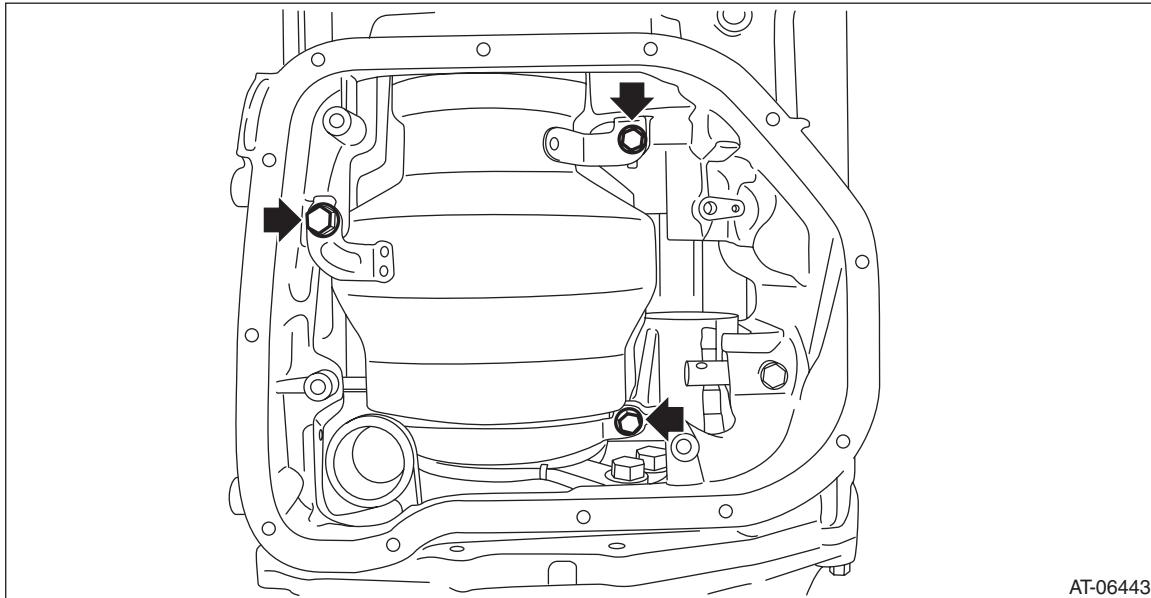


34. Transmission Case

A: REMOVAL

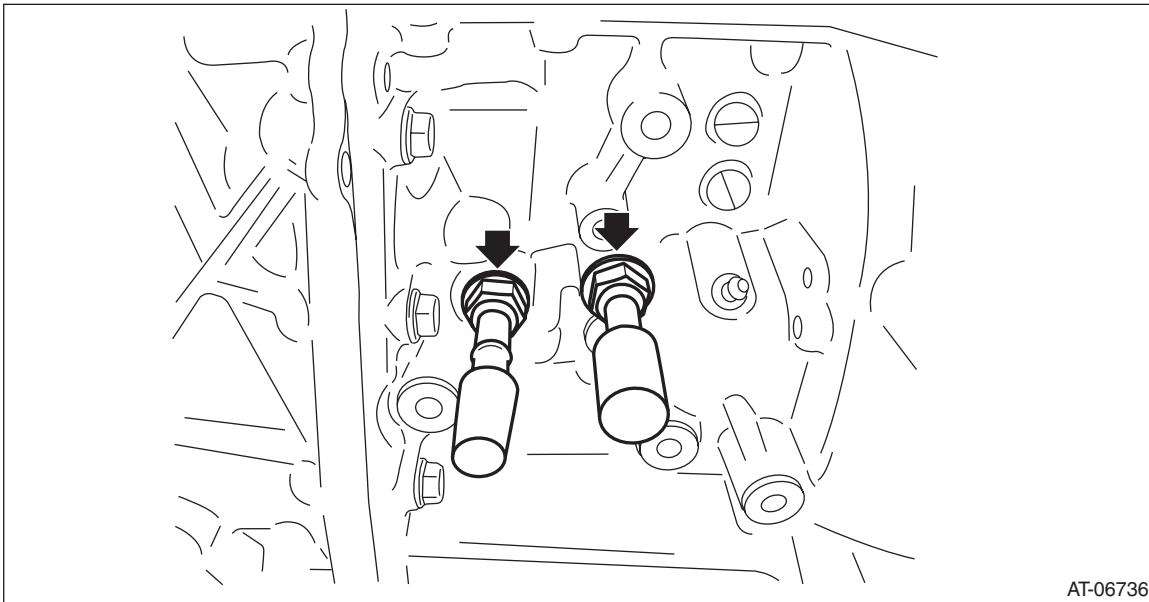
- 1) Remove the transmission assembly from the vehicle. <Ref. to CVT-58, REMOVAL, Automatic Transmission Assembly.>
- 2) Remove the air breather hose. <Ref. to CVT-148, REMOVAL, Air Breather Hose.>
- 3) Remove the control valve body. <Ref. to CVT-112, REMOVAL, Control Valve Body.>
- 4) Remove the transmission harness. <Ref. to CVT-124, REMOVAL, Transmission Harness.>
- 5) Remove the turbine speed sensor. <Ref. to CVT-99, REMOVAL, Turbine Speed Sensor.>
- 6) Remove the secondary speed sensor. <Ref. to CVT-101, REMOVAL, Secondary Speed Sensor.>
- 7) Remove the primary speed sensor. <Ref. to CVT-103, REMOVAL, Primary Speed Sensor.>
- 8) Remove the inhibitor switch. <Ref. to CVT-94, REMOVAL, Inhibitor Switch.>
- 9) Remove the extension case. <Ref. to CVT-156, REMOVAL, Extension Case.>
- 10) Remove the transfer clutch assembly. <Ref. to CVT-160, REMOVAL, Transfer Clutch.>
- 11) Remove the transfer driven gear assembly. <Ref. to CVT-174, REMOVAL, Transfer Driven Gear.>
- 12) Remove the parking pawl. <Ref. to CVT-177, REMOVAL, Parking Pawl.>
- 13) Remove the reduction driven gear assembly. <Ref. to CVT-179, REMOVAL, Reduction Driven Gear.>
- 14) Remove the oil pan and oil strainer. <Ref. to CVT-108, REMOVAL, Oil Pan and Strainer.>
- 15) Remove the transmission control device. <Ref. to CVT-187, REMOVAL, Transmission Control Device.>
- 16) Remove the oil baffle securing bolt.



Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

- 17) Remove the oil cooler pipe.

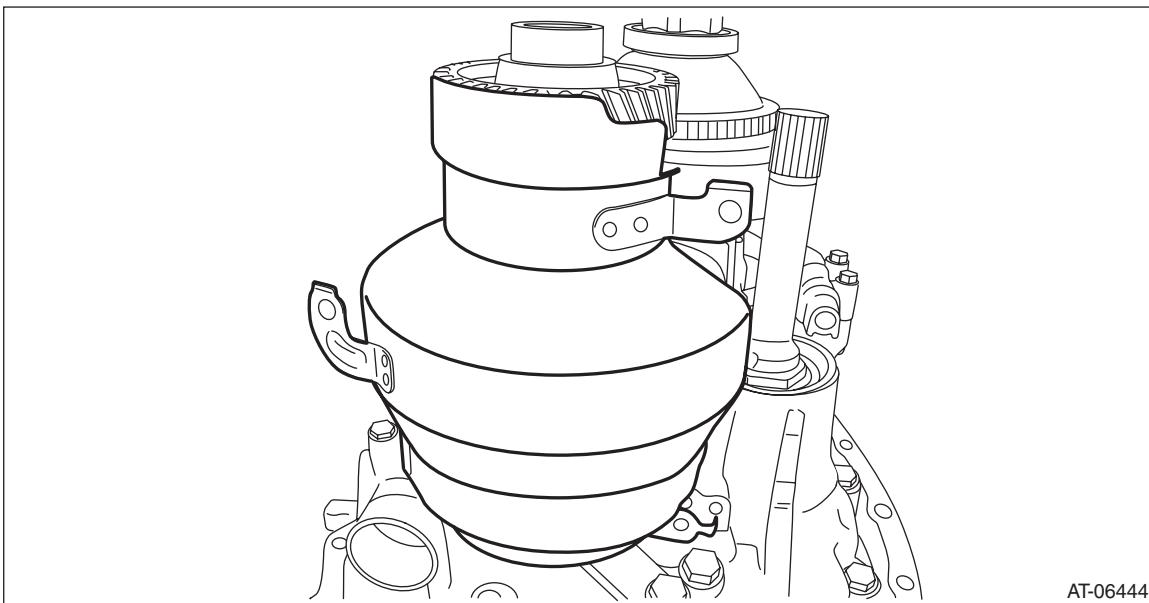


- 18) Remove the transmission case.

