

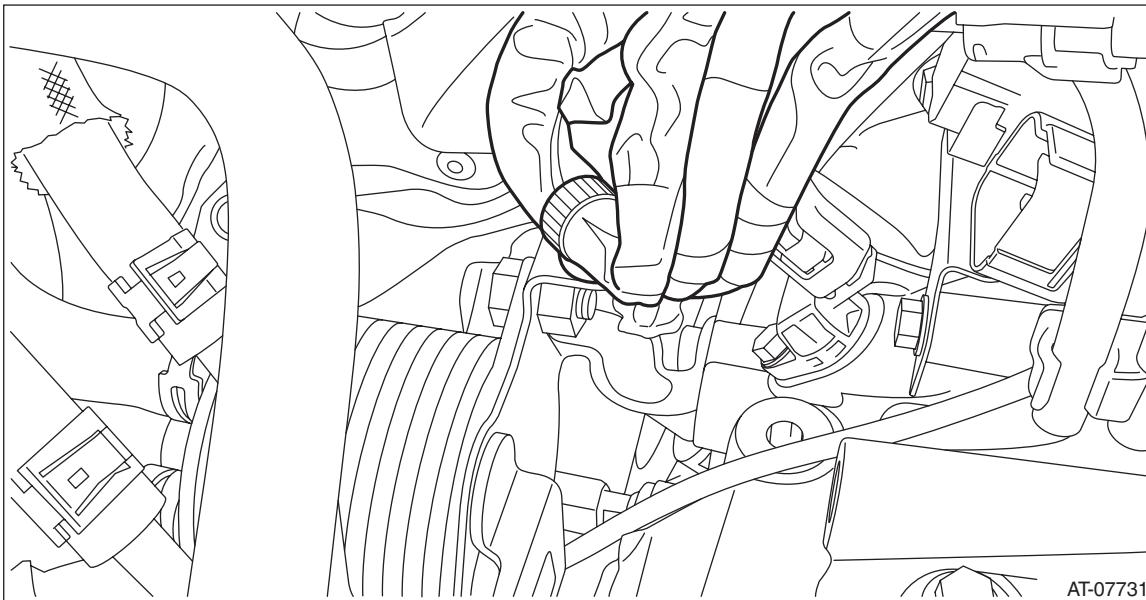
## 23. CVTF Cooler (With Warmer Function)

### A: REMOVAL

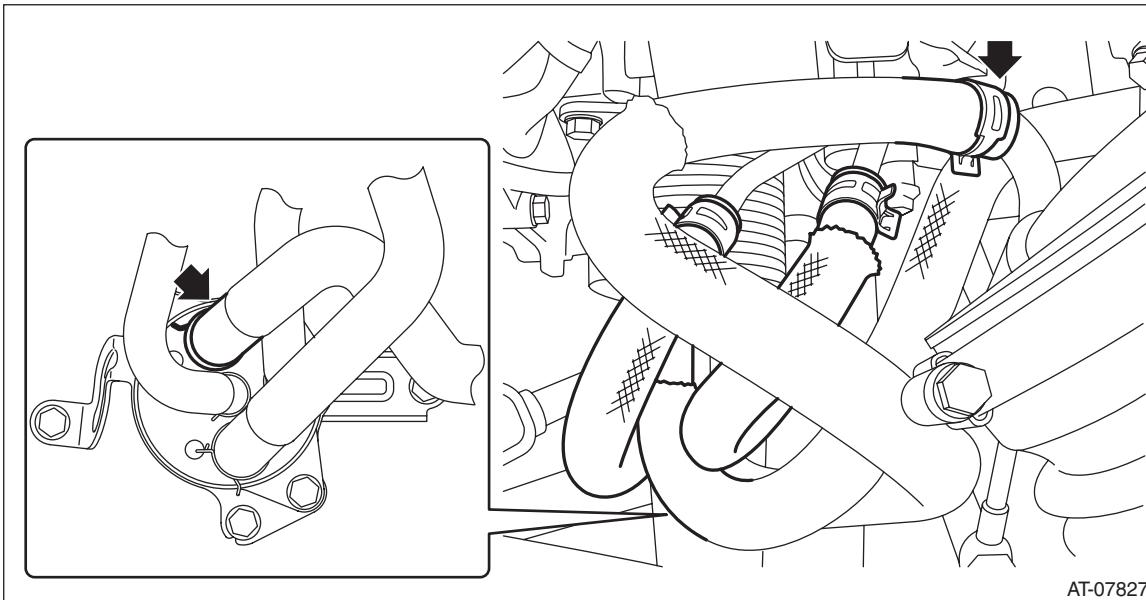
**CAUTION:**

If the CVTF and engine coolant is spilt over exhaust pipe, wipe it off with cloth to avoid emitting smoke or causing a fire.

