

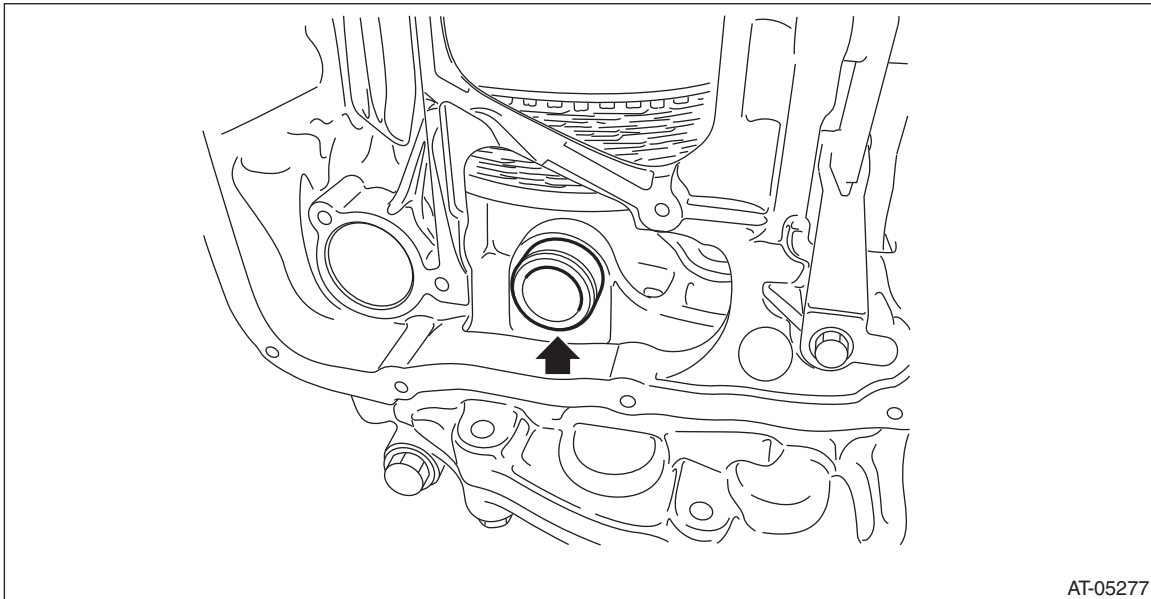
## 40. Transmission Case

### A: REMOVAL

- 1) Remove the transmission assembly from the vehicle. <Ref. to CVT-54, REMOVAL, Automatic Transmission Assembly.>
- 2) Remove the air breather hose. <Ref. to CVT-134, REMOVAL, Air Breather Hose.>
- 3) Remove the transmission harness. <Ref. to CVT-119, REMOVAL, Transmission Harness.>
- 4) Remove the secondary speed sensor. <Ref. to CVT-101, REMOVAL, Secondary Speed Sensor.>
- 5) Remove the inhibitor switch. <Ref. to CVT-97, REMOVAL, Inhibitor Switch.>
- 6) Remove the CVTF inlet pipe and CVTF outlet pipe. <Ref. to CVT-124, REMOVAL, CVTF Cooler Pipe and Hose.>
- 7) Remove the extension case. <Ref. to CVT-140, REMOVAL, Extension Case.>
- 8) Remove the rear drive shaft. <Ref. to CVT-143, REMOVAL, Rear Drive Shaft.>
- 9) Remove the transfer clutch assembly. <Ref. to CVT-148, REMOVAL, Transfer Clutch.>
- 10) Remove the transfer reduction driven gear assembly. <Ref. to CVT-160, REMOVAL, Transfer Reduction Driven Gear.>
- 11) Remove the intermediate case. <Ref. to CVT-167, REMOVAL, Intermediate Case.>
- 12) Remove the forward clutch assembly. <Ref. to CVT-182, REMOVAL, Forward Clutch Assembly.>
- 13) Remove the reduction driven gear. <Ref. to CVT-202, REMOVAL, Reduction Driven Gear.>
- 14) Remove the oil pan and control valve body. <Ref. to CVT-109, REMOVAL, Control Valve Body.>

#### NOTE:

When removing the control valve body, also remove the pressure pipe If it is attached on the case.



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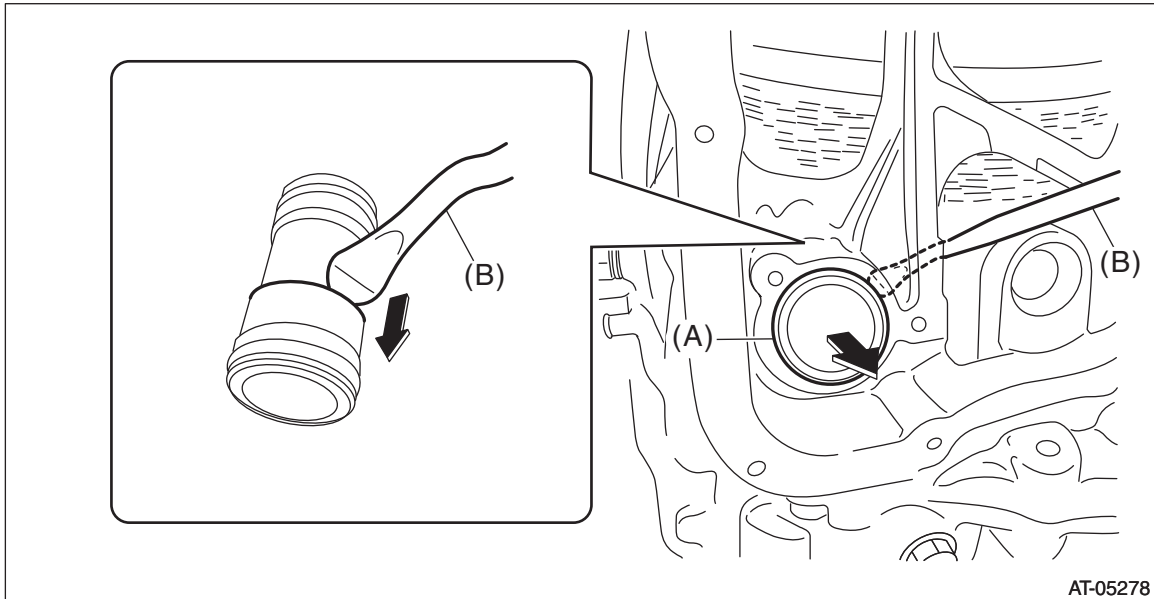
## Transmission Case

### CONTINUOUSLY VARIABLE TRANSMISSION

15) Remove the CVTF pipe using a tire lever etc.

**NOTE:**

Remove by hooking the stepped portion of CVTF pipe with a tire lever etc.



(A) CVTF pipe

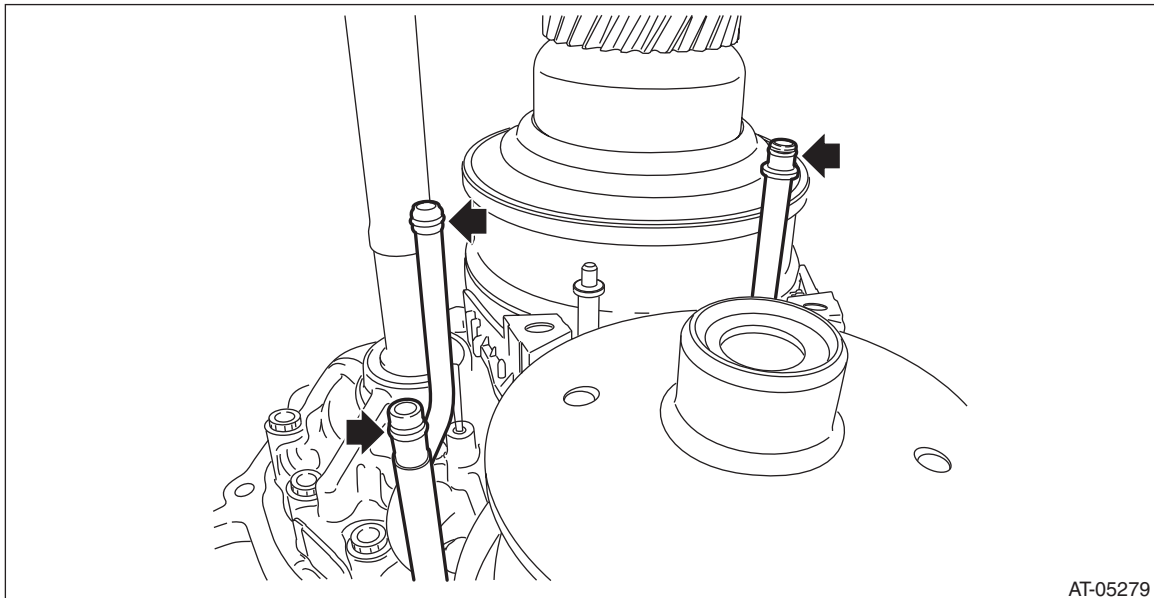
(B) Tire lever

16) Remove the transmission case.

