

### 19. ATF Cooler Pipe and Hose

#### A: REMOVAL

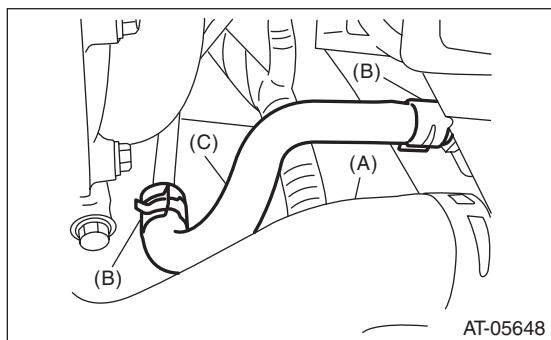
##### CAUTION:

**Be careful not to spill ATF on the exhaust pipe to prevent it from emitting smoke or causing a fire. If ATF is spilled on the exhaust pipe, wipe it off completely.**

- 1) Set the vehicle on a lift.
- 2) Lift up the vehicle.
- 3) Remove the under cover.
- 4) Remove the ATF cooler hose from under the radiator.

##### NOTE:

- Do not use a screwdriver or other pointed tools.
- If it is hard to remove the hose, wrap the hose with cloth to prevent from damaging it, and while turning with pliers, pull straight out by hand.

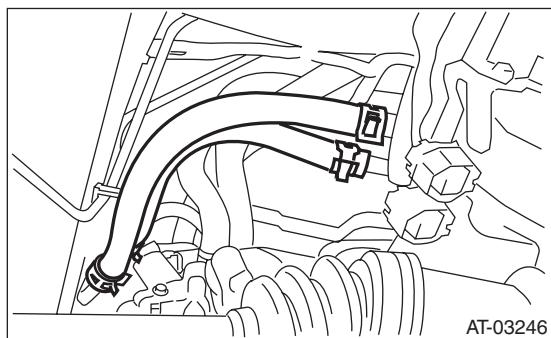


(A) Radiator hose  
(B) Clip  
(C) ATF cooler hose

- 5) Remove the front exhaust pipe.
- 6) Remove the ATF cooler hose from the pipe.

##### NOTE:

- Do not use a screwdriver or other pointed tools.
- If it is hard to remove the hose, wrap the hose with cloth to prevent from damaging it, and while turning with pliers, pull straight out by hand.

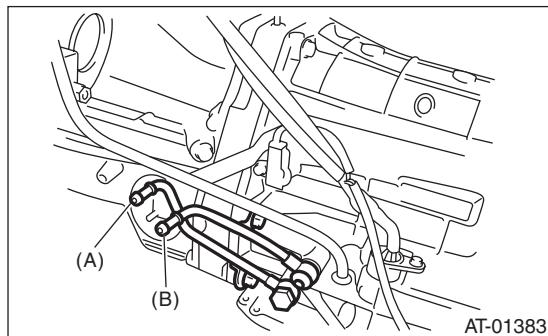


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- 7) Remove the ATF inlet pipe and ATF outlet pipe.

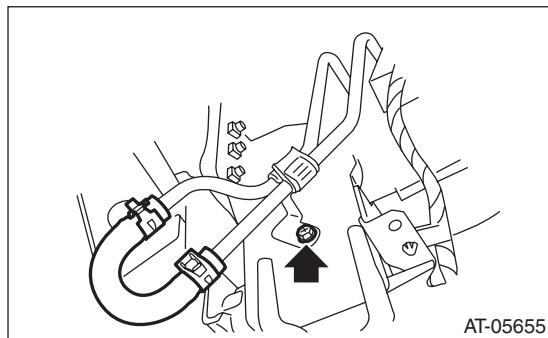
##### NOTE:

When disconnecting the outlet pipe, be careful not to lose the ball and spring used with retaining screw.



(A) ATF outlet pipe  
(B) ATF inlet pipe

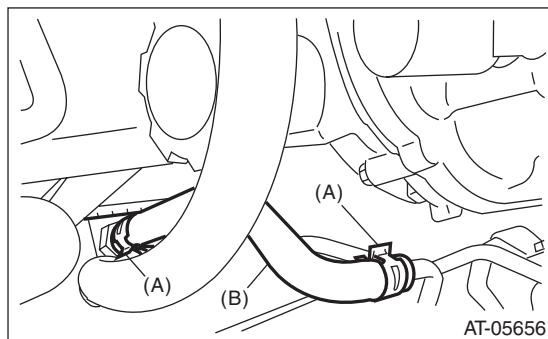
- 8) Lower the vehicle.
- 9) Remove the front bumper. <Ref. to EI-22, REMOVAL, Front Bumper.>
- 10) Remove the ATF cooler hose and remove the bolts securing the ATF cooler pipe.



