

## 18. Expansion Valve

### A: REMOVAL

1) Disconnect the ground cable from battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

**NOTE:**

For models other than STI model, disconnect the ground terminal from battery sensor.

2) Using the refrigerant recovery system, discharge refrigerant. <Ref. to AC-26, PROCEDURE, Refrigerant Recovery Procedure.>

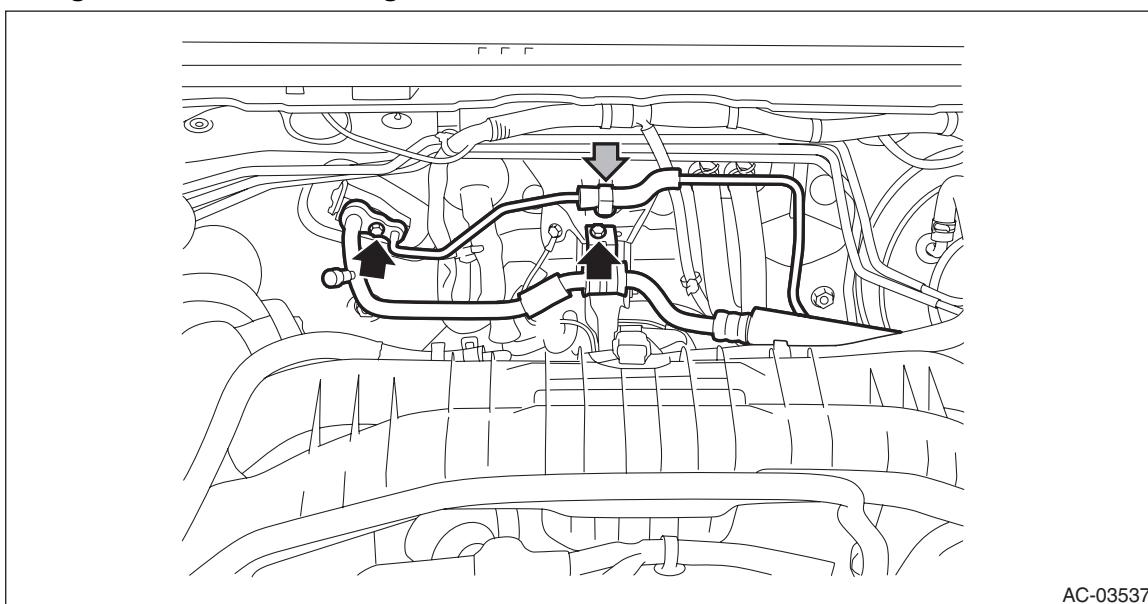
3) Remove the intercooler.

- Except for STI model: <Ref. to IN(w/o STI)-38, REMOVAL, Intercooler.>
- STI model: <Ref. to IN(STI)-13, REMOVAL, Intercooler.>

4) Detach 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.**



# Expansion Valve

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

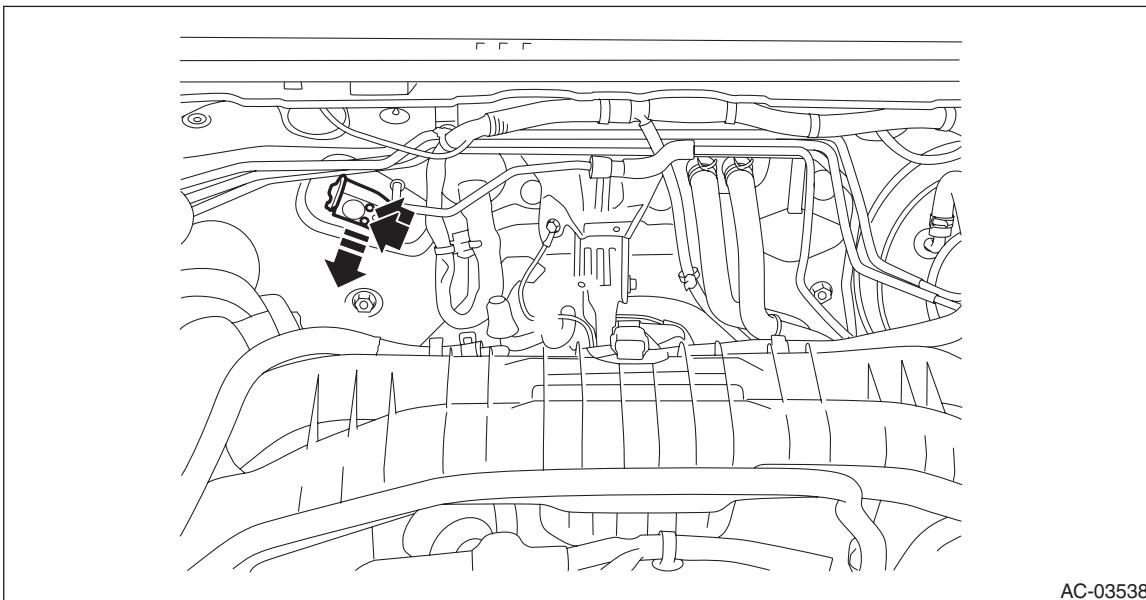
5) Remove the bolt, and remove the expansion valve - cooling.

### 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)



## B: INSTALLATION

### CAUTION:

Replace the O-rings with new parts, and then apply compressor oil.

1) Install the expansion valve.

### Tightening torque:

5 N·m (0.5 kgf·m, 3.7 ft-lb)

2) Install the hose - pressure suction and the pipe - evaporator cooling.

### Tightening torque:

7.5 N·m (0.8 kgf·m, 5.5 ft-lb)

3) Install the intercooler.

• Except for STI model: <Ref. to IN(w/o STI)-41, INSTALLATION, Intercooler.>

• STI model: <Ref. to IN(STI)-14, INSTALLATION, Intercooler.>

4) Connect the battery ground terminal. <Ref. to NT-5, BATTERY, NOTE, Note.>

### NOTE:

For models other than STI model, connect the ground terminal to battery sensor.

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