

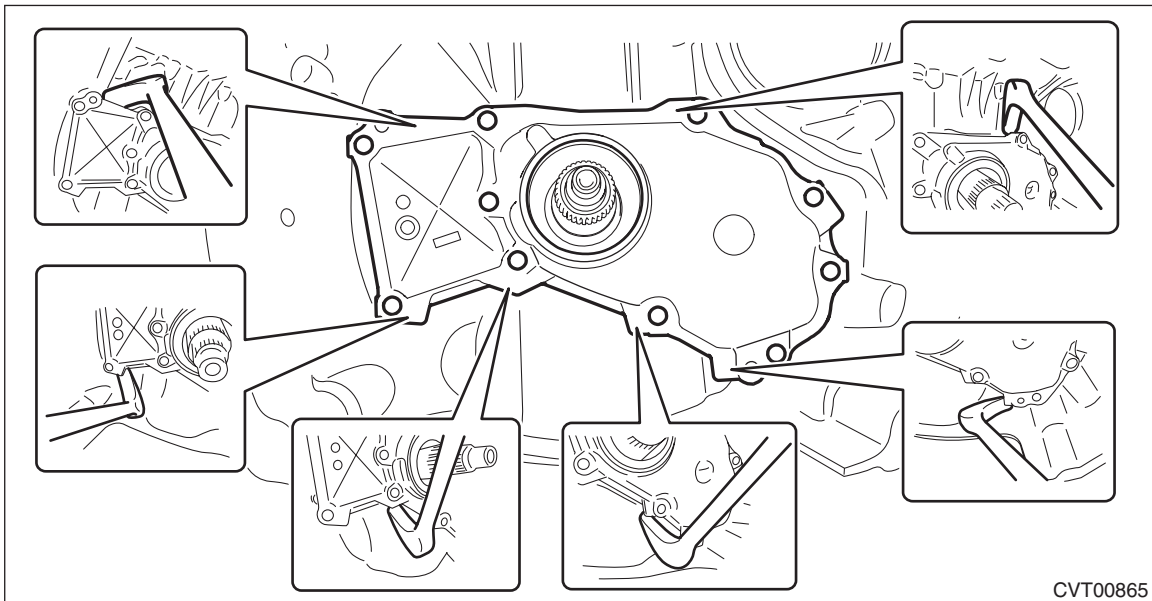
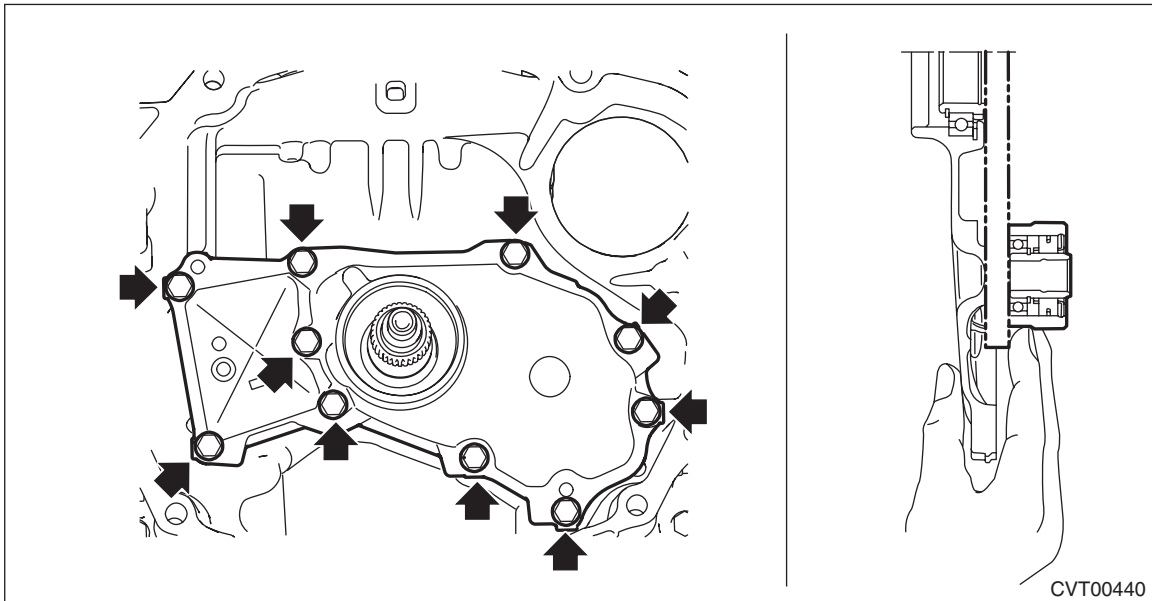
### 49.Oil Pump Chain

#### A: REMOVAL

- 1) Remove the transmission assembly from the vehicle. <Ref. to CVT(TH58A)-63, REMOVAL, Automatic Transmission Assembly.>
- 2) Remove the torque converter assembly. <Ref. to CVT(TH58A)-178, REMOVAL, Torque Converter Assembly.>
- 3) Remove the oil pump chain cover, oil pump sprocket (front) and front oil pump chain.

#### NOTE:

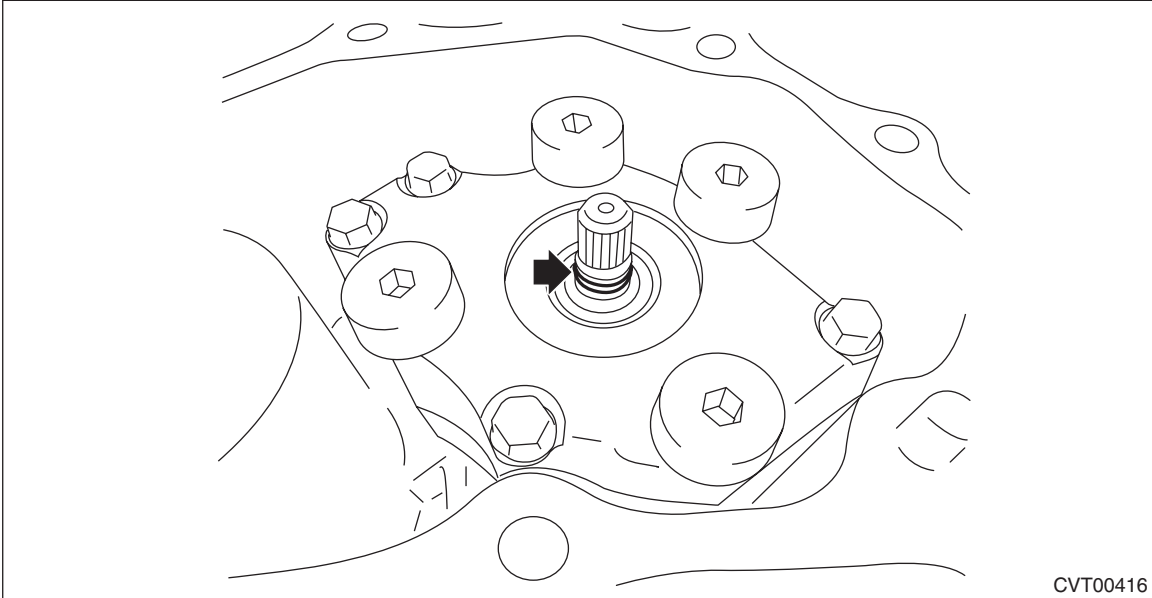
Oil pump chain cover may be hard to remove because the oil pump sprocket (front) is installed to the shaft side of the oil pump. Do not remove forcibly. Support the oil pump sprocket (front) by hand to remove.



