

19. Hose and Pipe

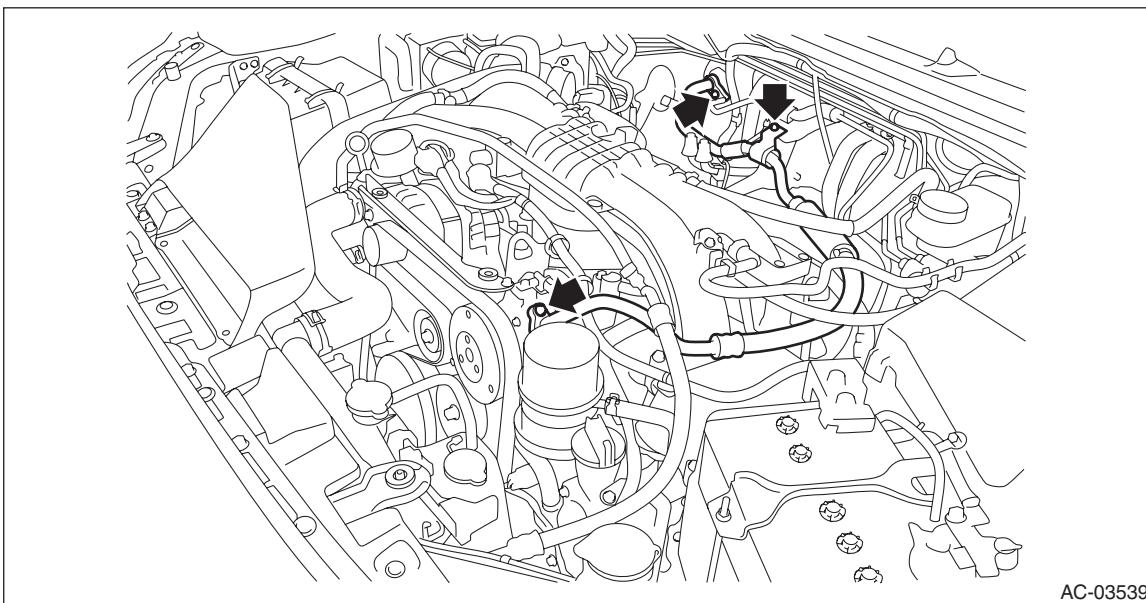
A: REMOVAL

1. LOW-PRESSURE HOSE

- 1) Using the refrigerant recovery system, discharge refrigerant. <Ref. to AC-26, PROCEDURE, Refrigerant Recovery Procedure.>
- 2) 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.>
- 3) Remove the bolts and detach the hose - pressure discharge on the compressor side. (STI model)
- 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-26, PROCEDURE, Refrigerant Recovery Procedure.>
- 2) Remove the reservoir tank.
 - Except for STI model: <Ref. to CO(w/o STI)-52, REMOVAL, Reservoir Tank.>
 - STI model: <Ref. to CO(STI)-27, REMOVAL, Reservoir Tank.>
- 3) Lift up the vehicle.
- 4) Remove the under cover - front. <Ref. to EI-21, REMOVAL, Front Under Cover.>