**NOTE:**

The total number of transmission case mounting bolts is 15.

17) Remove the O-ring of lubrication pipe.



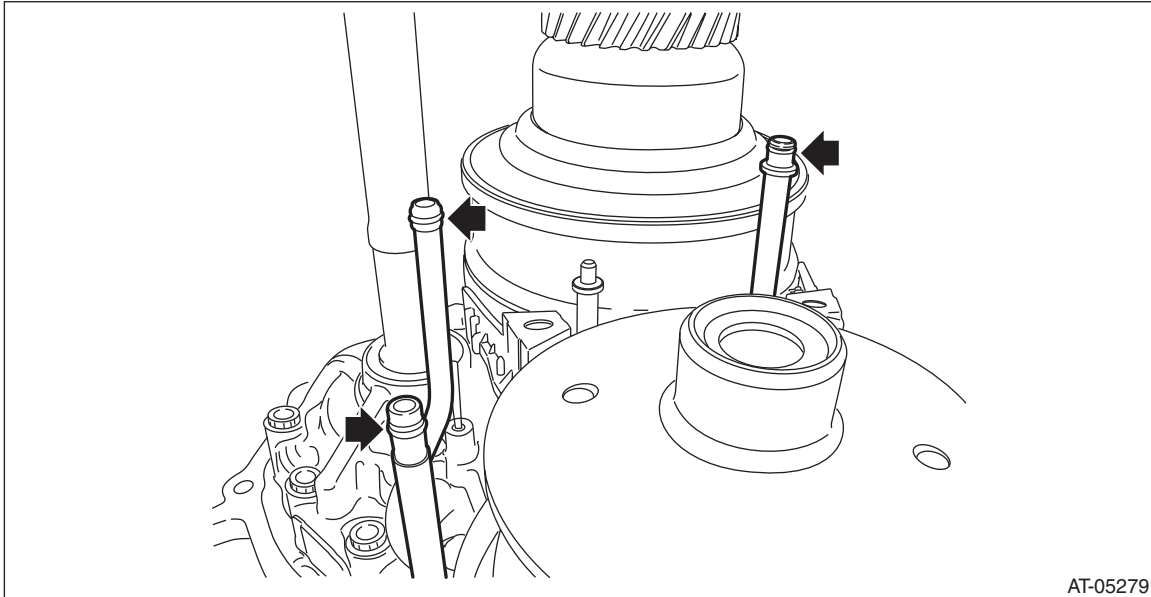
18) Remove the control device system. <Ref. to CVT-209, REMOVAL, Transmission Control Device.>

### B: INSTALLATION

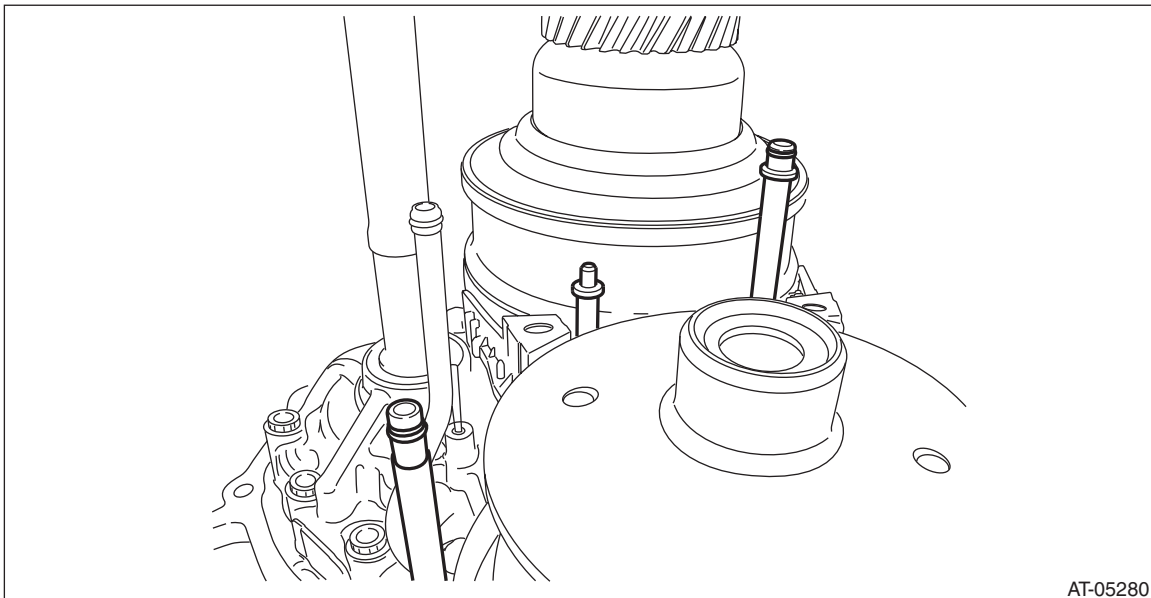
- 1) Clean the mating surface of transmission case and converter case.
- 2) Install the control device system. <Ref. to CVT-211, INSTALLATION, Transmission Control Device.>
- 3) Install the O-ring to the lubrication pipe.

#### NOTE:

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



- 4) Make sure the lubrication pipe and support rod are in vertical position.



## Transmission Case

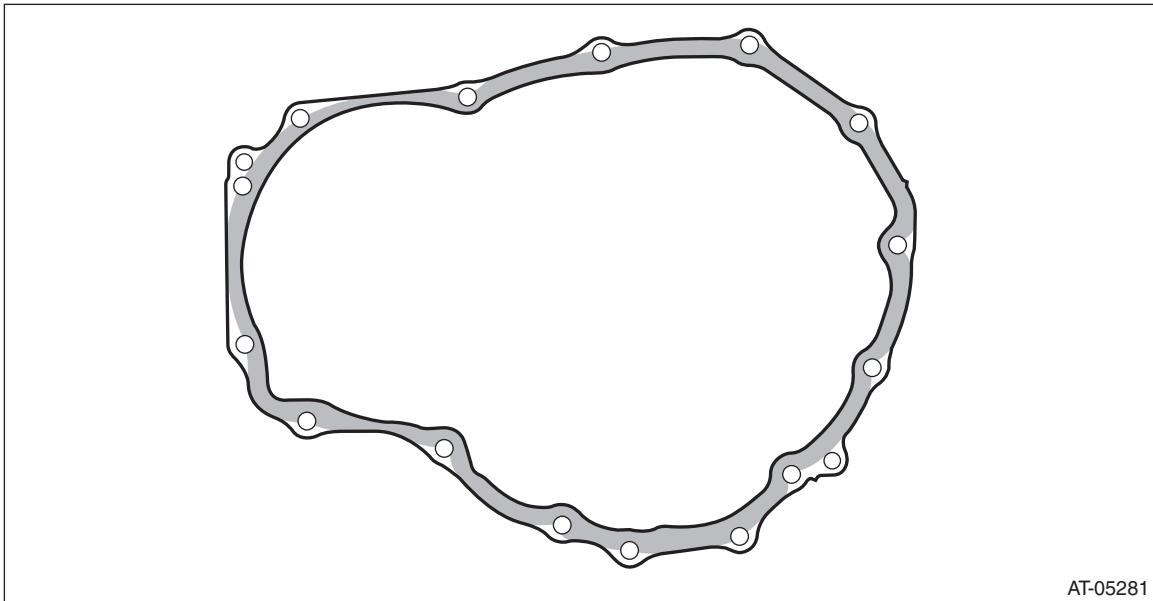
### CONTINUOUSLY VARIABLE TRANSMISSION

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

**Liquid gasket:**

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



6) Install the transmission case.