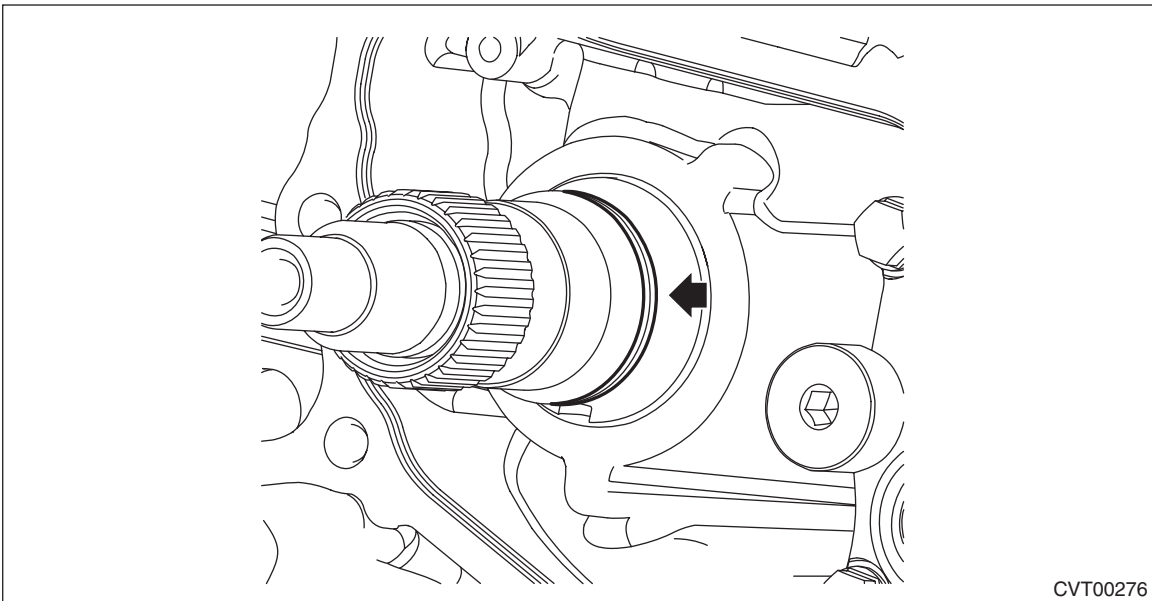
# Oil Pump Chain

CONTINUOUSLY VARIABLE TRANSMISSION

4) Remove the O-ring from the oil pump shaft.



5) Remove the seal ring.



