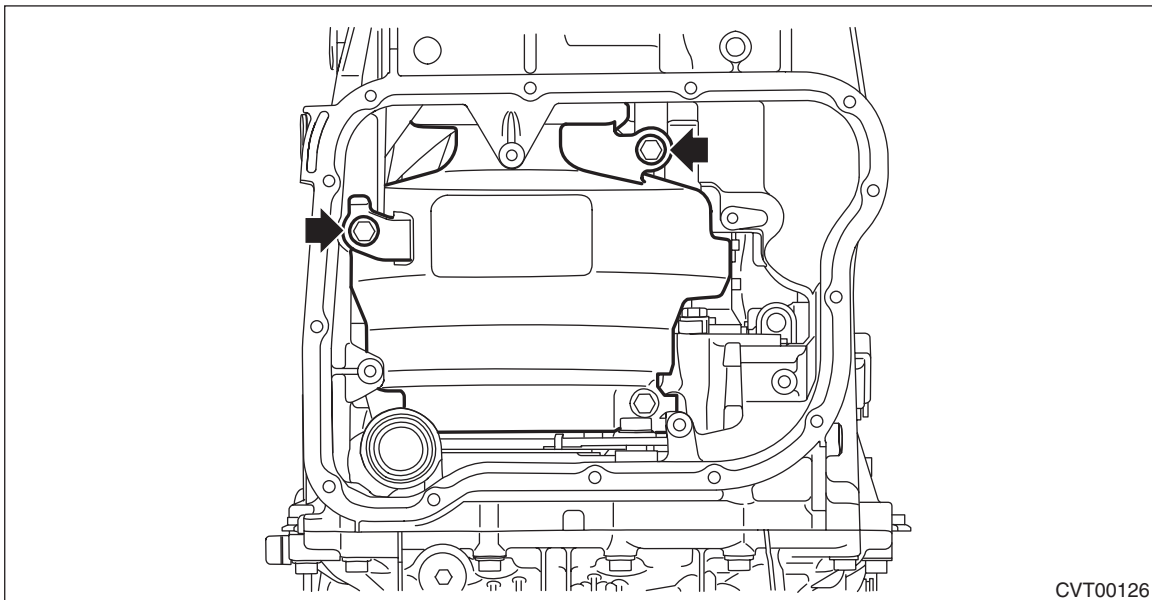


40. Transmission Case

A: REMOVAL

- 1) Remove the transmission assembly from the vehicle. <Ref. to CVT(TH58A)-63, REMOVAL, Automatic Transmission Assembly.>
- 2) Remove the air breather hose. <Ref. to CVT(TH58A)-171, REMOVAL, Air Breather Hose.>
- 3) Remove the transmission harness. <Ref. to CVT(TH58A)-143, REMOVAL, Transmission Harness.>
- 4) Remove the main control valve body. <Ref. to CVT(TH58A)-115, REMOVAL, Control Valve Body.>
- 5) Remove the turbine speed sensor. <Ref. to CVT(TH58A)-104, REMOVAL, Turbine Speed Sensor.>
- 6) Remove the secondary speed sensor. <Ref. to CVT(TH58A)-106, REMOVAL, Secondary Speed Sensor.>
- 7) Remove the front wheel speed sensor. <Ref. to CVT(TH58A)-108, REMOVAL, Front Wheel Speed Sensor.>
- 8) Remove the inhibitor switch. <Ref. to CVT(TH58A)-101, REMOVAL, Inhibitor Switch.>
- 9) Remove the extension case. <Ref. to CVT(TH58A)-182, REMOVAL, Extension Case.>
- 10) Remove the transfer clutch assembly. <Ref. to CVT(TH58A)-186, REMOVAL, Transfer Clutch.>
- 11) Remove the transfer driven gear assembly. <Ref. to CVT(TH58A)-200, REMOVAL, Transfer Driven Gear.>
- 12) Remove the transfer drive gear assembly. <Ref. to CVT(TH58A)-203, REMOVAL, Transfer Drive Gear.>
- 13) Remove the parking pawl. <Ref. to CVT(TH58A)-208, REMOVAL, Parking Pawl.>
- 14) Remove the oil pan and oil strainer. <Ref. to CVT(TH58A)-112, REMOVAL, Oil Pan and Strainer.>
- 15) Remove the transmission control device. <Ref. to CVT(TH58A)-210, REMOVAL, Transmission Control Device.>
- 16) Remove the drive motor assembly. <Ref. to CVT(TH58A)-217, REMOVAL, Drive Motor Assembly.>
- 17) Remove the output clutch assembly. <Ref. to CVT(TH58A)-228, REMOVAL, Output Clutch Assembly.>
- 18) Remove the two oil baffle mounting bolts.

