# 17. Control Valve Body

# A: REMOVAL

- 1) Set the vehicle on a lift.
- 2) Disconnect the ground cable from battery.
- 3) Lift-up the vehicle.
- 4) Clean the transmission exterior.
- 5) Remove the ATF drain plug to drain ATF.

### CAUTION

Directly after the vehicle has been running or the engine has been long idle running, the ATF is hot. Be careful not to burn yourself.

6) Tighten the ATF drain plug.

#### NOTE:

Use a new gasket.

# Tightening torque:

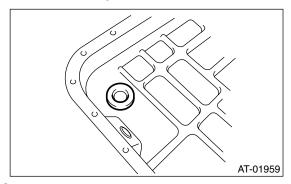
25 N·m (2.5 kgf-m, 18 ft-lb)

7) Remove the oil pan.

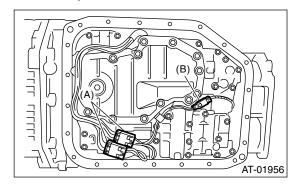
### **CAUTION:**

Be sure to prevent the entering of dust and other foreign matters into oil pan.

8) Remove the magnet.



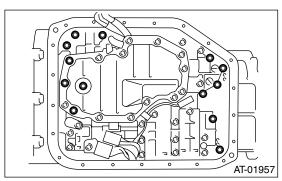
- 9) Clean the magnet.
- 10) Completely remove the remaining liquid gasket on the transmission case and oil pan.
- 11) Disconnect the control valve connector and front vehicle speed sensor connector.



- (A) Control valve connector
- (B) Front vehicle speed sensor connector
- 12) Remove the control valve body.

### NOTE:

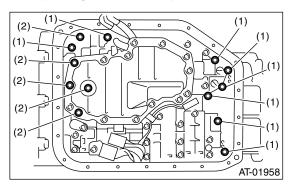
Replace the control valve body as assembly, because it is non-disassemble part.



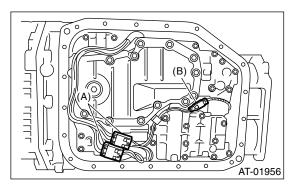
# **B: INSTALLATION**

- 1) Check the control valve body for dust and other foreign matters.
- 2) Install the control valve body to transmission by equally tightening the bolts.

# Tightening torque: 8 N·m (0.8 kgf-m, 5.8 ft-lb)

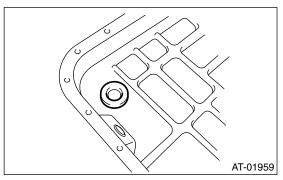


- (1) 58 mm (2.28 in)
- (2) 65 mm (2.56 in)
- 3) Connect the control valve connector.



- (A) Control valve connector
- (B) Front vehicle speed sensor connector

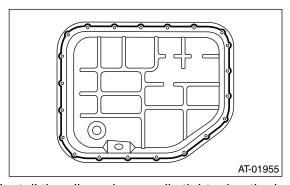
4) Attach the magnet at the specified position of oil pan.



5) Apply liquid gasket to the oil pan.

# Liquid gasket:

THREE BOND 1217B (Part No. K0877YA020)



6) Install the oil pan by equally tightening the bolts.

## Tightening torque:

5 N·m (0.5 kgf-m, 3.7 ft-lb)

7) Pour ATF through the oil charge pipe.

## Specified and recommended fluid:

<Ref. to 5AT-2, SPECIFICATION, General Description.>

# Capacity:

Fill the same amount of the drained ATF.

- 8) Check the ATF level.
- <Ref. to 5AT-27, Automatic Transmission Fluid.>
- 9) Perform the Clear Memory 2. <Ref. to 5AT(diag)-17, CLEAR MEMORY MODE, OPERATION, Subaru Select Monitor.>
- 10) Perform the inspection with driving the vehicle at the end of repair work, and make sure there is no faulty as below;
- Excessive shift shock
- Oil leakage from transmission body and etc.
- · Occurrence of noise caused by interference etc.

### NOTE:

If excessive shift shock is felt, execute the advance operation of learning control. <Ref. to 5AT(diag)-21, PROCEDURE, Learning Control.>

# C: INSPECTION

Check each parts for holes, damages or other foreign matters.