**CAUTION:**

**If the transmission case gets in contact with the lubrication pipe and support rod, do not install the transmission case forcibly.**

**NOTE:**

- Install while checking the lubrication pipe and support rod is being inserted properly into transmission case.
- If installing the transmission is difficult, check if the lubrication pipe and support rod are bent.
- The total number of transmission case mounting bolts is 15.

**Tightening torque:**

**41 N·m (4.2 kgf-m, 30.2 ft-lb)**

7) Install the O-ring to CVTF pipe.

**NOTE:**

Use new O-rings.

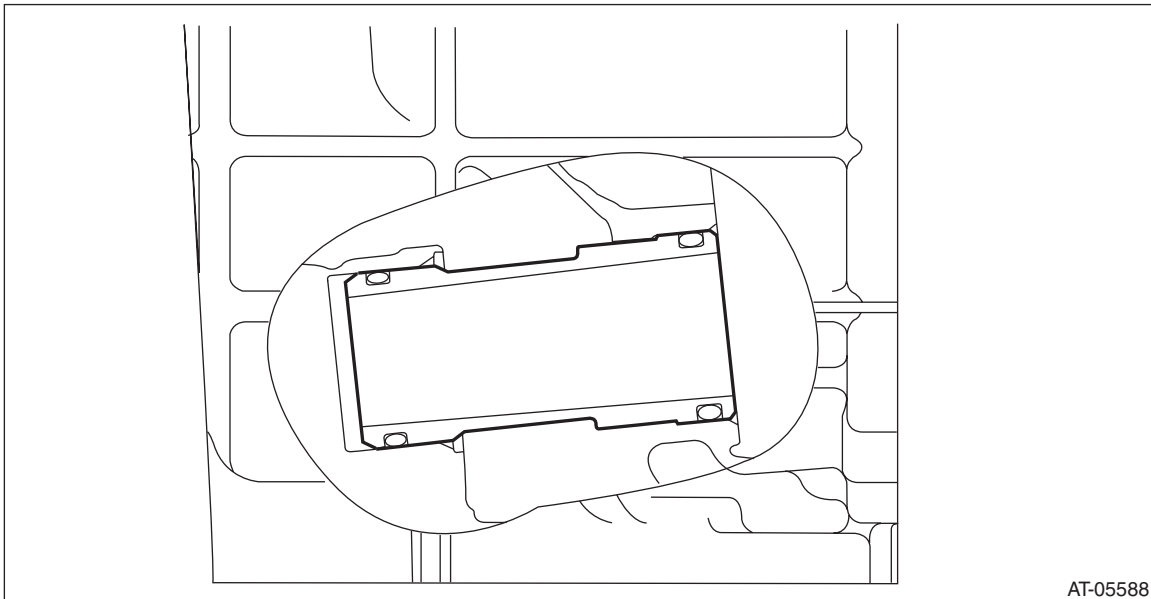
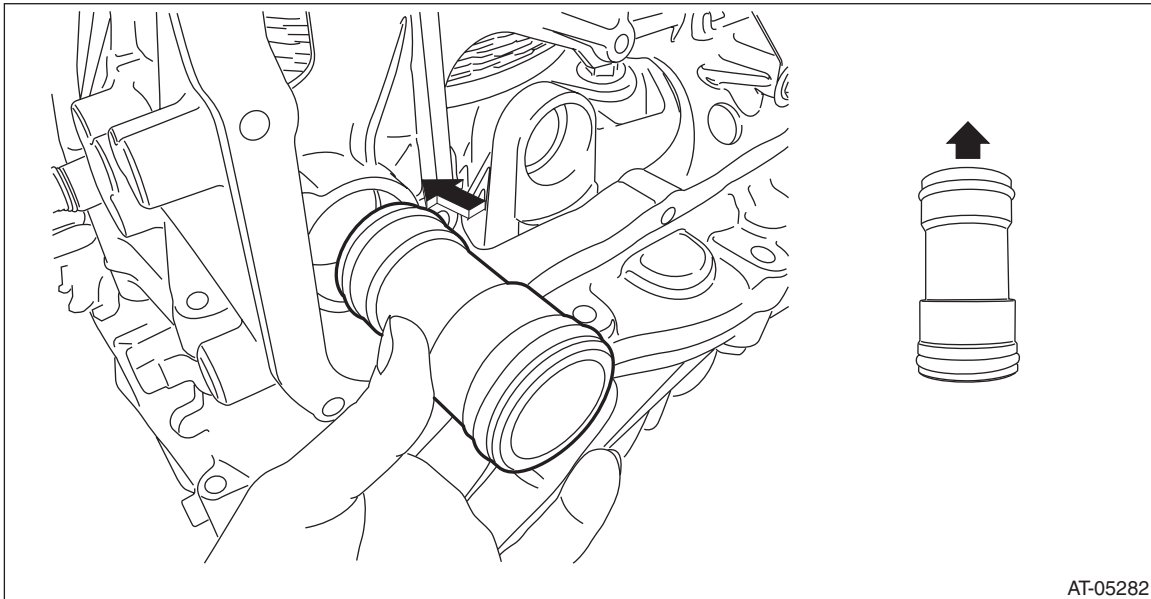
## Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

8) The smaller opening of CVTF pipe should be inserted to transmission.

**NOTE:**

After installing, make sure the CVTF pipe does not stick out of transmission case.



- 9) Install the reduction driven gear. <Ref. to CVT-203, INSTALLATION, Reduction Driven Gear.>
- 10) Install the forward clutch assembly. <Ref. to CVT-183, INSTALLATION, Forward Clutch Assembly.>
- 11) Install the intermediate case. <Ref. to CVT-168, INSTALLATION, Intermediate Case.>
- 12) Install the transfer reduction driven gear assembly. <Ref. to CVT-160, INSTALLATION, Transfer Reduction Driven Gear.>
- 13) Install the transfer clutch assembly. <Ref. to CVT-149, INSTALLATION, Transfer Clutch.>
- 14) Install the rear drive shaft. <Ref. to CVT-149, INSTALLATION, Transfer Clutch.>
- 15) Install the extension case. <Ref. to CVT-140, INSTALLATION, Extension Case.>
- 16) Install the CVTF inlet pipe and CVTF outlet pipe. <Ref. to CVT-129, INSTALLATION, CVTF Cooler Pipe and Hose.>
- 17) Install the inhibitor switch. <Ref. to CVT-98, INSTALLATION, Inhibitor Switch.>
- 18) Install the secondary speed sensor. <Ref. to CVT-101, INSTALLATION, Secondary Speed Sensor.>
- 19) Install the transmission harness. <Ref. to CVT-121, INSTALLATION, Transmission Harness.>
- 20) Install the control valve body and oil pan. <Ref. to CVT-113, INSTALLATION, Control Valve Body.>
- 21) Install the air breather hose. <Ref. to CVT-134, INSTALLATION, Air Breather Hose.>