NOTE:

The total number of transmission case mounting bolts is 15.

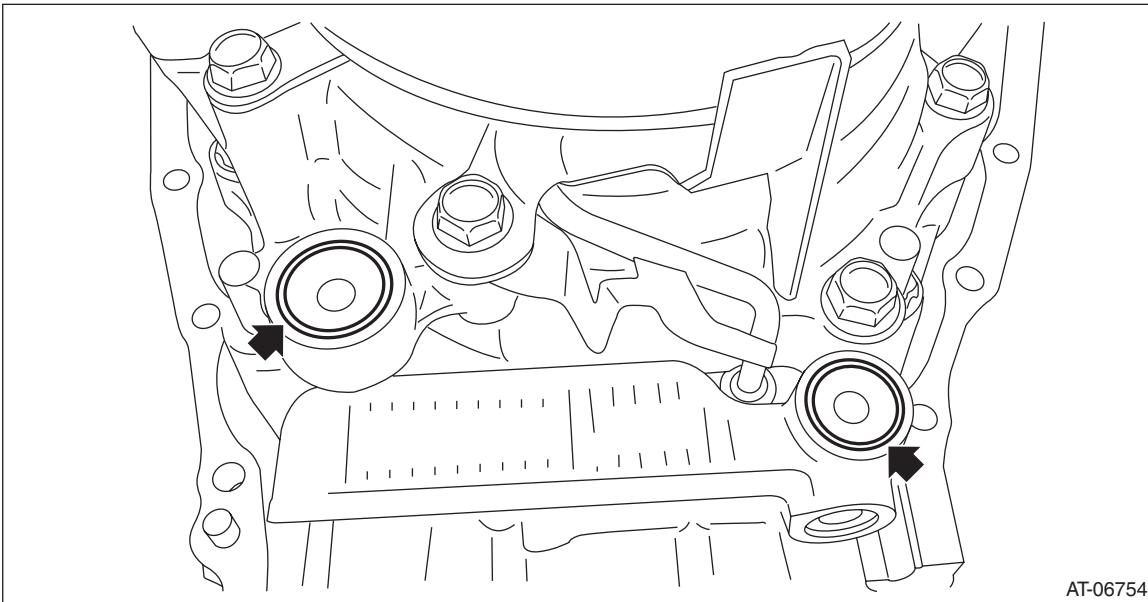
- 19) Remove the oil baffle.



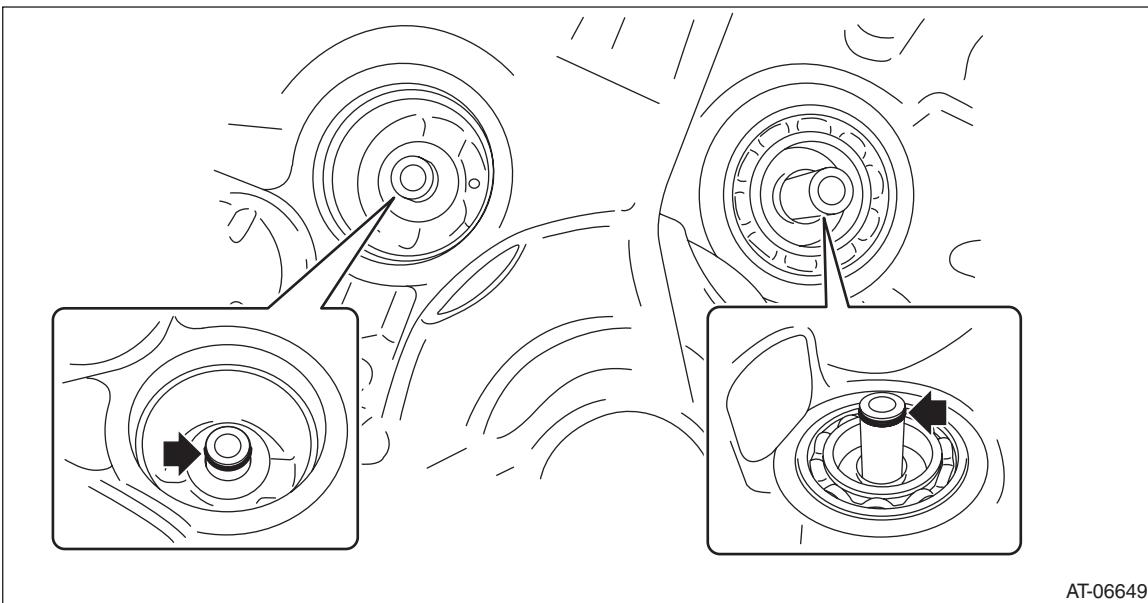
Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

20) Remove the O-ring.



21) Remove the seal ring from the transmission case.



Transmission Case

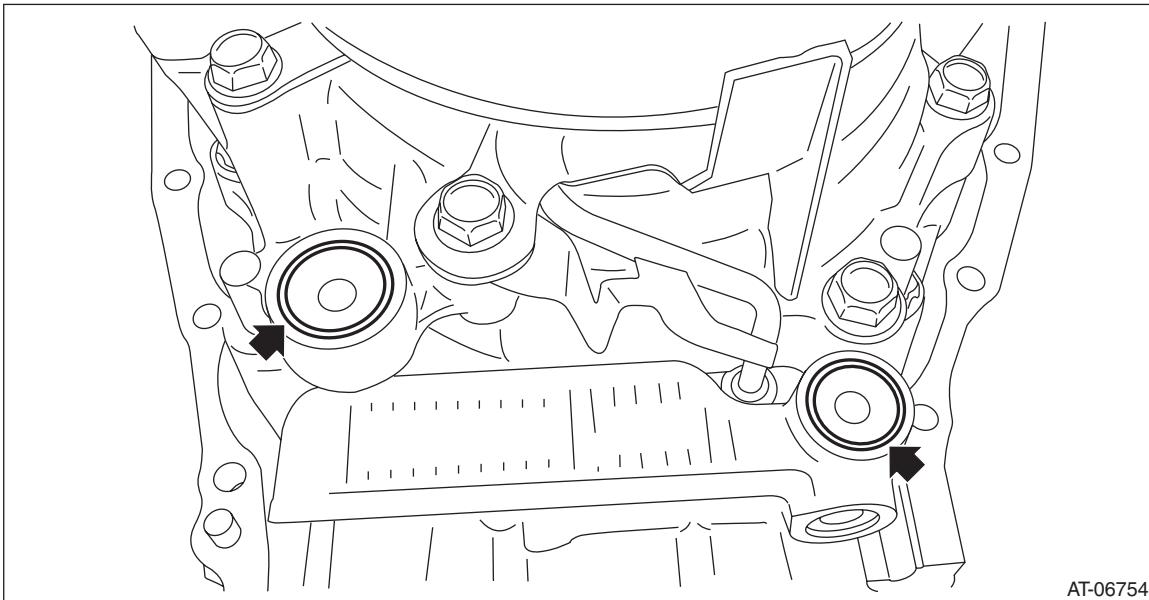
CONTINUOUSLY VARIABLE TRANSMISSION

B: INSTALLATION

- 1) Clean the mating surface of transmission case and converter case.
- 2) Select the reduction gear shim. <Ref. to CVT-211, 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:

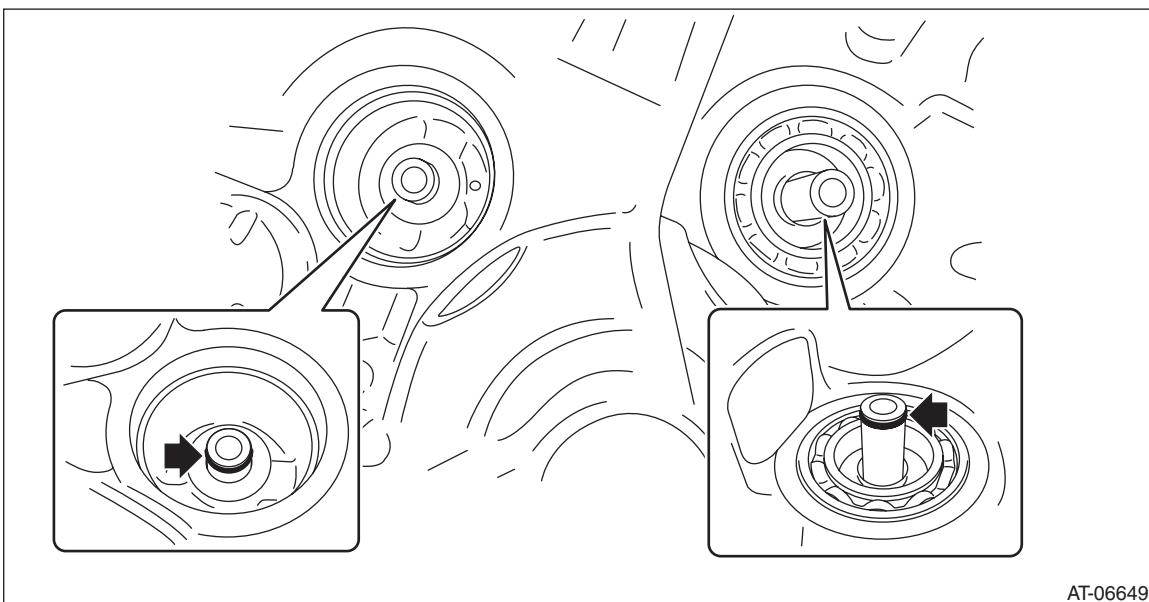
- Use new O-rings.
- Apply CVTF to the O-ring.