- 1) Disconnect the ground terminal from battery sensor. <Ref. to NT-5, BATTERY, NOTE, Note.>
- 2) Drain engine coolant. <Ref. to CO(w/o STI)-13, REPLACEMENT, Engine Coolant.>
- 3) Remove the intercooler. <Ref. to IN(w/o STI)-38, REMOVAL, Intercooler.>
- 4) Remove the harness clip from the CVTF cooler bracket.



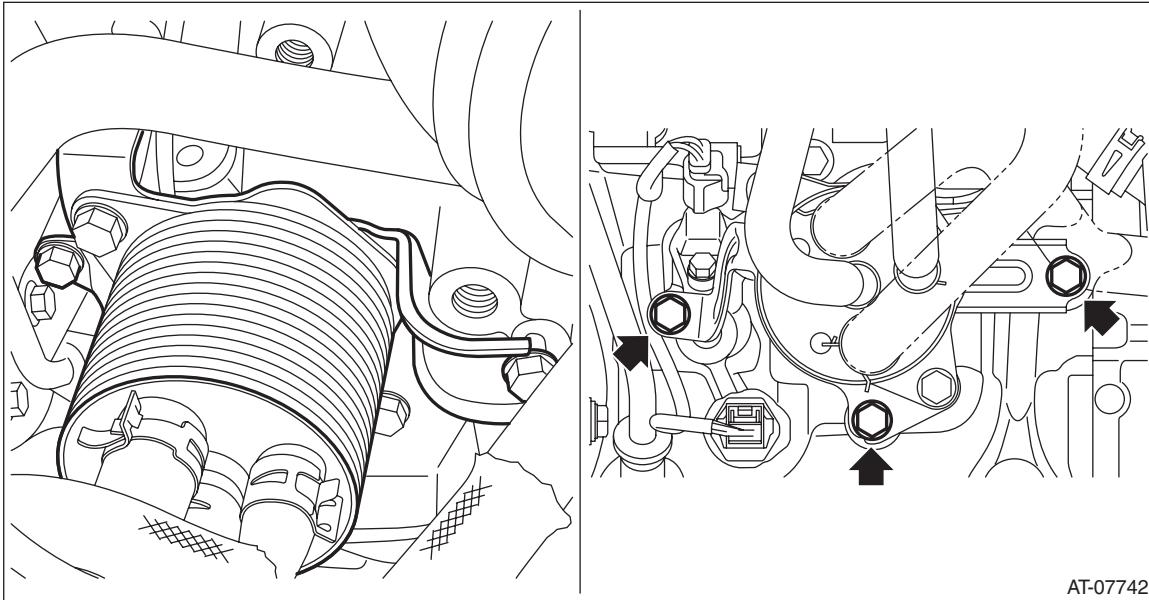
- 5) Remove the engine coolant outlet hose, engine coolant inlet hose, CVTF inlet hose and CVTF outlet hose.



