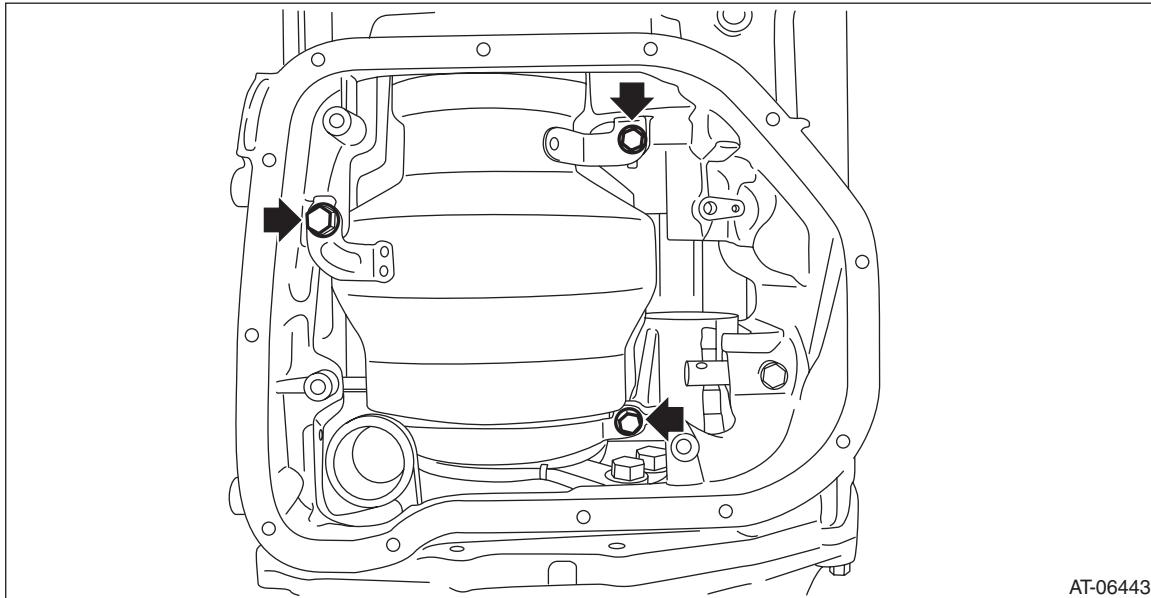


## 34. Transmission Case

### A: REMOVAL

- 1) Remove the transmission assembly from the vehicle. <Ref. to CVT-57, REMOVAL, Automatic Transmission Assembly.>
- 2) Remove the air breather hose. <Ref. to CVT-154, REMOVAL, Air Breather Hose.>
- 3) Remove the control valve body. <Ref. to CVT-116, REMOVAL, Control Valve Body.>
- 4) Remove the transmission harness. <Ref. to CVT-129, REMOVAL, Transmission Harness.>
- 5) Remove the turbine speed sensor. <Ref. to CVT-103, REMOVAL, Turbine Speed Sensor.>
- 6) Remove the secondary speed sensor. <Ref. to CVT-105, REMOVAL, Secondary Speed Sensor.>
- 7) Remove the primary speed sensor. <Ref. to CVT-107, REMOVAL, Primary Speed Sensor.>
- 8) Remove the inhibitor switch. <Ref. to CVT-99, REMOVAL, Inhibitor Switch.>
- 9) Remove the extension case. <Ref. to CVT-163, REMOVAL, Extension Case.>
- 10) Remove the transfer clutch assembly. <Ref. to CVT-167, REMOVAL, Transfer Clutch.>
- 11) Remove the transfer driven gear assembly. <Ref. to CVT-181, REMOVAL, Transfer Driven Gear.>
- 12) Remove the parking pawl. <Ref. to CVT-184, REMOVAL, Parking Pawl.>
- 13) Remove the reduction driven gear assembly. <Ref. to CVT-186, REMOVAL, Reduction Driven Gear.>
- 14) Remove the oil pan and oil strainer. <Ref. to CVT-112, REMOVAL, Oil Pan and Strainer.>
- 15) Remove the transmission control device. <Ref. to CVT-194, REMOVAL, Transmission Control Device.>
- 16) Remove the oil baffle securing bolt.



- 17) Remove the CVTF cooler pipe COMPL. <Ref. to CVT-144, REMOVAL, CVTF Cooler Pipe and Hose.>
- 18) Remove the transmission case.

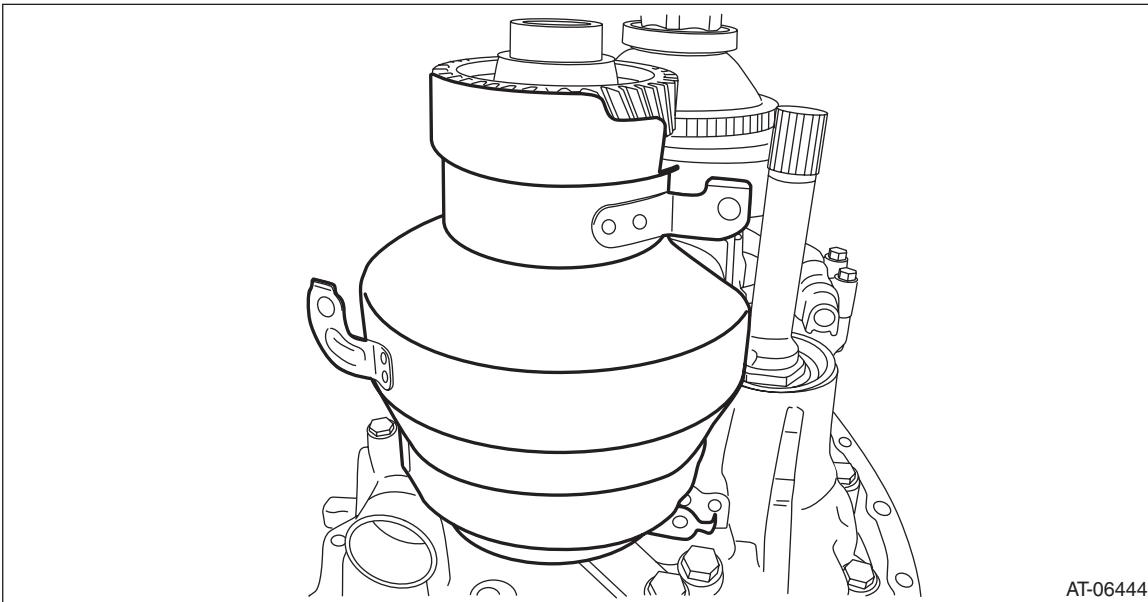
NOTE:

The total number of transmission case mounting bolts is 15.

