

17. Control Valve Body

A: REMOVAL

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

CAUTION:

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

- 5) Tighten the ATF drain plug.

NOTE:

Use a new gasket.

Tightening torque:

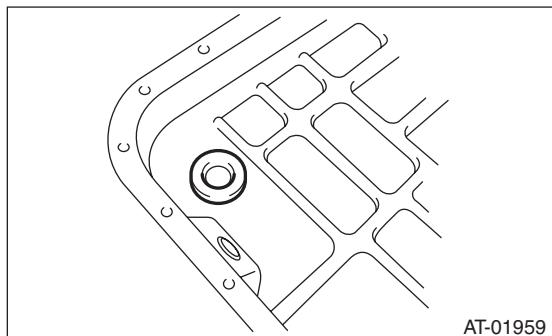
20 N·m (2.0 kgf·m, 14.8 ft-lb)

- 6) Remove the oil pan.

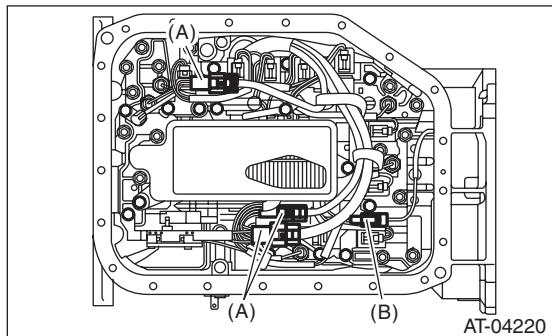
CAUTION:

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

- 7) Remove the magnet.



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

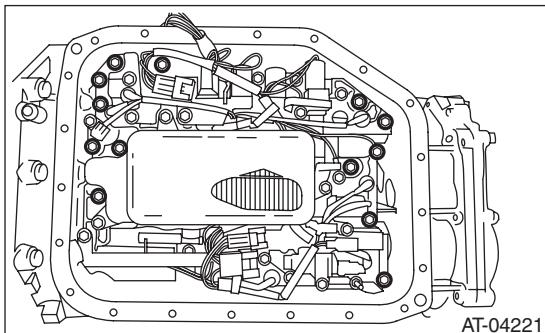


(A) Control valve connector
 (B) Front vehicle speed sensor connector

- 11) Remove the control valve body.

NOTE:

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

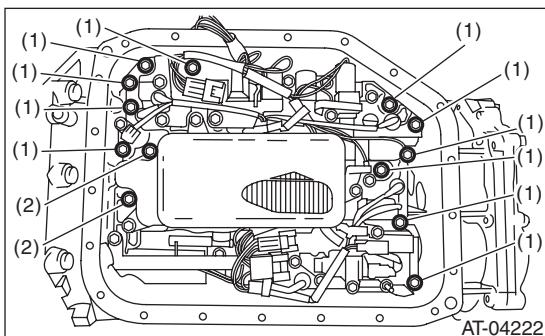


B: INSTALLATION

- 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.

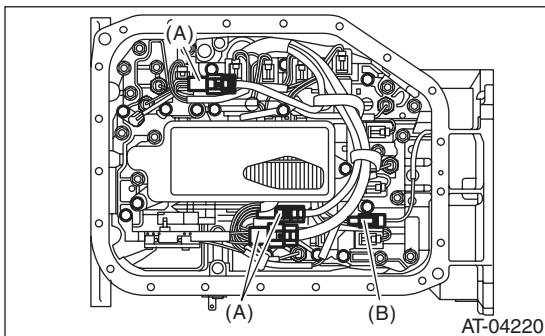
Tightening torque:

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 and front vehicle speed sensor connector.

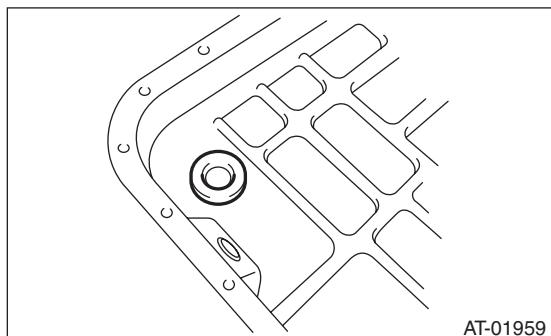


(A) Control valve connector
 (B) Front vehicle speed sensor connector

Control Valve Body

AUTOMATIC TRANSMISSION

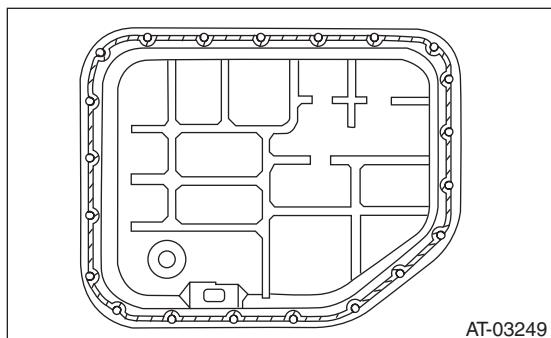
4) Attach the magnet at the specified position of the oil pan.



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) Lower the vehicle.
- 8) Connect the battery ground terminal.
- 9) Pour ATF through the oil charge pipe. <Ref. to 5AT-29, Automatic Transmission Fluid.>
- 10) Check the ATF level. <Ref. to 5AT-29, INSPECTION, Automatic Transmission Fluid.>
- 11) Perform Clear Memory 2 operation. <Ref. to 5AT(diag)-18, CLEAR MEMORY MODE, OPERATION, Subaru Select Monitor.>
- 12) Perform the diagnosis again. <Ref. to 5AT(diag)-22, PROCEDURE, Learning Control.>
- 13) 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.