

# CVTF Cooler Pipe and Hose

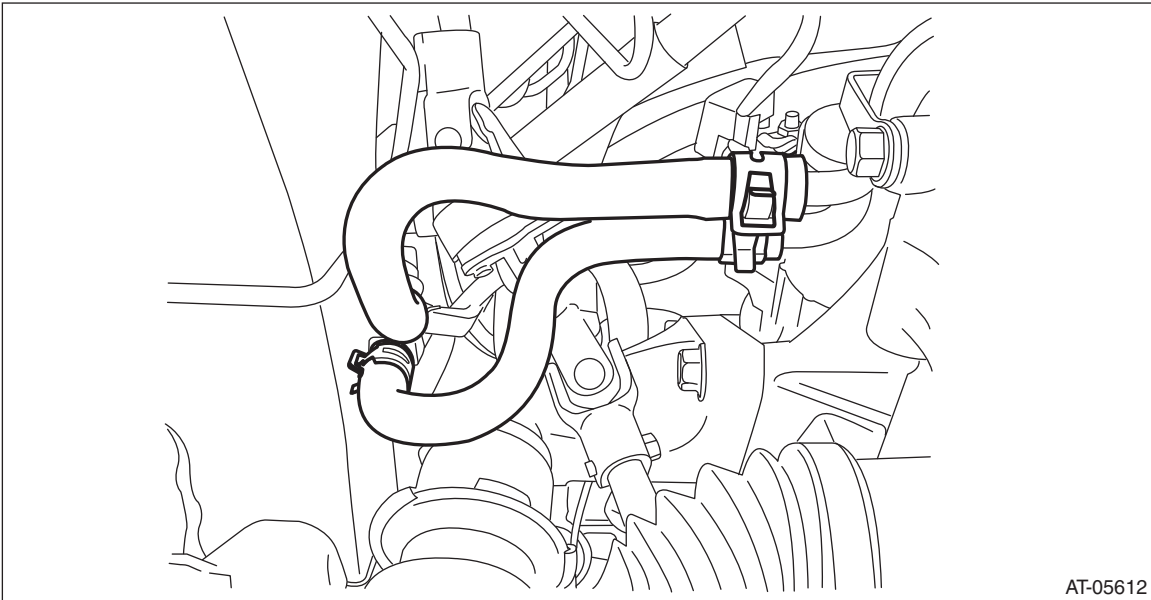
CONTINUOUSLY VARIABLE TRANSMISSION

## 23.CVTF Cooler Pipe and Hose

### A: REMOVAL

#### CAUTION:

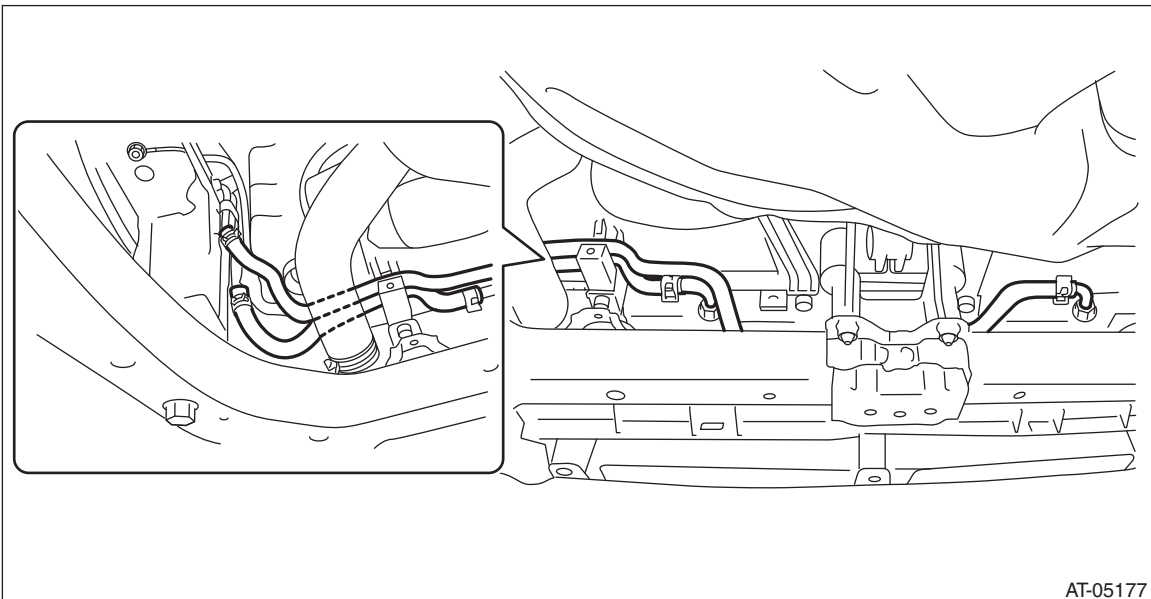
- Immediately after the vehicle has been running or after idling for a long time, the CVTF will be hot. Be careful not to burn yourself.
  - If the CVTF is spilt over exhaust pipe, wipe it off with cloth to avoid emitting smoke or causing a fire.
  - When removing the CVTF cooler pipe assembly on vehicle side, be careful not to bend the A/C pipe.
- 1) Lift up the vehicle.
  - 2) Remove the under cover.
  - 3) Remove the CVTF inlet hose and CVTF outlet hose.