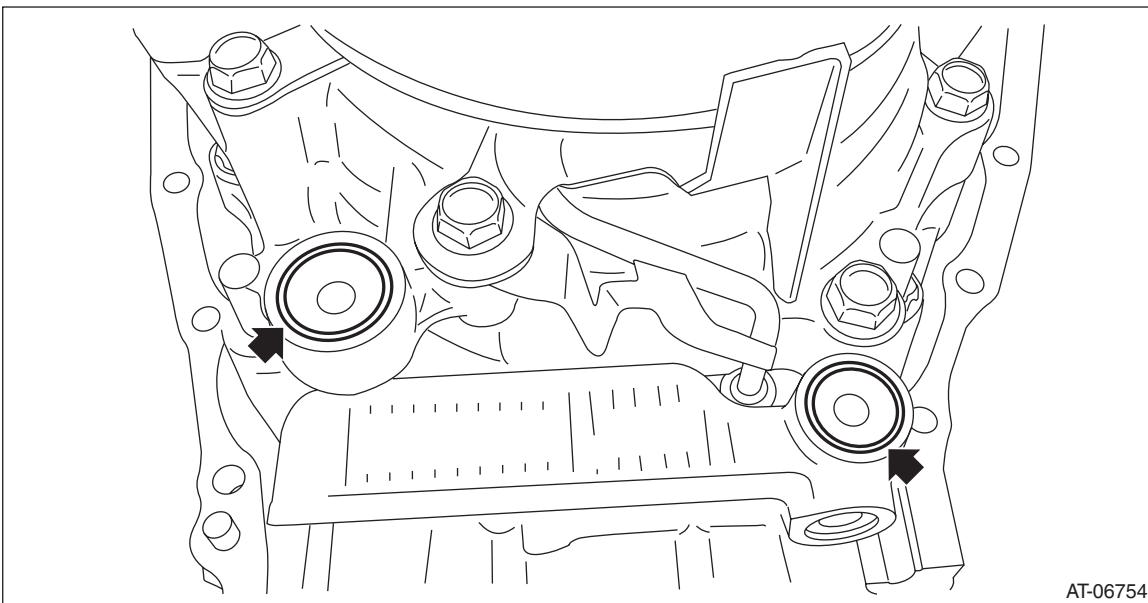
# Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

19) Remove the oil baffle.



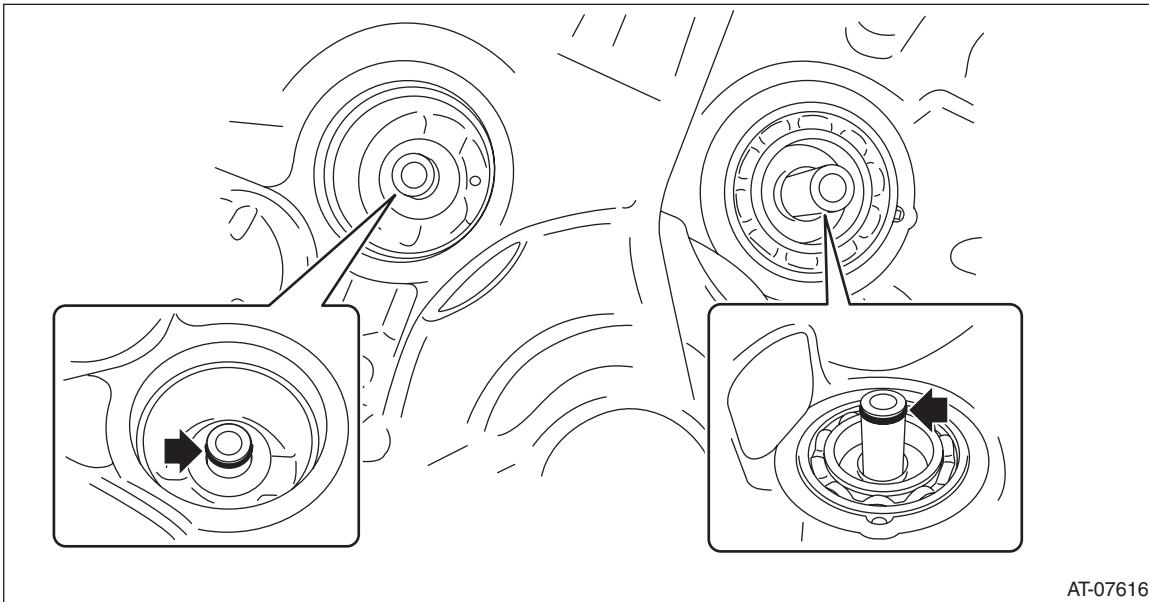
20) Remove the O-ring.



# Transmission Case

## CONTINUOUSLY VARIABLE TRANSMISSION

21) Remove the seal ring from the transmission case.