- 5) Install the seal ring to the transmission case.

NOTE:

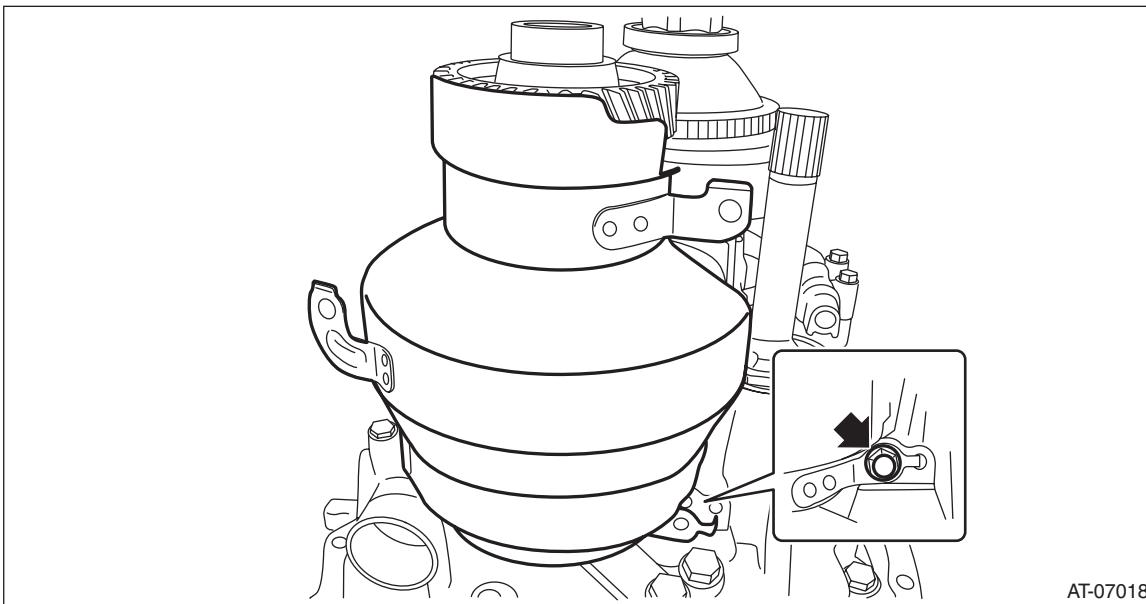
- Use a new seal ring.
- Apply CVTF to the seal rings.



Transmission Case

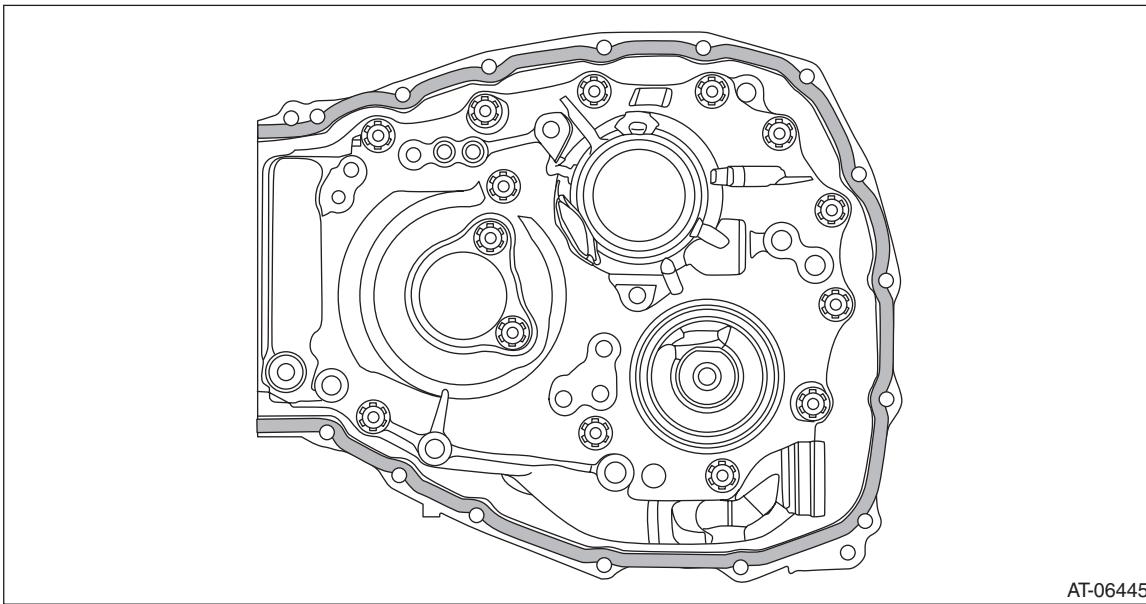
CONTINUOUSLY VARIABLE TRANSMISSION

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



- 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)

Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

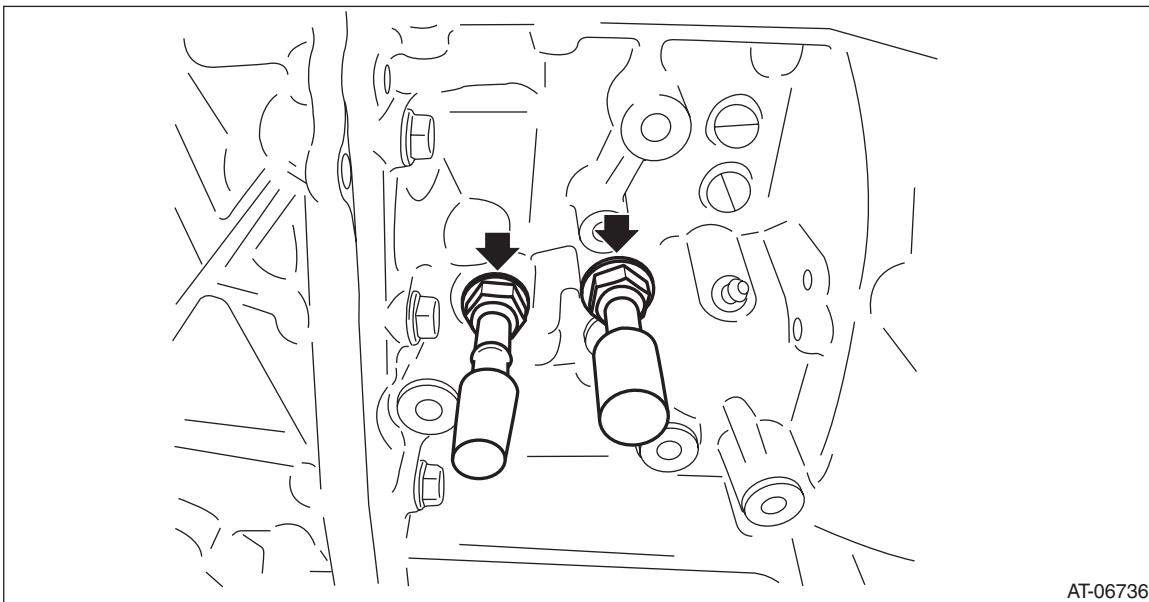
9) Install the oil cooler pipe.

NOTE:

Use new O-rings.

