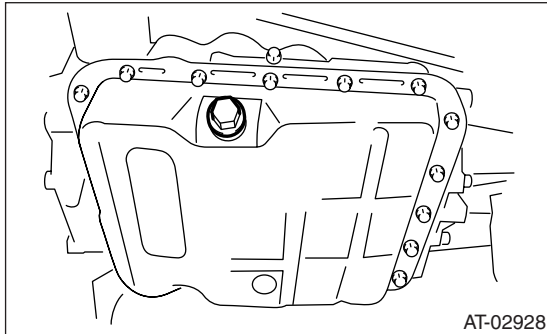


## 18. Control Valve Body

### 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 drain plug (ATF) and gasket to drain ATF.



- 6) Replace the gasket with new one, and then tighten the drain plug (ATF).

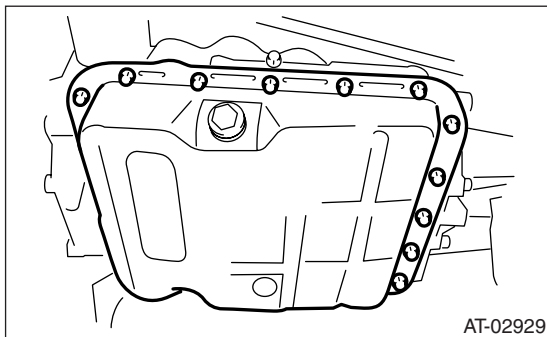
#### **Tightening torque:**

**25 N·m (2.5 kgf-m, 18.1 ft-lb)**

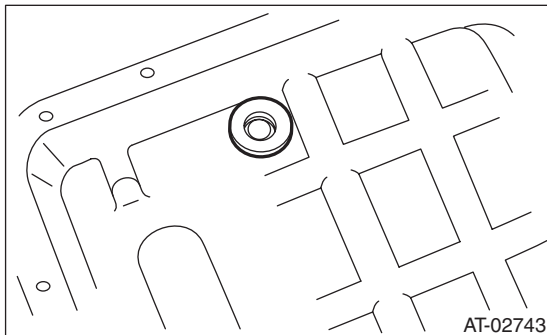
- 7) Remove the oil pan.

#### **CAUTION:**

**Be careful not to allow foreign matter such as dust or dirt to enter the oil pan.**

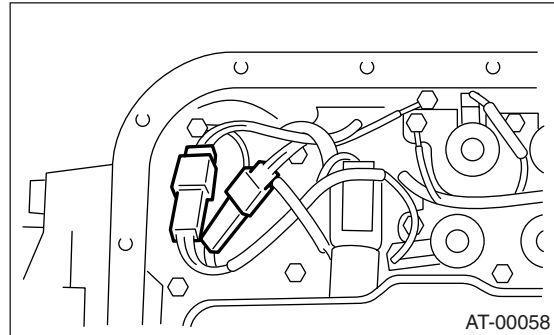


- 8) Remove the magnet.

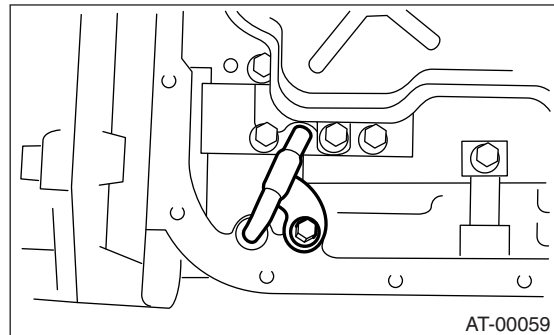


- 9) Clean the magnet.
- 10) Completely remove the remaining liquid gasket on the transmission case and oil pan.

- 11) Remove the control valve connector.



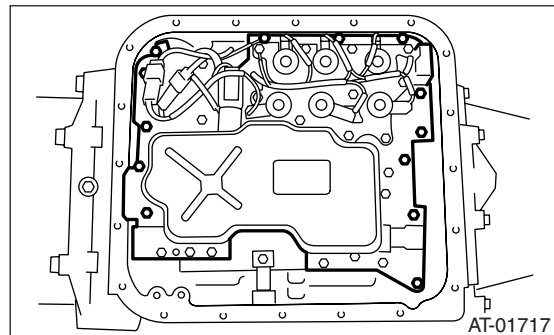
- 12) Remove the ATF cooler pipe.



- 13) Remove the control valve body.

#### **NOTE:**

The control valve body is replaced as an assembly only, because it is a non-disassembly part.



# Control Valve Body

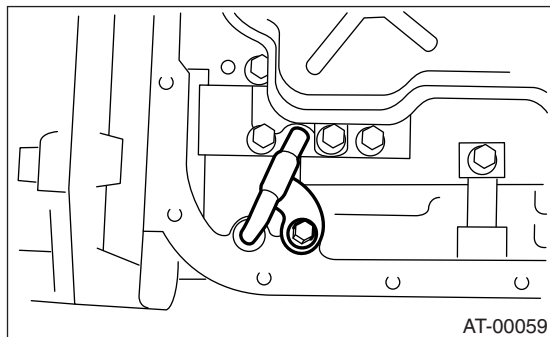
## AUTOMATIC TRANSMISSION

### B: INSTALLATION

- 1) Check the control valve body for dust and other foreign matter.
- 2) Temporarily assembly the control valve body to transmission then install the oil cooler pipe.