Hose and Pipe

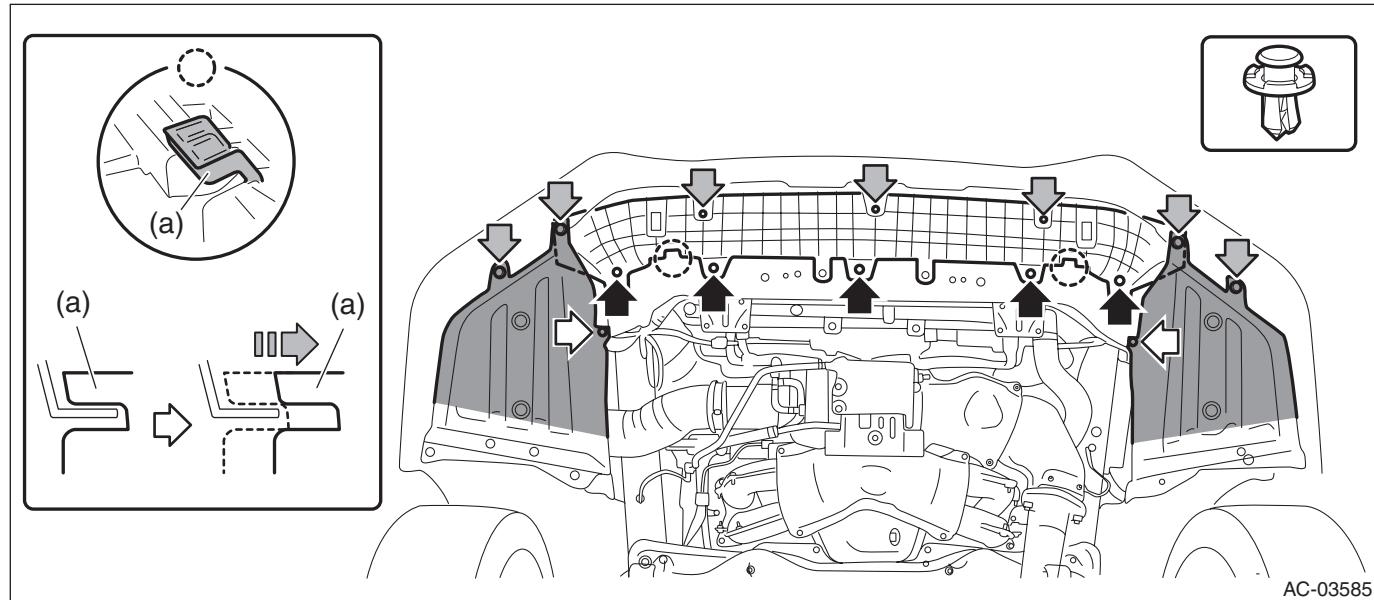
HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

5) Remove the bracket – front center LWR.

- (1) Remove the screw and clips, and turn over the mud guard - front.
- (2) Remove the bolts and clips, and remove the bracket – front center LWR.

NOTE:

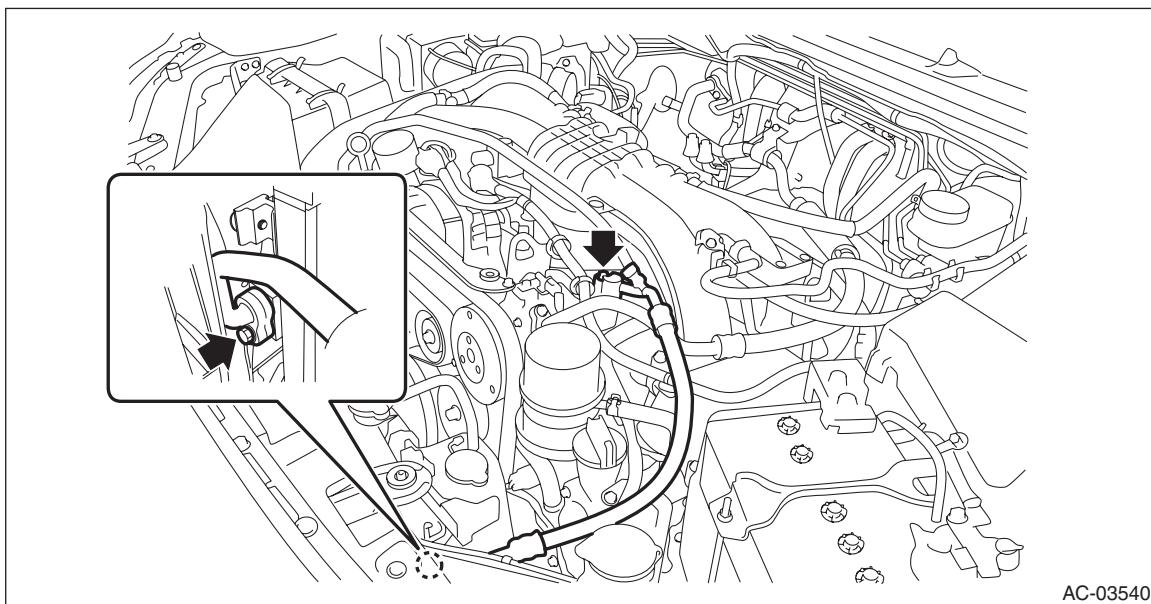
While entirely pushing the bracket – front center LWR forward, remove the two hooks (a) on the left and right.



6) 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.