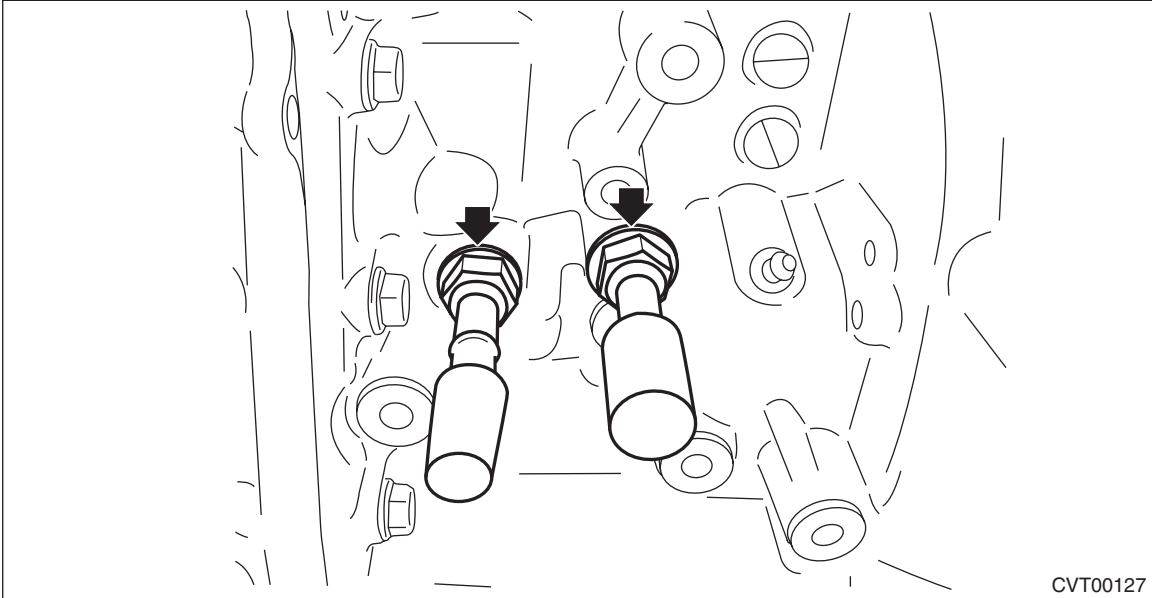


CVT00126

Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

19) Remove the oil cooler pipe.