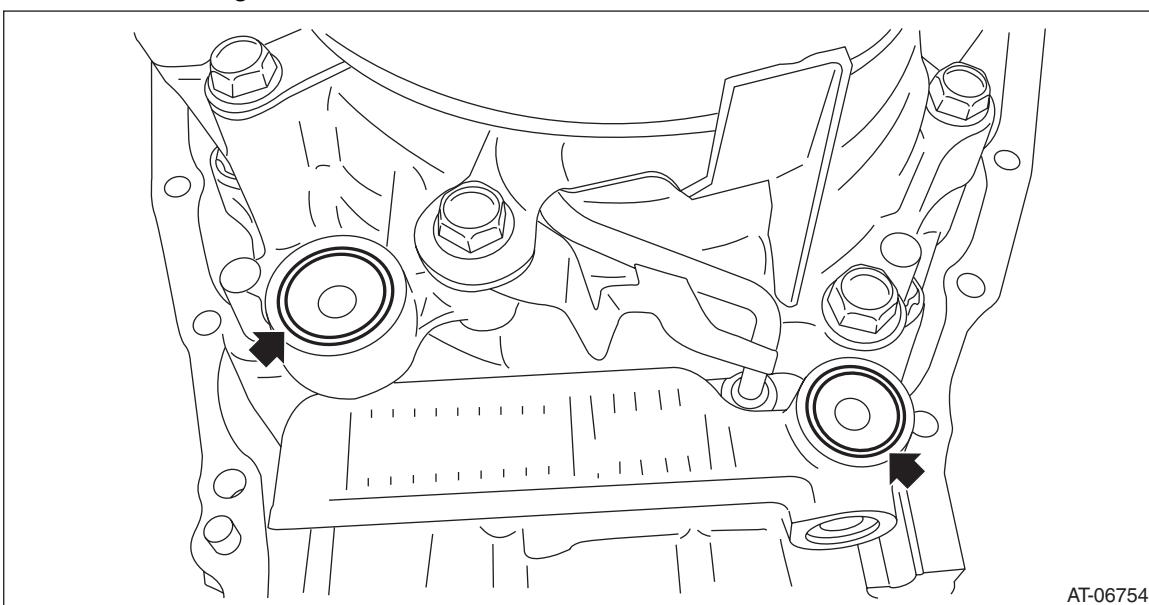


## B: INSTALLATION

- 1) Clean the mating surface of transmission case and converter case.
- 2) Select the reduction gear shim. <Ref. to CVT-215, ADJUSTMENT, Reduction Drive Gear.>
- 3) Remove the transmission case, and install the selected reduction gear shim to the reduction drive gear.
- 4) Install the O-rings to the reverse clutch housing and drive pinion retainer.

NOTE:

- Use new O-rings.
- Apply CVTF to the O-ring.



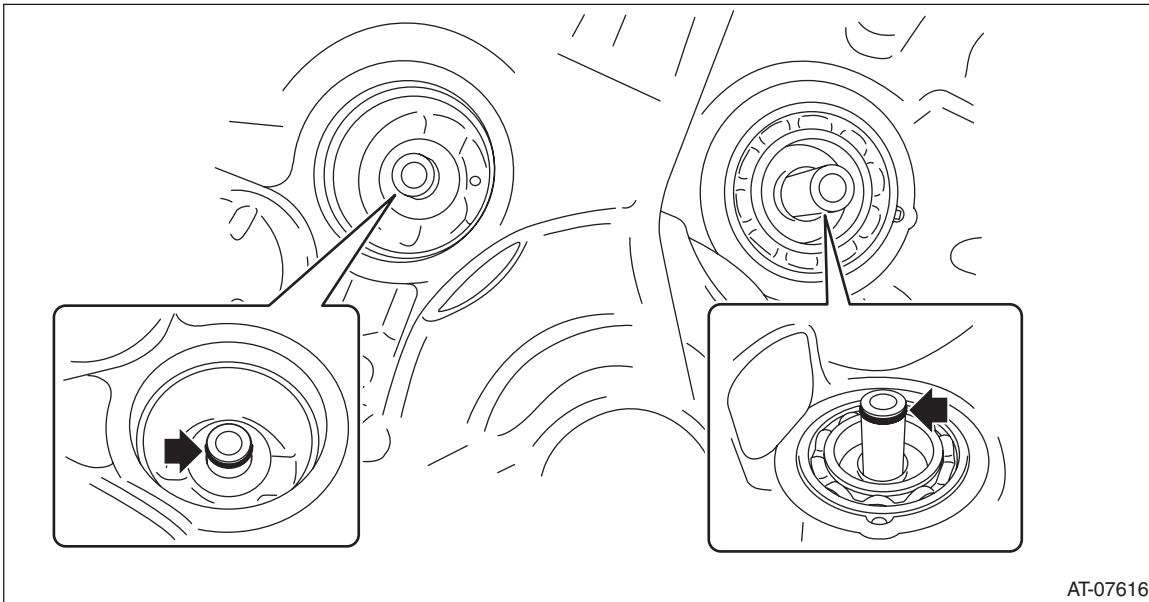
# Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

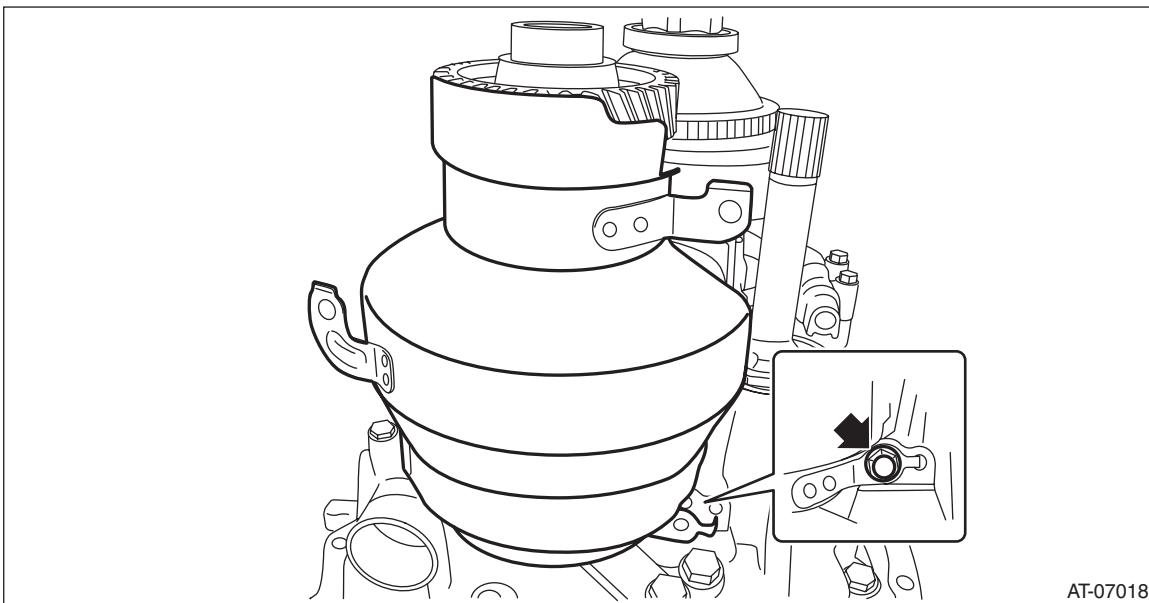
5) Install the seal ring to the transmission case.

NOTE:

- Use a new seal ring.
- Apply CVTF to the seal rings.



6) Cover the secondary pulley with the oil baffle, and temporarily install it with bolts.