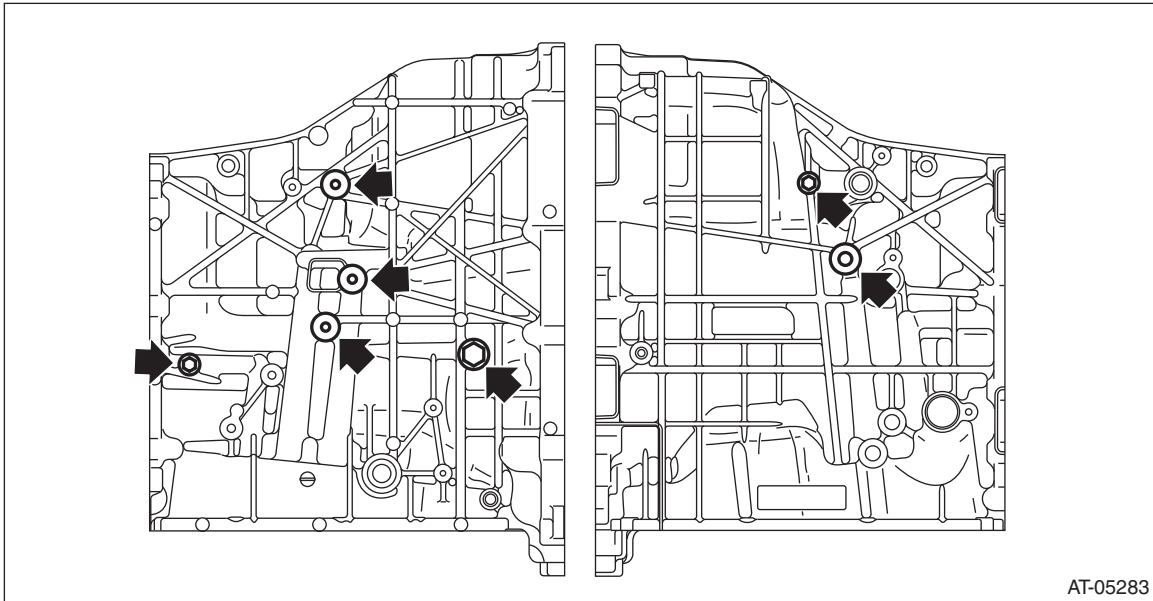
# Transmission Case

## CONTINUOUSLY VARIABLE TRANSMISSION

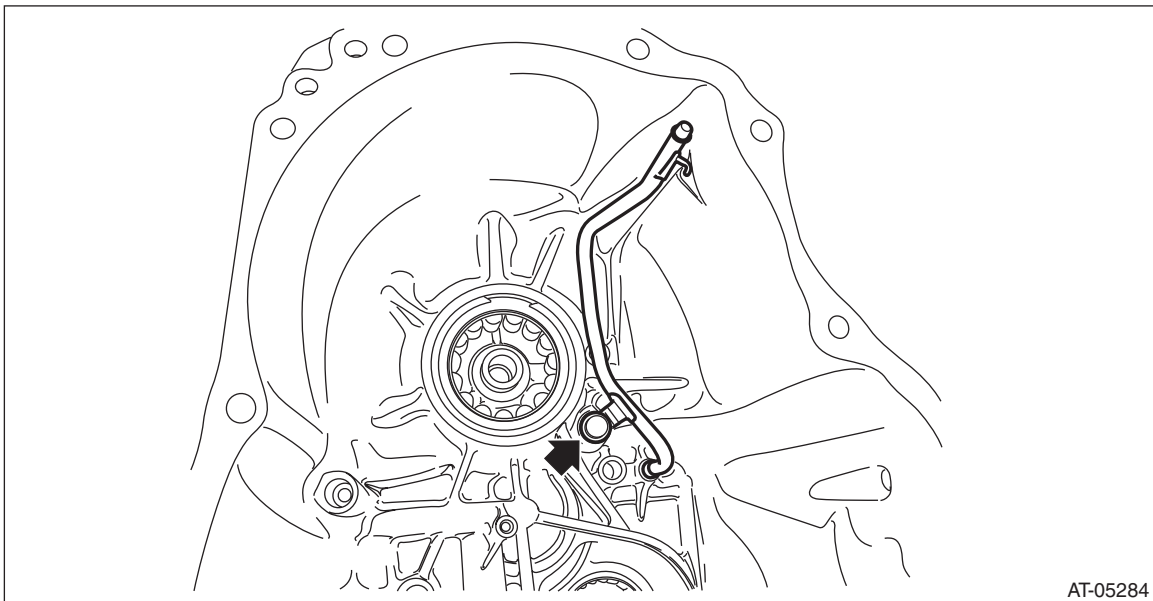
22) Install the transmission assembly to the vehicle. <Ref. to CVT-69, INSTALLATION, Automatic Transmission Assembly.>

### C: DISASSEMBLY

1) Remove all plugs from the transmission case.



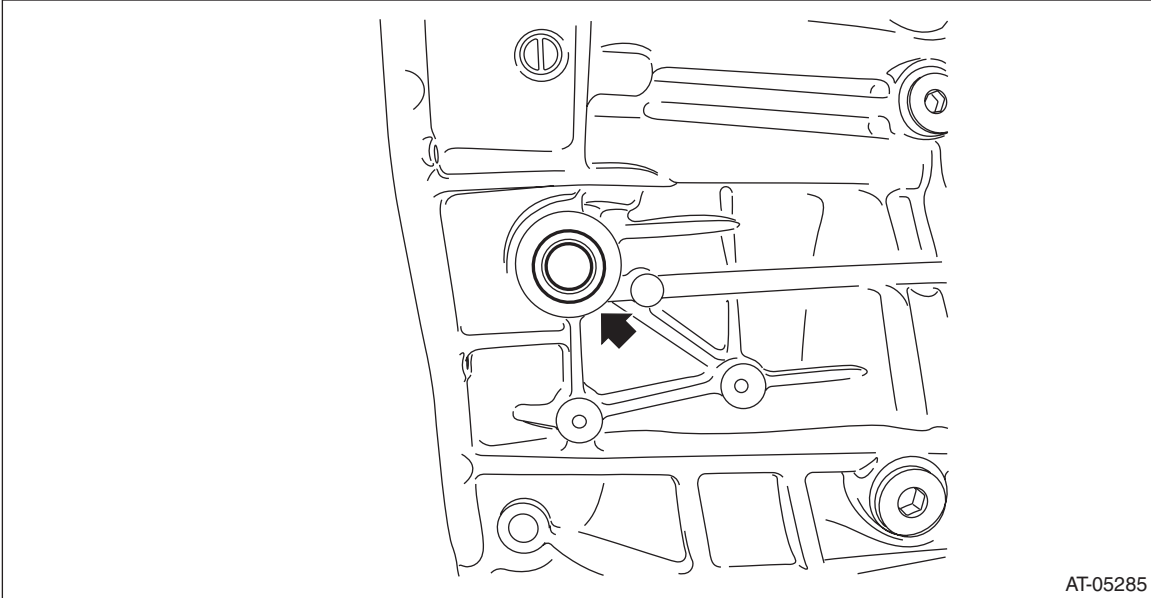
2) Remove the lubrication pipe.