Tightening torque:

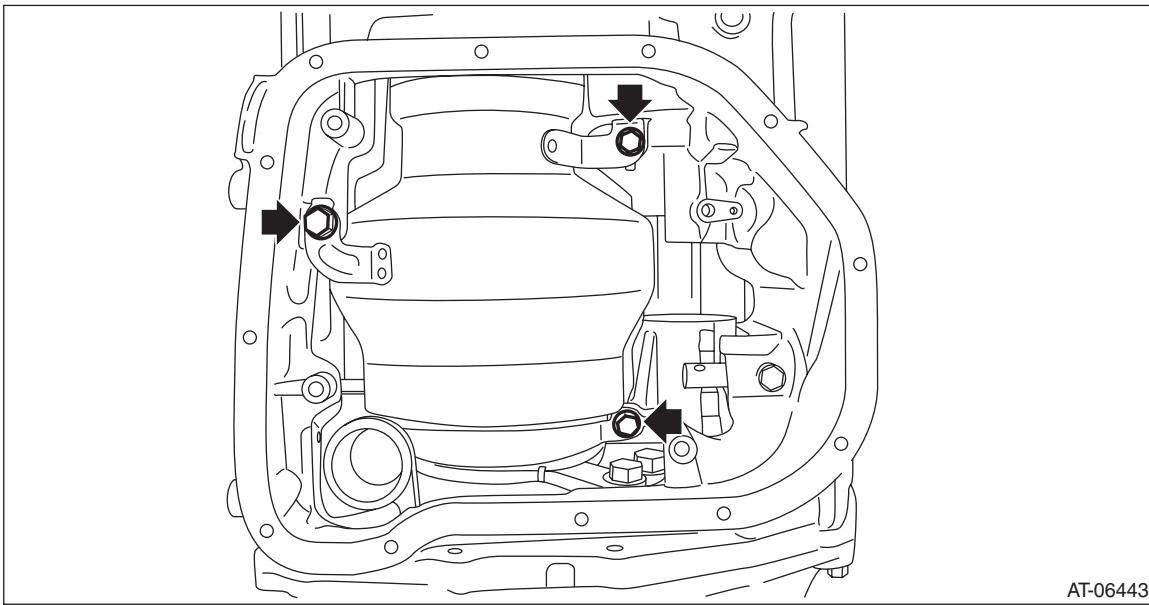
25 N·m (2.5 kgf·m, 18.4 ft-lb)



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-190, INSTALLATION, Transmission Control Device.>

12) Install the oil pan and oil strainer. <Ref. to CVT-109, INSTALLATION, Oil Pan and Strainer.>

13) Install the reduction driven gear assembly. <Ref. to CVT-179, INSTALLATION, Reduction Driven Gear.>

14) Install the parking pawl. <Ref. to CVT-178, INSTALLATION, Parking Pawl.>

15) Install the transfer driven gear assembly. <Ref. to CVT-175, INSTALLATION, Transfer Driven Gear.>

16) Install the transfer clutch assembly. <Ref. to CVT-162, INSTALLATION, Transfer Clutch.>

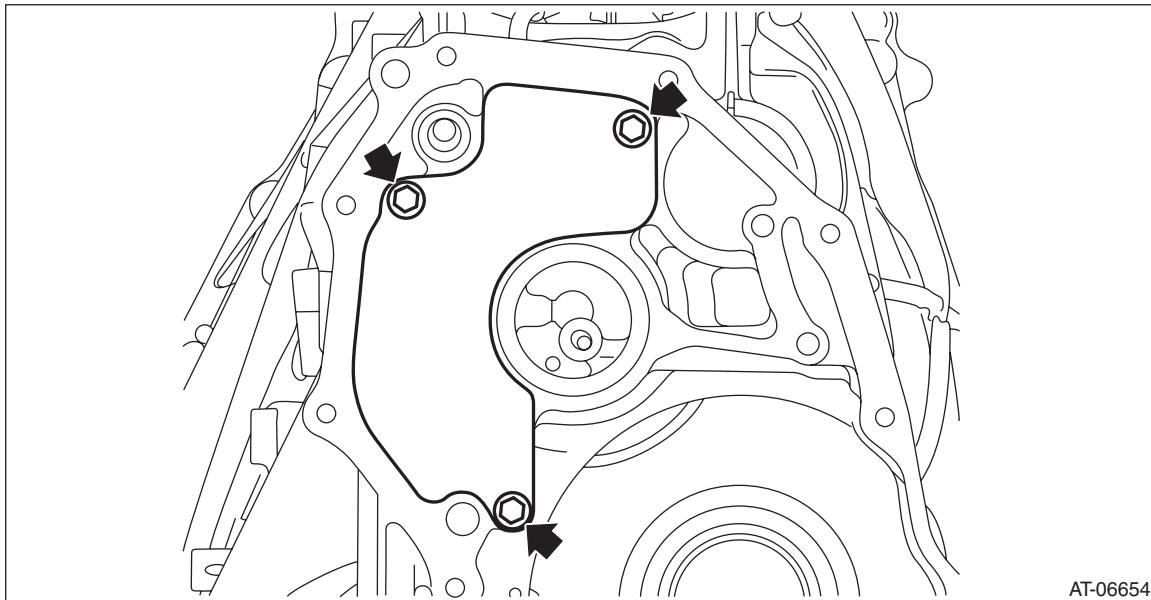
17) Install the extension case. <Ref. to CVT-157, INSTALLATION, Extension Case.>

18) Install the inhibitor switch. <Ref. to CVT-96, INSTALLATION, Inhibitor Switch.>

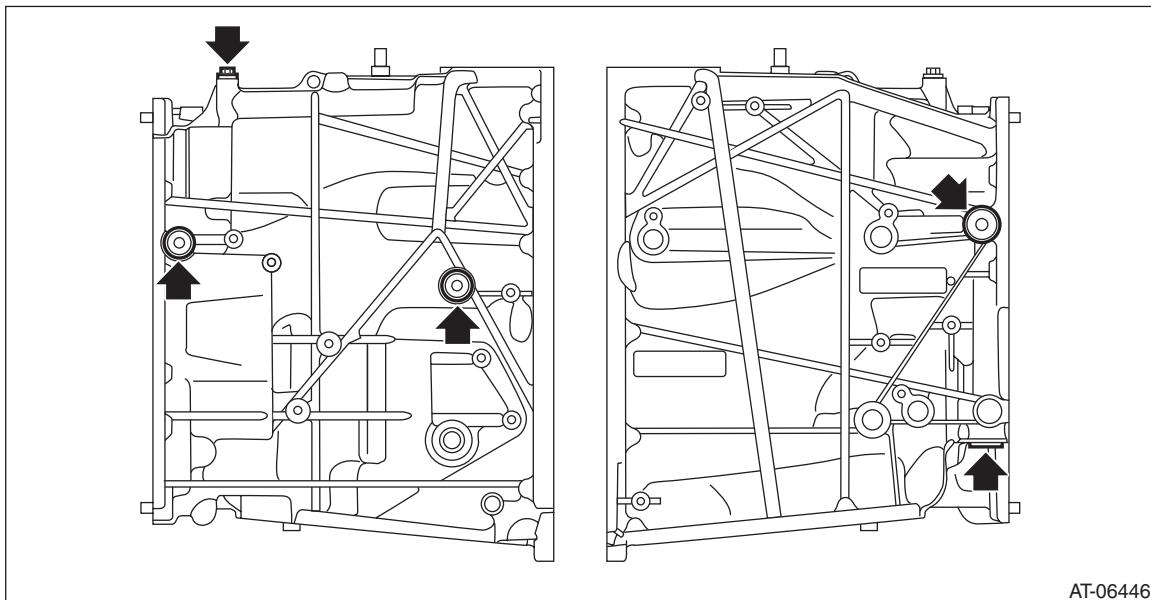
- 19) Install the secondary speed sensor. <Ref. to CVT-101, INSTALLATION, Secondary Speed Sensor.>
- 20) Install the primary speed sensor. <Ref. to CVT-104, INSTALLATION, Primary Speed Sensor.>
- 21) Install the turbine speed sensor. <Ref. to CVT-99, INSTALLATION, Turbine Speed Sensor.>
- 22) Install the transmission harness. <Ref. to CVT-130, INSTALLATION, Transmission Harness.>
- 23) Install the control valve body. <Ref. to CVT-117, INSTALLATION, Control Valve Body.>
- 24) Install the air breather hose. <Ref. to CVT-149, INSTALLATION, Air Breather Hose.>
- 25) Install the transmission assembly to the vehicle. <Ref. to CVT-69, INSTALLATION, Automatic Transmission Assembly.>

C: DISASSEMBLY

- 1) Remove the oil stopper plate.