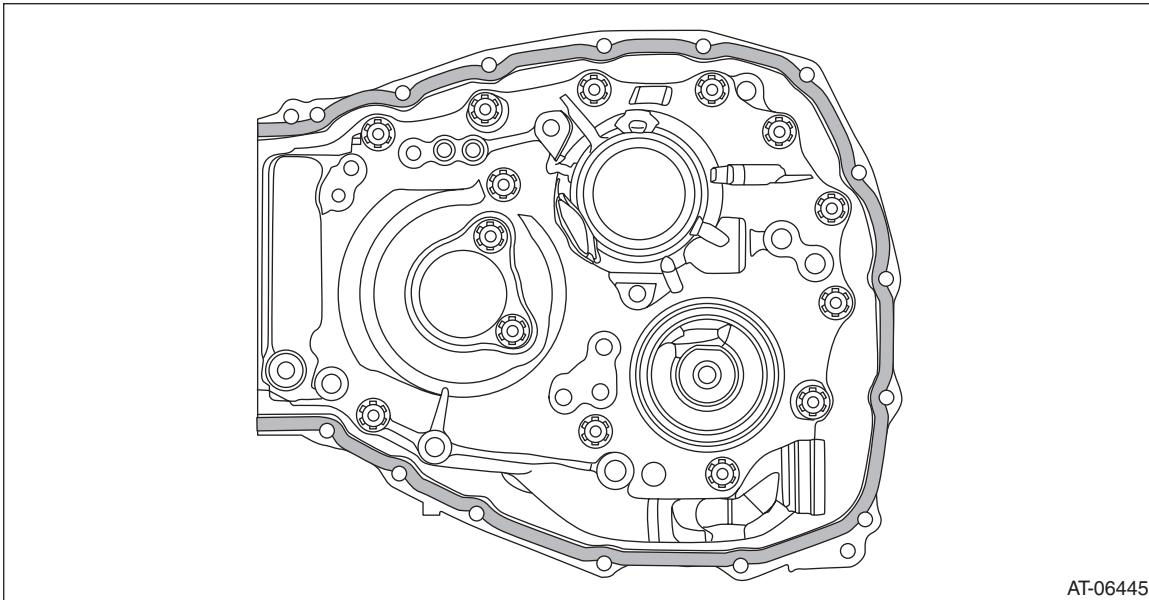
## Transmission Case

### CONTINUOUSLY VARIABLE TRANSMISSION

7) Apply liquid gasket seamlessly to the mating surface of transmission case.

**Liquid gasket:**

**THREE BOND 1215 (Part No. 004403007) or equivalent**



8) Install the transmission case.

**NOTE:**

The total number of transmission case mounting bolts is 15.

**Tightening torque:**

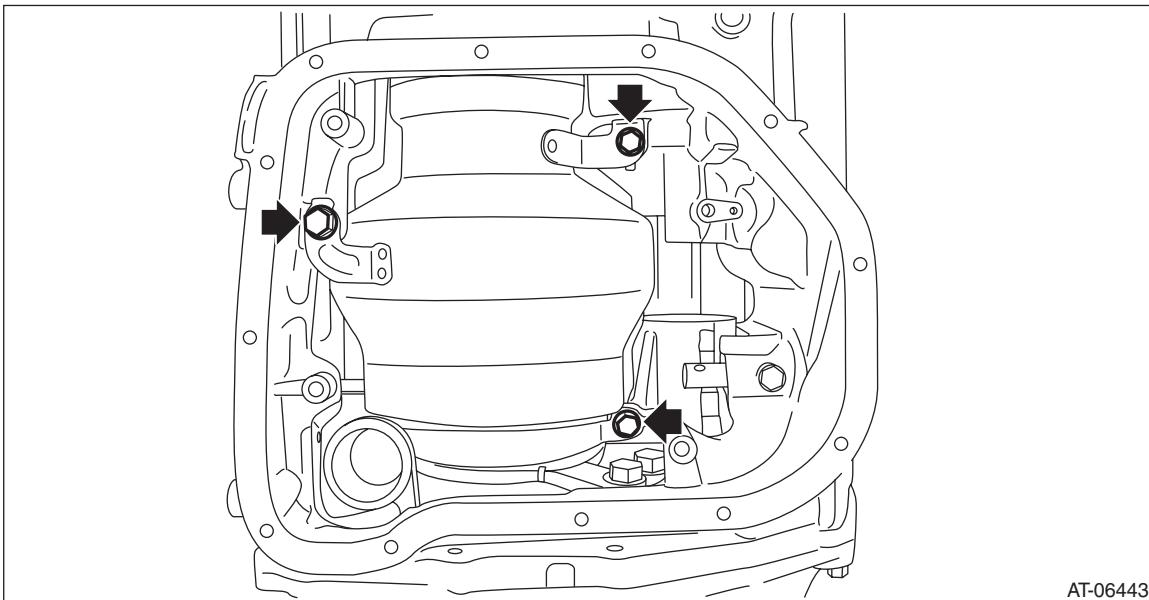
**22 N·m (2.2 kgf·m, 16.2 ft-lb)**

9) Install the CVTF cooler pipe COMPL. <Ref. to CVT-149, INSTALLATION, CVTF Cooler Pipe and Hose.>

10) Install the oil baffle securing bolt.

**Tightening torque:**

**16 N·m (1.6 kgf·m, 11.8 ft-lb)**



11) Install the transmission control device. <Ref. to CVT-197, INSTALLATION, Transmission Control Device.>

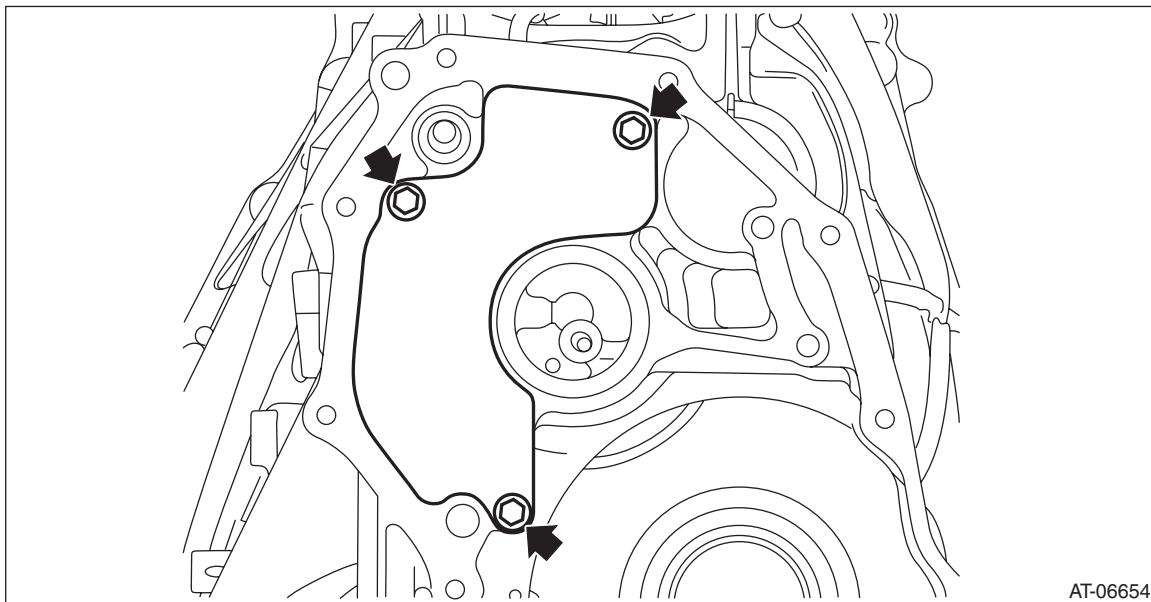
12) Install the oil pan and oil strainer. <Ref. to CVT-113, INSTALLATION, Oil Pan and Strainer.>

