

19. ATF Cooler Pipe and Hose

A: REMOVAL

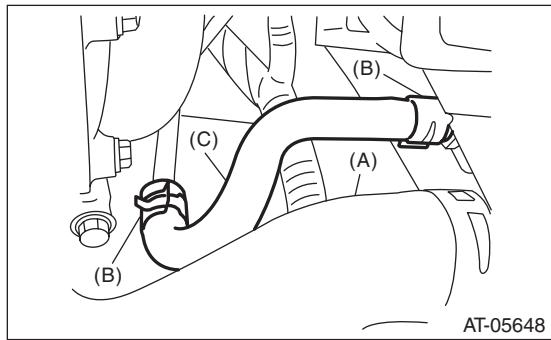
CAUTION:

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) Lift up the vehicle.
- 2) Remove the under cover.
- 3) Remove the ATF radiator inlet 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 protect it from damage, turn it with pliers, and pull it straight out by hand.

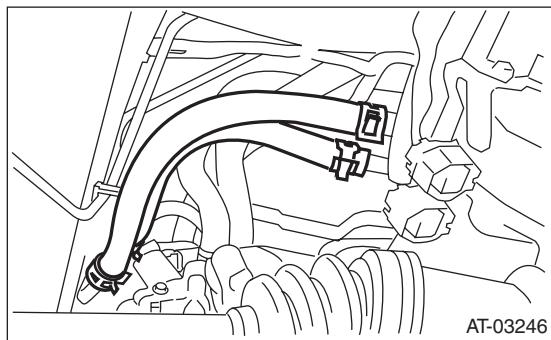


(A) Radiator hose
(B) Clip
(C) ATF radiator inlet hose

- 4) Remove the front exhaust pipe.
- 5) Remove the ATF AT inlet and outlet hoses from the ATF AT inlet and outlet pipes.

NOTE:

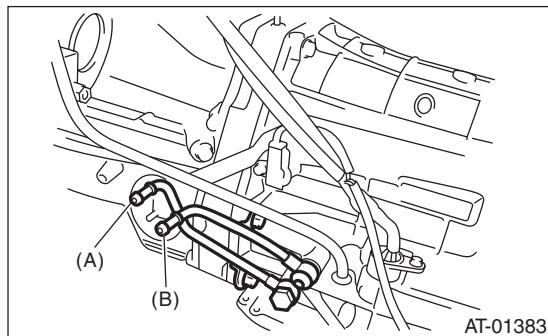
- Do not use a screwdriver or other pointed tools.
- If it is hard to remove the hose, wrap the hose with cloth to protect it from damage, turn it with pliers, and pull it straight out by hand.



- 6) Remove the ATF AT inlet pipe and outlet pipe.

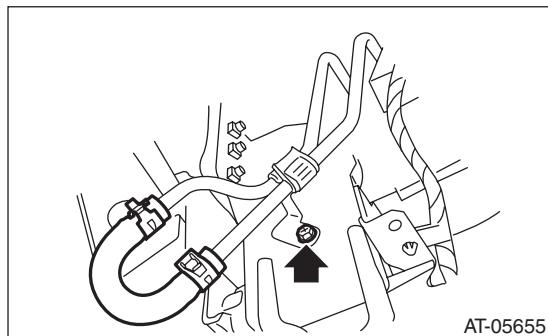
NOTE:

When removing the ATF AT outlet pipe, be careful not to lose the ball and spring used together with the retaining screw.



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

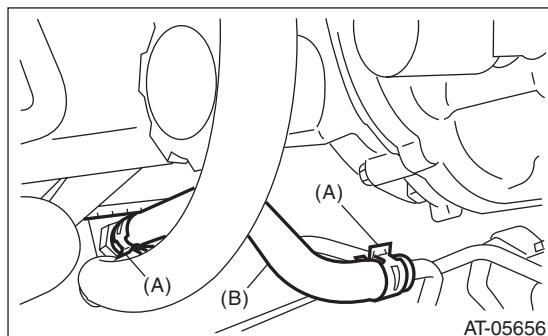
- 7) Lower the vehicle.
- 8) Remove the front bumper. <Ref. to EI-22, REMOVAL, Front Bumper.>
- 9) Remove the ATF cooler pipe hose, and remove the bolts securing the ATF cooler pipe assembly.