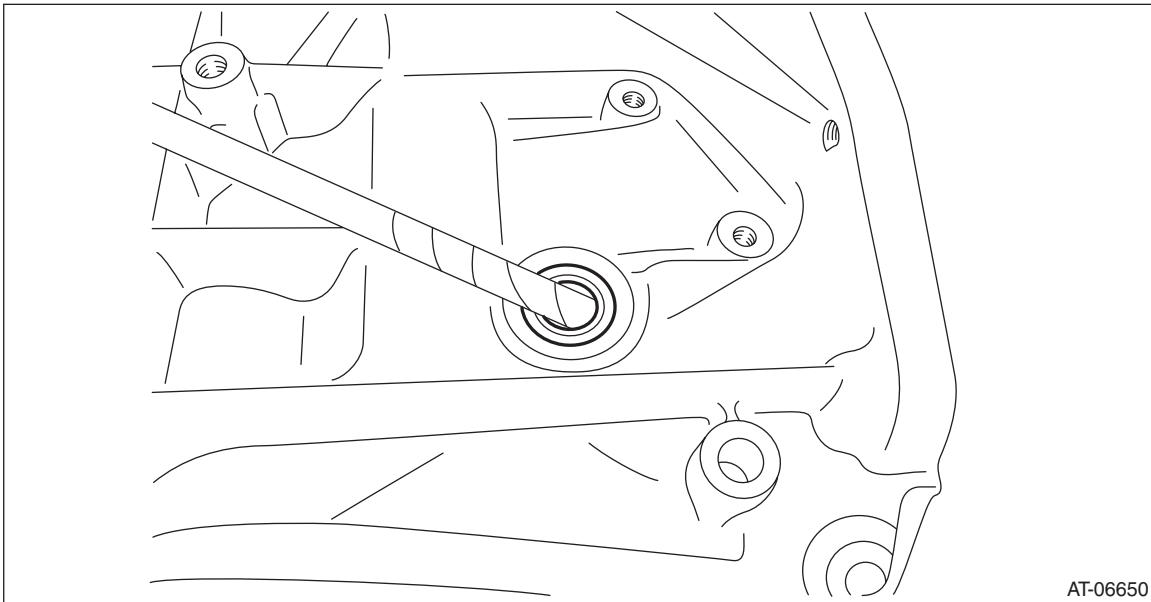
- 2) Remove all plugs from the transmission case.



Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

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

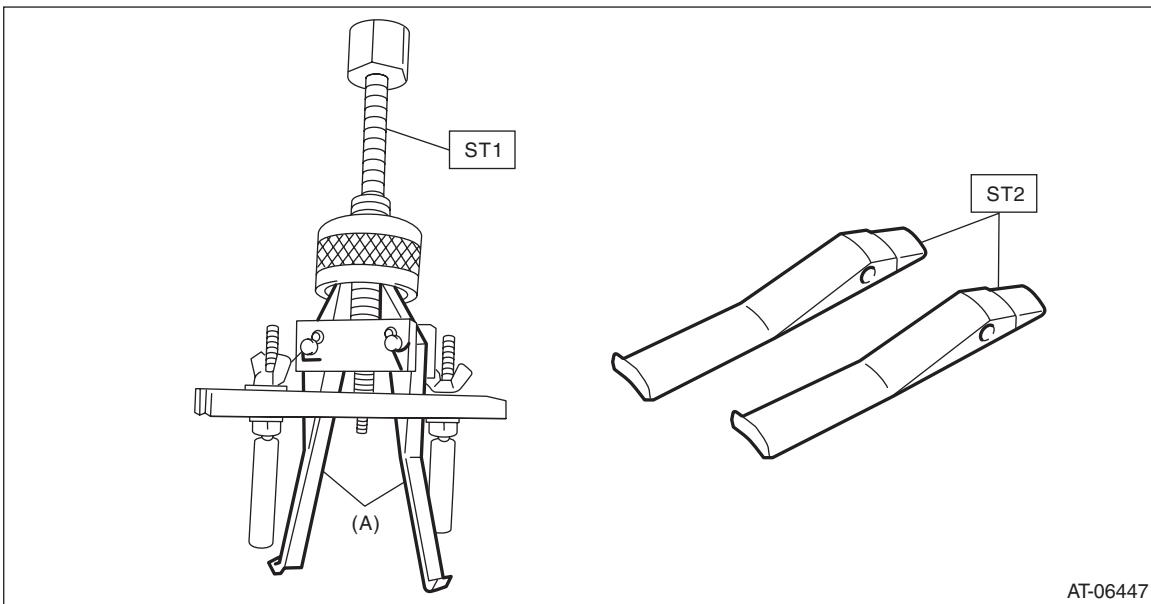


4) Using the ST, remove the ball bearing of the secondary pulley.

(1) Remove the claw of ST1, and attach the claw of ST2.

ST1 398527700 PULLER ASSY

ST2 18760AA000 CLAW

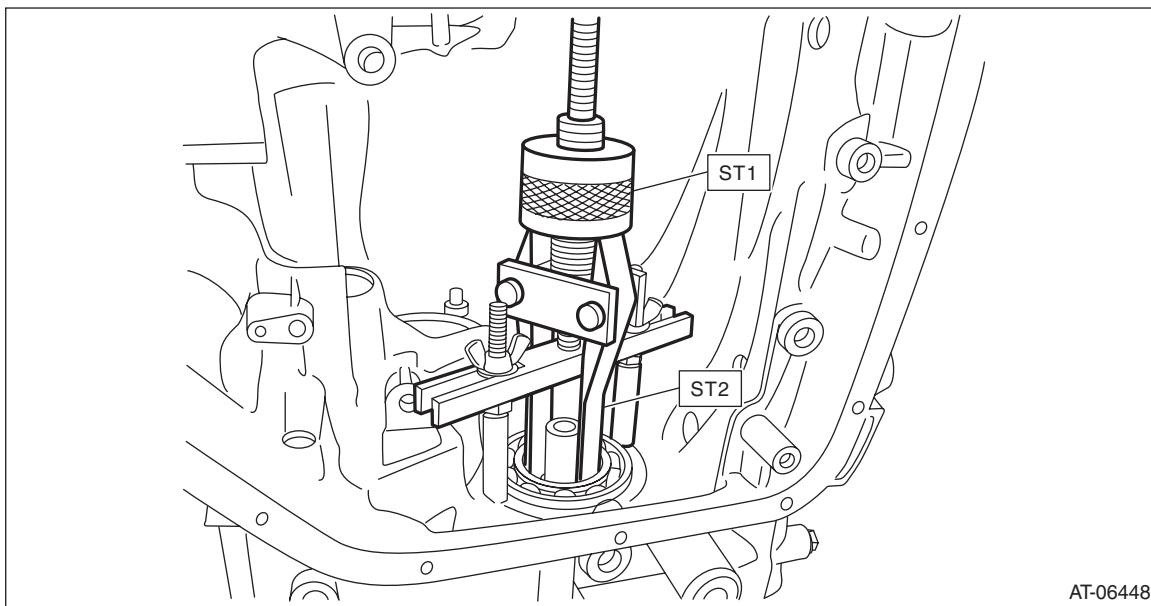


(A) Claw

Transmission Case

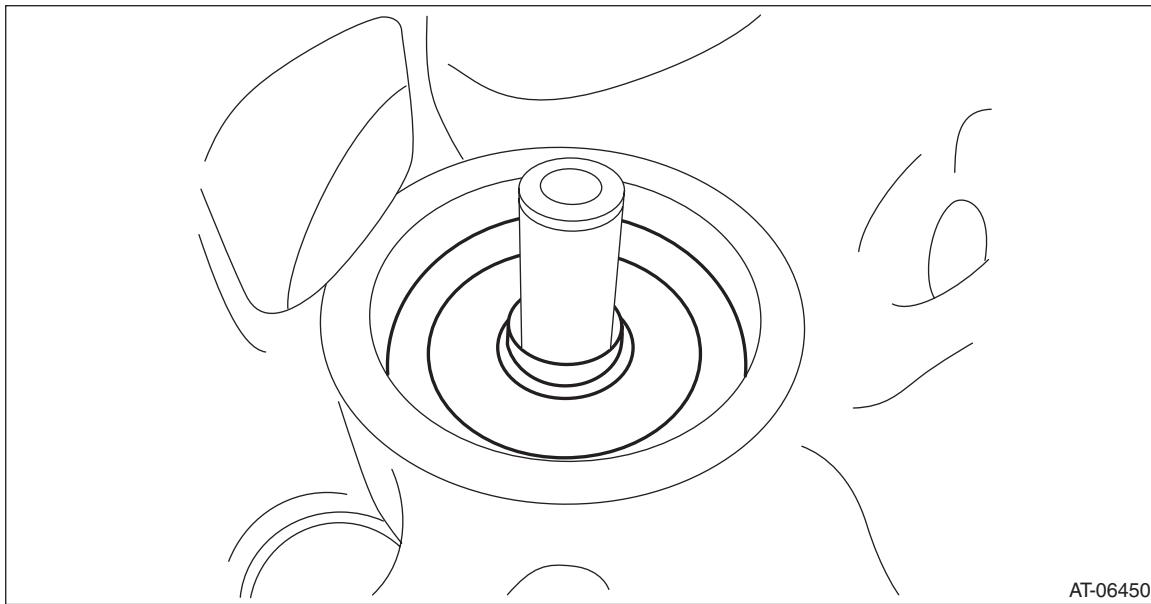
CONTINUOUSLY VARIABLE TRANSMISSION

(2) Using the ST, remove the ball bearing of the secondary pulley.
ST1 398527700 PULLER ASSY
ST2 18760AA000 CLAW



AT-06448

5) Remove the oil guide.



