

Hose and Pipe

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

20. Hose and Pipe

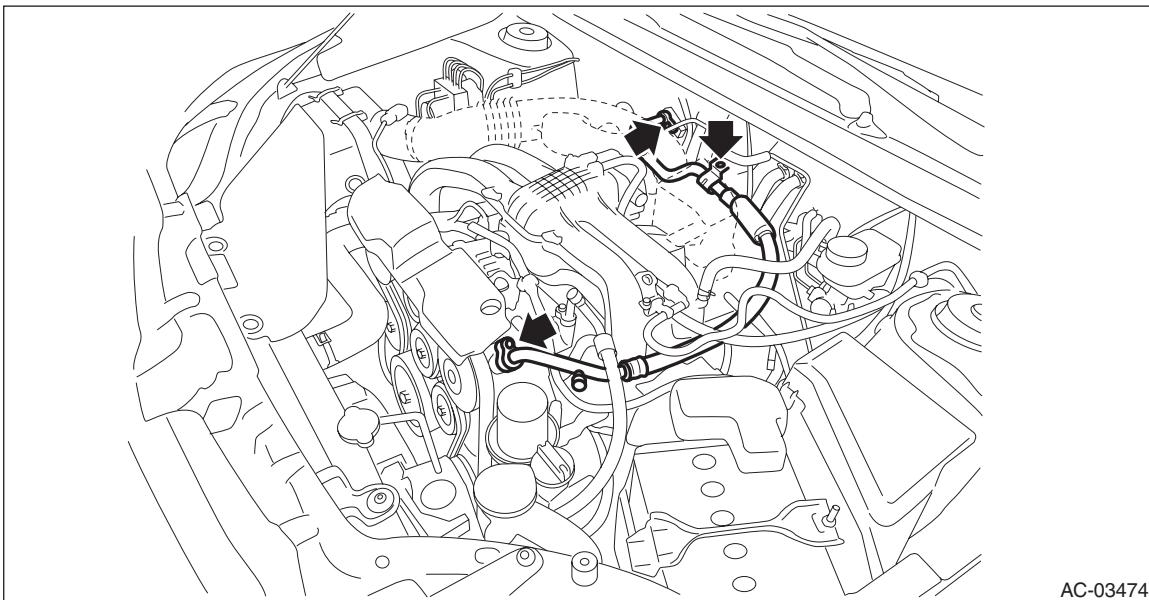
A: REMOVAL

1. LOW-PRESSURE HOSE

- 1) Using the refrigerant recovery system, discharge refrigerant.<Ref. to AC-28, PROCEDURE, Refrigerant Recovery Procedure.>
- 2) Remove the air intake boot. (Non-turbo model)<Ref. to IN(H4DO)-11, REMOVAL, Air Intake Boot.>
- 3) Remove the intercooler. (Turbo model)<Ref. to IN(H4DOTC)-35, REMOVAL, Intercooler.>
- 4) Remove the bolts and remove the hose - pressure suction.

CAUTION:

- Do not apply excessive force to the hose.
- Seal the disconnected hose, compressor and engaging part of expansion valve with a plug or vinyl tape to prevent foreign matter from entering.



2. HIGH-PRESSURE HOSE

1) Using the refrigerant recovery system, discharge refrigerant.<Ref. to AC-28, PROCEDURE, Refrigerant Recovery Procedure.>

2) Remove the reservoir tank.

- Non-turbo model:<Ref. to CO(H4DO)-70, REMOVAL, Reservoir Tank.>

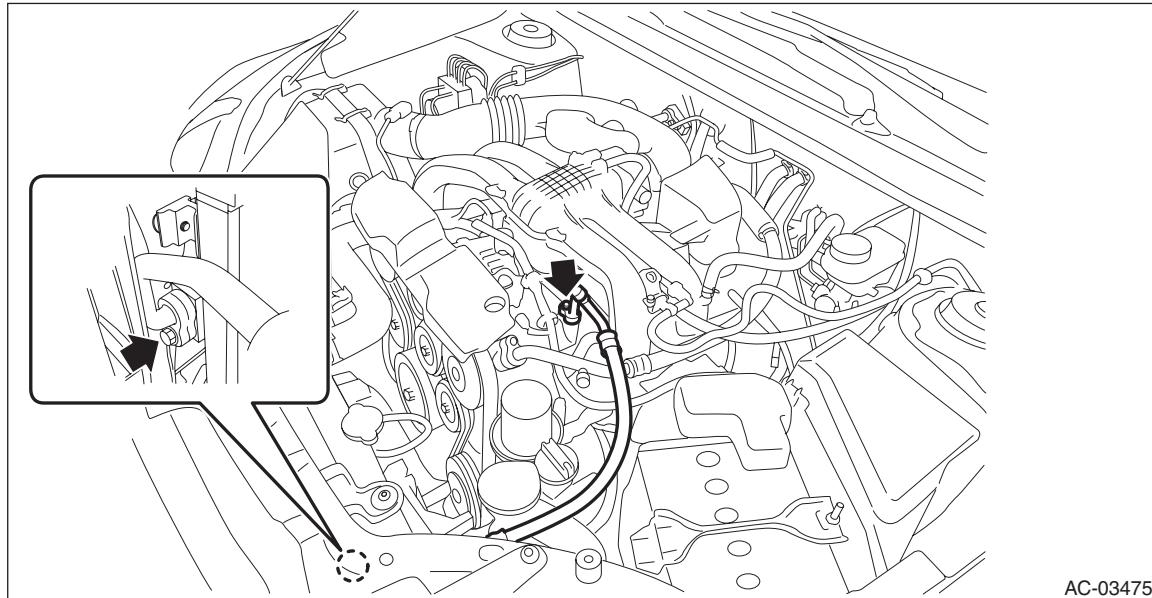
- Turbo model:<Ref. to CO(H4DOTC)-59, REMOVAL, Reservoir Tank.>

