

19.ATF Cooler Pipe and Hose

A: REMOVAL

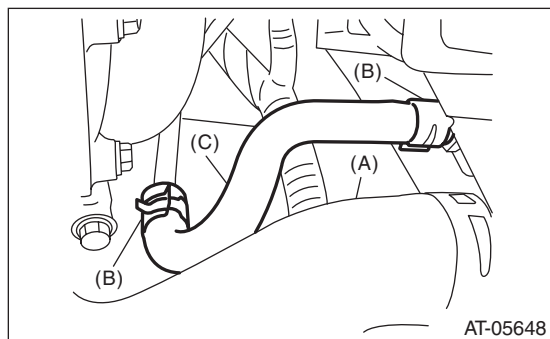
CAUTION:

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.

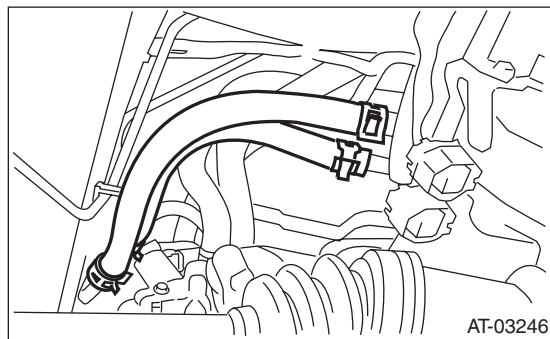


- (A) Radiator hose
(B) Clip
(C) ATF radiator inlet hose

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

NOTE:

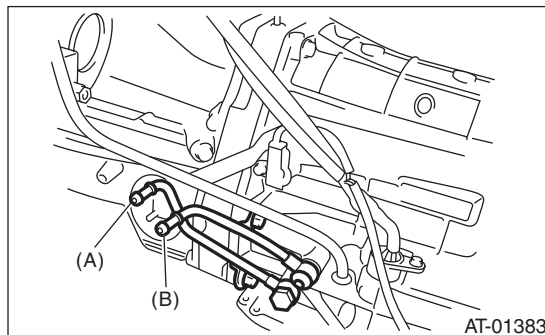
- Do not use a screwdriver or other pointed tools.
- If it is hard to remove the hose, wrap the hose with cloth to protect it from damage, turn it with pliers, and pull it straight out by hand.



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

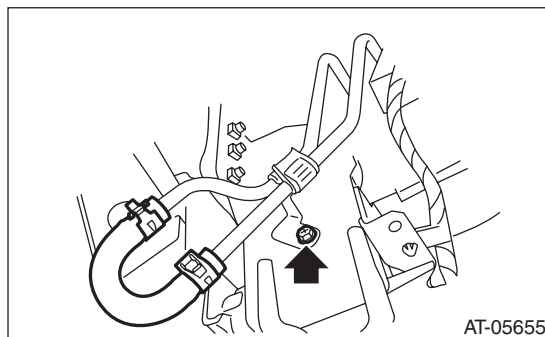
NOTE:

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

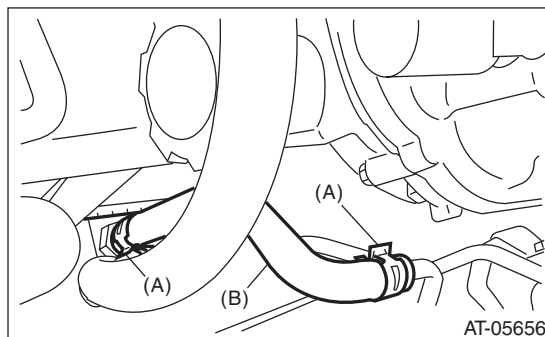
- 7) Lower the vehicle.
- 8) Remove the front bumper. <Ref. to EI-22, REMOVAL, Front Bumper.>
- 9) Remove the ATF cooler pipe hose, and remove the bolts securing the ATF cooler pipe assembly.



- 10) Remove the ATF radiator outlet hose from the upper side of the radiator.

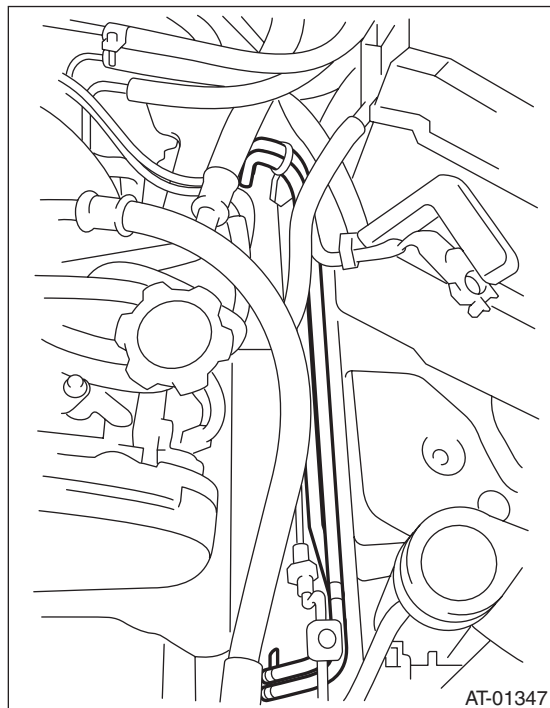
NOTE:

- 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

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

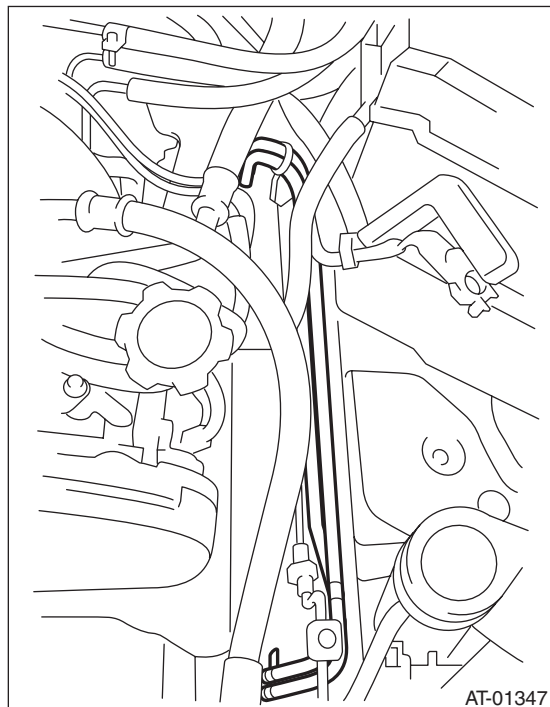


B: INSTALLATION

- 1) Install the ATF cooler pipe assembly to frame.

Tightening torque:

7.5 N·m (0.76 kgf-m, 5.5 ft-lb)



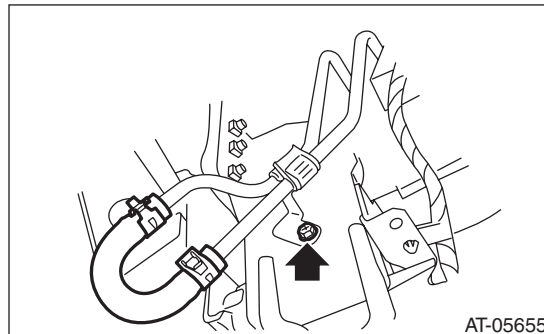
- 2) Attach the bolts securing the ATF cooler pipe assembly, and attach the ATF cooler pipe hose.

NOTE:

Use a new ATF hose.

Tightening torque:

7.5 N·m (0.76 kgf-m, 5.5 ft-lb)

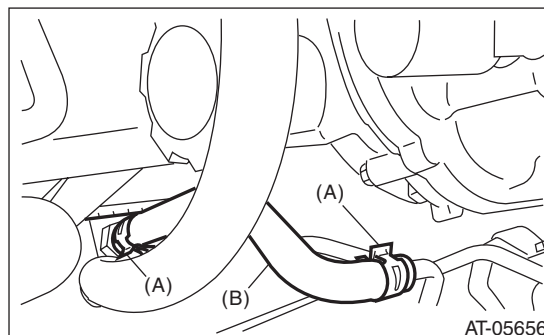


- 3) Connect the harness connector to the A/C pressure sensor.

- 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.

ATF Cooler Pipe and Hose

AUTOMATIC TRANSMISSION

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

NOTE:

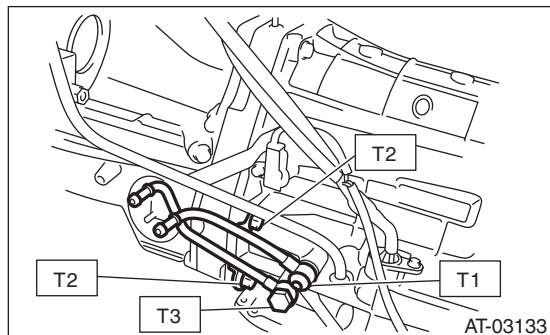
Use a new bolt for the converter case joint.

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)

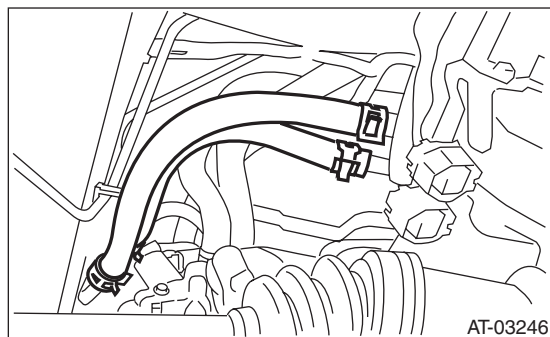
T3: 45 N·m (4.6 kgf-m, 33.2 ft-lb)



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

NOTE:

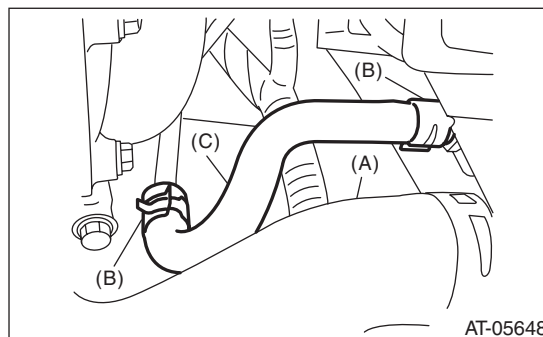
- Install so that the hose is not folded over, excessively bent or twisted.
- Insert the hose to the specified position.
- Use a new ATF hose.



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-29, 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.