13) Install the reduction driven gear assembly. <Ref. to CVT-186, INSTALLATION, Reduction Driven Gear.>

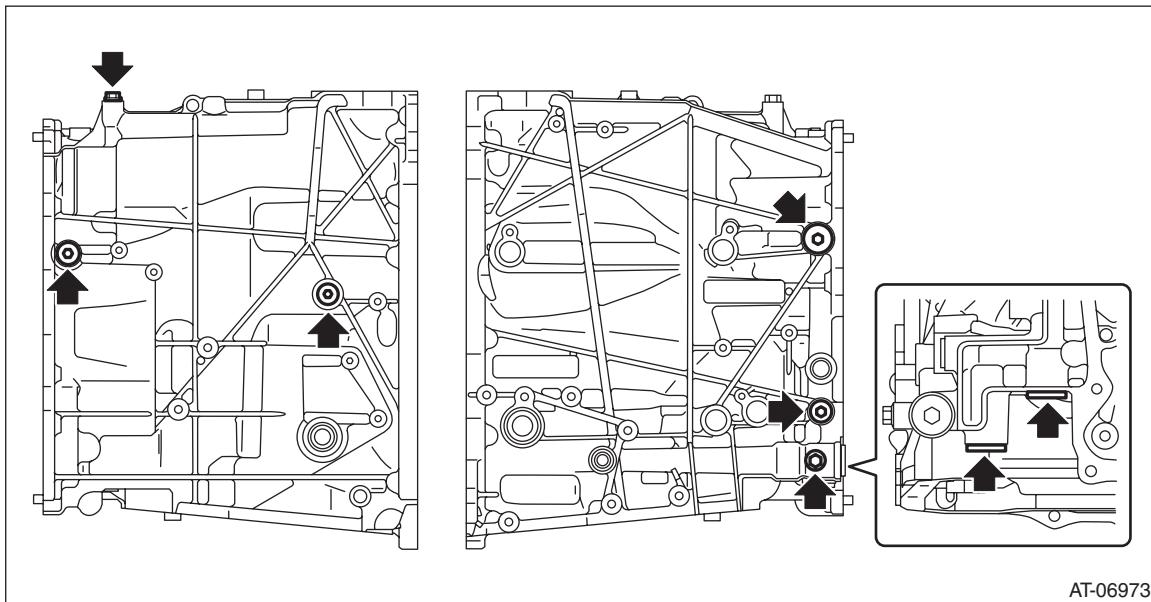
- 14) Install the parking pawl. <Ref. to CVT-185, INSTALLATION, Parking Pawl.>
- 15) Install the transfer driven gear assembly. <Ref. to CVT-182, INSTALLATION, Transfer Driven Gear.>
- 16) Install the transfer clutch assembly. <Ref. to CVT-169, INSTALLATION, Transfer Clutch.>
- 17) Install the extension case. <Ref. to CVT-164, INSTALLATION, Extension Case.>
- 18) Install the inhibitor switch. <Ref. to CVT-101, INSTALLATION, Inhibitor Switch.>
- 19) Install the secondary speed sensor. <Ref. to CVT-105, INSTALLATION, Secondary Speed Sensor.>
- 20) Install the primary speed sensor. <Ref. to CVT-108, INSTALLATION, Primary Speed Sensor.>
- 21) Install the turbine speed sensor. <Ref. to CVT-103, INSTALLATION, Turbine Speed Sensor.>
- 22) Install the transmission harness. <Ref. to CVT-136, INSTALLATION, Transmission Harness.>
- 23) Install the control valve body. <Ref. to CVT-122, INSTALLATION, Control Valve Body.>
- 24) Install the air breather hose. <Ref. to CVT-156, INSTALLATION, Air Breather Hose.>
- 25) Install the transmission assembly to the vehicle. <Ref. to CVT-72, INSTALLATION, Automatic Transmission Assembly.>

## C: DISASSEMBLY

- 1) Remove the oil stopper plate.



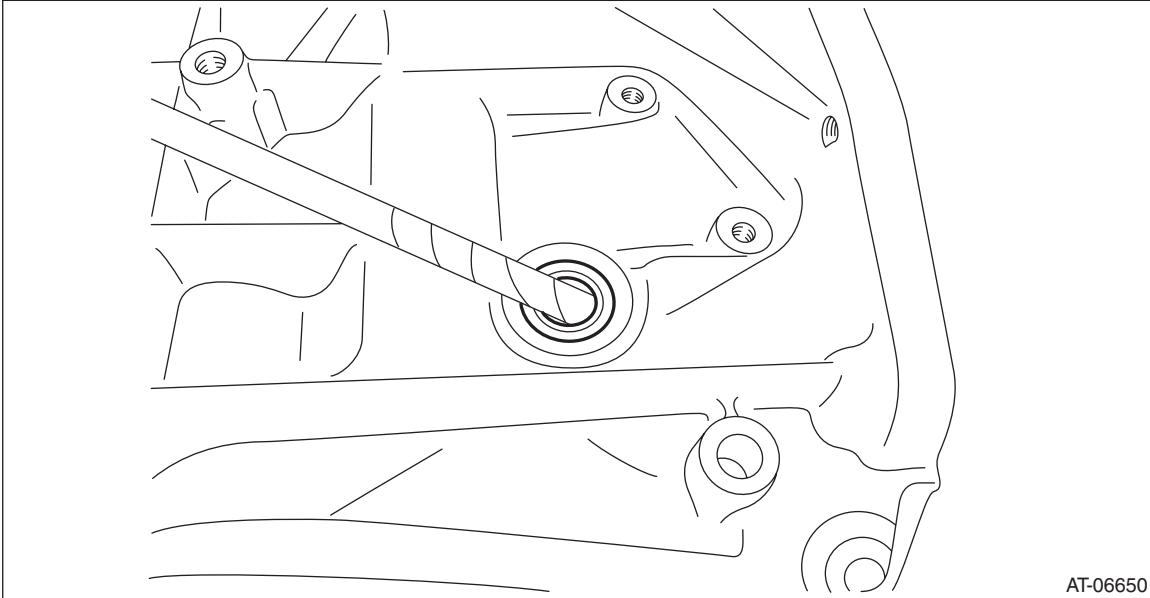
- 2) Remove all plugs from the transmission case.