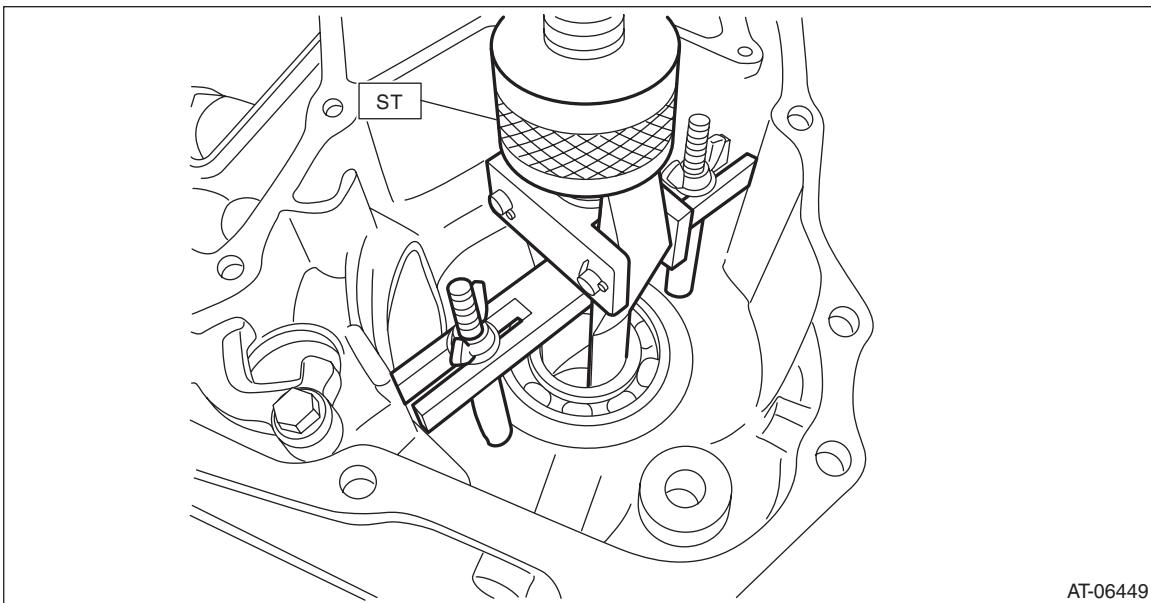
AT-06450

Transmission Case

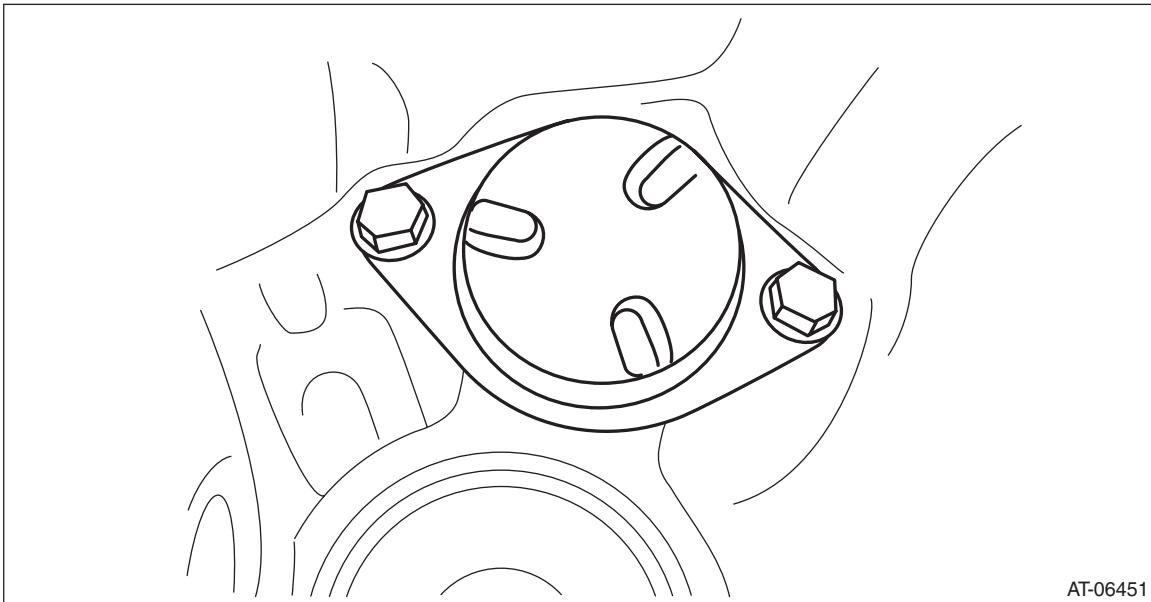
CONTINUOUSLY VARIABLE TRANSMISSION

6) Remove the ball bearing from reduction driven gear using ST.

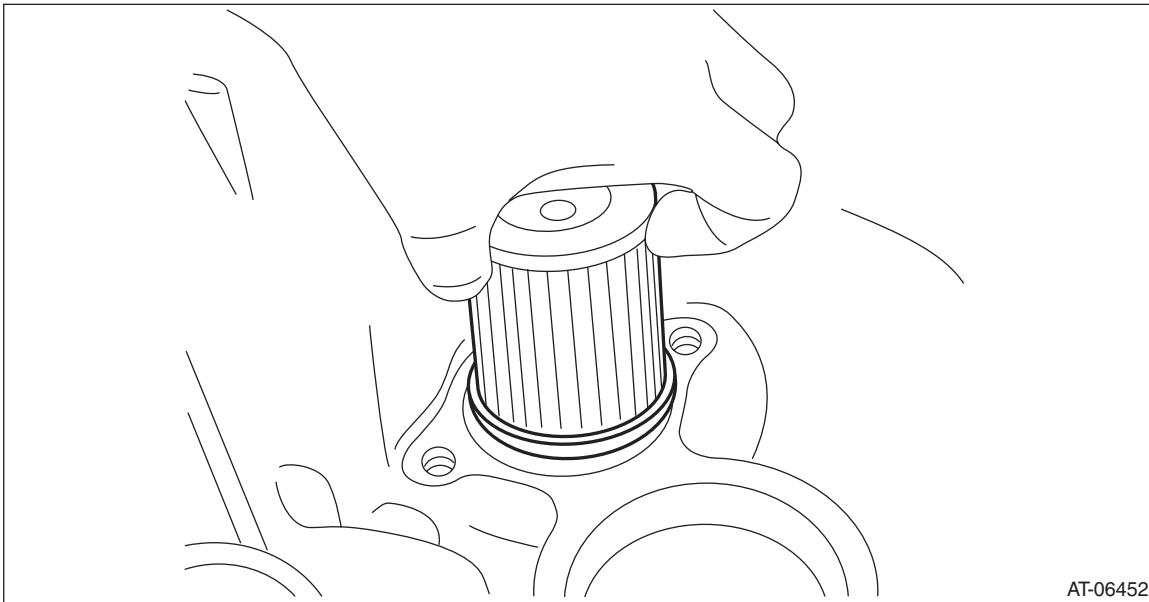
ST 398527700 PULLER ASSY



7) Remove the CVTF filter cover and gasket.



8) Remove the CVTF filter.