## Oil Pump Chain

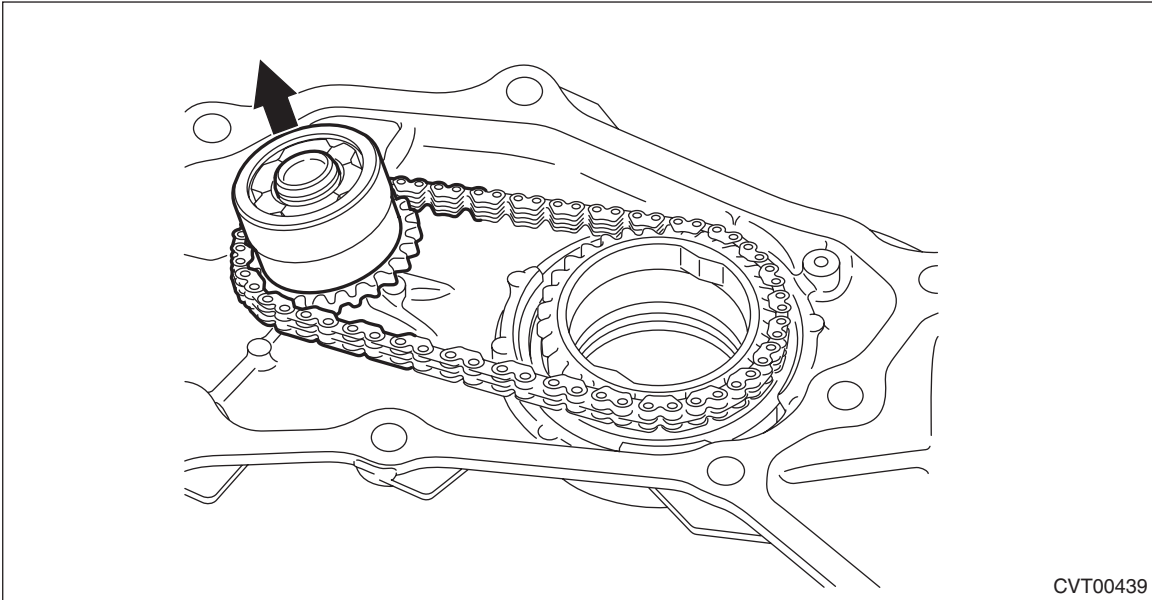
### CONTINUOUSLY VARIABLE TRANSMISSION

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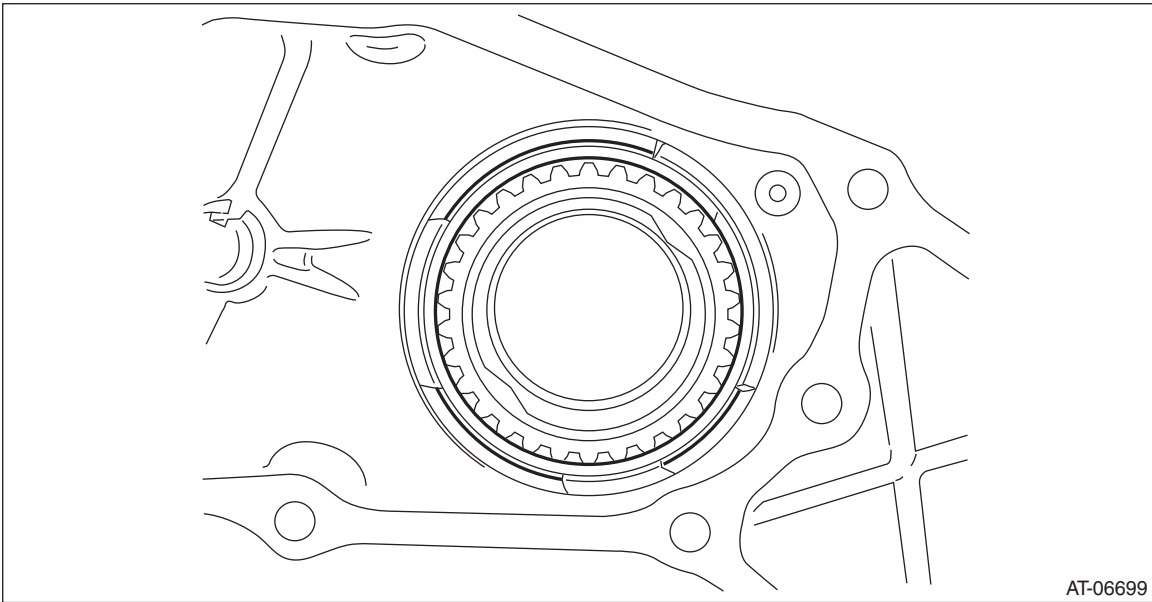
6) Remove the front oil pump chain and the oil pump sprocket (front) from the oil pump chain cover.

**NOTE:**

The oil pump sprocket (front) is replaced as an assembly only, because it is a non-disassembly part.



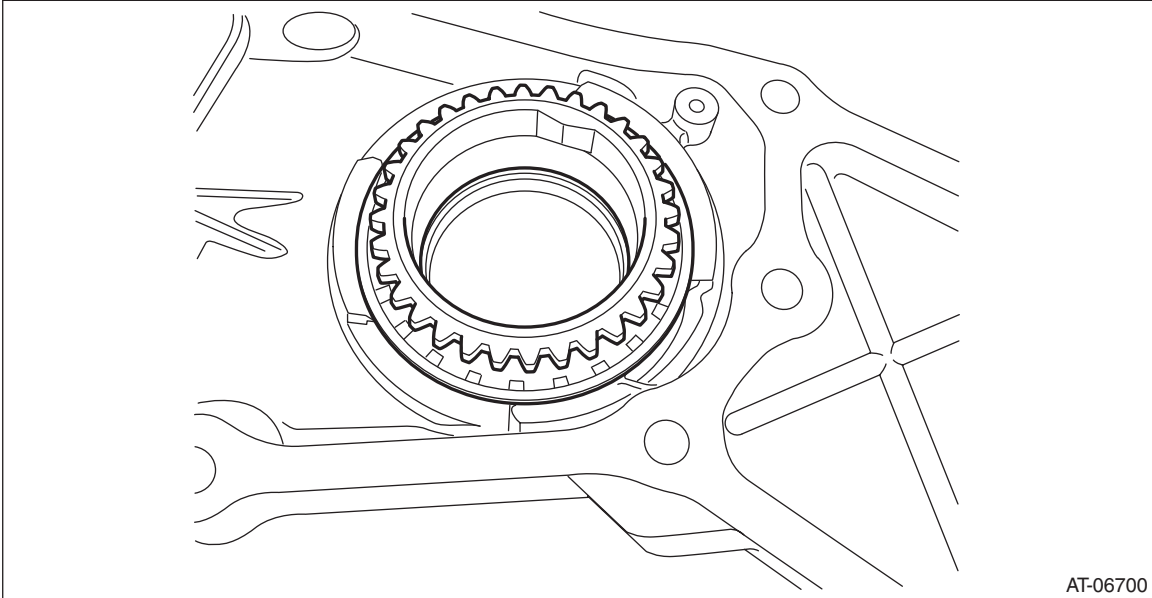
7) Remove the snap ring.



# Oil Pump Chain

CONTINUOUSLY VARIABLE TRANSMISSION

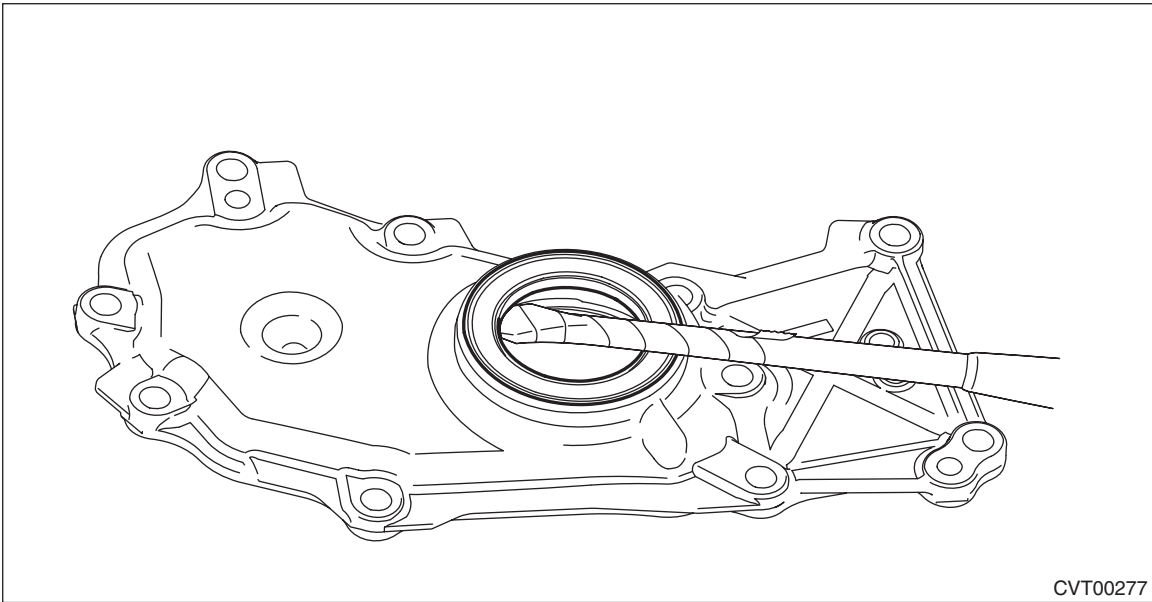
8) Remove the drive sprocket.



9) Remove the oil seal from the oil pump chain cover by using a screwdriver wrapped with vinyl tape, etc.