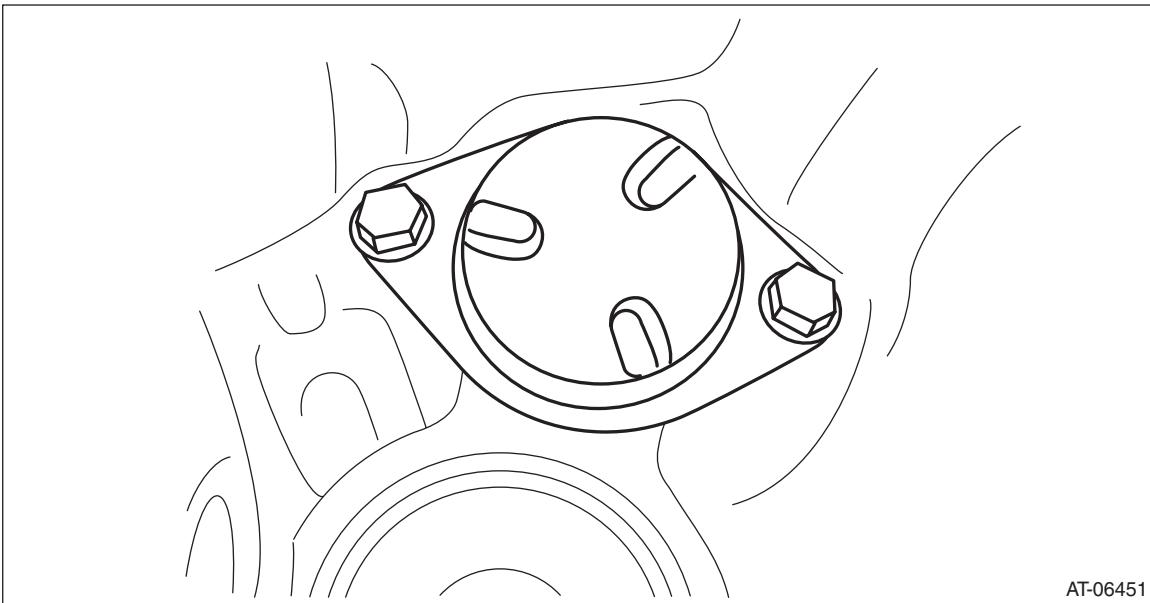
## Transmission Case

### CONTINUOUSLY VARIABLE TRANSMISSION

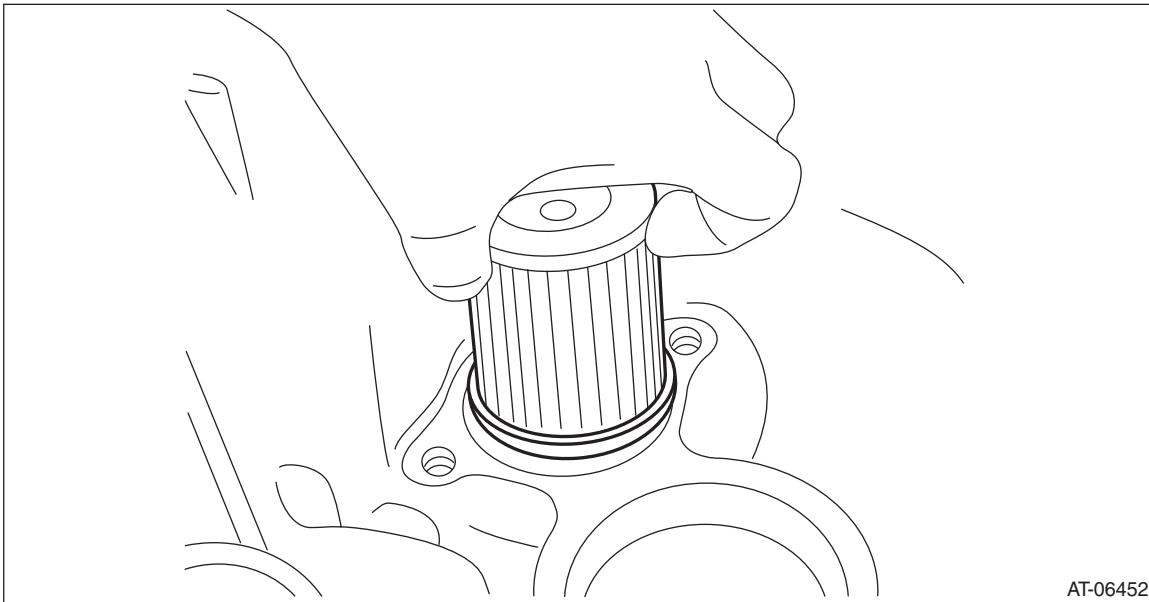
- 3) Remove the oil seal using a screwdriver wrapped with cloth etc.



- 4) Remove the CVTF filter cover and gasket.



5) Remove the CVTF filter.