- 4) Lift up the vehicle.
- 5) Remove the inlet hose and outlet hose on radiator side.

#### CAUTION:

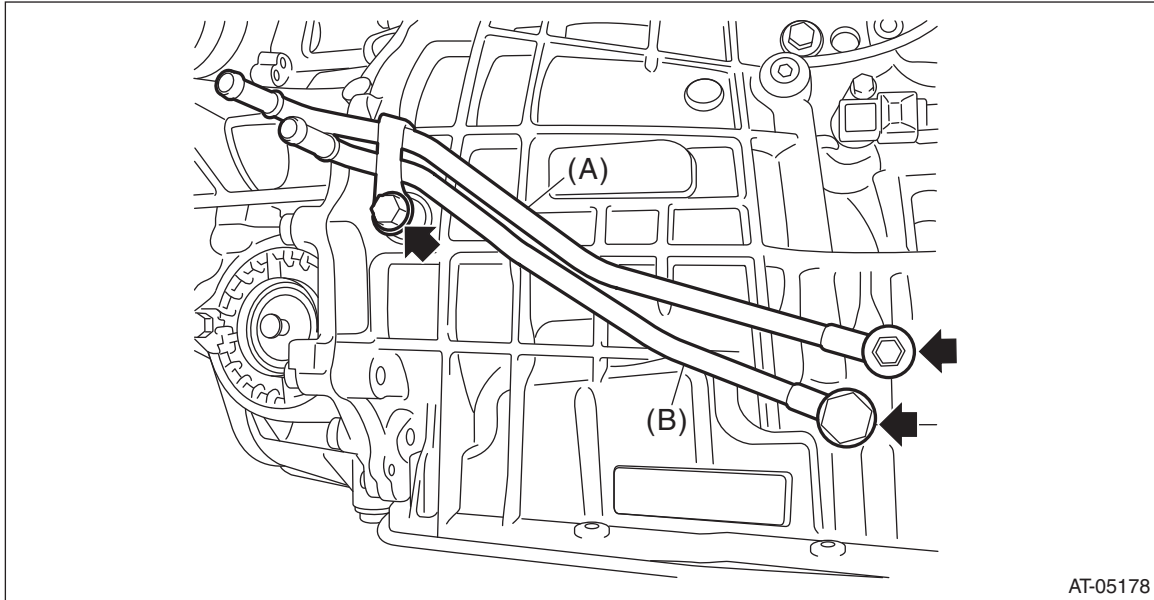
Do not use a screwdriver or other pointed tools.



## CVTF Cooler Pipe and Hose

CONTINUOUSLY VARIABLE TRANSMISSION

6) Remove the CVTF inlet pipe and CVTF outlet pipe.



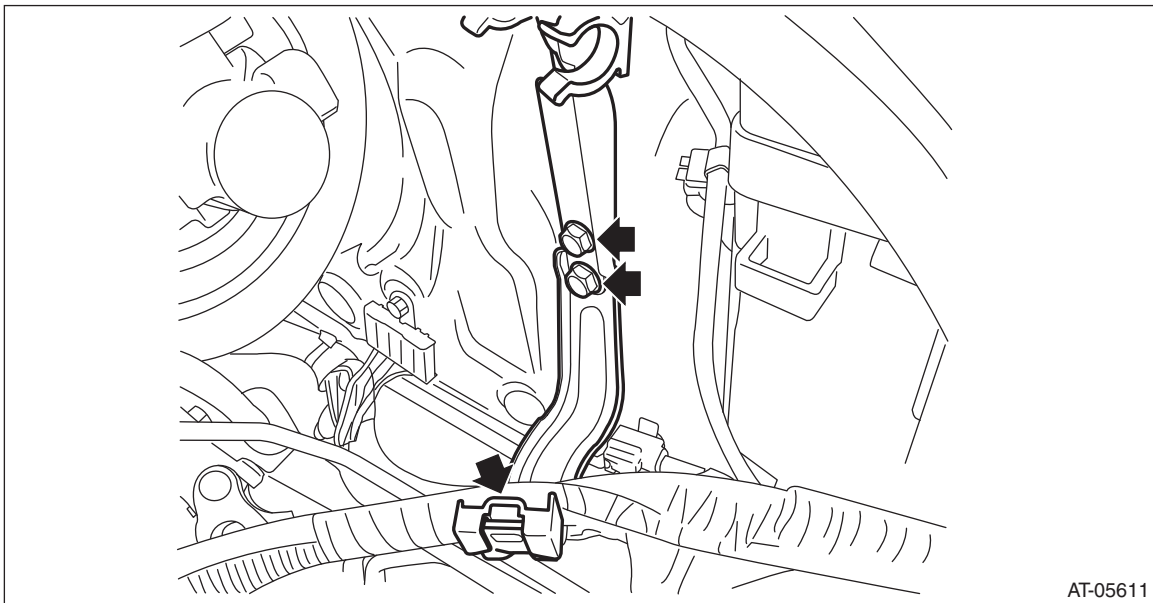
(A) CVTF outlet pipe

(B) CVTF inlet pipe

7) Lower the vehicle.

8) Remove the battery.

9) Remove the battery cable clip from the bracket, and remove the battery cable bracket.