- 11) Remove the ATF cooler hose from the upper side of the radiator.

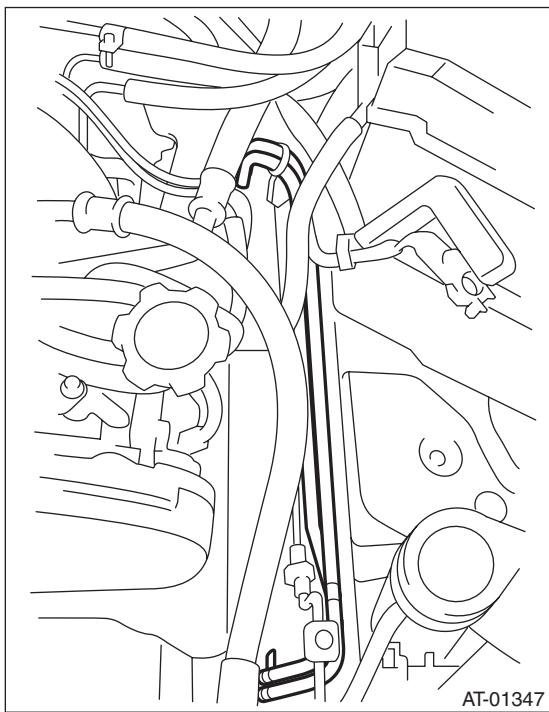
##### NOTE:

- Do not use a screwdriver or other pointed tools.
- If it is hard to remove the hose, wrap the hose with cloth to prevent from damaging it, and while turning with pliers, pull straight out by hand.



(A) Clip  
(B) ATF cooler hose

- 12) Disconnect the harness connector from the A/C pressure sensor.
- 13) Remove the ATF cooler pipe from frame.



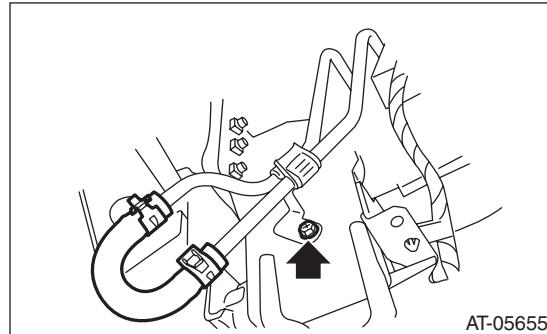
- 2) Attach the bolts securing the ATF cooler pipe, and attach the ATF cooler hose.

NOTE:

Use a new ATF cooler hose.

**Tightening torque:**

**7.5 N·m (0.76 kgf·m, 5.5 ft-lb)**

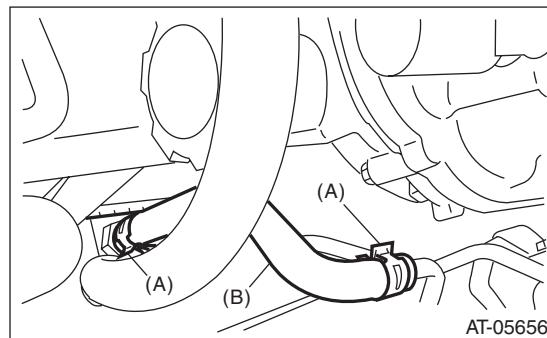


- 3) Connect the harness connector to the A/C pressure sensor.

- 4) Disconnect the ATF cooler hose from the radiator.

NOTE:

Use a new ATF cooler hose.