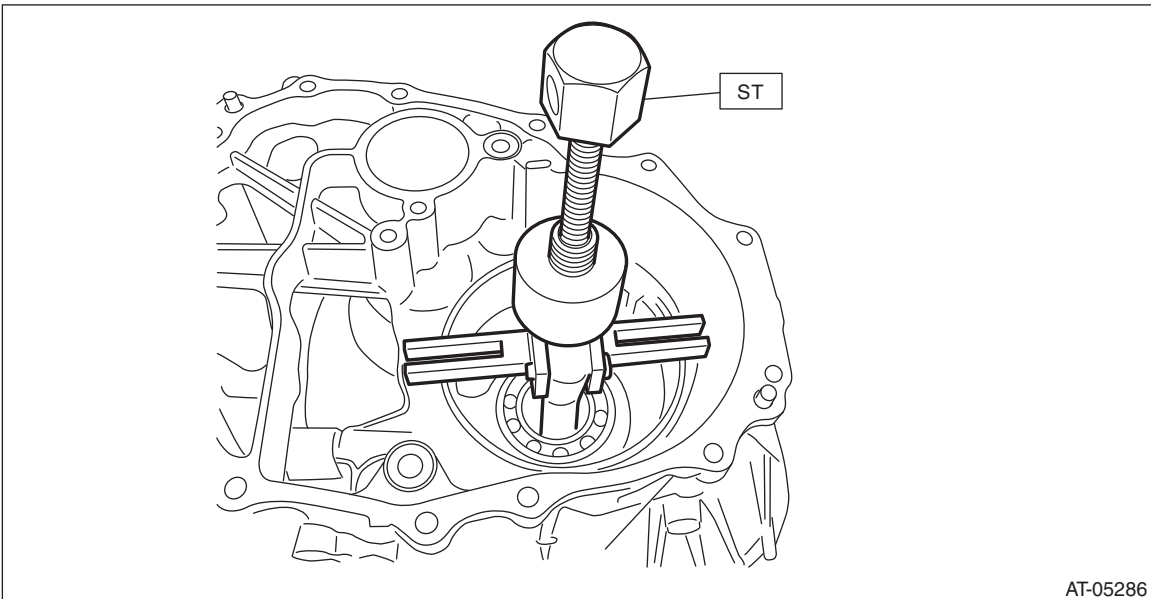
## Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

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



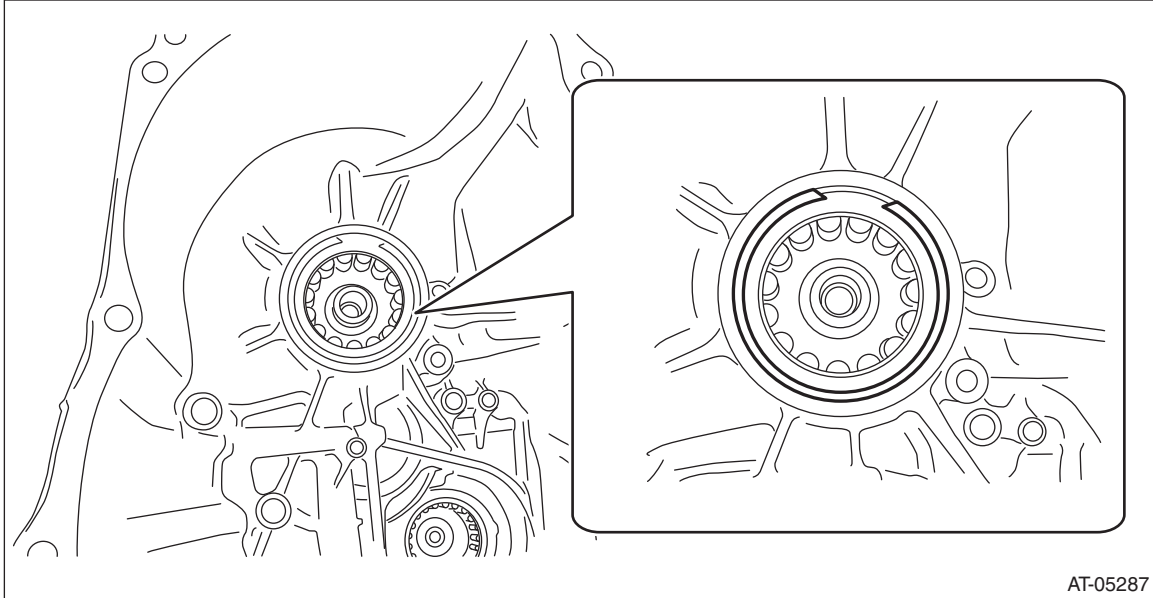
- 4) Remove the ball bearing from reduction driven gear using ST.  
ST 398527700 PULLER ASSY



## Transmission Case

### CONTINUOUSLY VARIABLE TRANSMISSION

5) Remove the snap ring on primary pulley side.

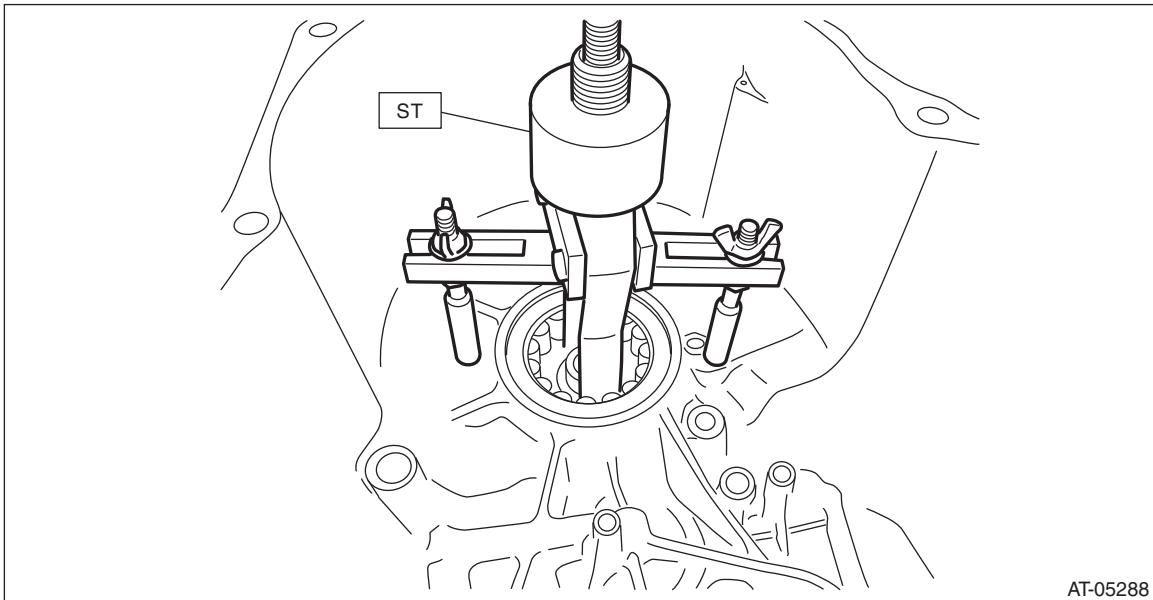


6) Using the ST, remove the roller bearing on primary pulley side.

#### NOTE:

Warm up the bearing area of transmission case using a drier or heat gun.

ST 398527700 PULLER ASSY

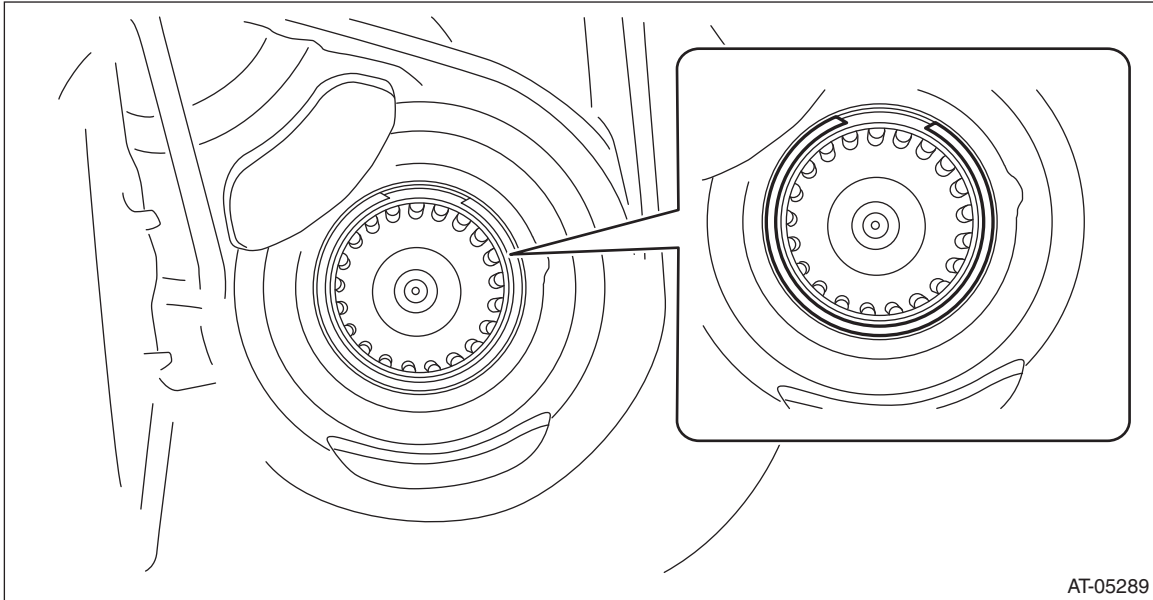




## Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

7) Remove the snap ring on secondary pulley side.