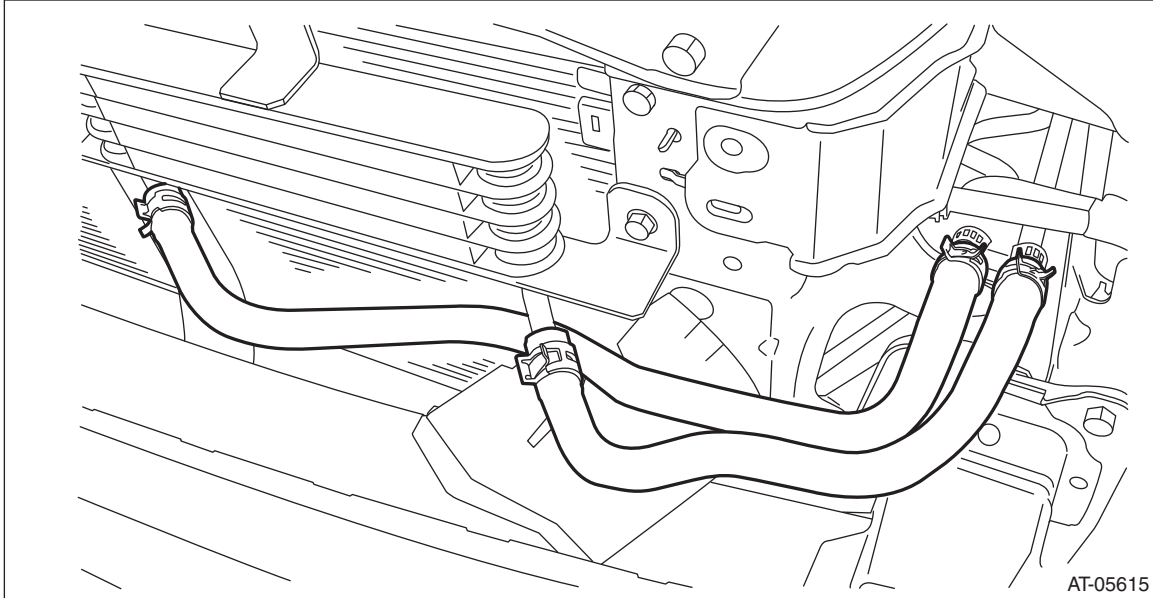
10) Remove the front bumper. (OUTBACK model) <Ref. to EI-39, REMOVAL, Front Bumper.>

11) Remove the headlight assembly (LH). (OUTBACK model) <Ref. to LI-26, REMOVAL, Headlight Assembly.>

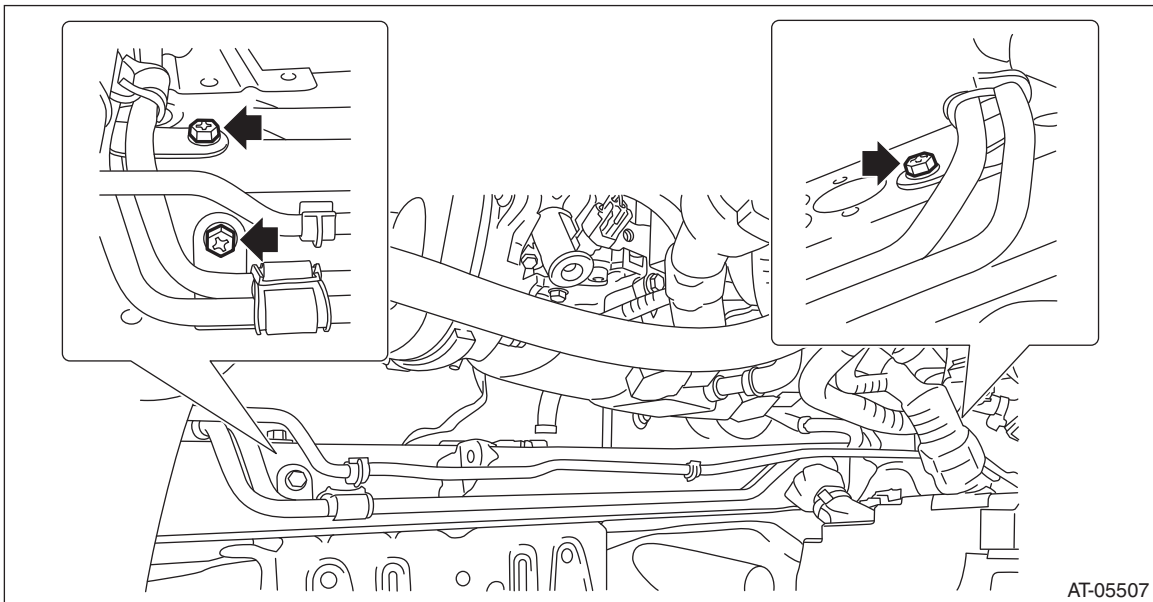
## CVTF Cooler Pipe and Hose

CONTINUOUSLY VARIABLE TRANSMISSION

12) Remove the inlet hose and outlet hose. (OUTBACK model)