## CVTF Cooler (With Warmer Function)

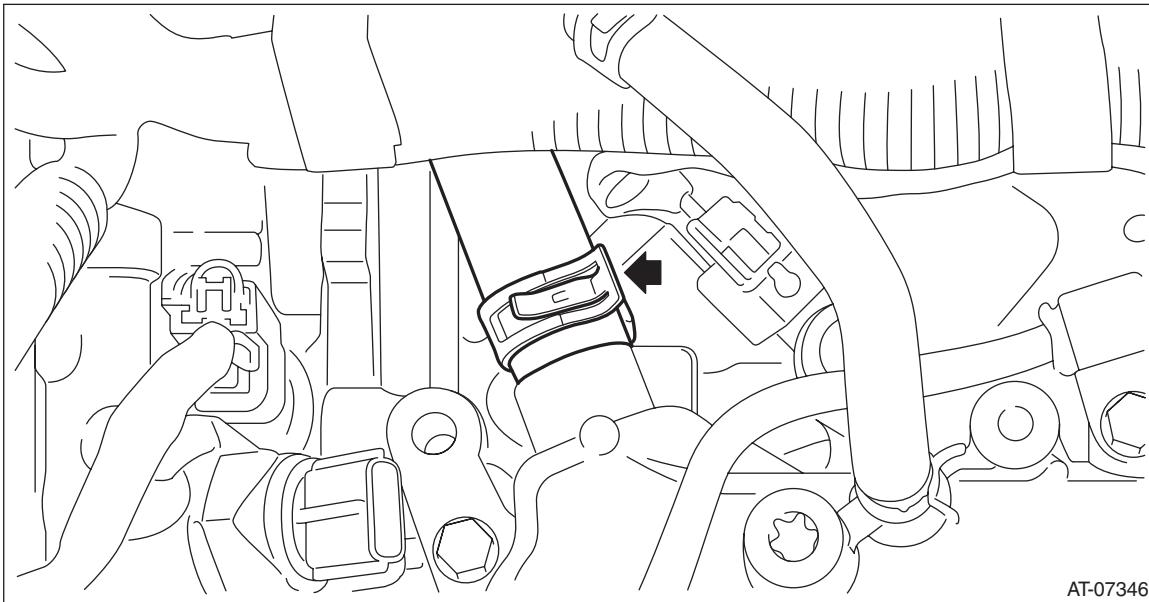
### CONTINUOUSLY VARIABLE TRANSMISSION

6) Remove the CVTF cooler (with warmer feature) from the transmission.



7) Remove the intake manifold, EGR valve, and the insulator. <Ref. to FU(w/o STI)-18, REMOVAL, Intake Manifold.> <Ref. to EC(w/o STI)-35, REMOVAL, EGR Control Valve.>

8) Disconnect the engine coolant inlet hose.

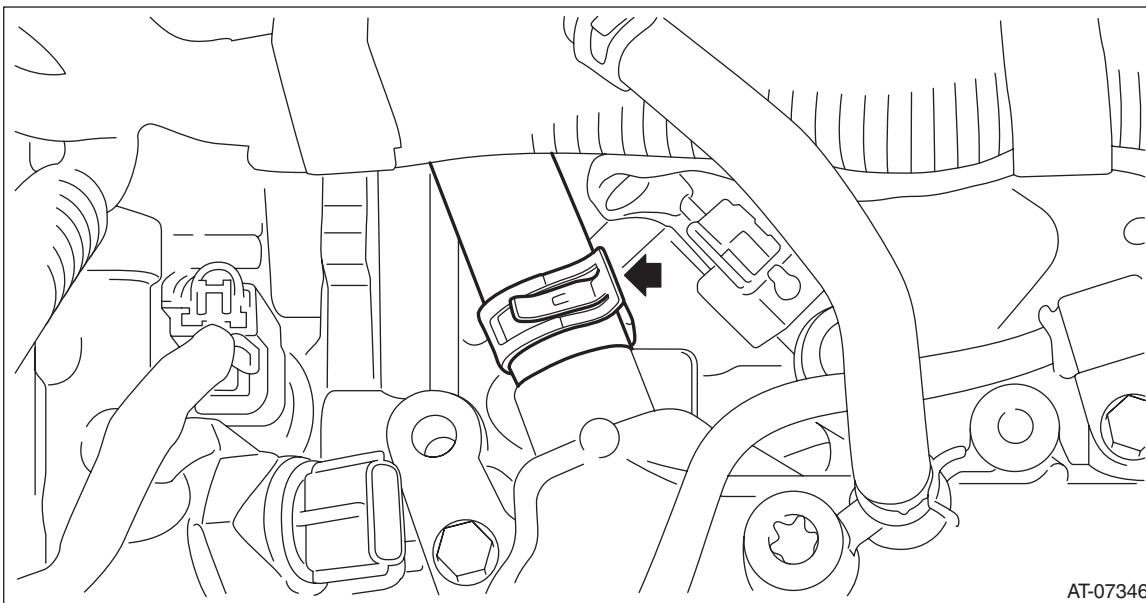


### B: INSTALLATION

- 1) Connect the engine coolant inlet hose.