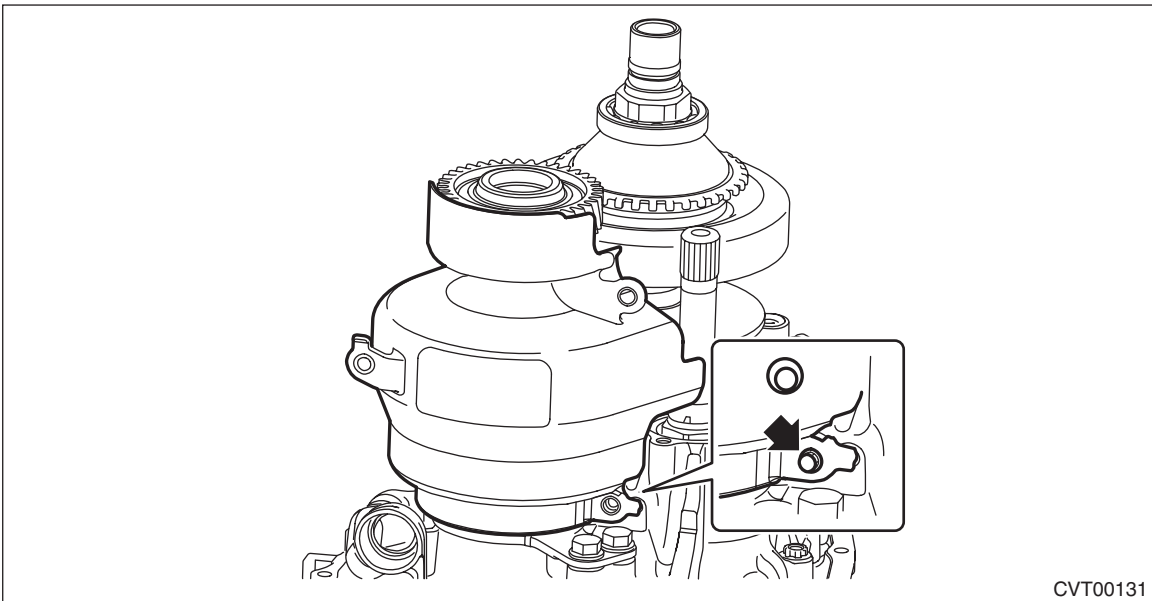


20) Remove the transmission case.

NOTE:

The total number of transmission case mounting bolts is 15.

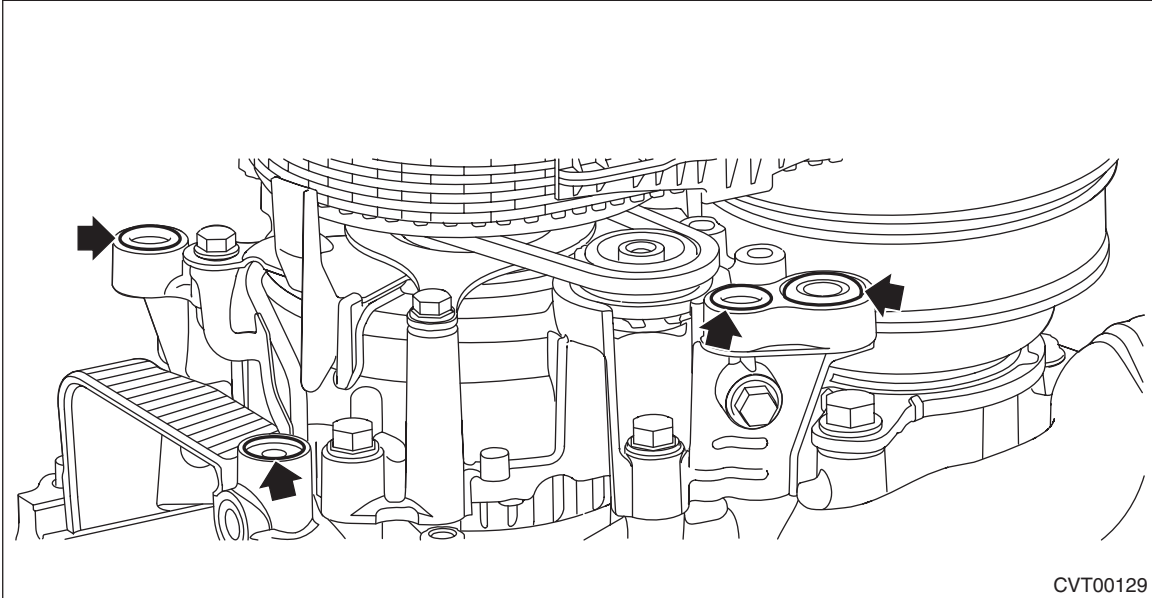
21) Remove the oil baffle.