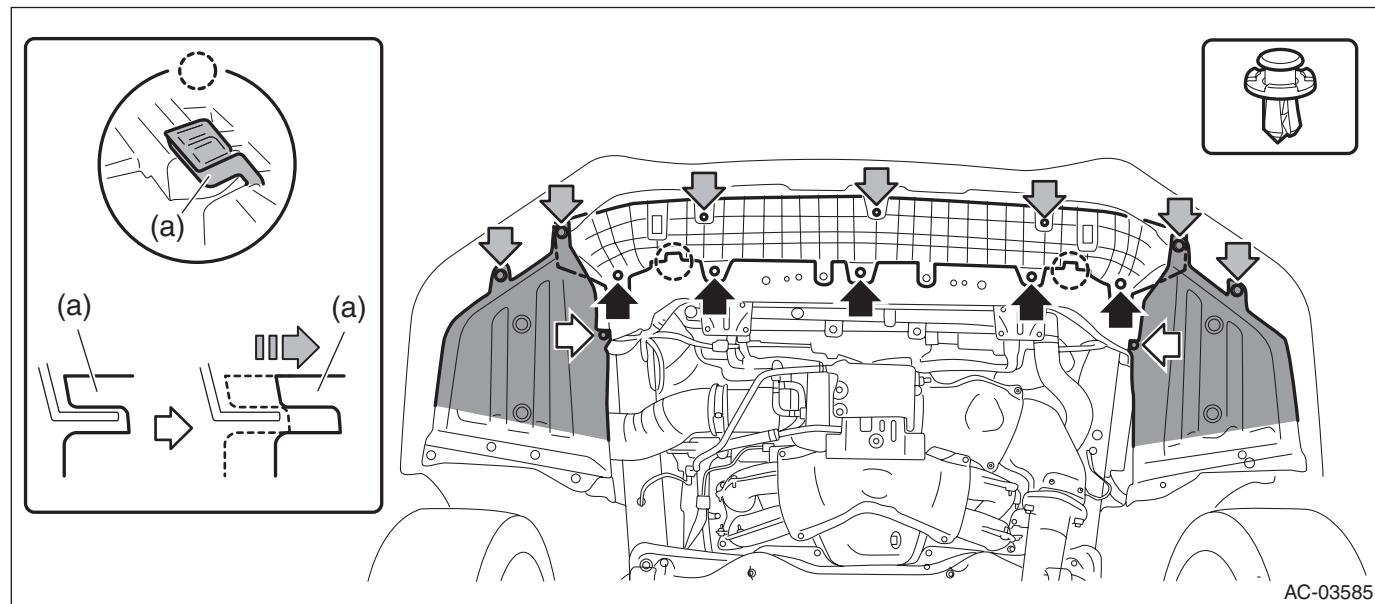


3. A/C PIPE

- 1) Using the refrigerant recovery system, discharge refrigerant. <Ref. to AC-26, PROCEDURE, Refrigerant Recovery Procedure.>
- 2) Remove the battery.
 - Except for STI model: <Ref. to SC(w/o STI)-50, REMOVAL, Battery.>
 - STI model: <Ref. to SC(STI)-21, REMOVAL, Battery.>
- 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) Remove the secondary air pump. (STI model) <Ref. to EC(STI)-53, REMOVAL, Secondary Air Pump.>
- 5) Remove the reservoir tank.
 - Except for STI model: <Ref. to CO(w/o STI)-52, REMOVAL, Reservoir Tank.>
 - STI model: <Ref. to CO(STI)-27, REMOVAL, Reservoir Tank.>
- 6) Lift up the vehicle.
- 7) Remove the under cover - front. <Ref. to EI-21, REMOVAL, Front Under Cover.>
- 8) Remove the bracket – front center LWR.
 - (1) Remove the screw and clips, and turn over the mud guard - front.
 - (2) Remove the bolts and clips, and remove the bracket – front center LWR.

NOTE:

While entirely pushing the bracket – front center LWR forward, remove the two hooks (a) on the left and right.