NOTE:

When installing the engine coolant inlet hose, the triangle marking should face upward.



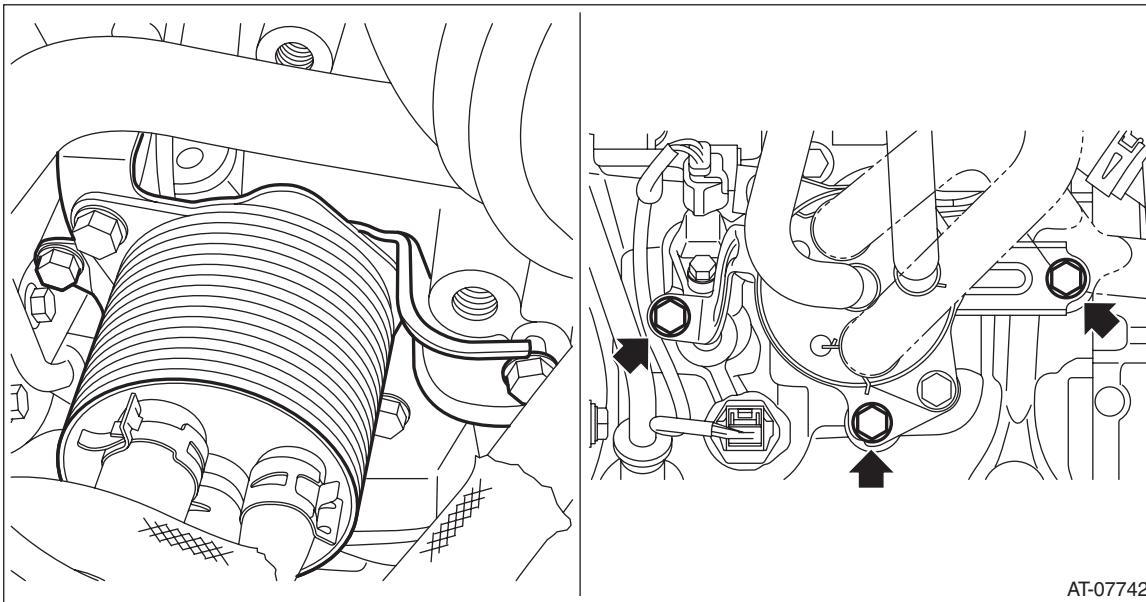
- 2) Install the insulator, EGR valve, and the intake manifold. <Ref. to FU(w/o STI)-29, INSTALLATION, Intake Manifold.> <Ref. to EC(w/o STI)-36, INSTALLATION, EGR Control Valve.>

- 3) Replace the CVTF inlet hose and the outlet hose.

- 4) Install the CVTF cooler (with warmer feature) to the transmission.

**Tightening torque:**

23 N·m (2.3 kgf·m, 17.0 ft-lb)



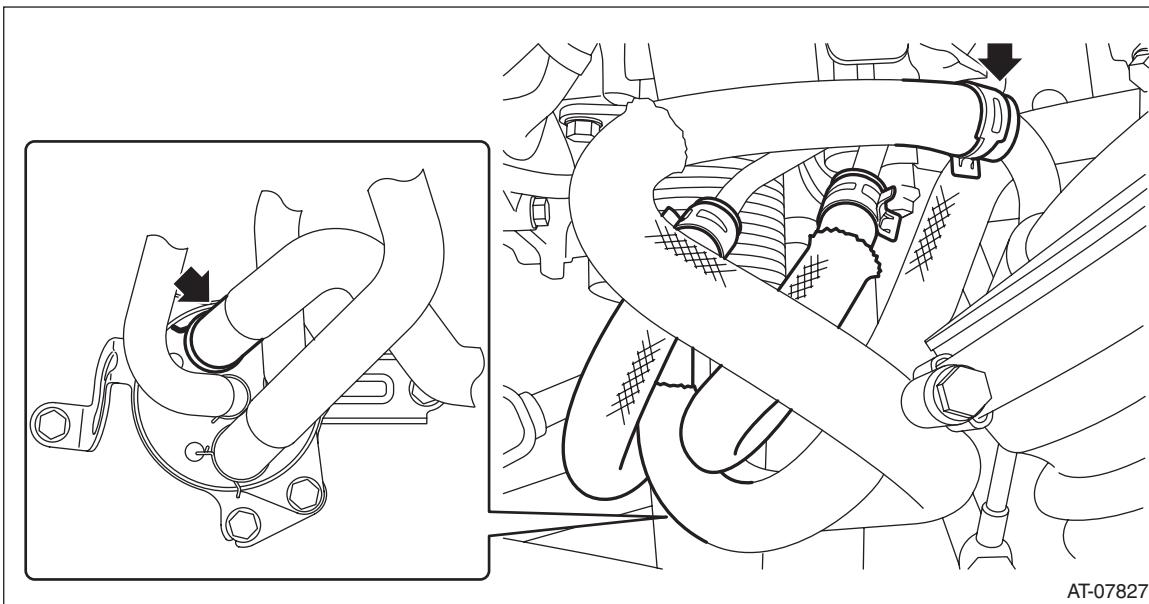
## CVTF Cooler (With Warmer Function)