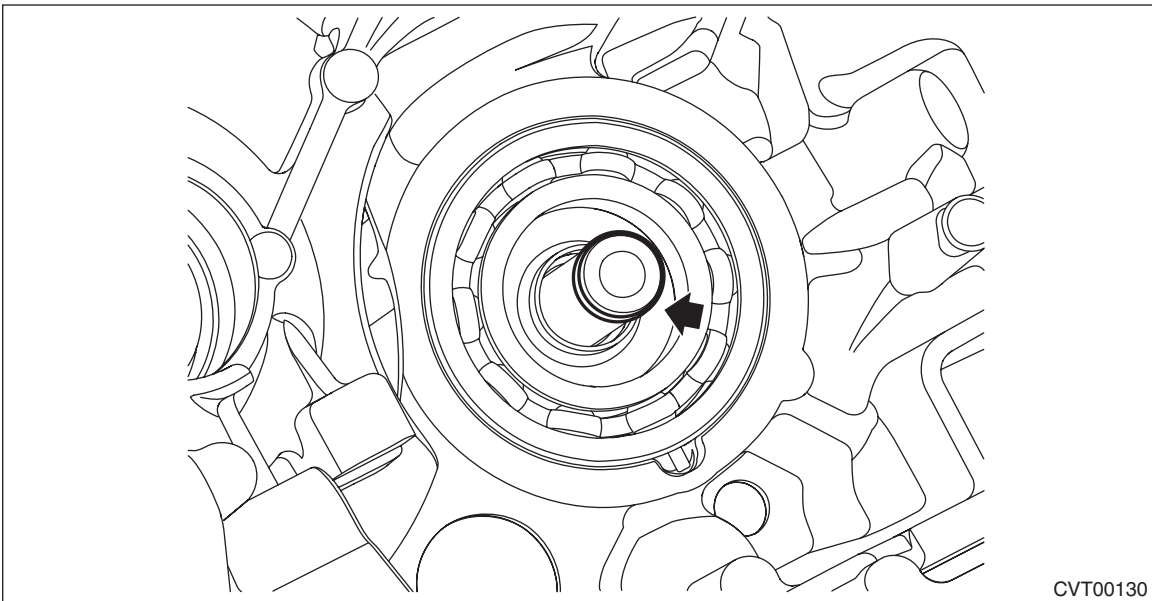
Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

22) Remove the O-ring.



23) Remove the seal ring from the transmission case.



Transmission Case

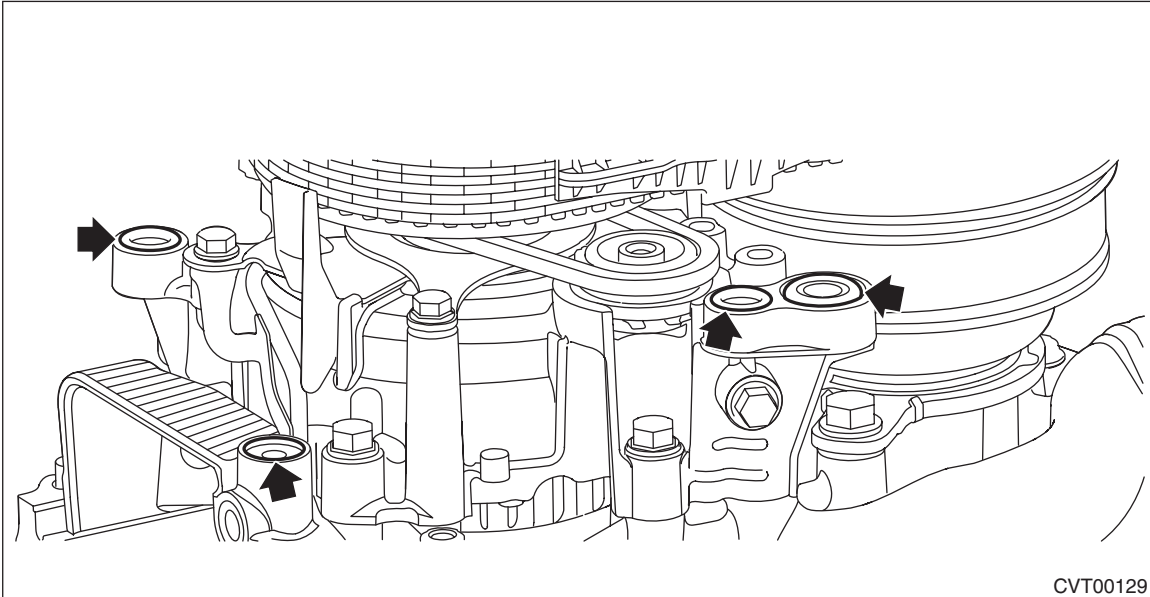
CONTINUOUSLY VARIABLE TRANSMISSION

B: INSTALLATION

- 1) Clean the mating surface of transmission case and converter case.
- 2) Select the reduction gear shim. <Ref. to CVT(TH58A)-261, 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.

