

17. Control Valve Body

A: REMOVAL

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

CAUTION:

Immediately after the vehicle has been running or after idling for a long time, the ATF will be hot. Be careful not to burn yourself.

- 6) Tighten the ATF drain plug.

NOTE:

Use a new gasket.

Tightening torque:

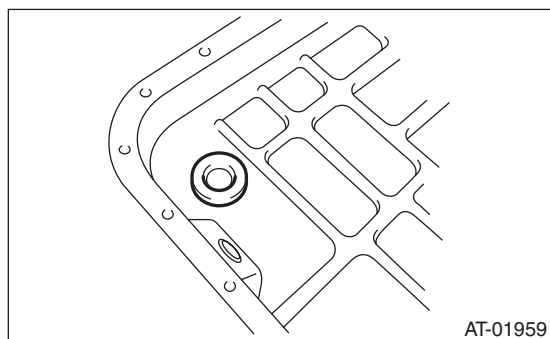
20 N·m (2.0 kgf·m, 14.8 ft·lb)

- 7) Remove the oil pan.

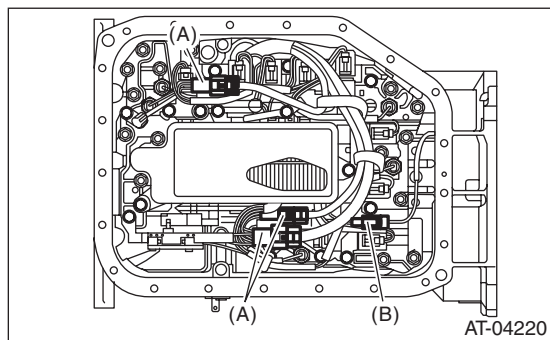
CAUTION:

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.

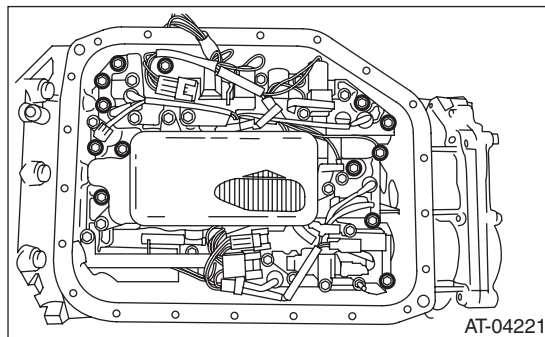


- (A) Control valve connector
(B) Front vehicle speed sensor connector

- 12) Remove the control valve body.

NOTE:

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

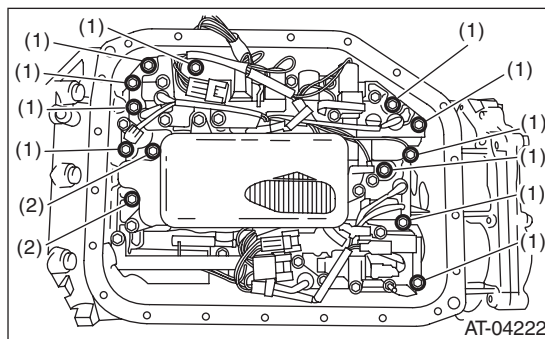


B: INSTALLATION

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

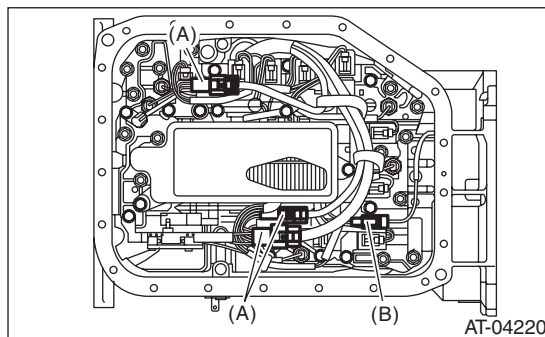
Tightening torque:

8 N·m (0.8 kgf·m, 5.9 ft·lb)



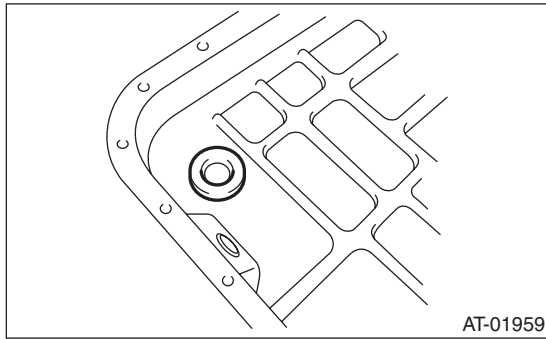
- (1) 30 mm (1.18 in)
(2) 40 mm (1.57 in)

- 3) Connect the control valve connector.



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

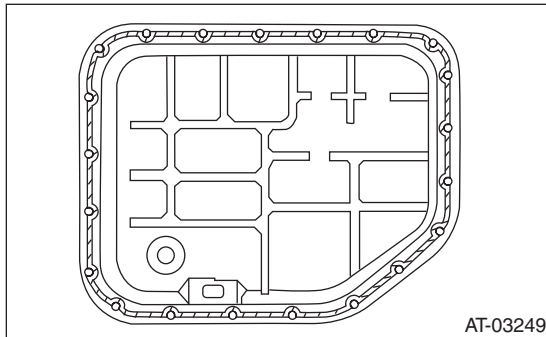
- 4) Attach the magnet at the specified position of the oil pan.



- 5) Apply liquid gasket to the oil pan.

Liquid gasket:

**THREE BOND 1217B (Part No. K0877YA020)
or equivalent**



- 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. <Ref. to 5AT-29, REPLACEMENT, Automatic Transmission Fluid.>
- 8) Check the ATF level. <Ref. to 5AT-29, INSPECTION, Automatic Transmission Fluid.>
- 9) Perform Clear Memory 2 operation. <Ref. to 5AT(diag)-18, CLEAR MEMORY MODE, OPERATION, Subaru Select Monitor.>
- 10) Execute the learning control promotion. <Ref. to 5AT(diag)-22, GENERAL DESCRIPTION, Learning Control.>
- 11) Perform the inspection at the end of repair work, and make sure there is no faulty as below;
- Excessive shift shock
 - Oil leakage from the transmission body, etc.
 - Occurrence of noise caused by interference etc.

C: INSPECTION

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