**CAUTION:**

**Be careful not to damage the oil seal press-fitting surface.**



# Oil Pump Chain

CONTINUOUSLY VARIABLE TRANSMISSION

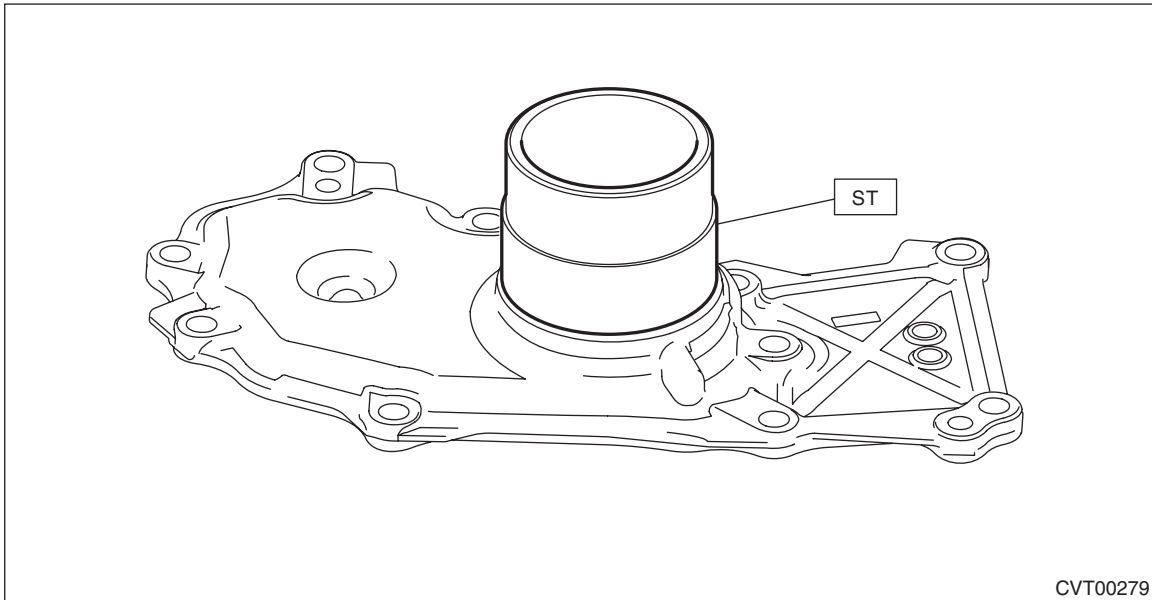
## B: INSTALLATION

- 1) Clean the mating surface of oil pump chain cover and converter case.
- 2) Using the ST, install the oil seal.

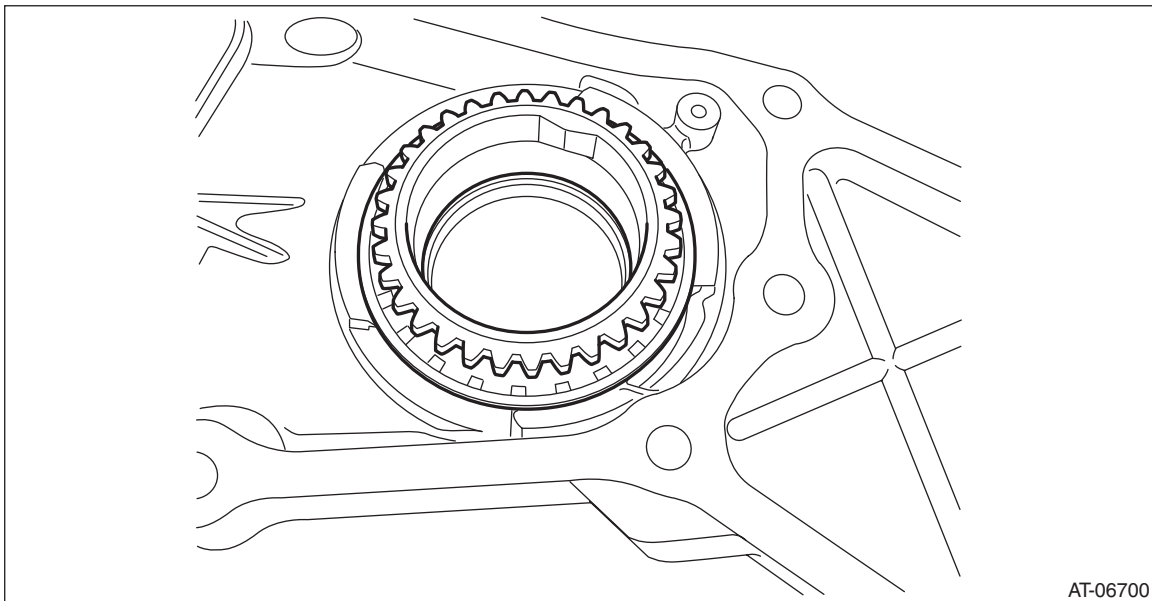
NOTE:

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

ST 499755602 PRESS SNAP RING



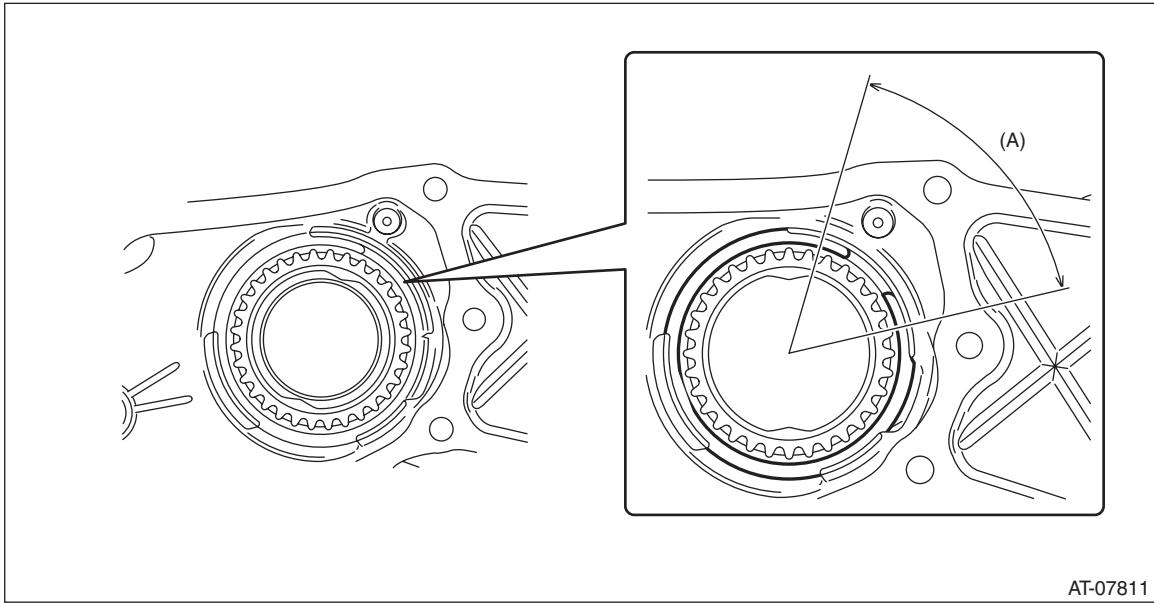
- 3) Install the drive sprocket.