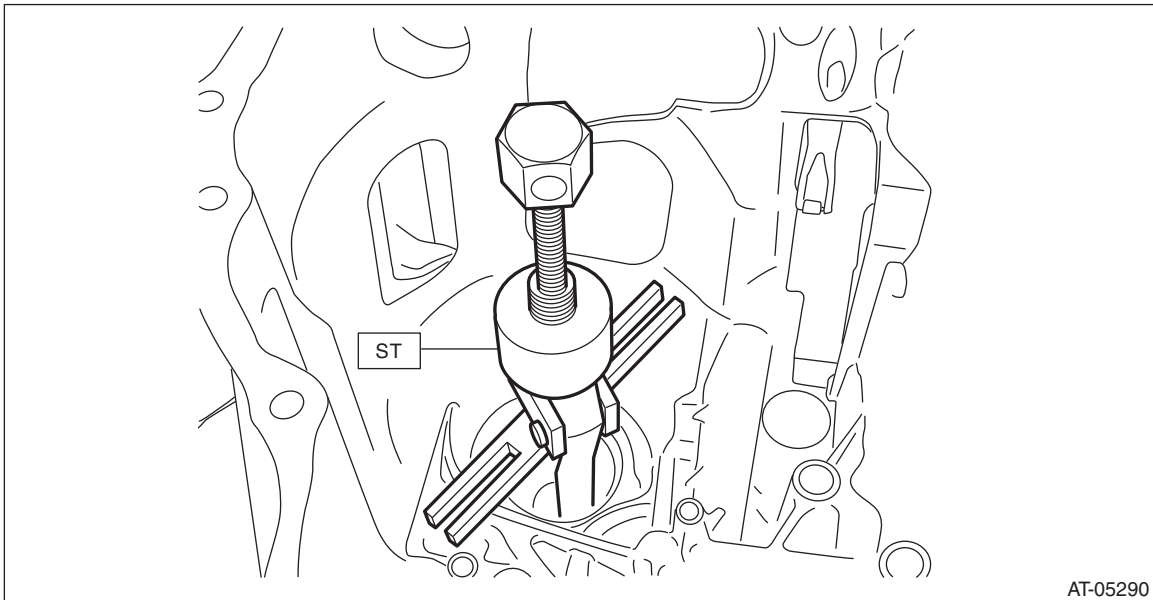


8) Using the ST, remove the roller bearing on secondary pulley side.

**NOTE:**

Warm up the bearing area of transmission case using a drier or heat gun.

ST 398527700 PULLER ASSY

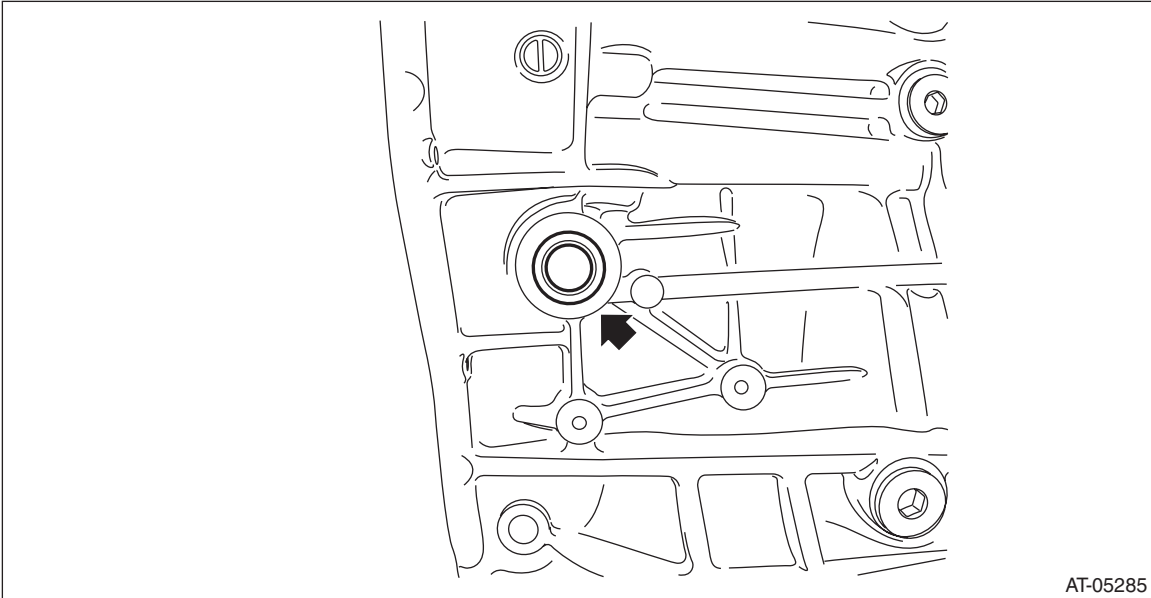


# Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

## D: ASSEMBLY

- 1) Using the ST, install the oil seal.  
ST 18657AA000 INSTALLER



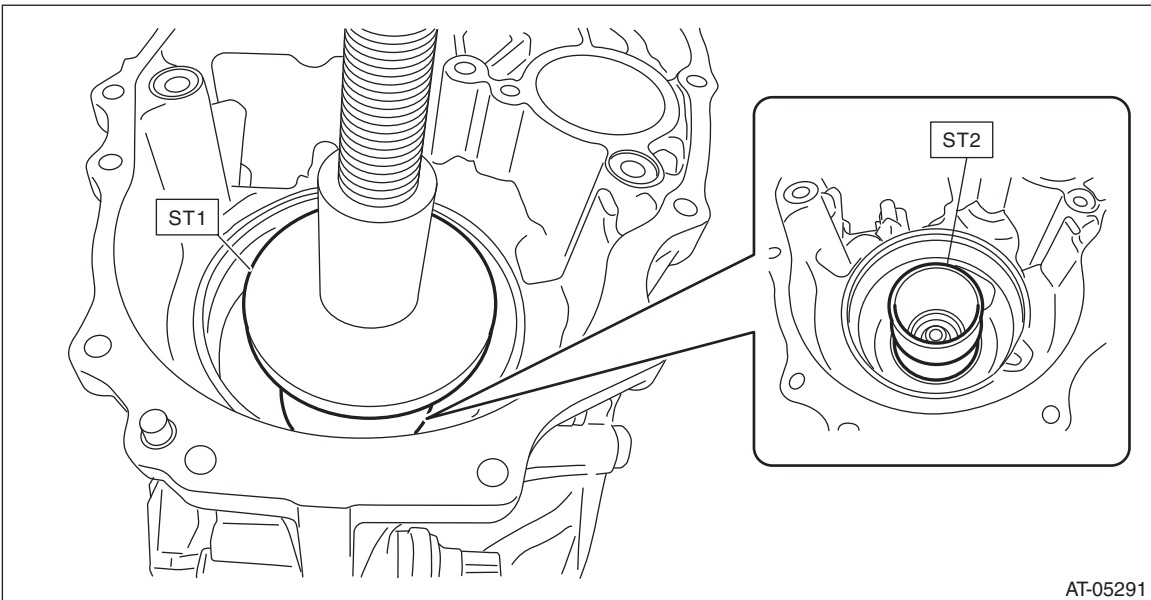
- 2) Using ST1 and ST2, install the ball bearing on the reduction gear side.