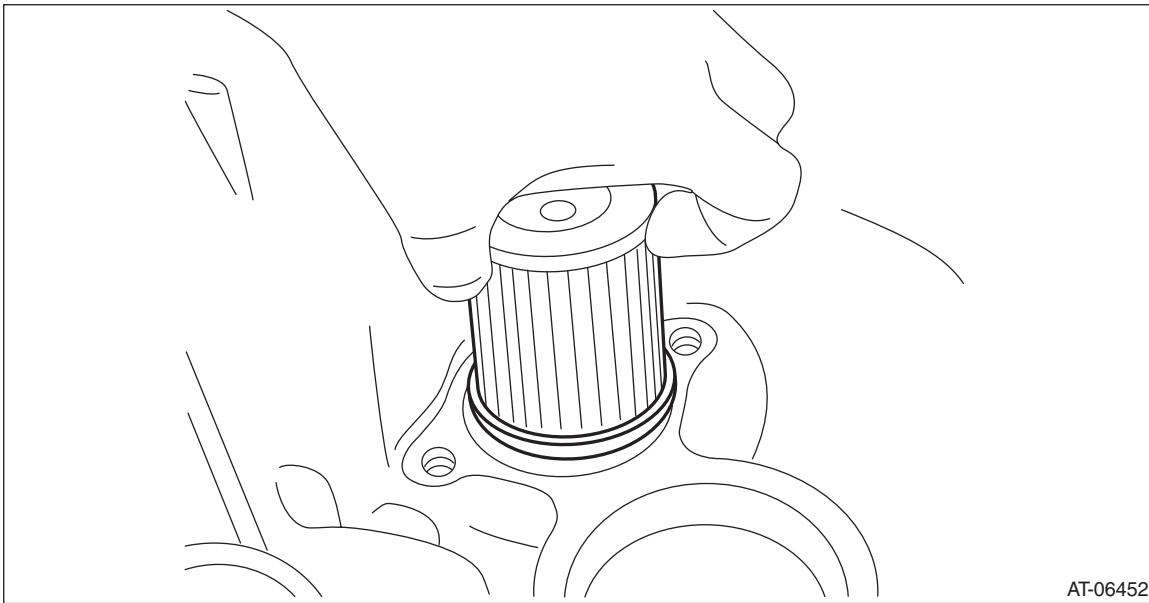


D: ASSEMBLY

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

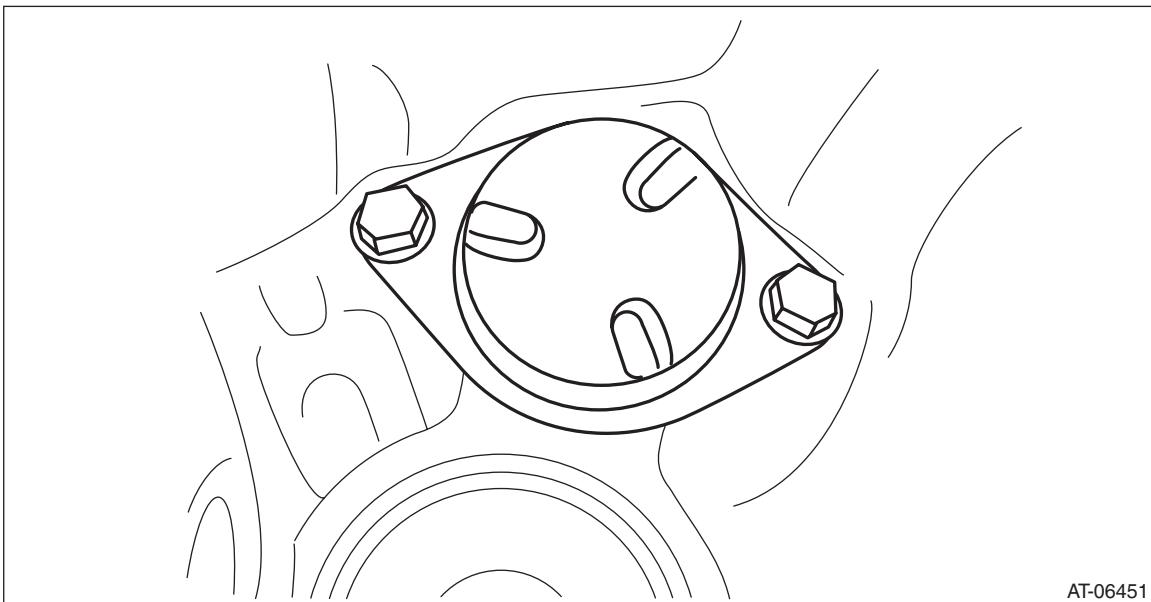
2) Install the CVTF filter cover and gasket.

NOTE:

Use a new gasket.

Tightening torque:

17 N·m (1.7 kgf·m, 12.5 ft-lb)

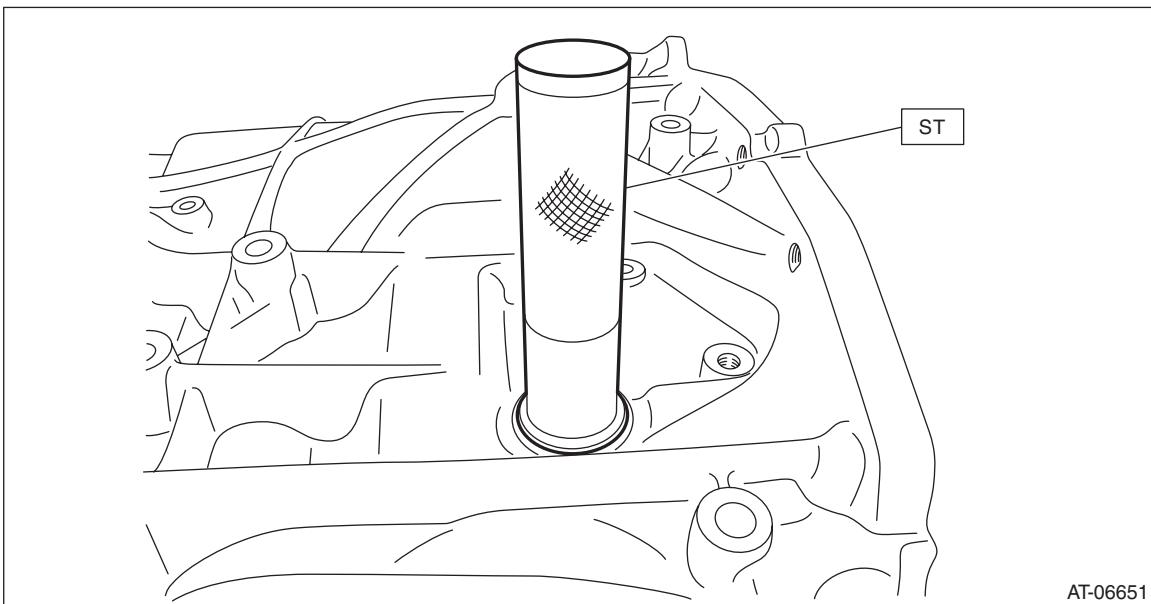


3) Using the ST, install the oil seal.

NOTE:

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

ST 18657AA000 INSTALLER



Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

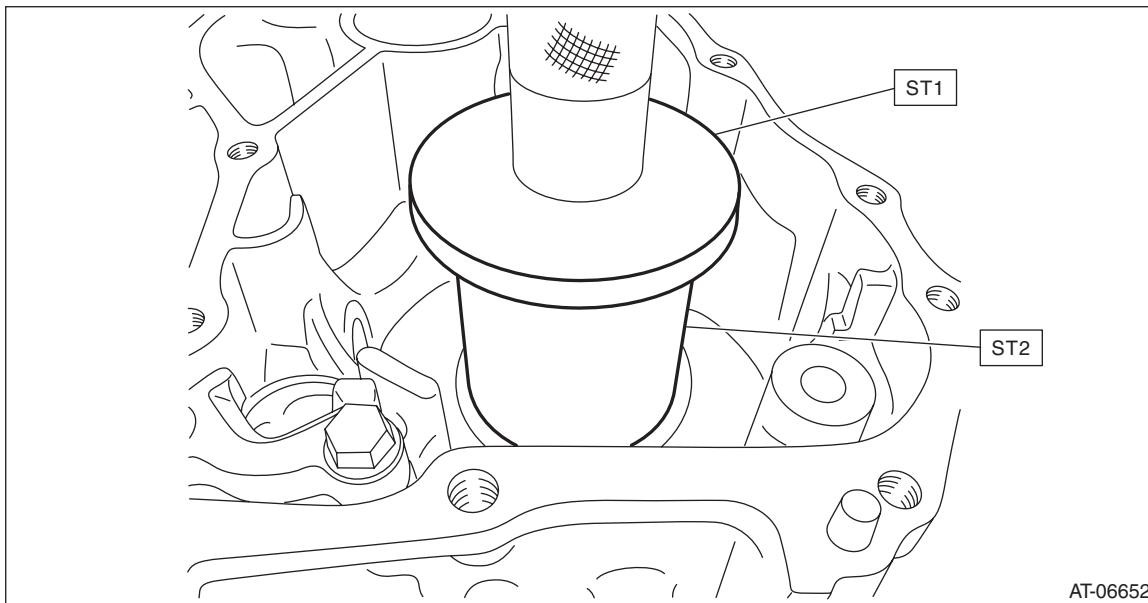
4) Using ST1 and ST2, install the ball bearing on the reduction driven gear side.