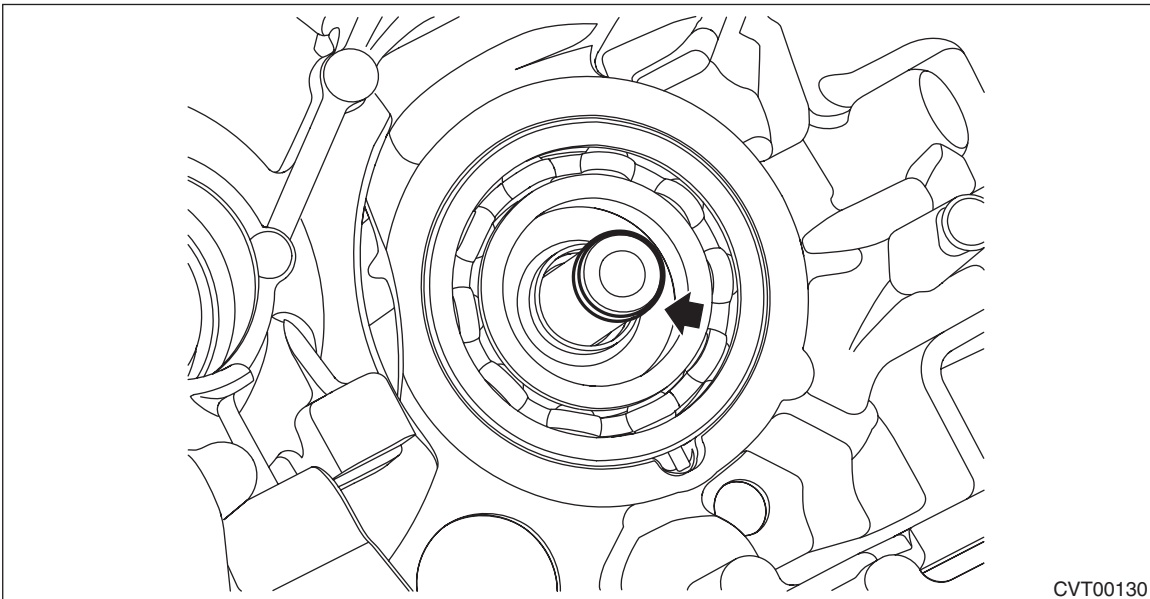


CVT00129

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

NOTE:

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

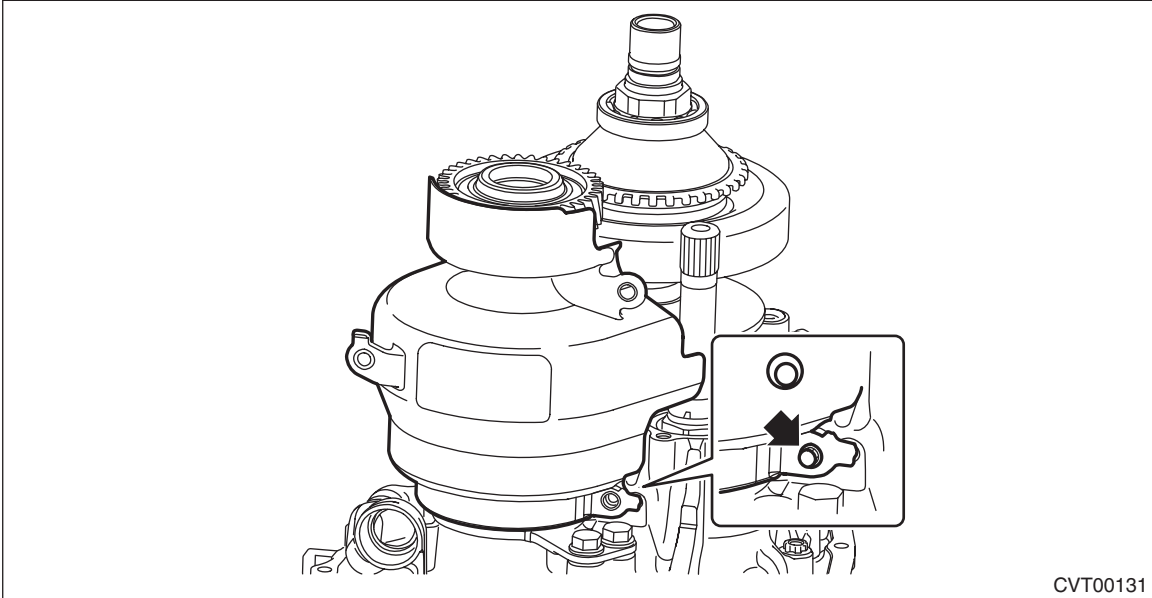


CVT00130

Transmission Case

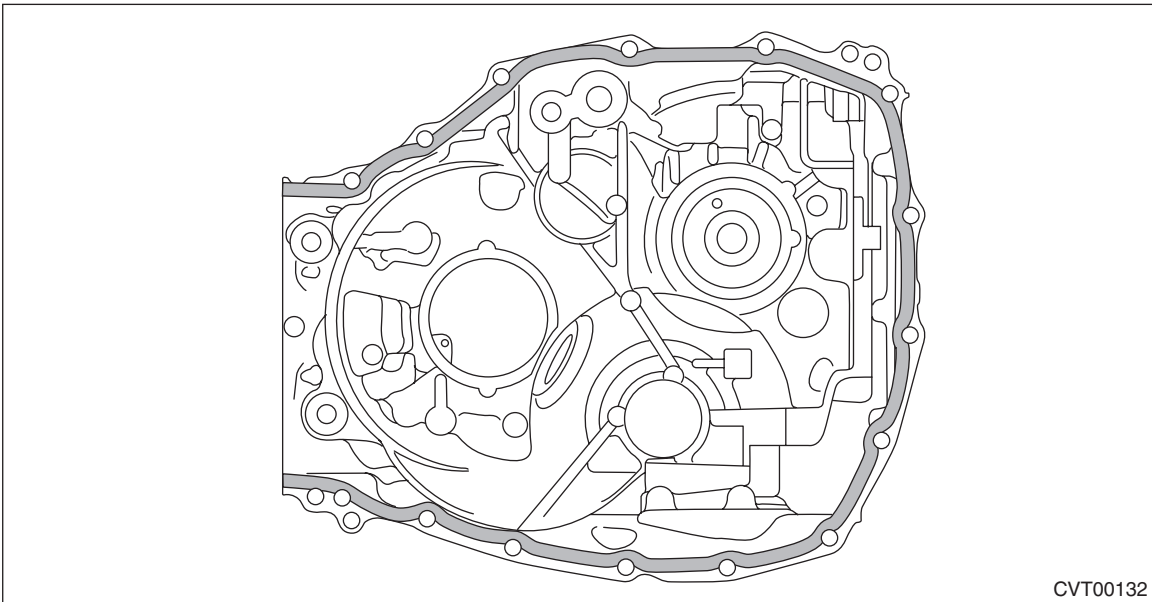
CONTINUOUSLY VARIABLE TRANSMISSION

- 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 1215B 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