- 10) Remove the ATF radiator outlet 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 protect it from damage, turn it with pliers, and pull it straight out by hand.

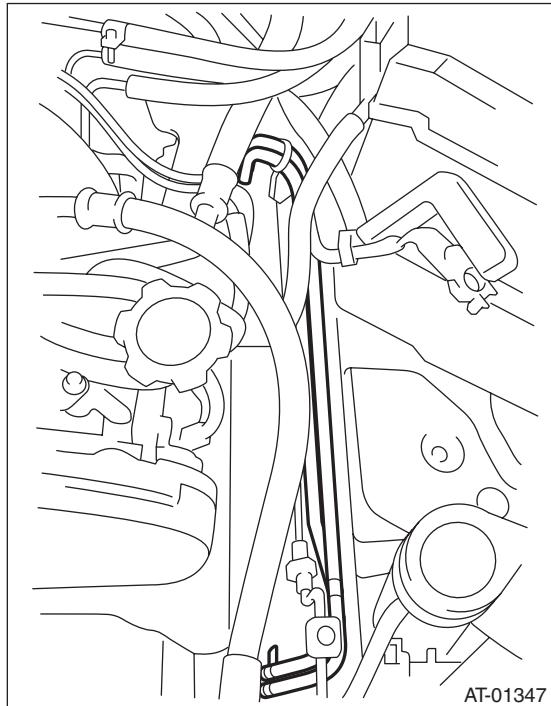


(A) Clip
(B) ATF radiator outlet hose

ATF Cooler Pipe and Hose

AUTOMATIC TRANSMISSION

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



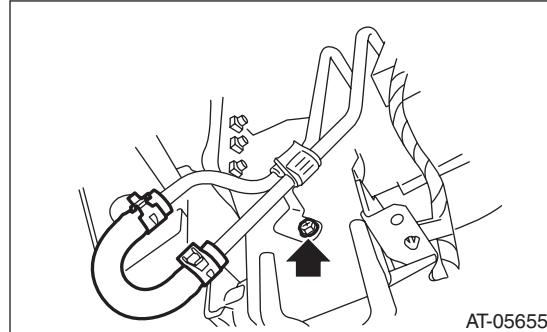
- 2) Attach the bolts securing the ATF cooler pipe assembly, and attach the ATF cooler pipe hose.

NOTE:

Use a new ATF hose.

Tightening torque:

7.5 N·m (0.76 kgf·m, 5.5 ft-lb)

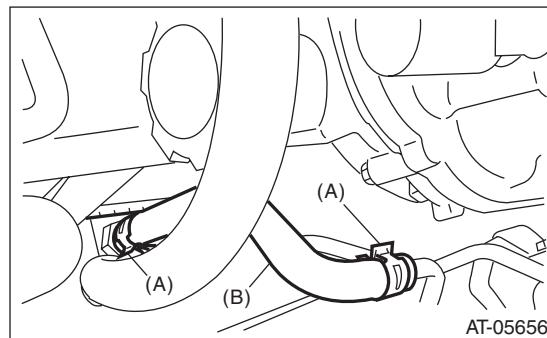


- 3) Connect the harness connector to the A/C pressure sensor.

- 4) Connect the ATF radiator outlet hose to the upper side of the radiator.

NOTE:

Use a new ATF hose.