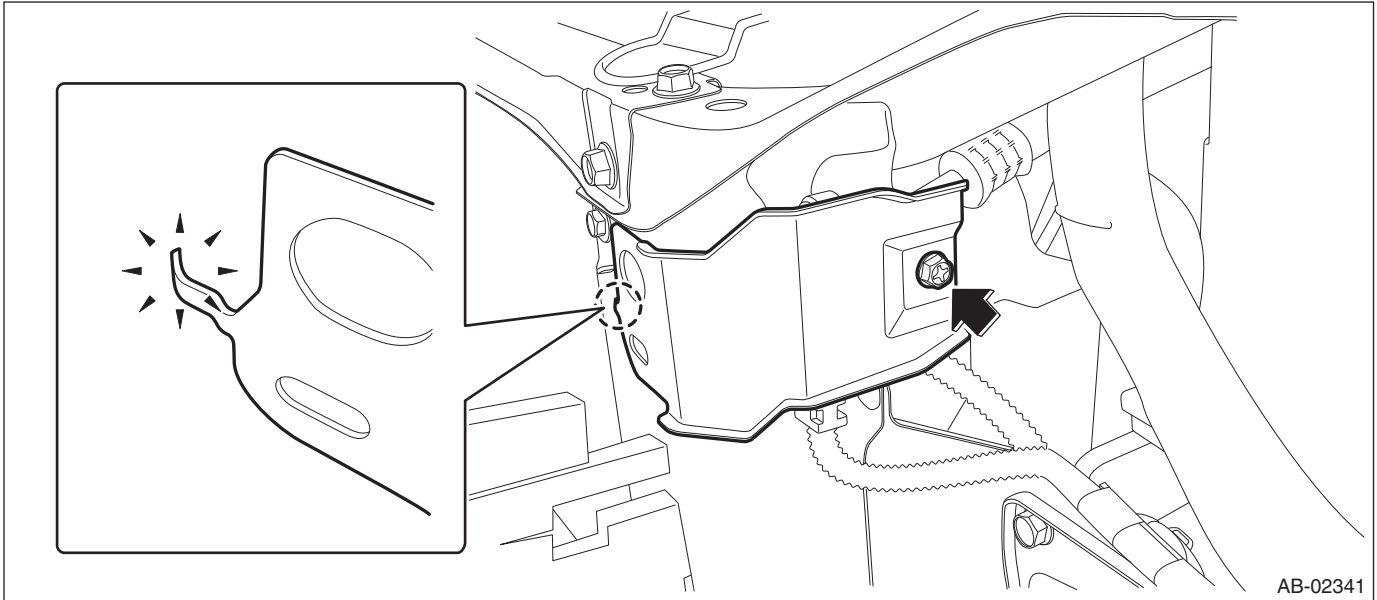
13) Remove the CVTF cooler pipe assembly mounting bolt.



# CVTF Cooler Pipe and Hose

CONTINUOUSLY VARIABLE TRANSMISSION

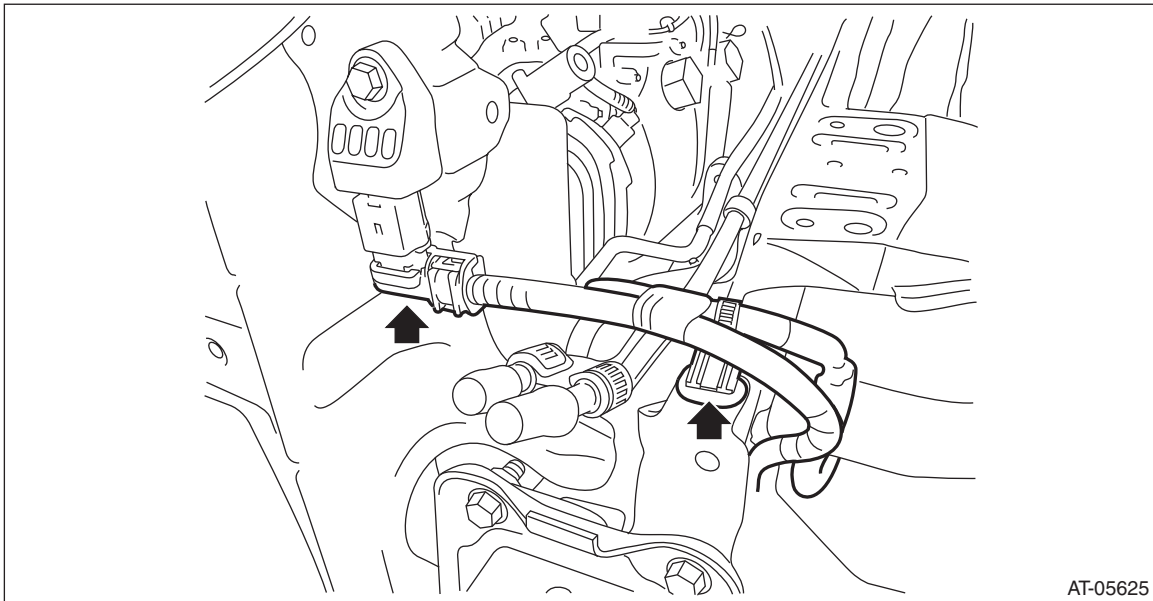
14) Remove the sensor cover plate. (OUTBACK model)



15) Remove the front sub sensor harness connector and front harness clip from the vehicle, and route them under the CVTF cooler pipe assembly. (OUTBACK model)

**CAUTION:**

Refer to “CAUTION” of “General Description” before replacing the front sub sensor harness connector. <Ref. to AB-9, CAUTION, General Description.>