NOTE:

Use a new ball bearing.

ST1 398177700 INSTALLER

ST2 28499TC010 PRESS SNAP RING



5) Using ST1, ST2 and ST3, install the ball bearing on the secondary pulley side.

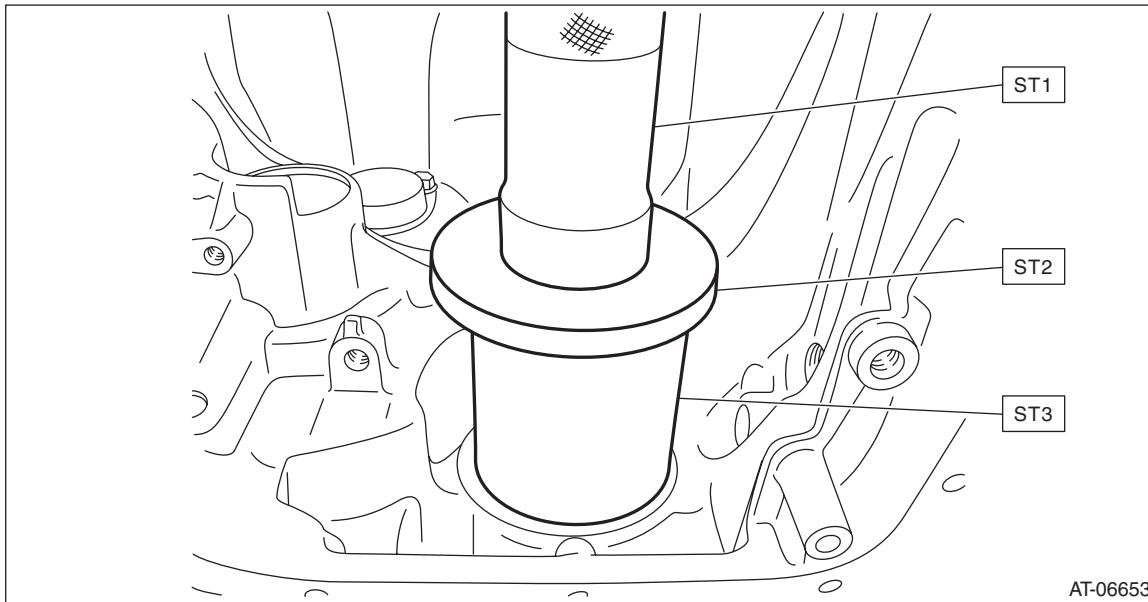
NOTE:

Use a new ball bearing.

ST1 499277100 BUSHING 1-2 INSTALLER

ST2 398177700 INSTALLER

ST3 28499TC010 PRESS SNAP RING



Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

6) Install all plugs.

NOTE:

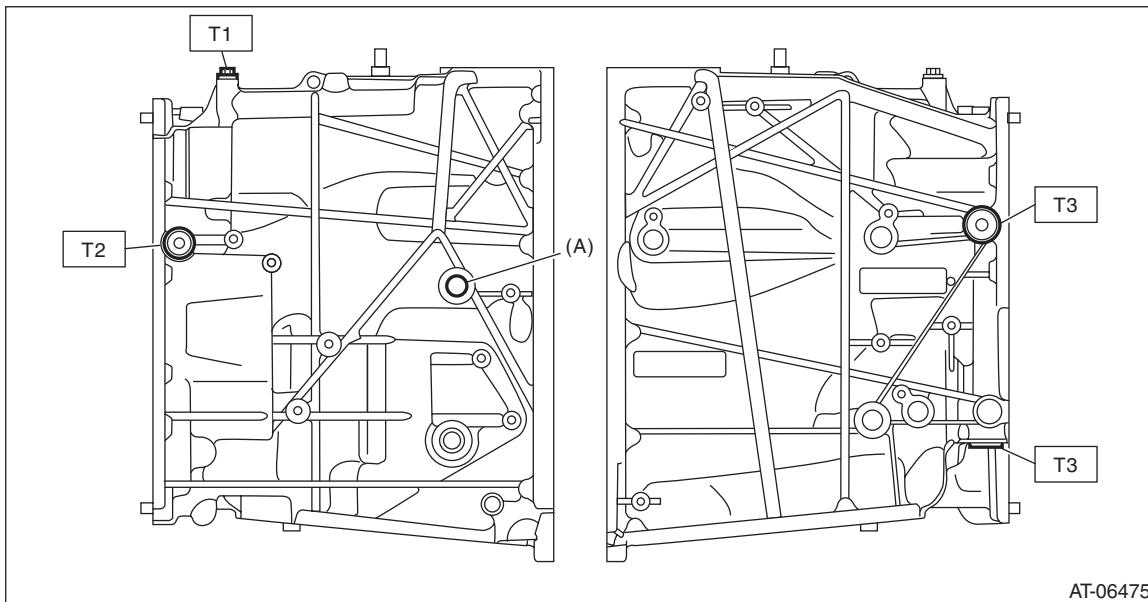
- Use new O-rings.
- Apply CVTF to the O-ring.
- For the plug (A), fill the CVTF, and then tighten the plug (A) using a new O-ring.

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)



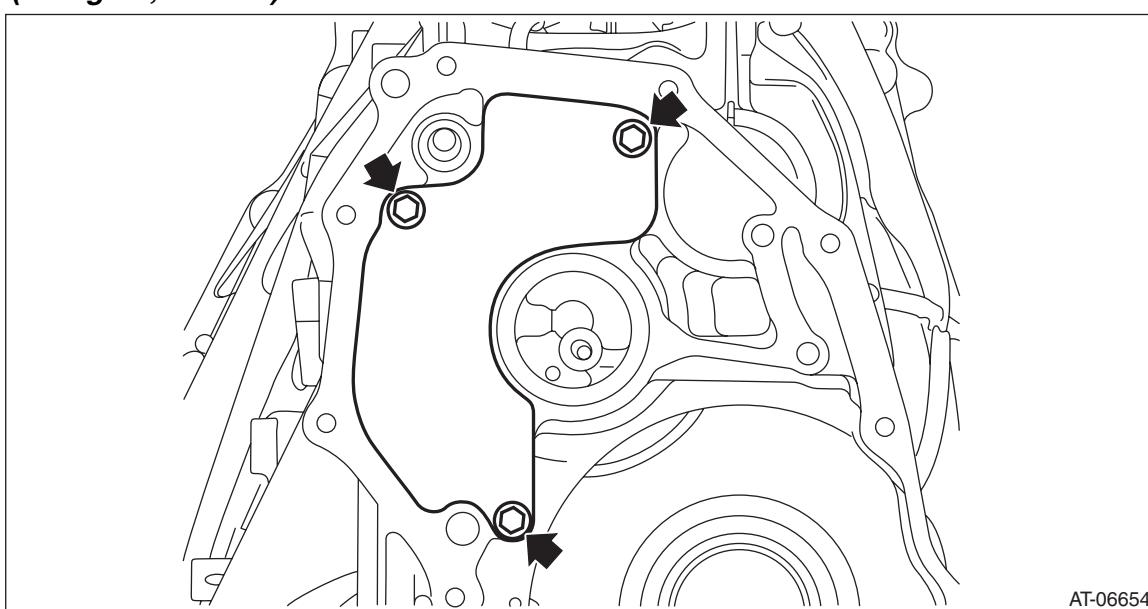
7) Install the oil stopper plate.

NOTE:

Use a new bolt.

Tightening torque:

9 N·m (0.9 kgf-m, 6.6 ft-lb)



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-171, ADJUSTMENT, Transfer Clutch.>
- Select the transfer drive gear shim. <Ref. to CVT-185, ADJUSTMENT, Reduction Driven Gear.>
- Select the reduction drive gear shim. <Ref. to CVT-211, ADJUSTMENT, Reduction Drive Gear.>