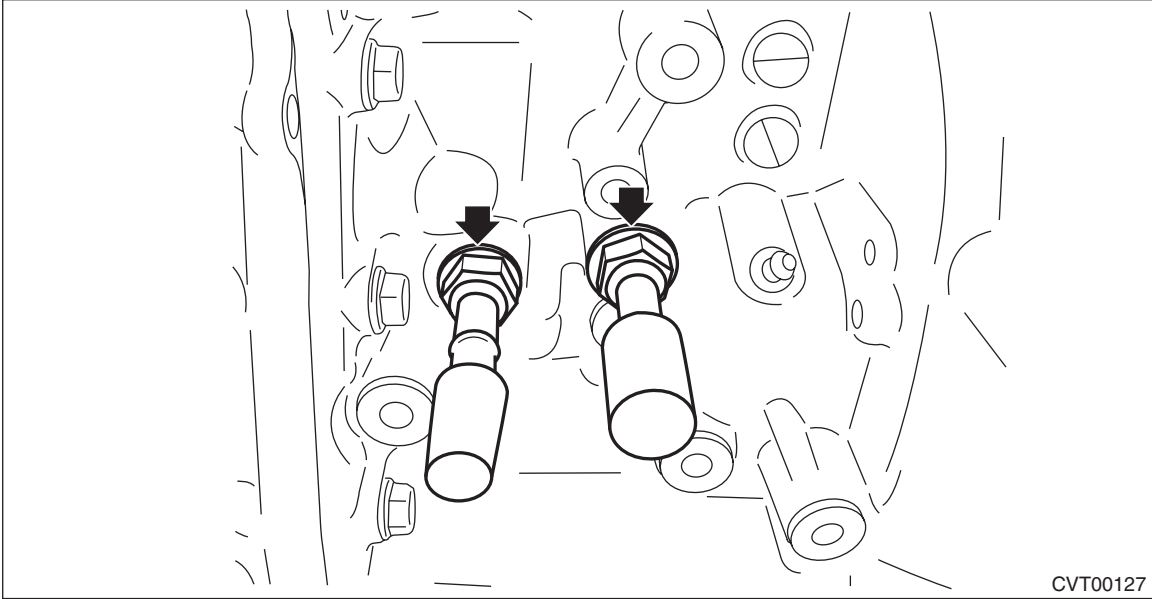
9) Install the oil cooler pipe.

NOTE:

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

Tightening torque:

25 N·m (2.5 kgf-m, 18.4 ft-lb)

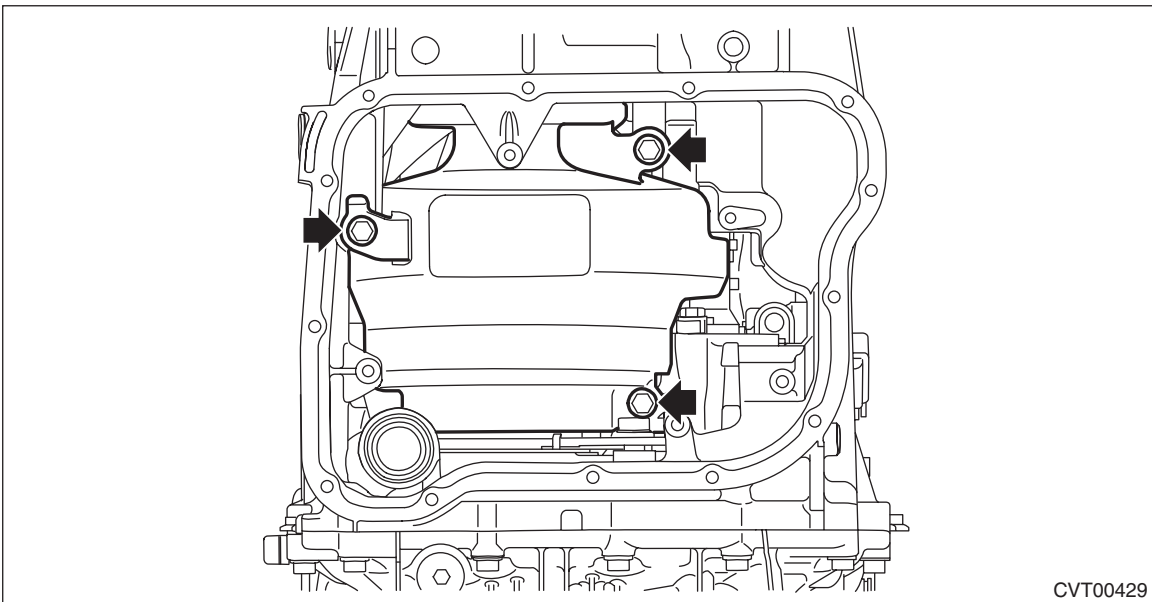


CVT00127

10) Install the oil baffle securing bolt.