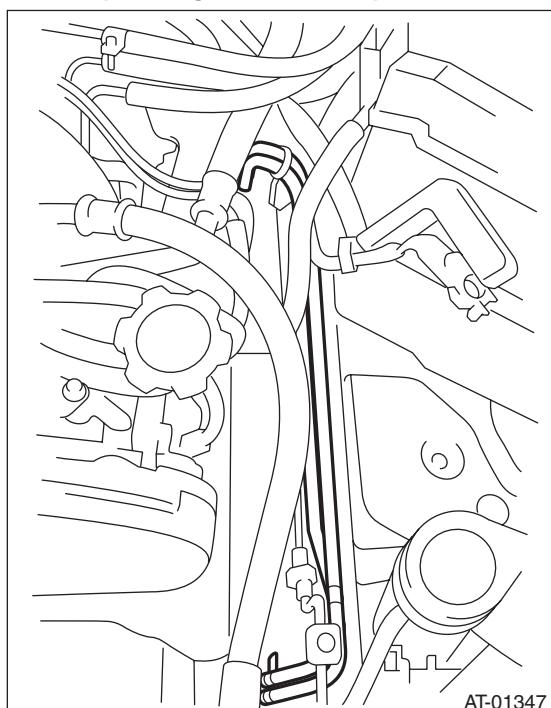


(A) Clip

(B) ATF radiator outlet hose

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

- 6) Lift up the vehicle.



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

NOTE:

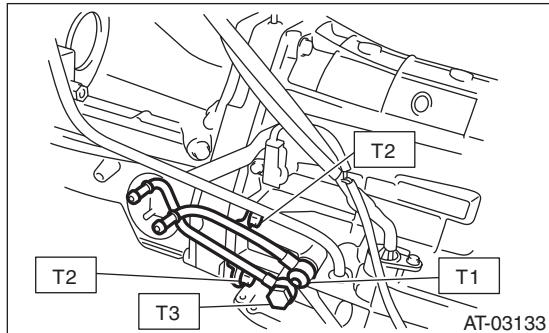
Use a new bolt for the converter case joint.

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)

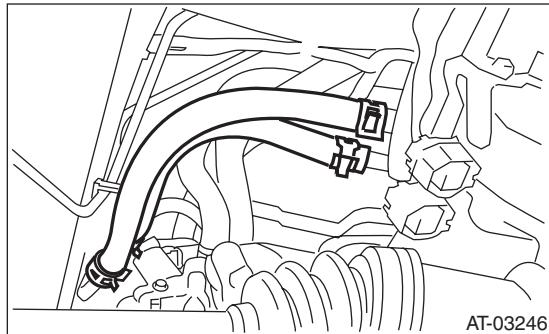
T3: 45 N·m (4.6 kgf-m, 33.2 ft-lb)



8) Connect the ATF AT inlet and outlet hoses to the pipe on the transmission side.

NOTE:

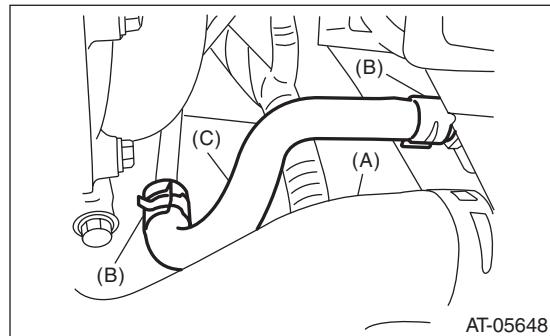
- Install so that the hose is not folded over, excessively bent or twisted.
- Insert the hose to the specified position.
- Use a new ATF hose.



9) Connect the ATF radiator inlet hose under the radiator.

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 hose.



(A) Radiator hose
 (B) Clip
 (C) ATF radiator inlet hose

10) Install the front exhaust pipe.

11) Install the under cover.

12) Fill with the ATF and check the level. <Ref. to 5AT-28, Automatic Transmission Fluid.>

NOTE:

Make sure there are no ATF leaks in joints between the transmission, radiator, ATF pipes, and ATF 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, ATF pipes and each ATF hose.
- 2) Check clips for deformation.
- 3) Lightly bend each ATF hose and check for cracks in the surface or other damages.
- 4) Pinch each ATF 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 each ATF hose.