# Oil Pump Chain

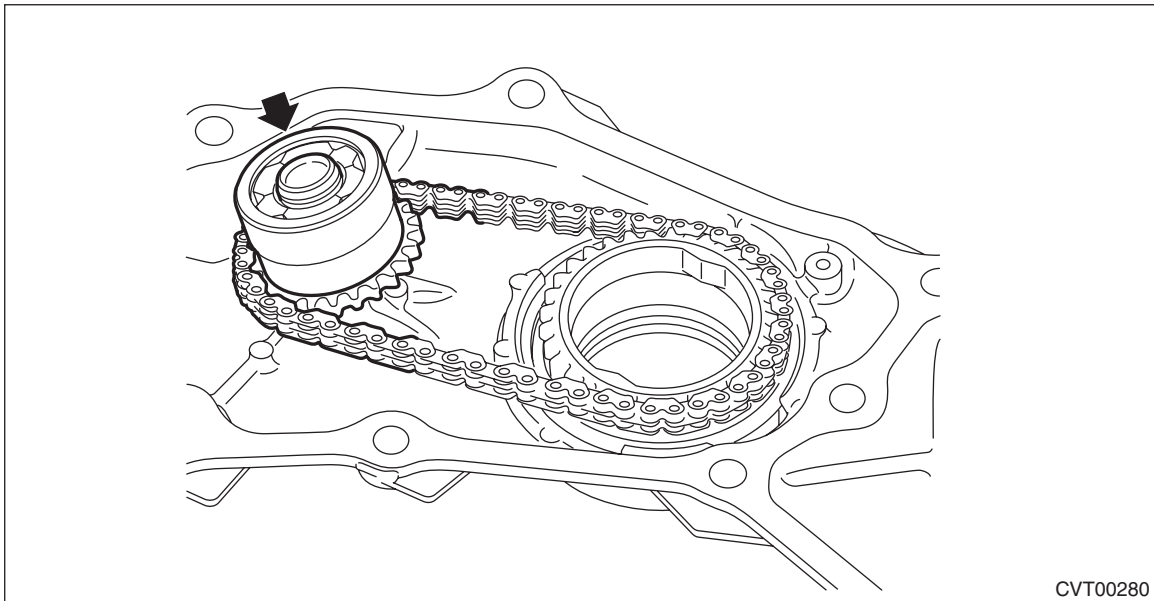
CONTINUOUSLY VARIABLE TRANSMISSION

- 4) Install the snap ring so that its cutout portion is securely fitted into the snap ring groove of the oil pump chain cover.



(A) Installation range of cutout portion for snap ring

- 5) Place the oil pump chain on drive sprocket.  
6) Place the front oil pump chain on the oil pump sprocket (front) and install the oil pump sprocket (front) to oil pump chain cover.



- 7) When replacing the oil pump sprocket (front) and the oil pump chain cover, select the oil pump shaft. <Ref. to CVT(TH58A)-387, ADJUSTMENT, Oil Pump.>

## Oil Pump Chain

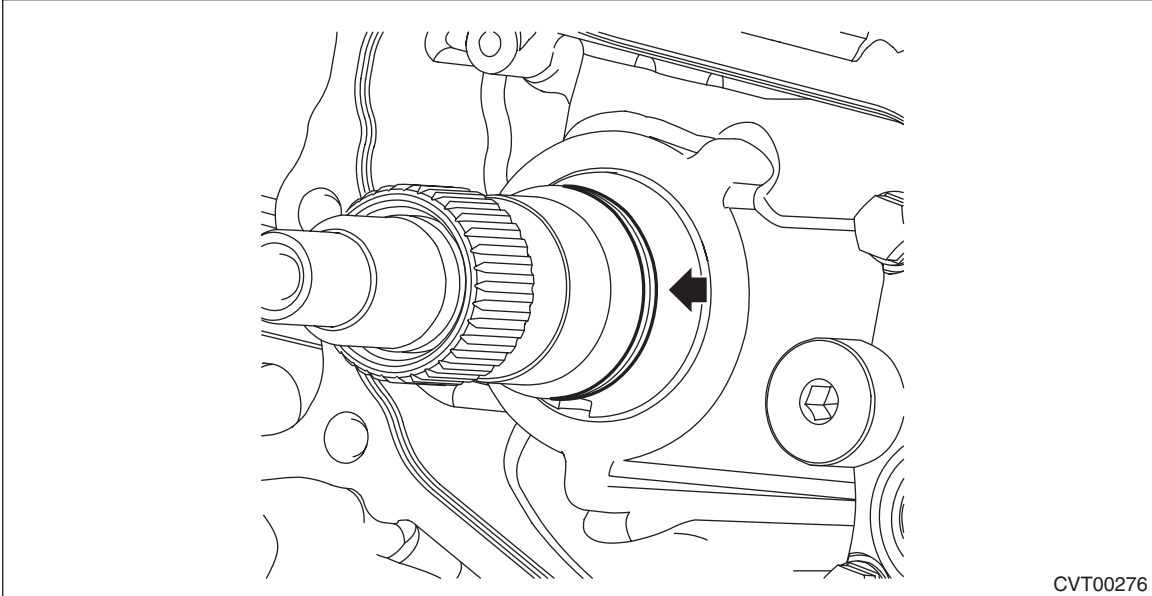
### CONTINUOUSLY VARIABLE TRANSMISSION

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8) Install the seal ring.