NOTE:

Use a new ball bearing.

ST1 398177700 INSTALLER

ST2 499755602 PRESS SNAP RING



# Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

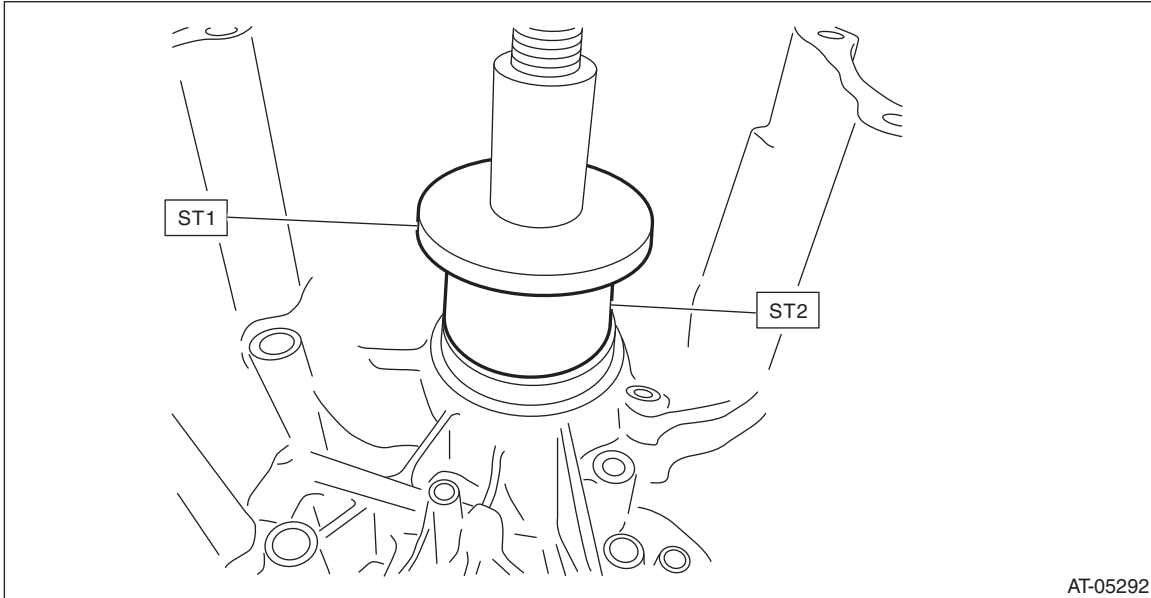
3) Using ST1 and ST2, install the roller bearing on primary pulley side.

**NOTE:**

- Use a new roller bearing.
- Make adjustment so that PRESS gets in contact with the center of ST2.

ST1 398177700 INSTALLER

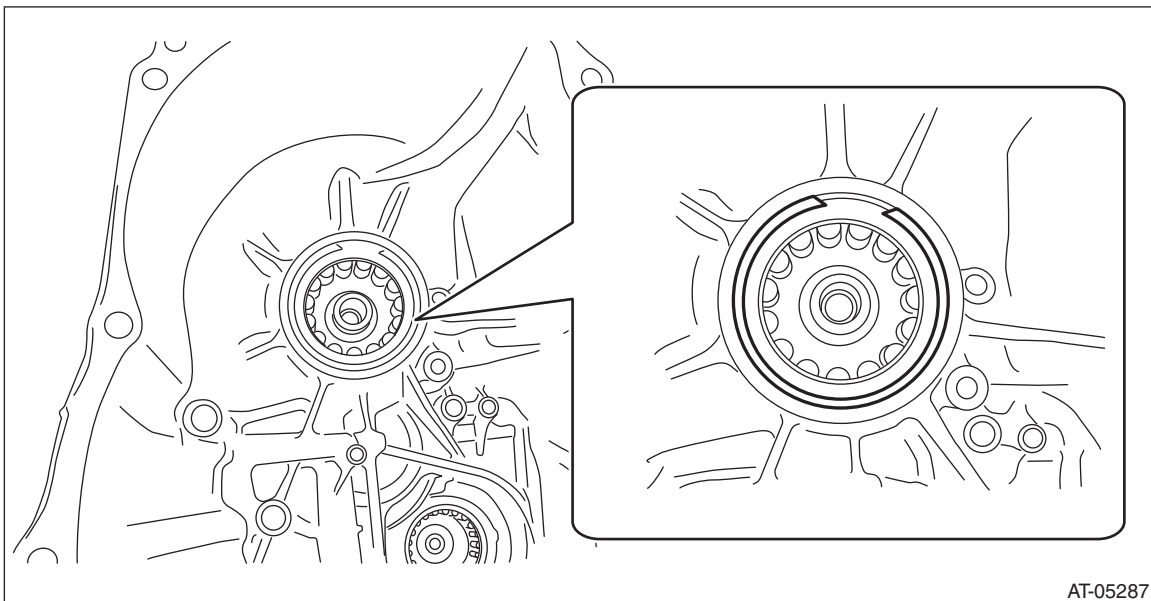
ST2 20299AG010 PRESS SNAP RING



4) Install the snap ring on primary pulley side.

**NOTE:**

Use new snap rings.



## Transmission Case

### CONTINUOUSLY VARIABLE TRANSMISSION

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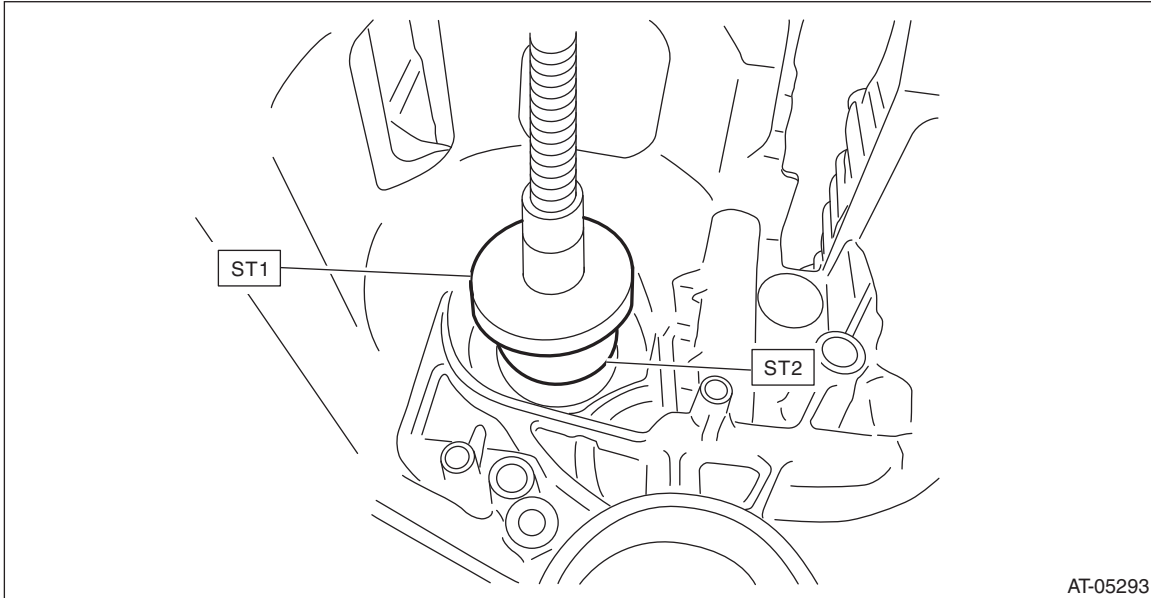
5) Using ST1 and ST2, install the roller bearing on secondary pulley side.

**NOTE:**

- Use a new roller bearing.
- Make adjustment so that PRESS gets in contact with the center of ST2.