### CONTINUOUSLY VARIABLE TRANSMISSION

5) Install the engine coolant outlet hose, engine coolant inlet hose, CVTF inlet hose and CVTF outlet hose.

NOTE:

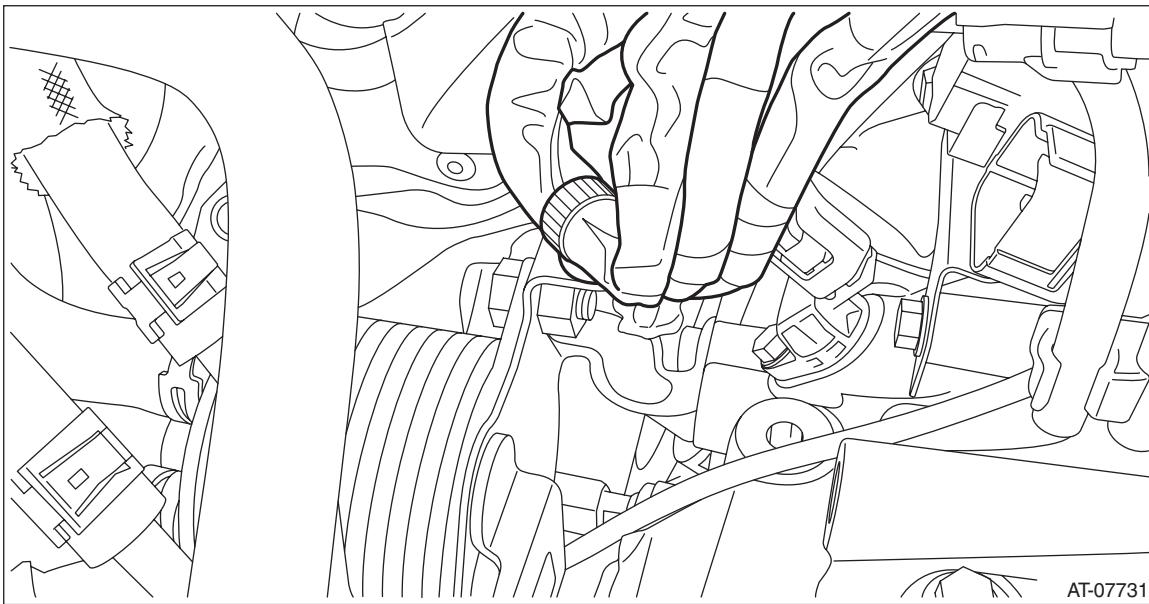
Use new CVTF hoses.



6) Check installation condition of hoses.

- Make sure the hoses do not interfere with each other or with other components.
- Check each hose for bent, excess curve, and twisting conditions.

7) Install the harness clip to the CVTF cooler bracket.