**NOTE:**

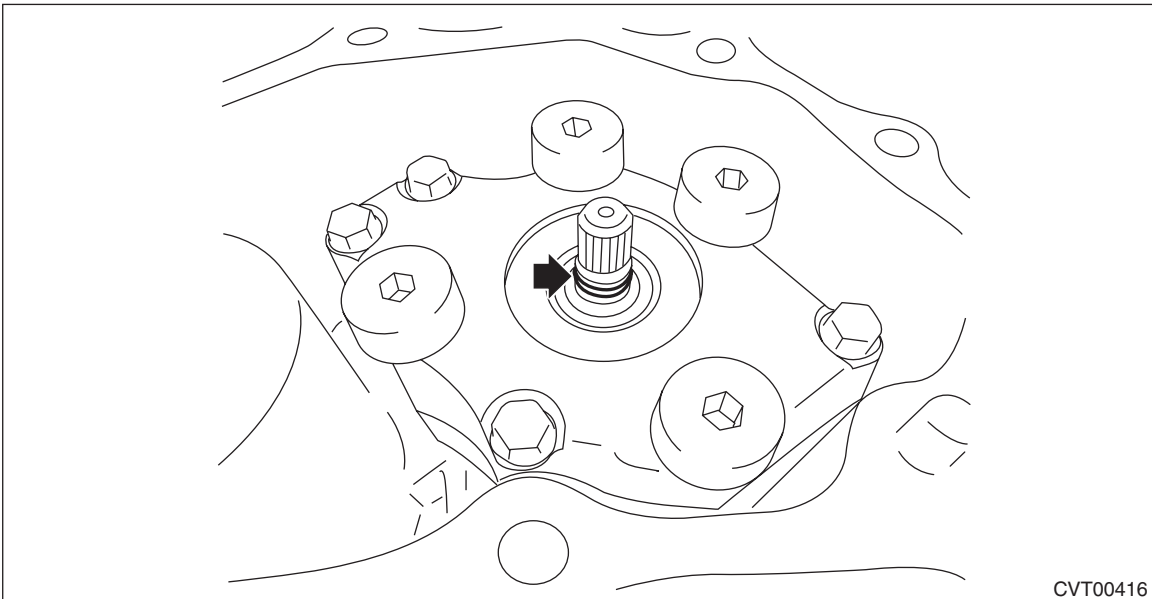
- Use a new seal ring.
- Apply CVTF to the seal rings.
- When installing the seal ring, do not expand the seal ring too much.



9) Install the O-ring to the oil pump shaft.

**NOTE:**

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



## Oil Pump Chain

CONTINUOUSLY VARIABLE TRANSMISSION

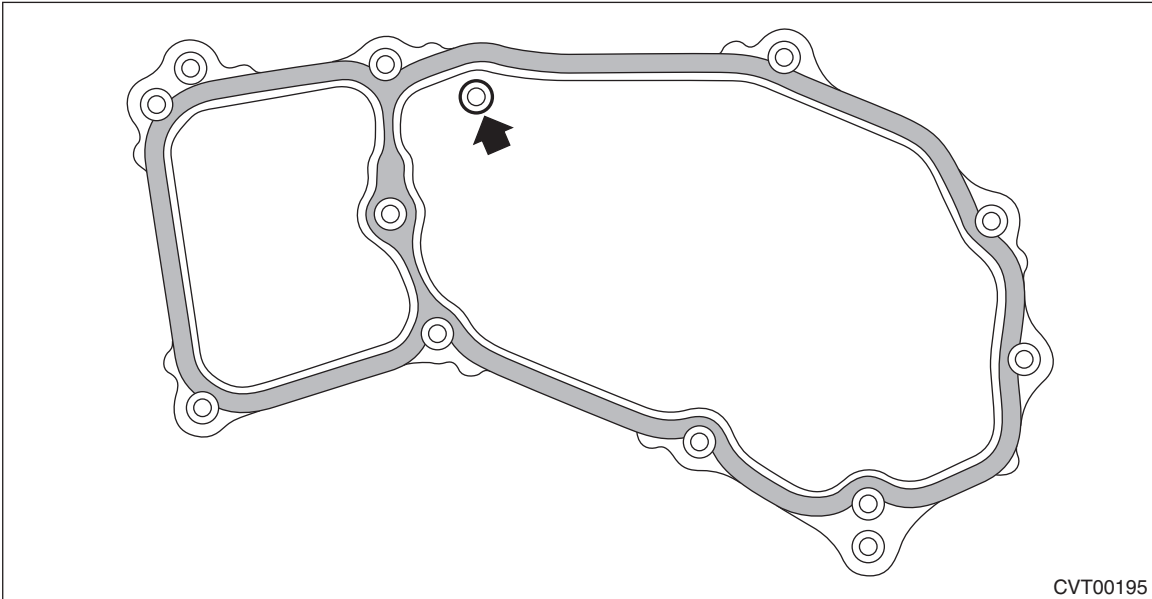
10) Apply liquid gasket seamlessly to the mating surface of oil pump chain cover.

**CAUTION:**

Do not apply liquid gasket at the arrowed hole.

**Liquid gasket:**

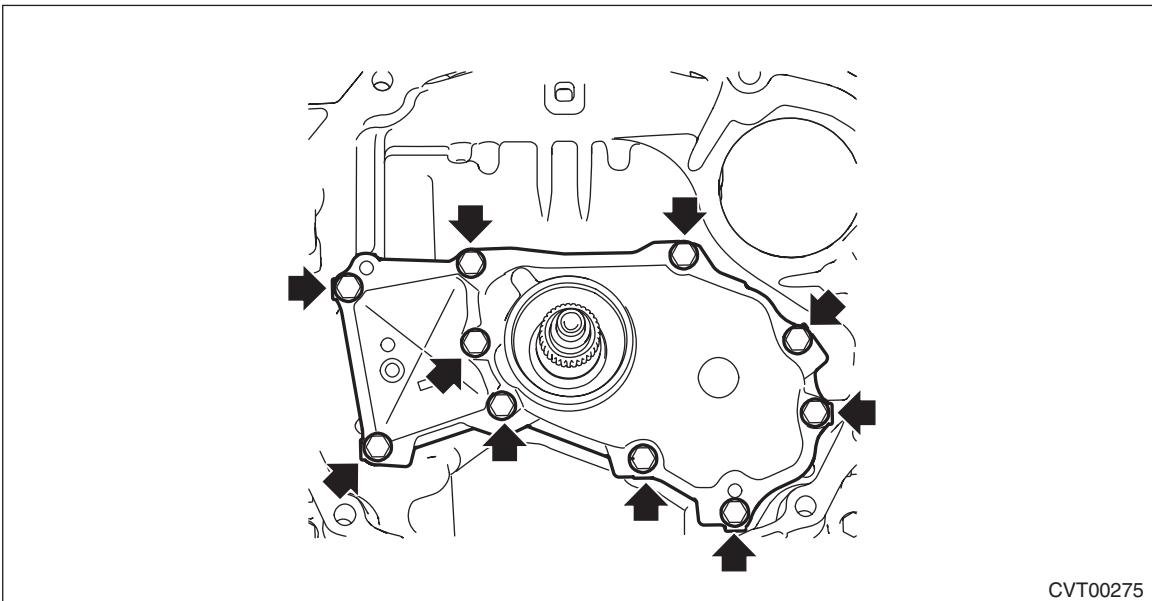
**THREE BOND 1215B or equivalent**



11) Install the oil pump chain cover.