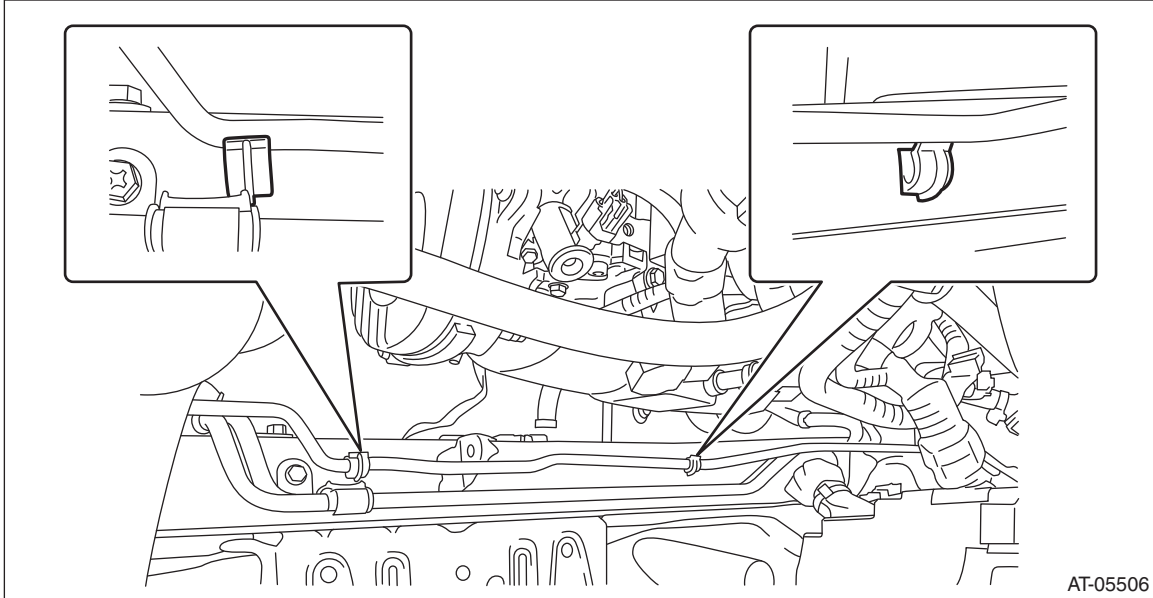


## CVTF Cooler Pipe and Hose

CONTINUOUSLY VARIABLE TRANSMISSION

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16) Detach the A/C pipe from clip.



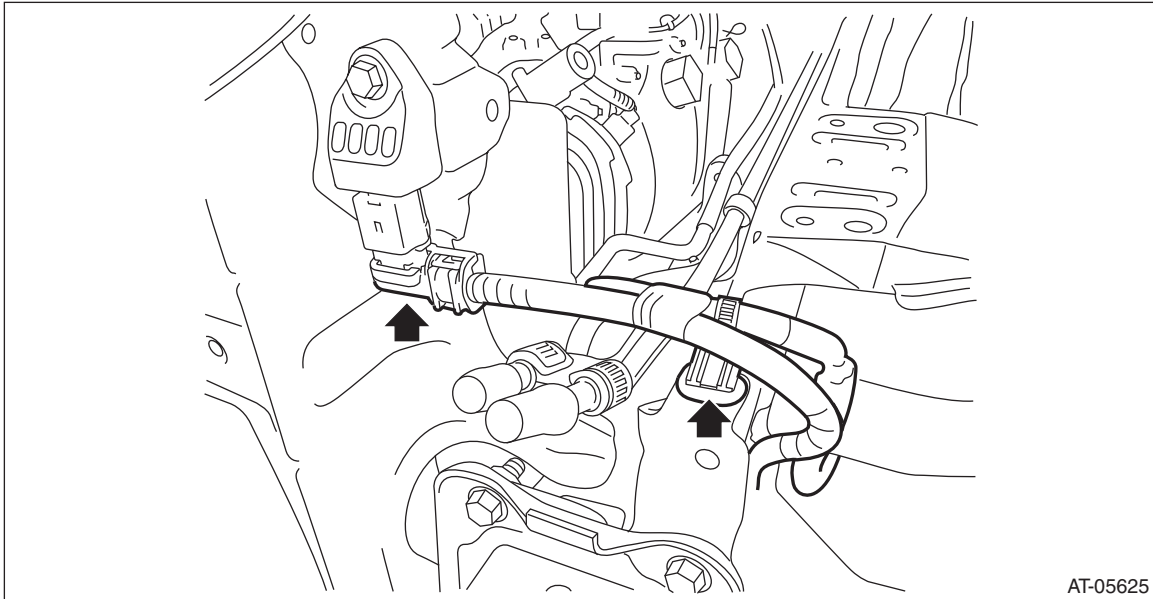
17) Remove the CVTF cooler pipe assembly from the vehicle.

## B: INSTALLATION

### CAUTION:

When installing the CVTF cooler pipe assembly on vehicle side, be careful not to bend the A/C pipe.