8) Install the intercooler. <Ref. to IN(w/o STI)-41, INSTALLATION, Intercooler.>

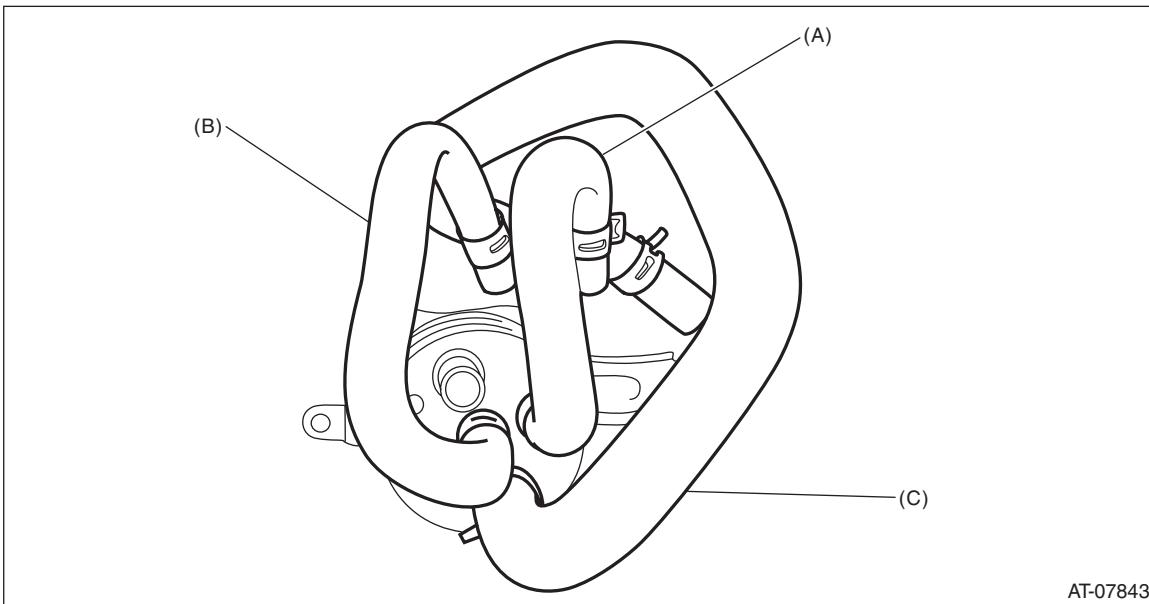
9) Connect the ground terminal to battery sensor. <Ref. to NT-5, BATTERY, NOTE, Note.>

10) Fill engine coolant. <Ref. to CO(w/o STI)-13, REPLACEMENT, Engine Coolant.>

11) Adjust the CVTF level. <Ref. to CVT(TR690)-36, ADJUSTMENT, CVTF.>

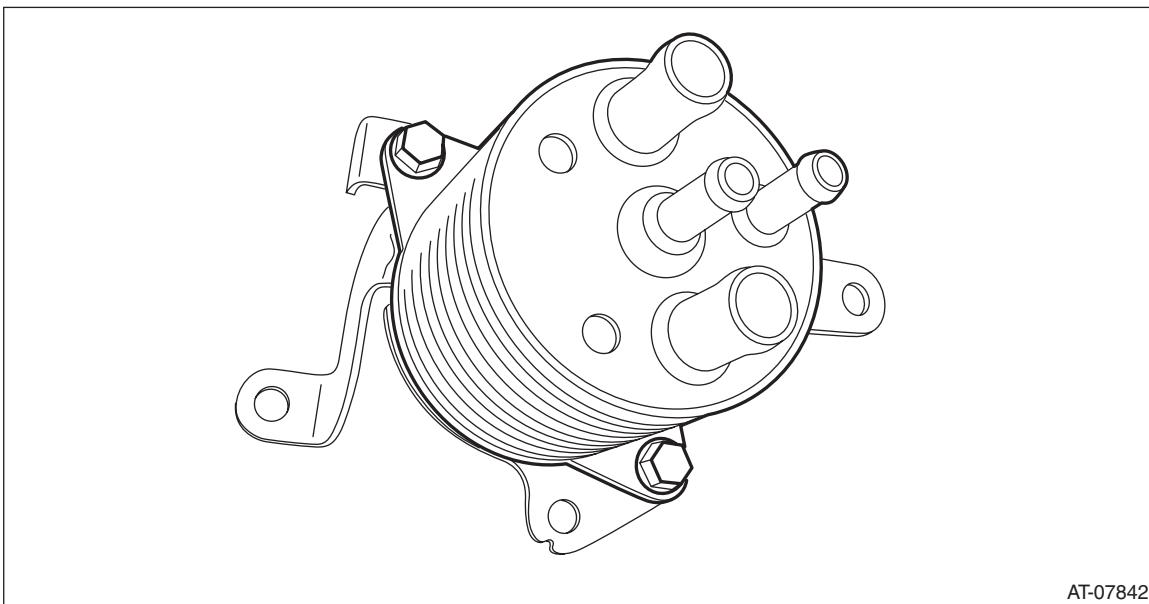
### C: DISASSEMBLY

- 1) Remove the hoses from the CVTF cooler (with warmer feature).