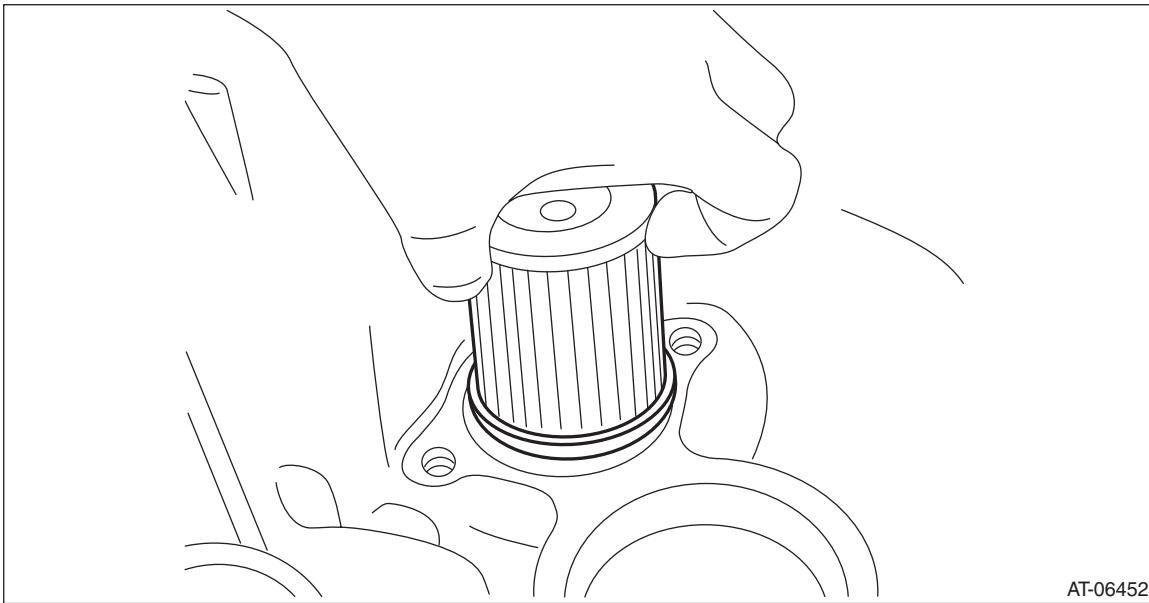


## D: ASSEMBLY

1) Face the O-ring side of the CVTF filter to the transmission case side, and install the CVTF filter.

NOTE:

Apply CVTF to the O-ring of CVTF filter.



# Transmission Case

## CONTINUOUSLY VARIABLE TRANSMISSION

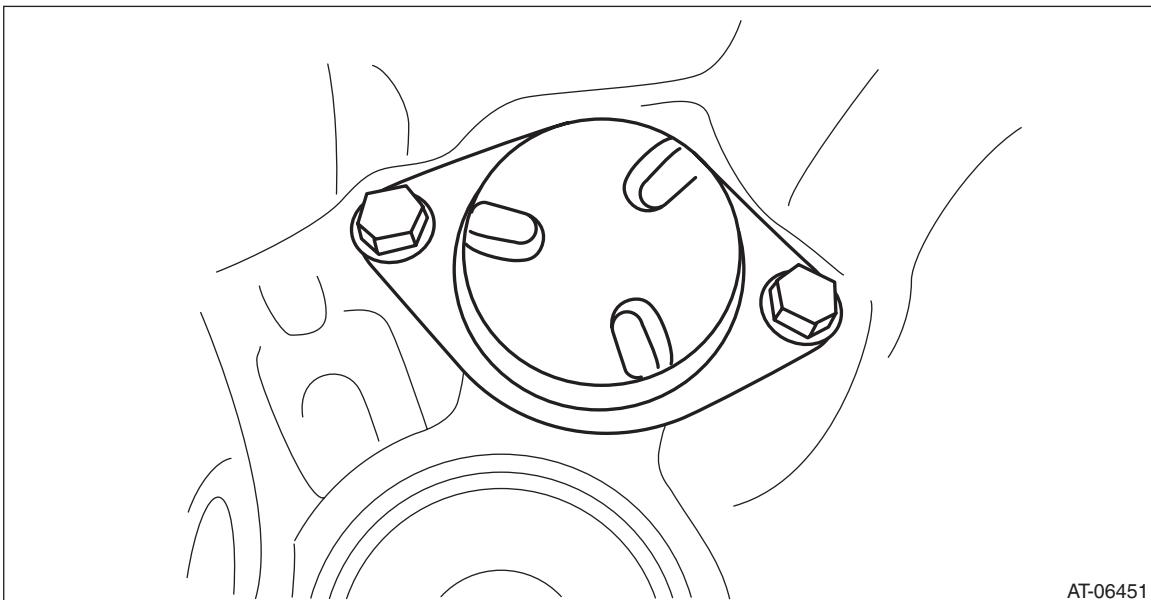
2) Install the CVTF filter cover and gasket.

NOTE:

Use a new gasket.

**Tightening torque:**

**17 N·m (1.7 kgf·m, 12.5 ft-lb)**

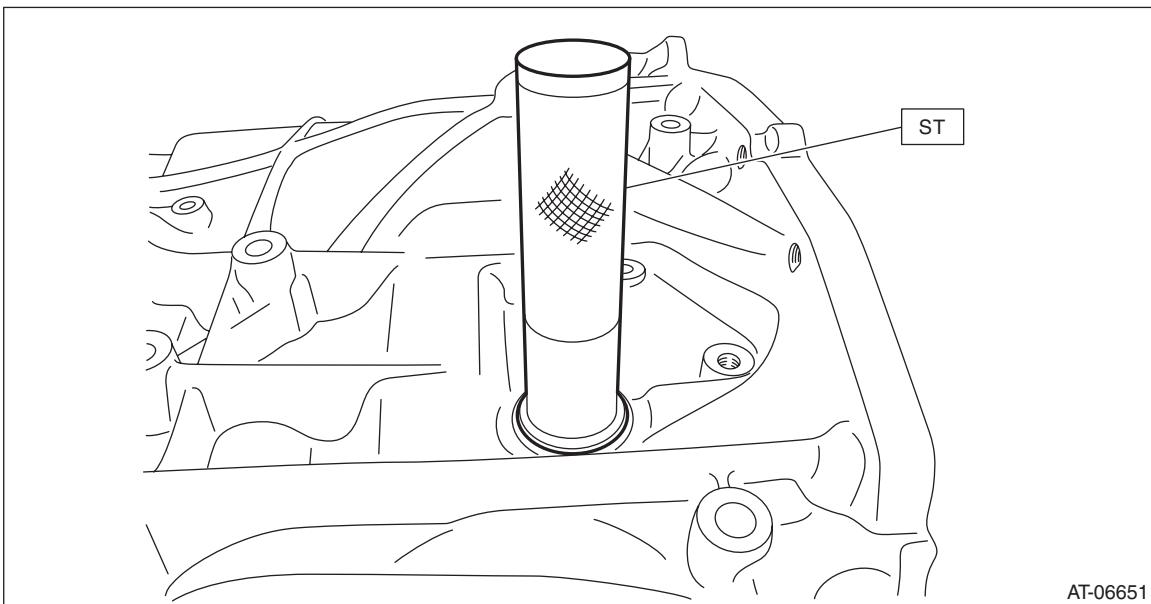


3) Using the ST, install the oil seal.