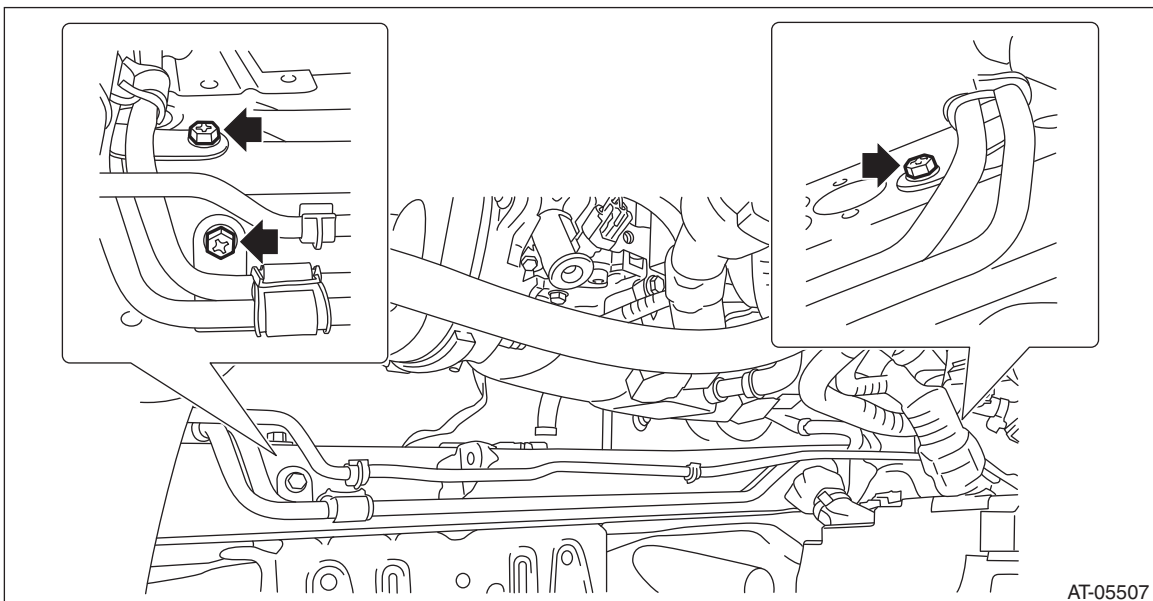
- 1) Temporarily attach the CVTF cooler pipe assembly to vehicle.
- 2) Route the front harness above the CVTF cooler pipe assembly, and install the harness clip to the vehicle, and connect the front sub sensor harness connector. (OUTBACK model)



- 3) Attach the sensor cover plate. (OUTBACK model) <Ref. to AB-73, INSTALLATION, Front Sub Sensor.>
- 4) Fix the CVTF cooler pipe assembly to vehicle.

### Tightening torque:

**7.5 N·m (0.76 kgf·m, 5.5 ft·lb)**



- 5) Install the A/C pipe to clip.

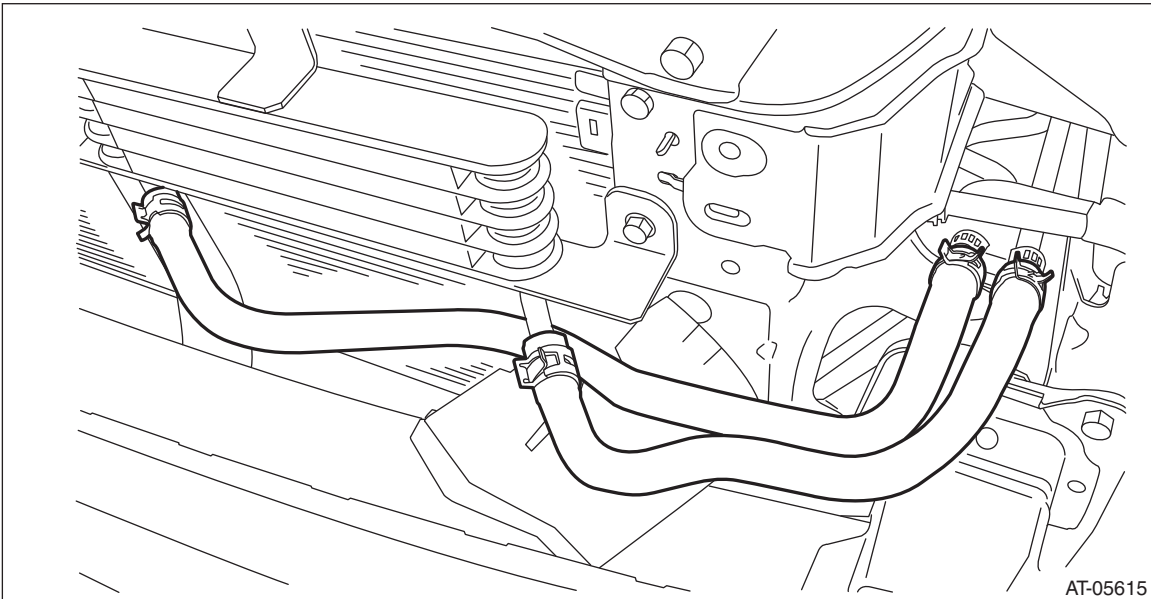
## CVTF Cooler Pipe and Hose

CONTINUOUSLY VARIABLE TRANSMISSION

6) Install the inlet hose and outlet hose. (OUTBACK model)

**NOTE:**

Use the new inlet hose and outlet hose.