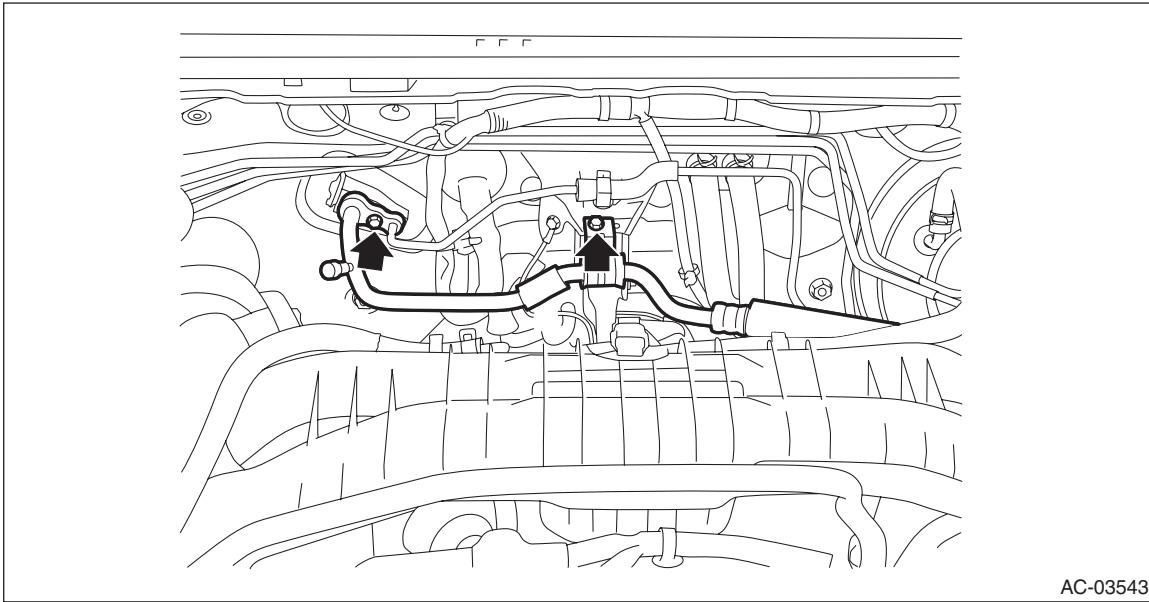
Hose and Pipe

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

9) Remove the bolts and detach the hose - pressure suction.

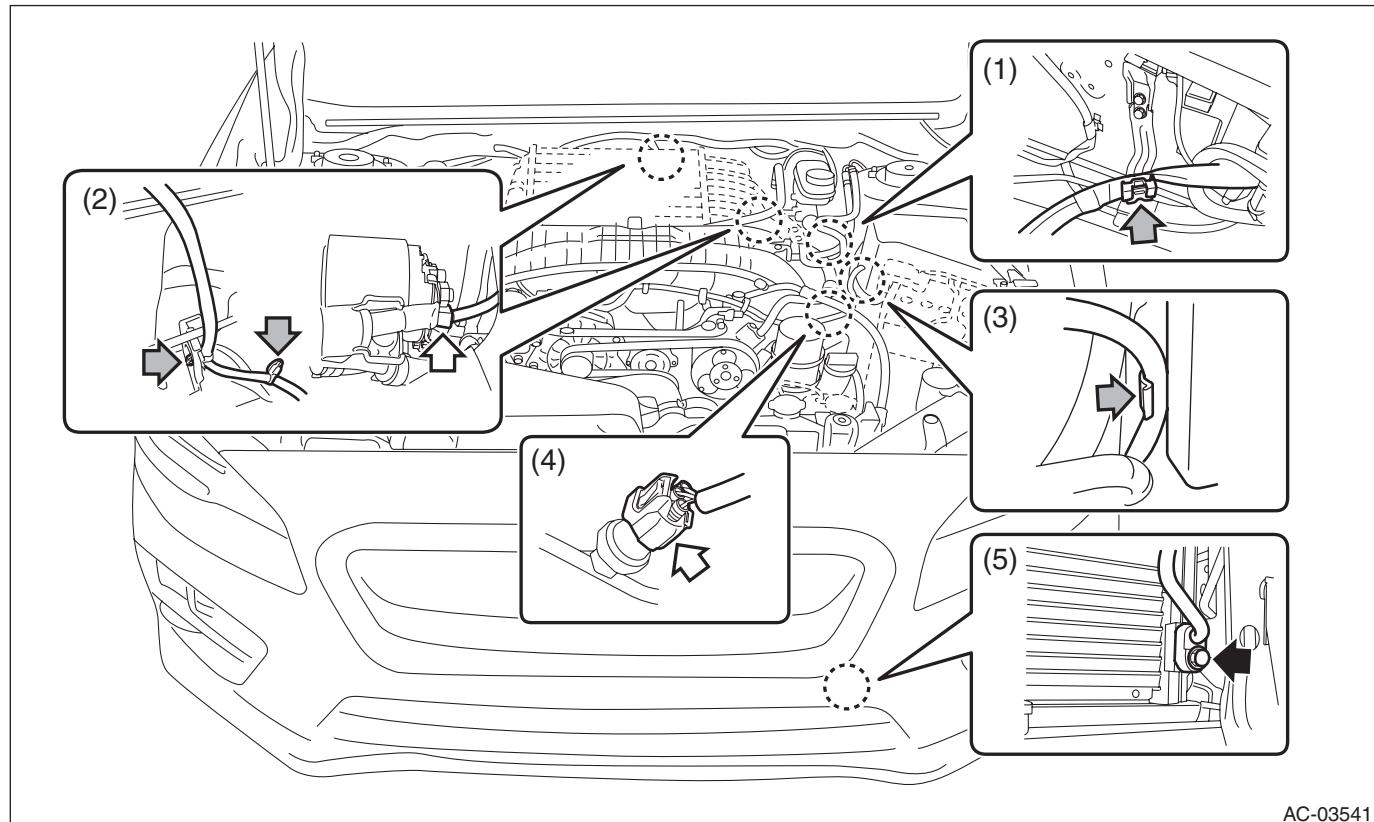
CAUTION:

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



10) Remove the pipe - evaporator cooling.

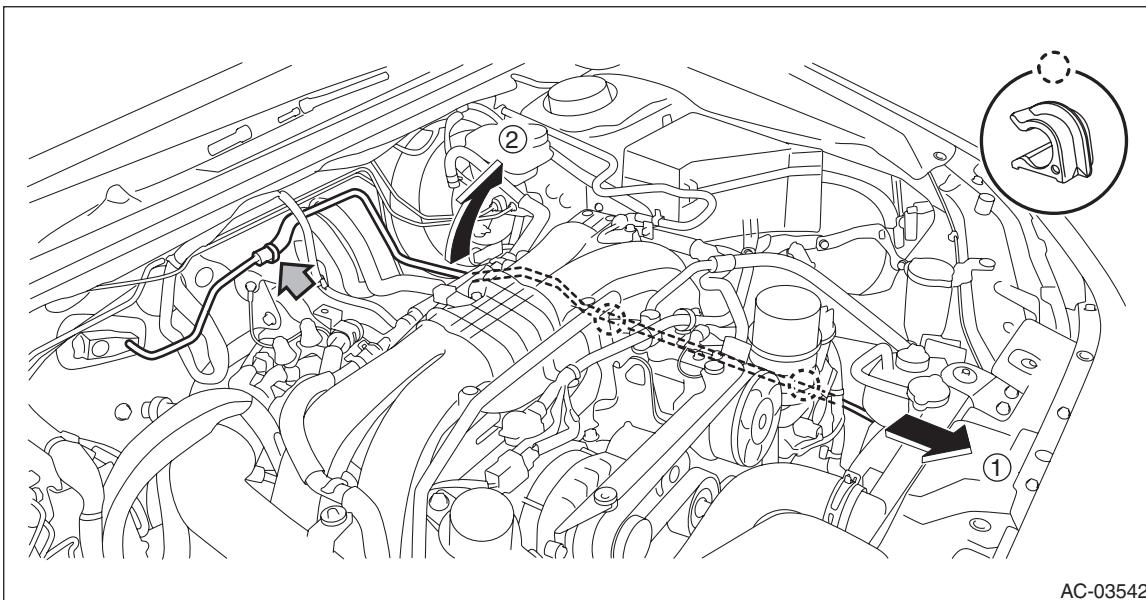
- (1) Release the lock and remove the cable clamp.
- (2) Release the harness clip, and disconnect the starter connector.
- (3) Disconnect the battery sensor harness from the main fuse box. (Except for STI model)
- (4) Disconnect the pressure switch connector.
- (5) Remove the bolt, and detach the pipe - evaporator cooling.