NOTE:

- Use a new oil seal.
- Apply CVTF to the oil seal lip and press-fitting surface.

ST 18657AA000 INSTALLER



4) Install all plugs.

NOTE:

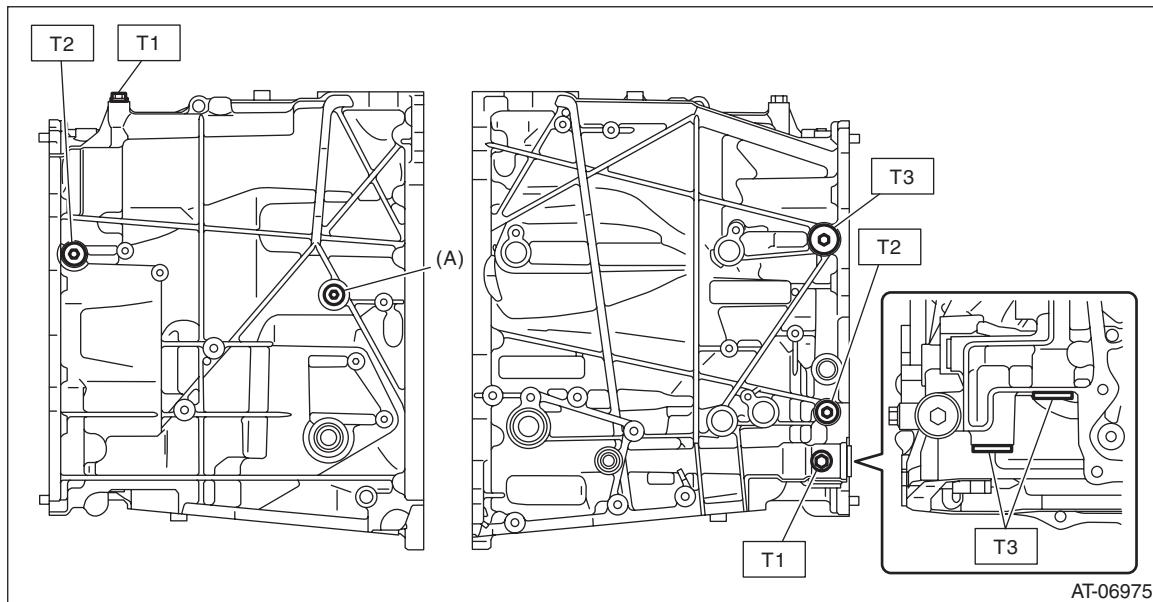
- Use new O-rings.
- Apply CVTF to the O-ring.
- For the plug (A), fill the CVTF, and then tighten the plug using a new O-ring.

**Tightening torque:**

**T1: 13 N·m (1.3 kgf-m, 9.6 ft-lb)**

**T2: 25 N·m (2.5 kgf-m, 18.4 ft-lb)**

**T3: 50 N·m (5.1 kgf-m, 36.9 ft-lb)**



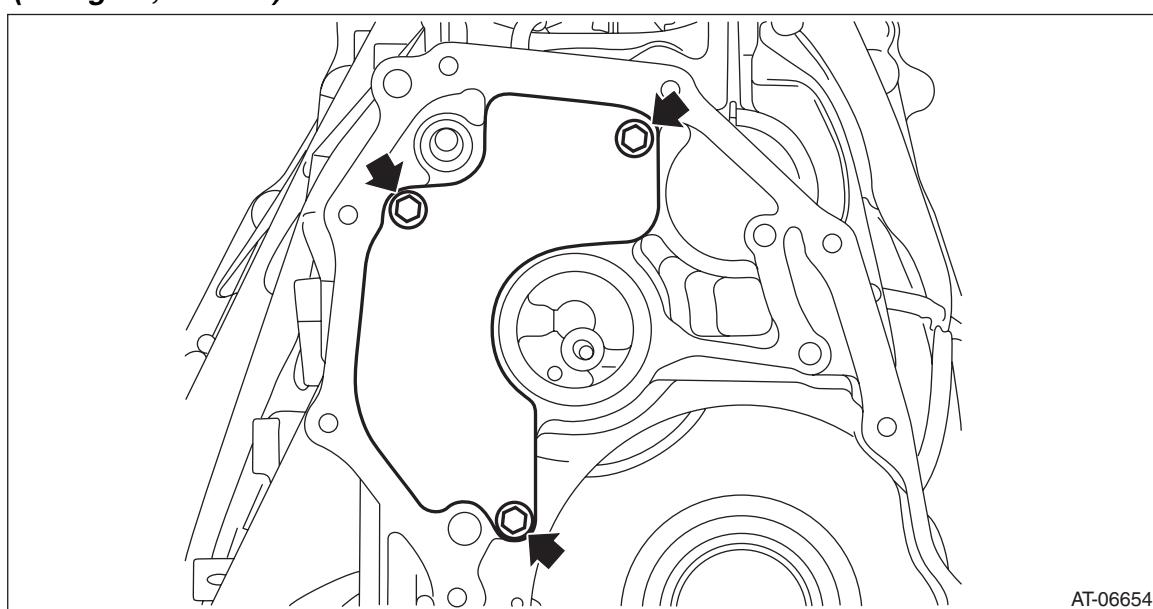
5) Install the oil stopper plate.

NOTE:

Use a new bolt.

**Tightening torque:**

**9 N·m (0.9 kgf-m, 6.6 ft-lb)**



# Transmission Case

## CONTINUOUSLY VARIABLE TRANSMISSION

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### E: INSPECTION

- Check the transmission case for damage.
- Check for leakage of CVTF from the connection between converter case and transmission case.
- Check the bearing for smooth operation.
- Check the bearing for seizure or wear.

### F: ADJUSTMENT

#### NOTE:

When replacing the transmission case with a new part, perform the following check and adjustment for the selection.

- Select the transfer driven gear shim. <Ref. to CVT-178, ADJUSTMENT, Transfer Clutch.>
- Select the transfer drive gear shim. <Ref. to CVT-192, ADJUSTMENT, Reduction Driven Gear.>
- Select the reduction drive gear shim. <Ref. to CVT-215, ADJUSTMENT, Reduction Drive Gear.>