3) Remove the bolts and remove the hose - pressure discharge.

CAUTION:

- Do not apply excessive force to the hose.

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

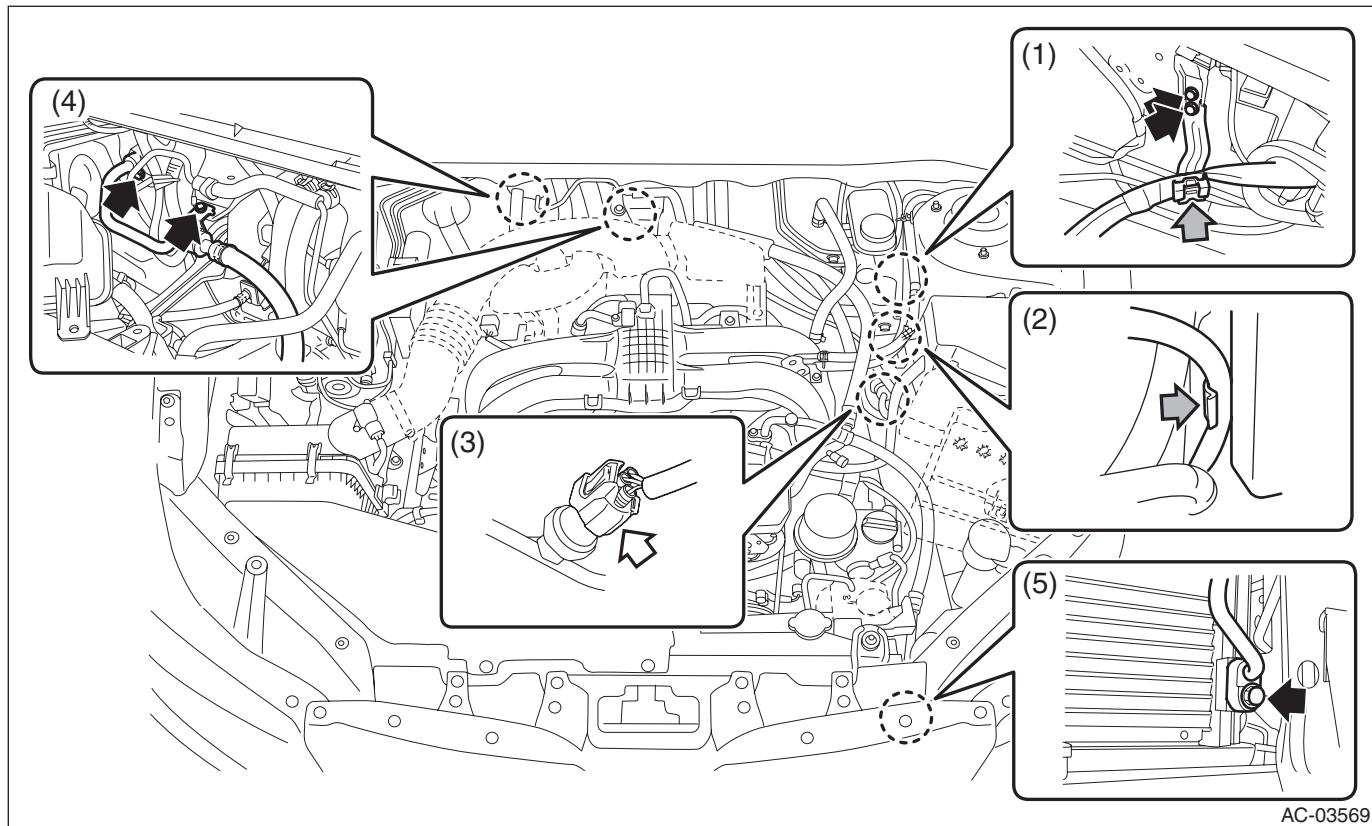


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3. A/C PIPE

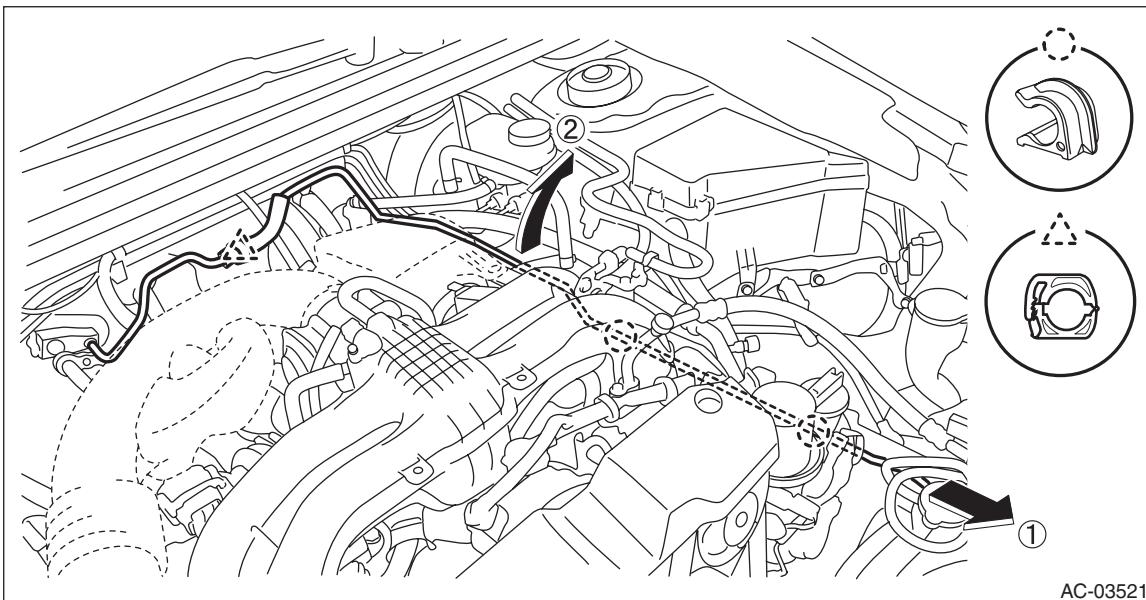
- 1) Using the refrigerant recovery system, discharge refrigerant.<Ref. to AC-28, PROCEDURE, Refrigerant Recovery Procedure.>
- 2) Remove the battery.<Ref. to SC(H4DO)-63, REMOVAL, Battery.>
- 3) Remove the reservoir tank.
 - Non-turbo model:<Ref. to CO(H4DO)-70, REMOVAL, Reservoir Tank.>
 - Turbo model:<Ref. to CO(H4DOTC)-59, REMOVAL, Reservoir Tank.>
- 4) Remove the air intake boot. (Non-turbo model)<Ref. to IN(H4DO)-11, REMOVAL, Air Intake Boot.>
- 5) Remove the intercooler. (Turbo model)<Ref. to IN(H4DOTC)-35, REMOVAL, Intercooler.>
- 6) Remove the pipe - evaporator cooling.
 - (1) Remove the cable clamps and bolts, and remove the battery cable stay.
 - (2) Disconnect the battery sensor harness from the main fuse box.
 - (3) Disconnect the pressure switch connector.
 - (4) Remove the bolts, and detach the hose - pressure suction from the expansion valve - cooling.
 - (5) Remove the bolts, and detach the pipe - evaporator cooling from the condenser assembly - air conditioner.