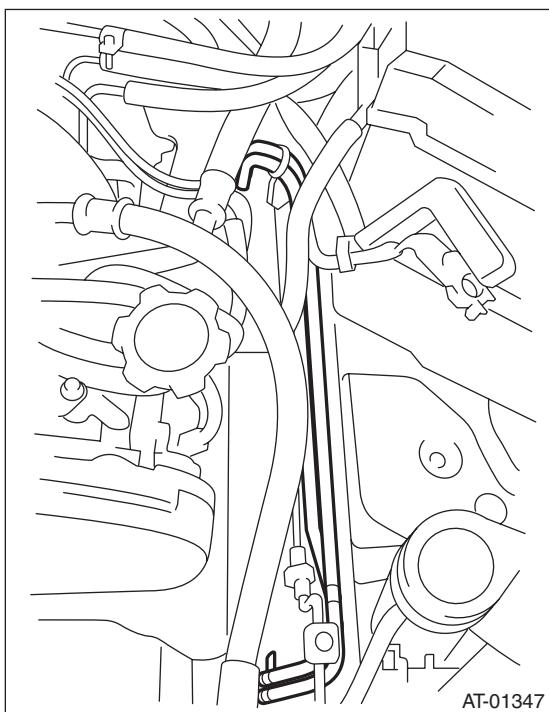


(A) Clip

(B) ATF cooler hose

- 5) Install the front bumper. <Ref. to EI-23, INSTALLATION, Front Bumper.>

- 6) Lift up the vehicle.



# ATF Cooler Pipe and Hose

## AUTOMATIC TRANSMISSION

7) Install the ATF inlet pipes and outlet pipes with new washer.

**NOTE:**

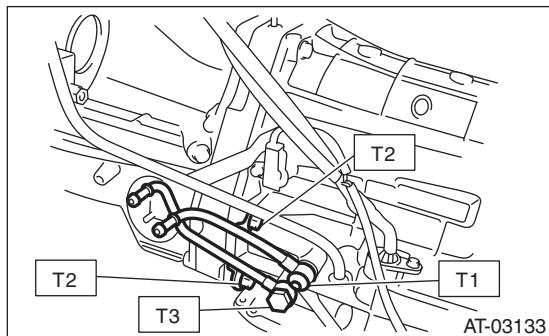
Use a new bolt for the converter case joint.

**Tightening torque:**

**T1: 40 N·m (4.1 kgf-m, 29.5 ft-lb)**

**T2: 38 N·m (3.9 kgf-m, 28.0 ft-lb)**

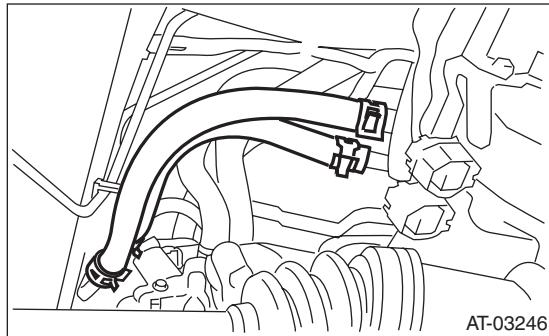
**T3: 45 N·m (4.6 kgf-m, 33.2 ft-lb)**



8) Connect the ATF cooler hose to the pipe on the transmission side.

**NOTE:**

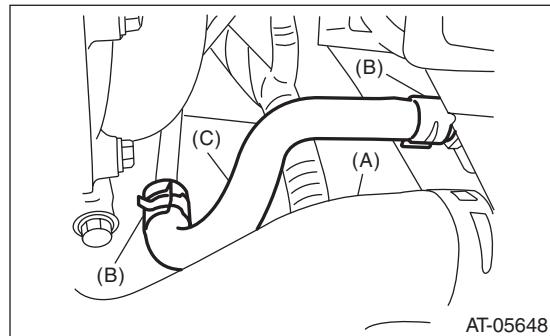
- Install so that the hose is not folded over, excessively bent or twisted.
- Insert the hose to the specified position.
- Use a new ATF cooler hose.



9) Connect the ATF cooler hose to the pipe on the radiator side.

**NOTE:**

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



(A) Radiator hose

(B) Clip

(C) ATF cooler hose

10) Install the front exhaust pipe.

11) Install the under cover.

12) Fill ATF. <Ref. to 5AT-29, Automatic Transmission Fluid.>

**NOTE:**

Make sure there are no ATF leaks in joints between the transmission, radiator, pipes, and hoses.

## C: INSPECTION

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

- 1) Check for ATF leaks in joints between the transmission, radiator, pipes, and hoses.
- 2) Check clips for deformation.
- 3) Lightly bend the hose and check for cracks in the surface or other damages.
- 4) Pinch the hose with your fingers and check for poor elasticity. Also check for poor elasticity in the parts where the clip was installed by pressing with your fingernail.
- 5) Check for peeling, cracks, and deformation at the tip of the hose.