#### **Tightening torque:**

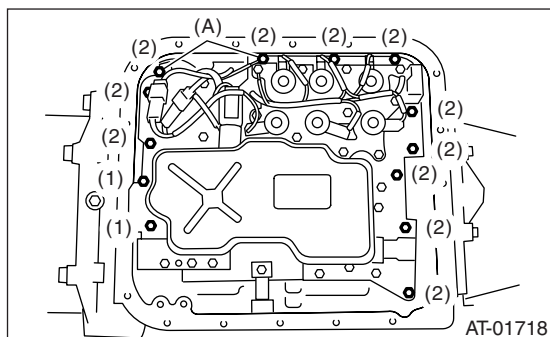
**8 N·m (0.8 kgf-m, 5.8 ft-lb)**



- 3) Tighten the bolts equally.

#### **Tightening torque:**

**8 N·m (0.8 kgf-m, 5.8 ft-lb)**



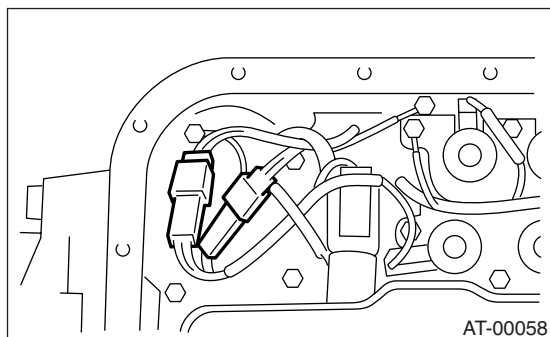
(A) Transmission ground

Bolt length mm (in)

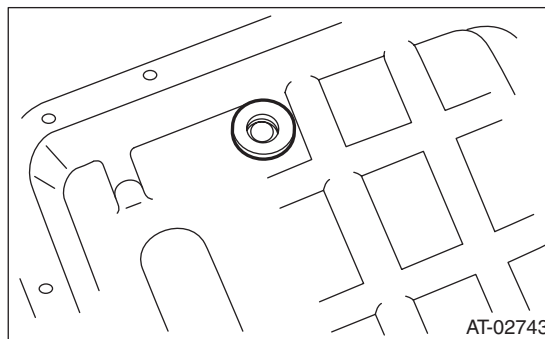
(1) 35 (1.38)

(2) 30 (1.18)

- 4) Connect the control valve connector.



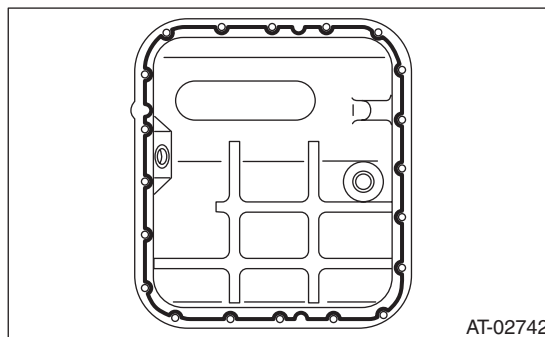
- 5) Attach the magnet at the specified position of the oil pan.



- 6) Apply proper amount of liquid gasket to the entire oil pan mating surface.

#### **Liquid gasket:**

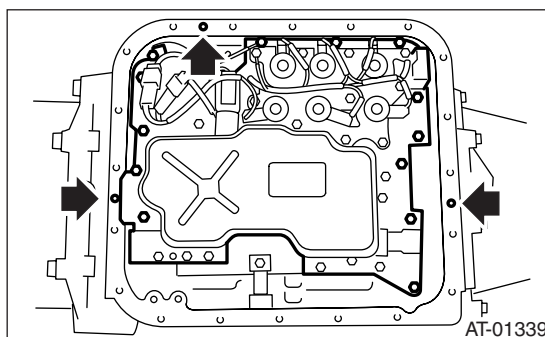
**Three bond 1217B (Part No. K0877YA020)**



- 7) Fill the 3 holes aside from the bolt holes in the transmission case, with liquid gasket.

#### **Liquid gasket:**

**Three bond 1217B (Part No. K0877YA020)**



- 8) Install the oil pan by equally tightening the bolts.

#### **Tightening torque:**

**5 N·m (0.5 kgf-m, 3.6 ft-lb)**

9) Fill ATF from the oil charger pipe.

***Recommended fluid:***

***SUBARU ATF HP***

***Substitute fluid:***

***IDEMITSU: ATF HP***

***Castrol: Transmax J***

***Capacity:***

***Fill with the same amount of fluid that was drained from the drain plug hole.***

10) Bleed the air of control valve body. <Ref. to 4AT-62, Air Bleeding of Control Valve.>

11) Check the ATF level. <Ref. to 4AT-28, Automatic Transmission Fluid.>

12) Execute the learning control promotion. <Ref. to 4AT(D)(diag)-16, FACILITATION OF LEARNING CONTROL, OPERATION, Subaru Select Monitor.>

## **C: INSPECTION**

Make sure there are no holes, bending damage or other foreign materials on each parts.