**Tightening torque:**

**21 N·m (2.1 kgf-m, 15.5 ft-lb)**



12) Install the torque converter assembly. <Ref. to CVT(TH58A)-179, INSTALLATION, Torque Converter Assembly.>

13) Install the transmission assembly to the vehicle. <Ref. to CVT(TH58A)-77, INSTALLATION, Automatic Transmission Assembly.>



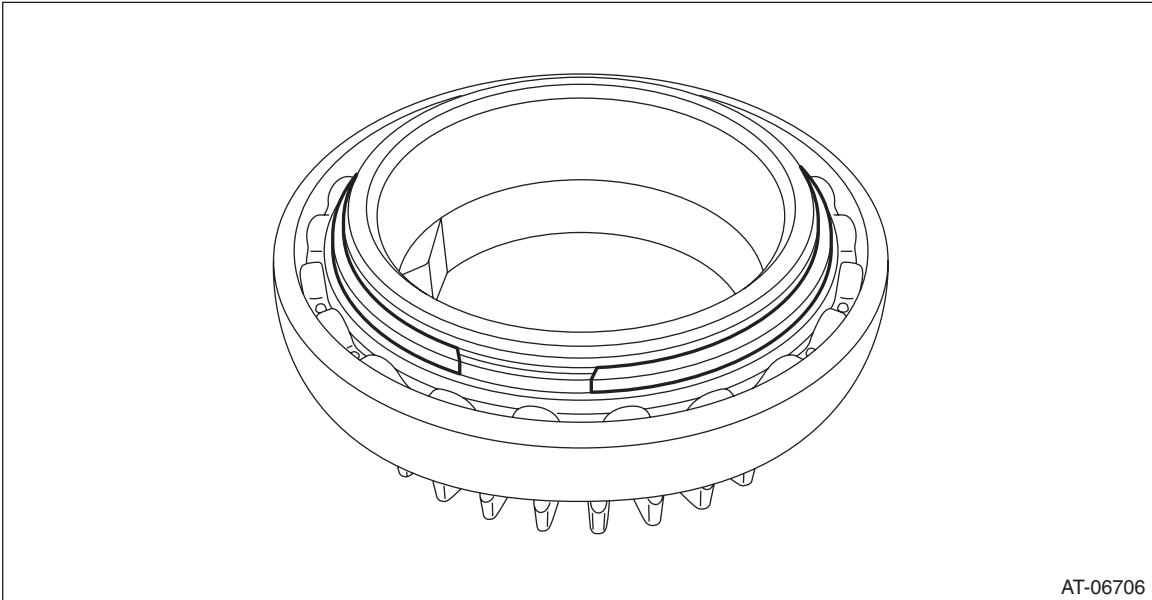
# Oil Pump Chain

CONTINUOUSLY VARIABLE TRANSMISSION

## C: DISASSEMBLY

### 1. DRIVE SPROCKET

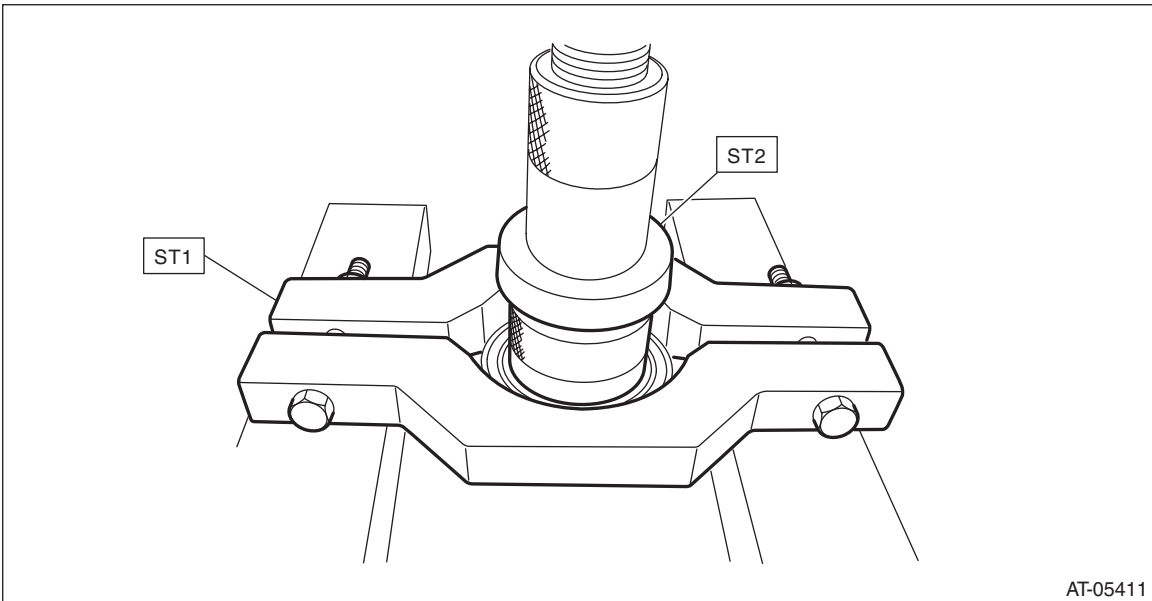
1) Remove the snap ring.



AT-06706

2) Remove the ball bearing using ST.