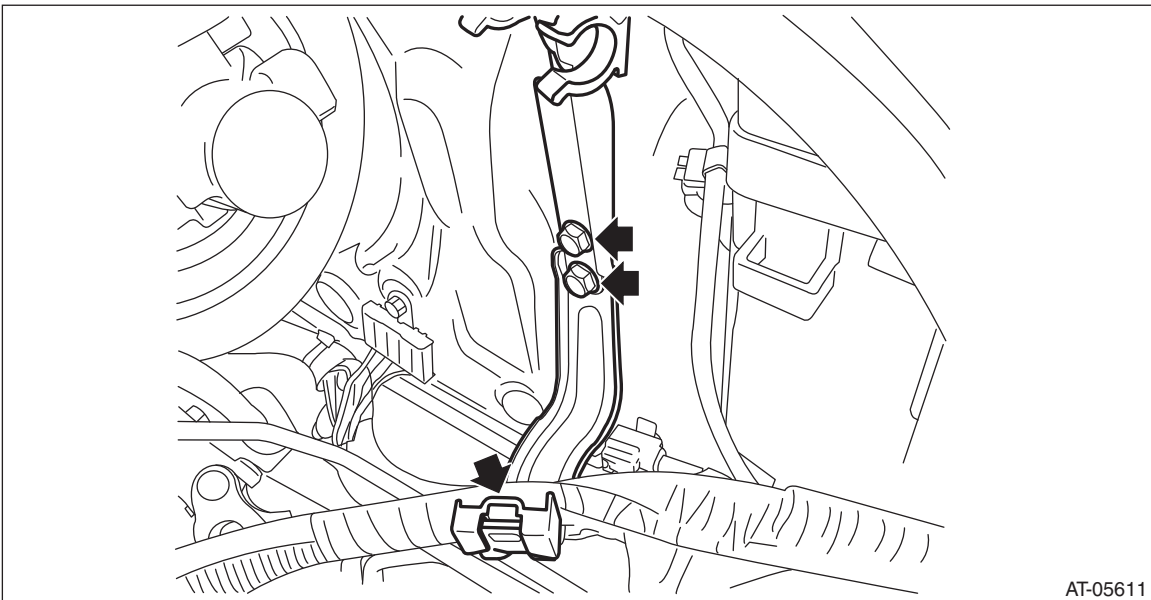
7) Install the headlight assembly (LH). (OUTBACK model) <Ref. to LI-28, INSTALLATION, Headlight Assembly.>

8) Install the front bumper. (OUTBACK model) <Ref. to EI-44, INSTALLATION, Front Bumper.>

9) Install the battery cable bracket, and install the battery cable clip to the bracket.

**Tightening torque:**

**7.5 N·m (0.76 kgf-m, 5.5 ft-lb)**



10) Lift up the vehicle.



# CVTF Cooler Pipe and Hose

CONTINUOUSLY VARIABLE TRANSMISSION

11) Install the CVTF inlet pipe and CVTF outlet pipe.

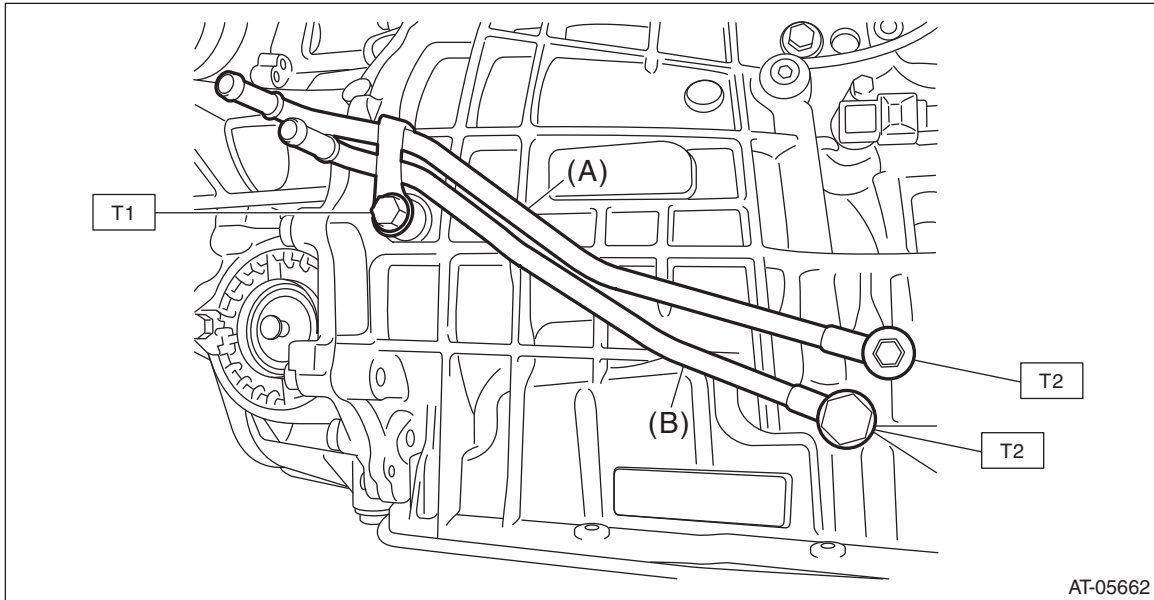
NOTE:

Use a new gasket.