ST1 398177700 INSTALLER

ST2 499755602 PRESS SNAP RING

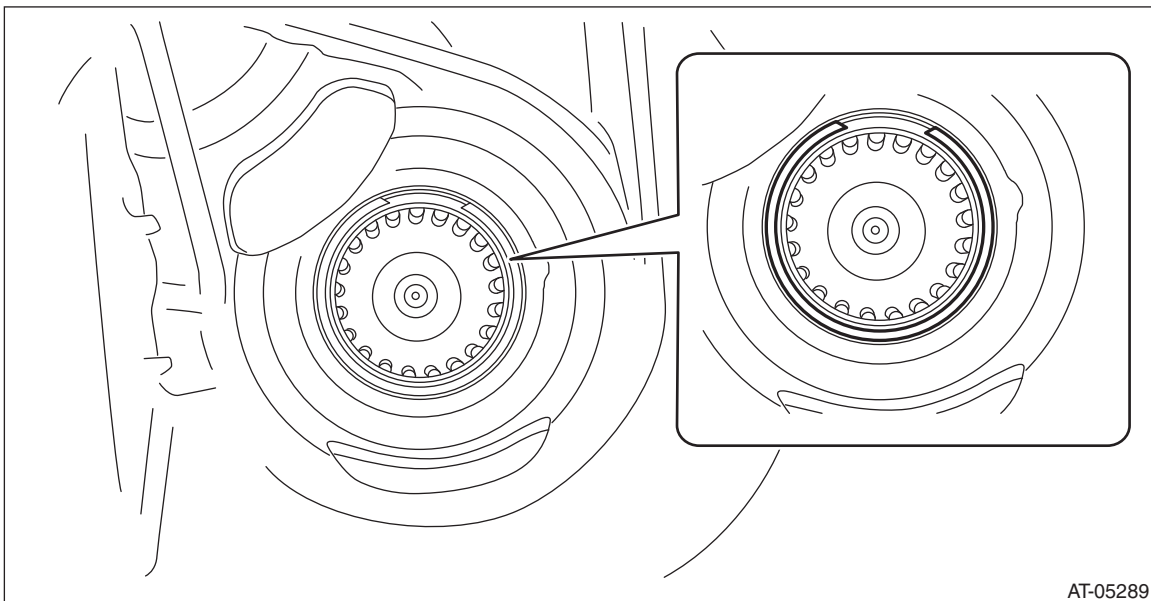


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6) Install the snap ring on secondary pulley side.

**NOTE:**

Use new snap rings.



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# Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

7) Install all plugs.

NOTE:

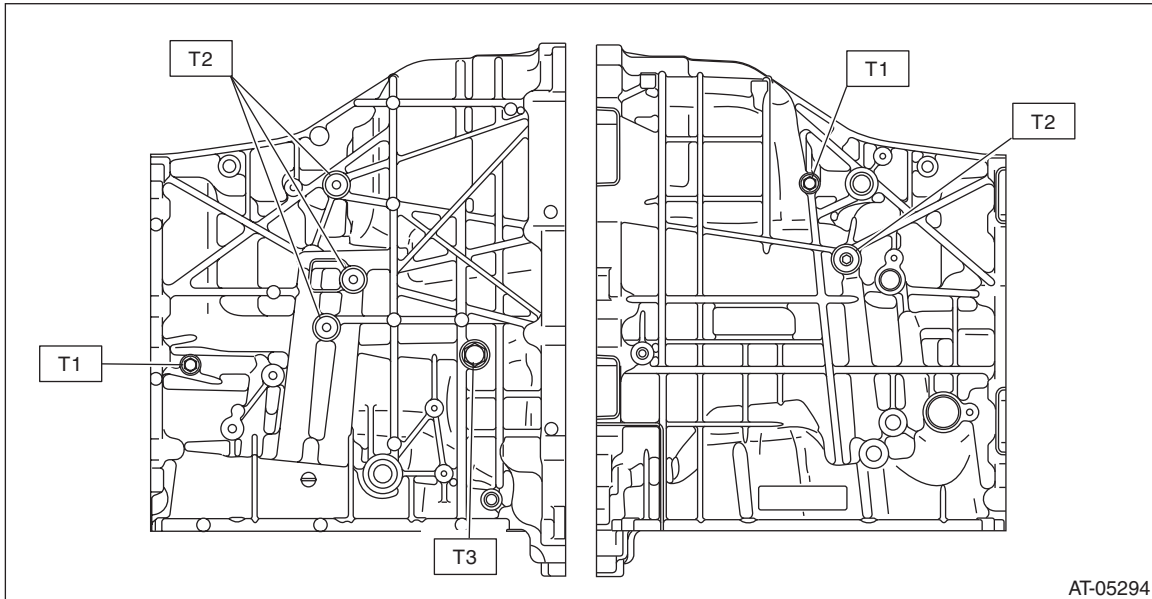
Use new gaskets and O-rings.

**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: 35 N·m (3.5 kgf-m, 25.8 ft-lb)**



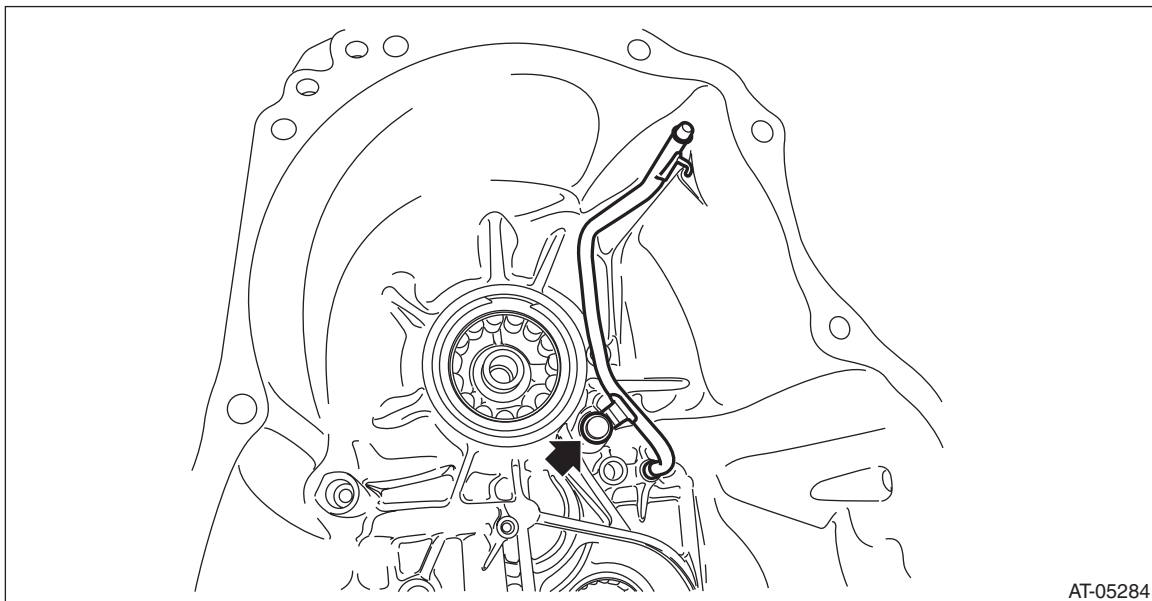
8) Install the lubrication pipe and O-ring.

NOTE:

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

**Tightening torque:**

**16 N·m (1.6 kgf-m, 11.8 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 for leakage of CVTF from the connection between intermediate case and transmission case.
- Check the lubrication pipe for bend or damage.
- Check the ball bearing for smooth rotation.
- Check the bearing for seizure or wear.
- Apply CVTF to ball bearing and rotate the ball bearing to check for noise or dragging etc.

### **F: ADJUSTMENT**

#### NOTE:

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

- Select the thrust bearing for the forward clutch assembly. <Ref. to CVT-200, ADJUSTMENT, Forward Clutch Assembly.>
- Select the snap ring for the reduction gear. <Ref. to CVT-208, ADJUSTMENT, Reduction Driven Gear.>