(6) Remove the pipe - evaporator cooling from the clip - pipe, clip and expansion valve, and remove the pipe - evaporator cooling in numerical order as shown in the figure.

CAUTION:

- Do not apply excessive force to the pipe and hose.
- Seal the engaging parts of disconnected pipe, hose, expansion valve and condenser with a plug or vinyl tape to prevent foreign matter from entering.
- Do not pull the harness and cable forcibly.



B: INSTALLATION

CAUTION:

- If the hose and pipe have been replaced, add an appropriate amount of compressor oil to the compressor.<Ref. to AC-36, ADJUSTMENT, Compressor Oil.>
- Replace the O-rings with new parts, and then apply compressor oil.
- When connecting hoses and pipes, do not apply excessive force. After installing, check that no torsion or excessive tension applied to the hoses.

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

Tightening torque:

Air conditioning unit:<Ref. to AC-12, AIR CONDITIONING UNIT, COMPONENT, General Description.>

Battery cable stay: 7.5 N·m (0.76 kgf-m, 5.5 ft-lb)

Engine harness bracket: 7.5 N·m (0.76 kgf-m, 5.5 ft-lb)

2) Charge refrigerant.<Ref. to AC-29, PROCEDURE, Refrigerant Charging Procedure.>

C: INSPECTION

- 1) Check the hoses for cracks, damage and expansion. Replace the hose if faulty.
- 2) Check the pipes for crack or damage. Replace the pipe if faulty.