**Tightening torque:**

**T1: 16 N·m (1.6 kgf-m, 11.8 ft-lb)**

**T2: 40 N·m (4.1 kgf-m, 29.5 ft-lb)**



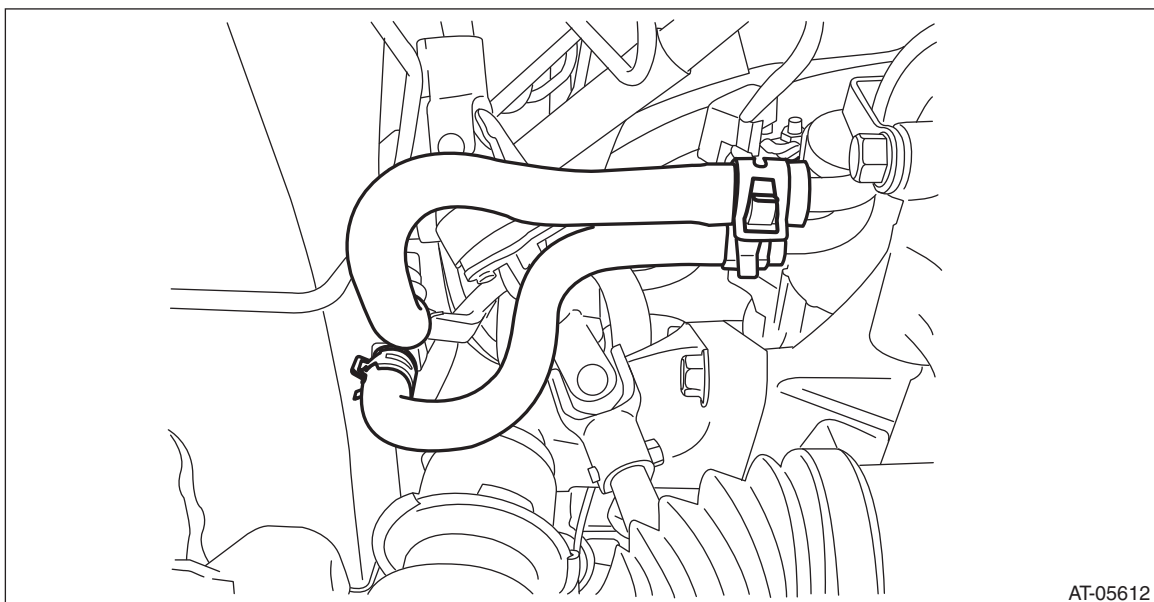
(A) CVTF outlet pipe

(B) CVTF inlet pipe

12) Install the CVTF inlet hose and CVTF outlet hose.

NOTE:

Use the new CVTF inlet hose and CVTF outlet hose.





## CVTF Cooler Pipe and Hose

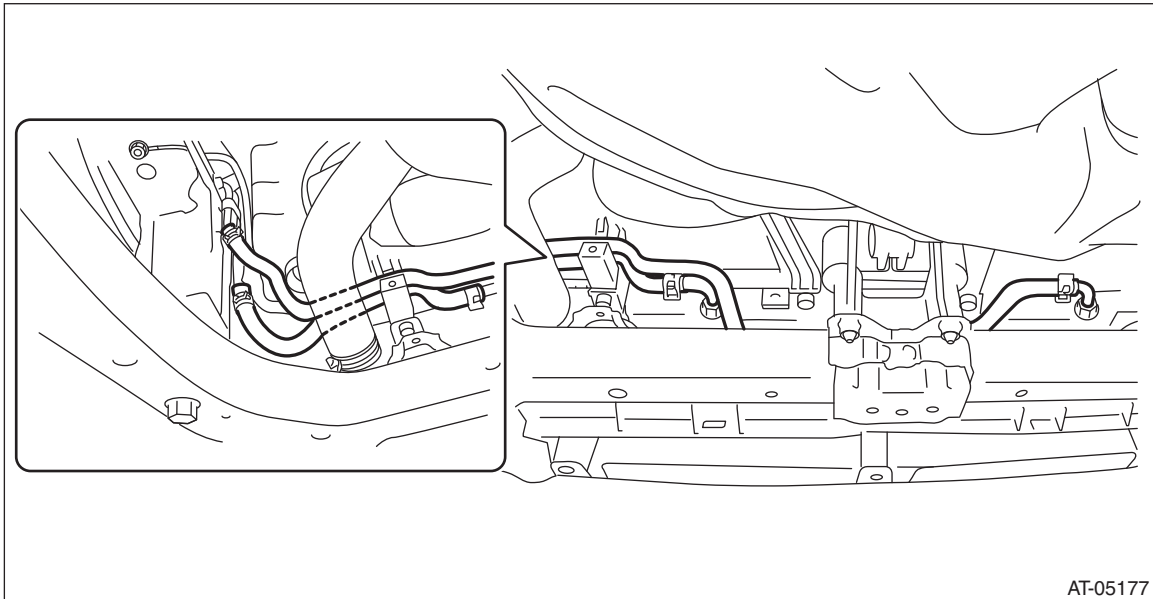
### CONTINUOUSLY VARIABLE TRANSMISSION

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13) Install the inlet hose and outlet hose on radiator side.

#### NOTE:

Use the new inlet hose and outlet hose.



14) Install the under cover.

15) Lower the vehicle.

16) Install the battery.

17) Adjust the CVTF level and check there is no leakage. <Ref. to CVT-35, ADJUSTMENT, CVTF.>

### C: INSPECTION

Repair or replace any faulty hoses, pipes, clamps, and washers found in the inspection below.

- Check for CVTF leaks in joints between the transmission, radiator, CVTF oil cooler (OUTBACK model), pipes, and hoses.
- Check the clamp for deformation.
- Lightly bend the hose and check for cracks in the surface or other damages.
- Pinch the hose with your fingers and check for poor elasticity. Also check for poor elasticity in the parts where the clamp was installed by pressing with your fingernail.
- Check for peeling, cracks, and deformation at the tip of the hose.