ST1 498077600 REMOVER  
ST2 399513600 INSTALLER



AT-05411

## D: ASSEMBLY

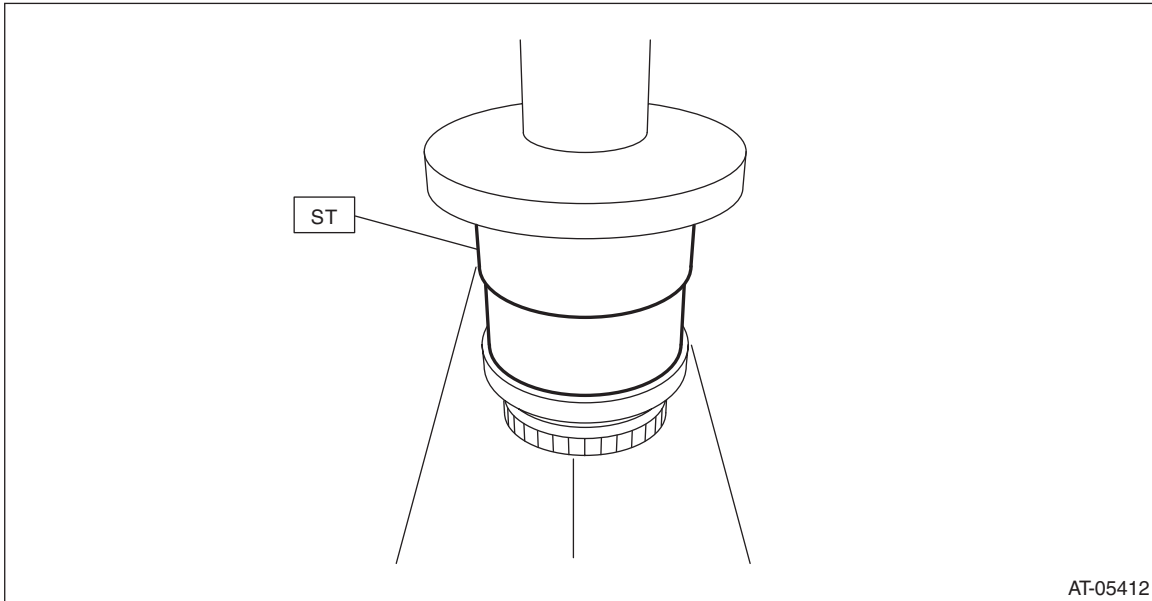
### 1. DRIVE SPROCKET

1) Using the ST, install the ball bearing.

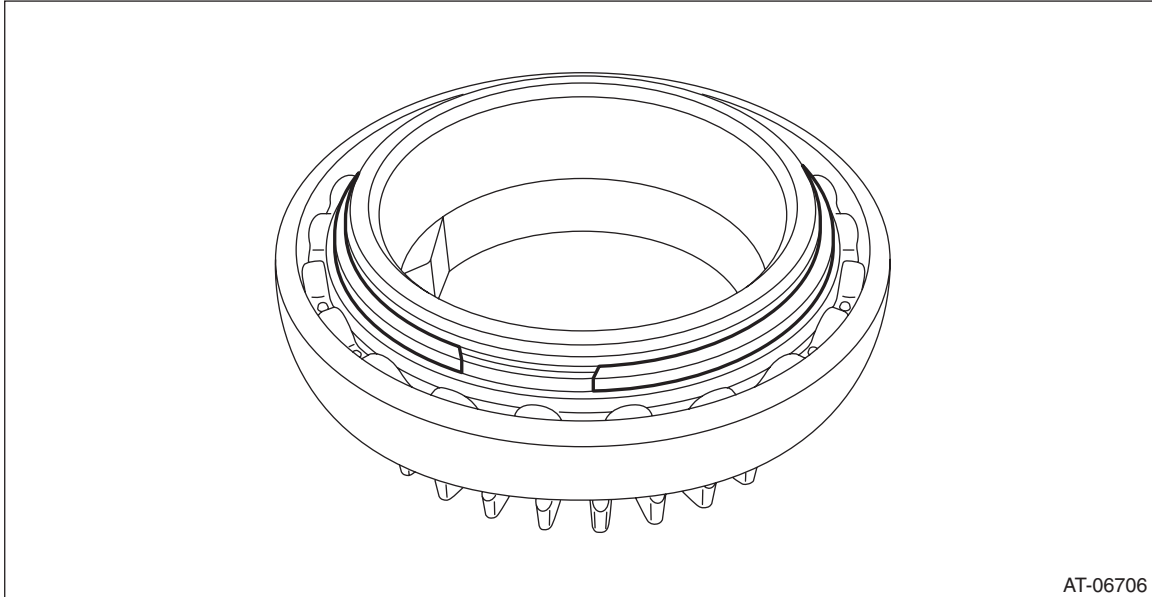
NOTE:

Use a new ball bearing.

ST 499755502 PRESS SNAP RING



2) Install the snap ring.

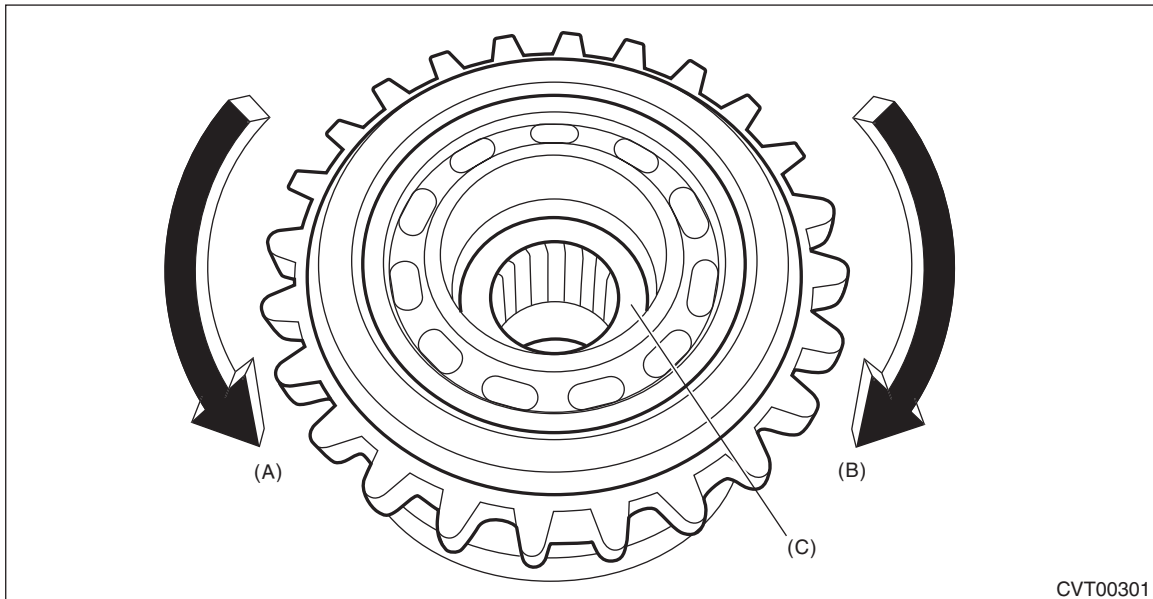


# Oil Pump Chain

## CONTINUOUSLY VARIABLE TRANSMISSION

### E: INSPECTION

- Check the front oil pump chain for damage.
  - Replace if gear teeth are broken, damaged, sharpen or excessively worn.
  - Check the bearing for seizure or wear.
  - Apply CVTF to bearing and rotate the bearing to check for noise or dragging etc.
  - Check the oil pump chain cover for damage.
  - Check for leakage of CVTF from the mating surface of oil pump chain cover.
  - Check the oil seal for damage.
  - Check the one-way clutch of the oil pump sprocket (front).
- Secure the inner race, and check that the sprocket locks clockwise and rotates counterclockwise.



- (A) Rotates freely  
(B) Locked  
(C) Inner race