor. <Ref. to AC-26, ADJUSTMENT, Compressor Oil.>
- Replace the O-rings on hoses and pipes with new parts, and then apply compressor oil.
- Route the cord (A) of the evaporator through the location shown on the illustration.



(A) Cord

Install in the reverse order of removal.

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## C: INSPECTION

### 1. EVAPORATOR

- 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.

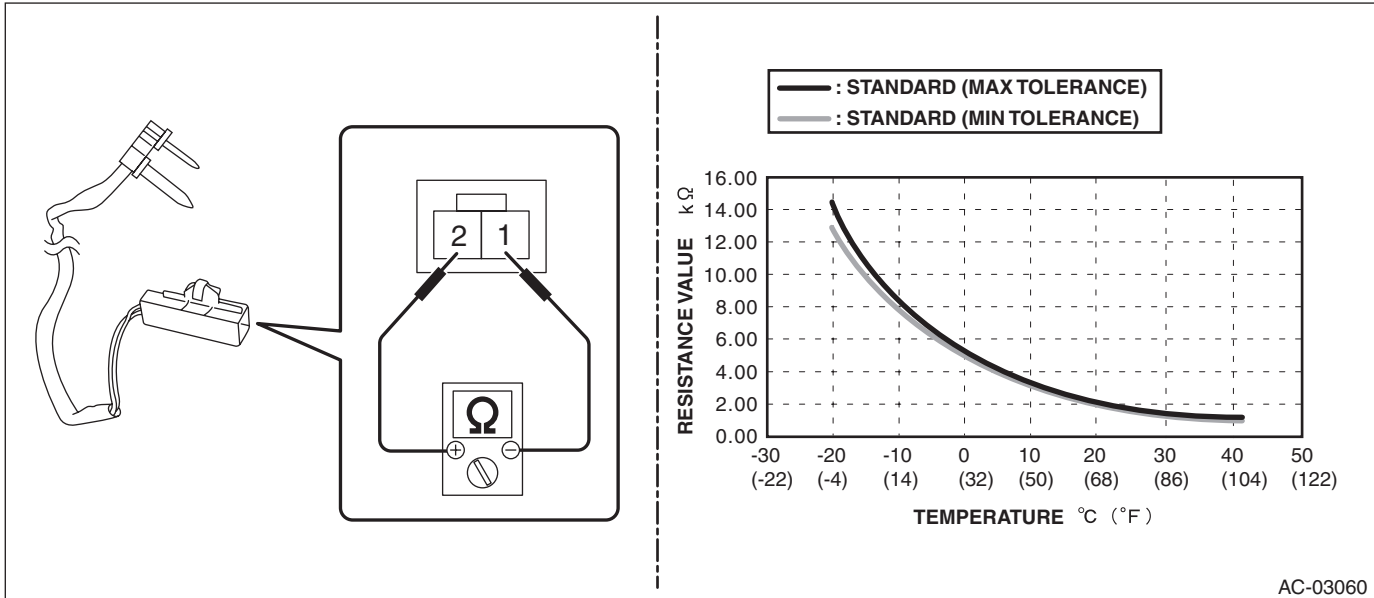
### 2. EVAPORATOR SENSOR

#### UNIT INSPECTION

**Preparation tool:**

**Circuit tester**

- 1) Check the resistance between evaporator sensor terminals.



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.