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

CAUTION:

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



B: INSTALLATION

1. LOW-PRESSURE HOSE

CAUTION:

- If the hose has been replaced, add an appropriate amount of compressor oil to the compressor.
<Ref. to AC-34, ADJUSTMENT, Compressor Oil.>
- Replace the O-rings with new parts, and then apply compressor oil.
- When connecting hoses, do not apply an excessive force to them. After installing, check that no torsion or excessive tension applied to the hoses.

1) Install the hose - pressure suction.

Tightening torque:

Air conditioning unit: <Ref. to AC-9, AIR CONDITIONING UNIT, COMPONENT, General Description >

2) Install the hose - pressure suction discharge. (STI model)

Tightening torque:

10 N·m (1.0 kgf·m, 7.4 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) Charge refrigerant. <Ref. to AC-27, PROCEDURE, Refrigerant Charging Procedure.>

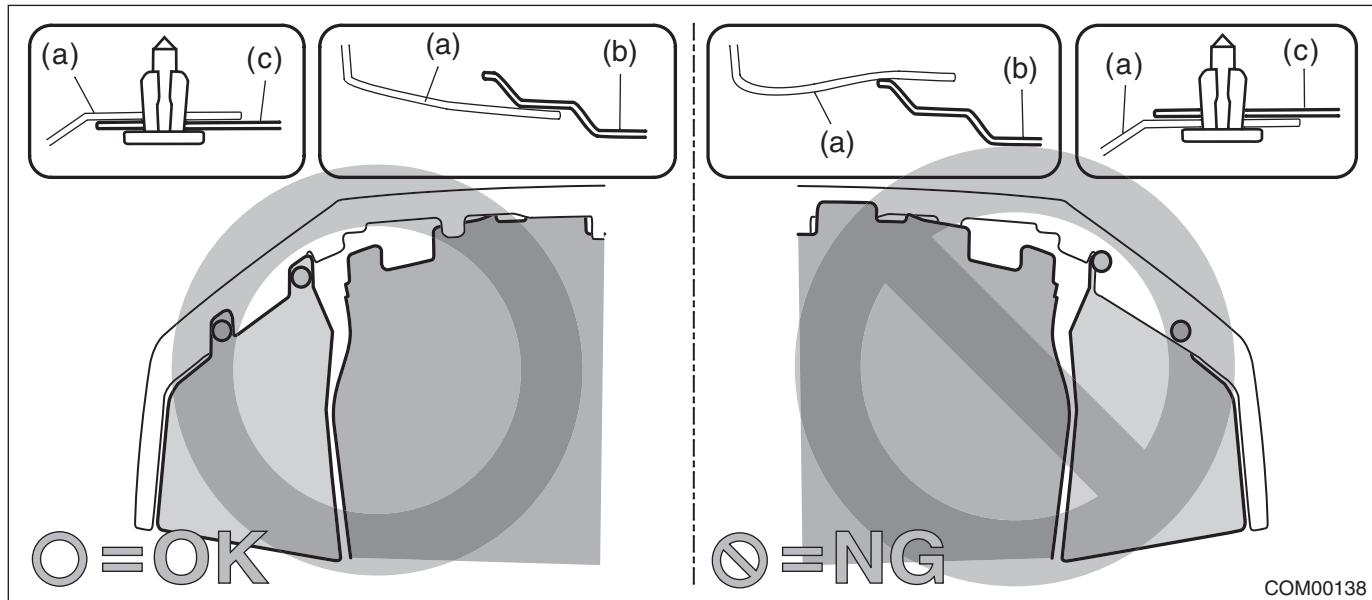
Hose and Pipe

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

2. HIGH-PRESSURE HOSE

CAUTION:

- If the hose has been replaced, add an appropriate amount of compressor oil to the compressor. *<Ref. to AC-34, ADJUSTMENT, Compressor Oil.>*
- Replace the O-rings with new parts, and then apply compressor oil.
- When connecting hoses, do not apply an excessive force to them. After installing, check that no torsion or excessive tension applied to the hoses.
- Install so that the front end of the under cover (b) comes inside the bumper face - front (a), and the front end of the mud guard (c) comes outside the bumper face - front (a).



- 1) Install the hose - pressure suction discharge.

Tightening torque:

Air conditioning unit: *<Ref. to AC-9, AIR CONDITIONING UNIT, COMPONENT, General Description.>*

- 2) Install the bracket - front center LWR.

Tightening torque:

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

- 3) Install the under cover - front.

Tightening torque:

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

- 4) Lower the vehicle.