- (A) CVTF cooler outlet hose
- (B) CVTF cooler inlet hose
- (C) Engine coolant outlet hose

- 2) Remove the bracket from the CVTF cooler (with warmer feature).



# CVTF Cooler (With Warmer Function)

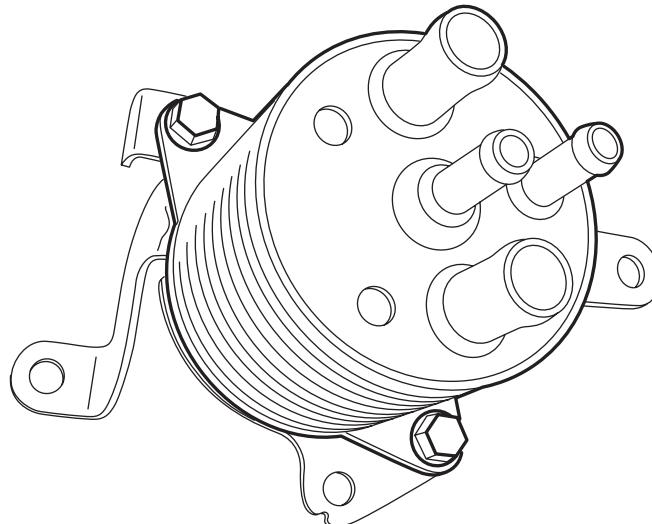
CONTINUOUSLY VARIABLE TRANSMISSION

## D: ASSEMBLY

1) Attach the bracket.

**Tightening torque:**

23 N·m (2.3 kgf·m, 17.0 ft-lb)

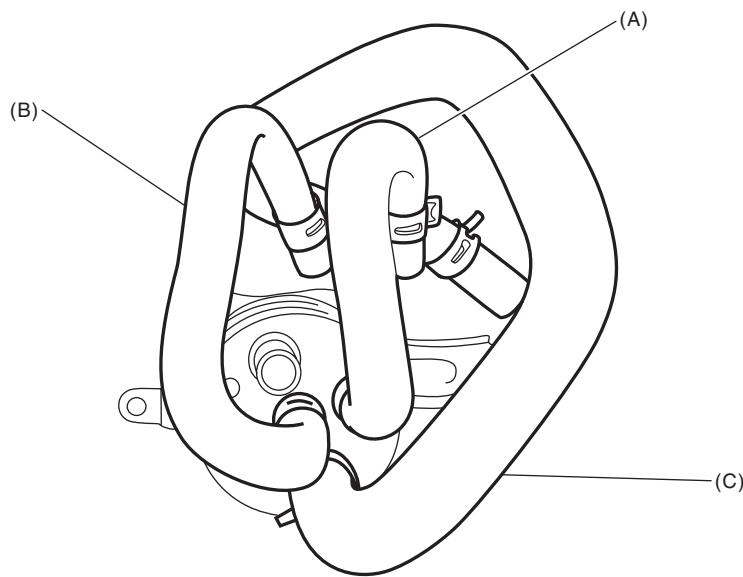


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2) Attach hoses to the CVTF cooler (with warmer feature).

**NOTE:**

- Use a new CVTF cooler hose.
- Install so that the CVTF cooler hose is not folded over, excessively bent or twisted.
- Insert the CVTF cooler hose to the specified position in the proper direction.



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- (A) CVTF cooler outlet hose
- (B) CVTF cooler inlet hose
- (C) Engine coolant outlet hose

### E: INSPECTION

Replace any faulty CVTF cooler hoses, CVTF cooler pipes and clamps found in the inspection below.

- 1) Check that there are no CVTF or engine coolant leaks from the connections.
- 2) Check the clamp for deformation.
- 3) Lightly bend the CVTF cooler hose and check for cracks in the surface or other damages.
- 4) Pinch the CVTF cooler 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.
- 5) Check for peeling, cracks, and deformation at the tip of the hose.
- 6) Check the CVTF cooler (with warmer feature) for any damage.