- 5) Install the reservoir tank.

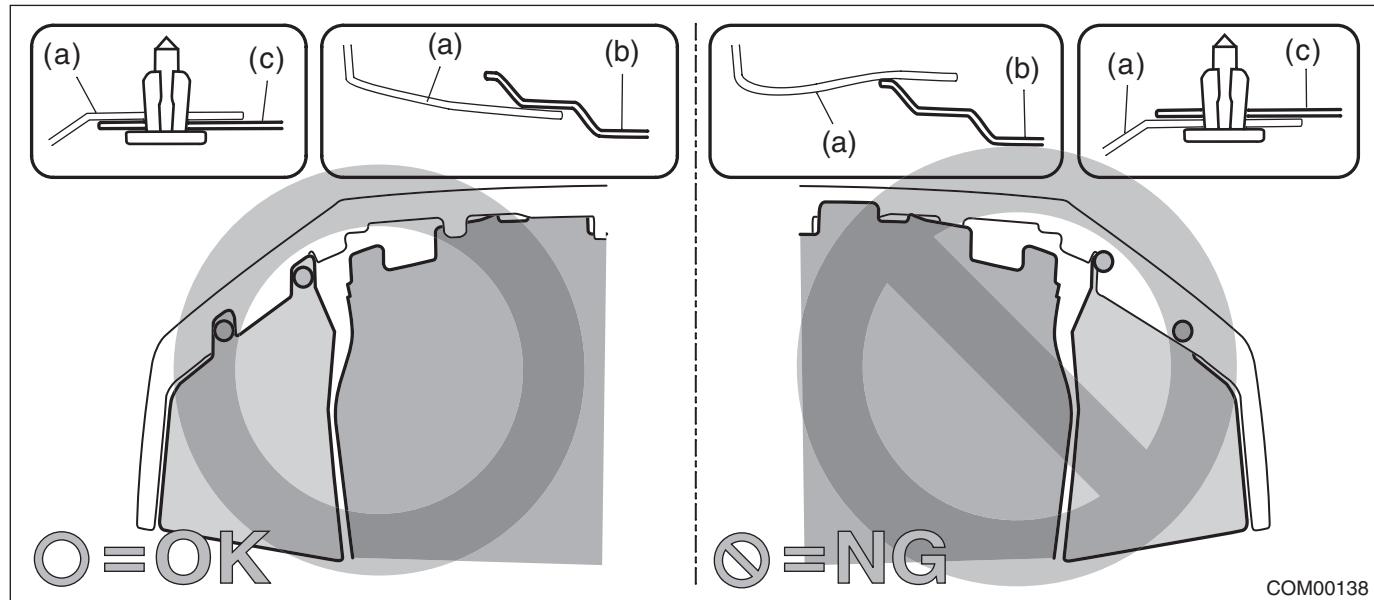
- Except for STI model: *<Ref. to CO(w/o STI)-52, INSTALLATION, Reservoir Tank.>*
- STI model: *<Ref. to CO(STI)-27, INSTALLATION, Reservoir Tank.>*

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

3. A/C PIPE

CAUTION:

- If the hose and pipe have been replaced, add an appropriate amount of compressor oil to the compressor. <Ref. to AC-34, 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.
- Install so that the front end of the under cover (b) comes inside the bumper face - front (a), and the front end of the mud guard (c) comes outside the bumper face - front (a).



1) Install the pipe - evaporator cooling.

Tightening torque:

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

2) Install the hose - pressure suction.

Tightening torque:

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

3) Install the bracket - front center LWR.

Tightening torque:

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

4) Install the under cover - front.

Tightening torque:

18 N·m (1.8 kgf-m, 13.3 ft-lb)

5) Lower the vehicle.

6) Install the reservoir tank.

- Except for STI model: <Ref. to CO(w/o STI)-52, INSTALLATION, Reservoir Tank.>
- STI model: <Ref. to CO(STI)-27, INSTALLATION, Reservoir Tank.>

7) Install the secondary air pump. (STI model) <Ref. to EC(STI)-53, INSTALLATION, Secondary Air Pump.>

8) 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.>

9) Install the battery.

- Except for STI model: <Ref. to SC(w/o STI)-50, INSTALLATION, Battery.>
- STI model: <Ref. to SC(STI)-21, INSTALLATION, Battery.>

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

Hose and Pipe

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

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.