Tightening torque:

16 N·m (1.6 kgf-m, 11.8 ft-lb)



CVT00429

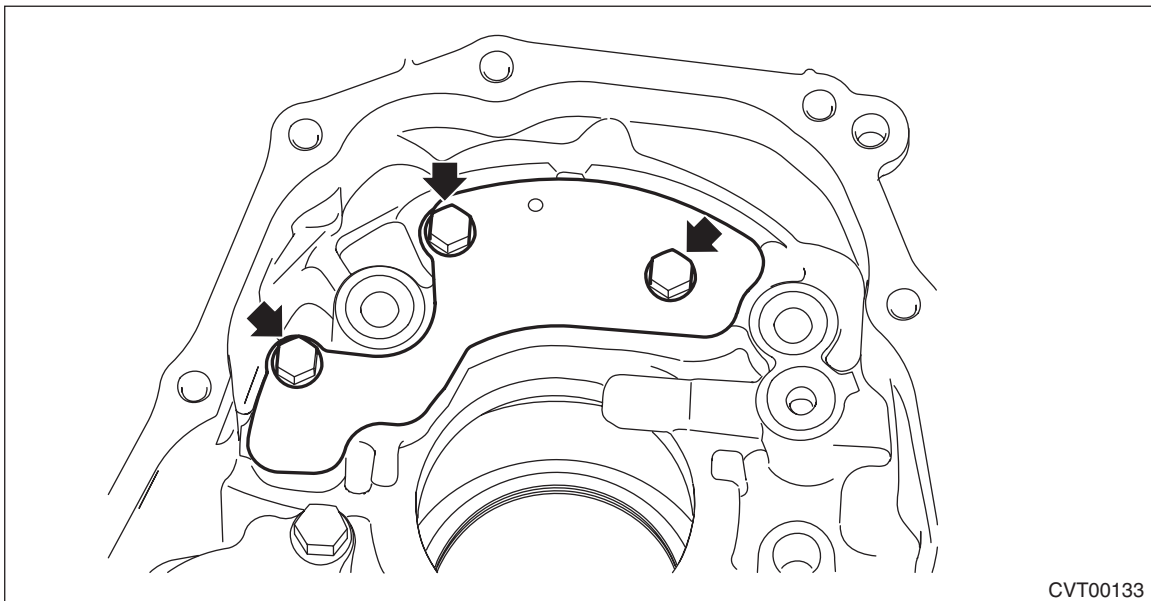
Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

- 11) Install the output clutch assembly. <Ref. to CVT(TH58A)-229, INSTALLATION, Output Clutch Assembly.>
- 12) Install the drive motor assembly. <Ref. to CVT(TH58A)-221, INSTALLATION, Drive Motor Assembly.>
- 13) Install the transmission control device. <Ref. to CVT(TH58A)-213, INSTALLATION, Transmission Control Device.>
- 14) Install the oil strainer and oil pan. <Ref. to CVT(TH58A)-114, INSTALLATION, Oil Pan and Strainer.>
- 15) Install the parking pawl. <Ref. to CVT(TH58A)-208, INSTALLATION, Parking Pawl.>
- 16) Install the transfer drive gear assembly. <Ref. to CVT(TH58A)-204, INSTALLATION, Transfer Drive Gear.>
- 17) Install the transfer driven gear assembly. <Ref. to CVT(TH58A)-201, INSTALLATION, Transfer Driven Gear.>
- 18) Install the transfer clutch assembly. <Ref. to CVT(TH58A)-188, INSTALLATION, Transfer Clutch.>
- 19) Install the extension case. <Ref. to CVT(TH58A)-183, INSTALLATION, Extension Case.>
- 20) Install the inhibitor switch. <Ref. to CVT(TH58A)-102, INSTALLATION, Inhibitor Switch.>
- 21) Install the secondary speed sensor. <Ref. to CVT(TH58A)-106, INSTALLATION, Secondary Speed Sensor.>
- 22) Install the front wheel speed sensor. <Ref. to CVT(TH58A)-108, INSTALLATION, Front Wheel Speed Sensor.>
- 23) Install the turbine speed sensor. <Ref. to CVT(TH58A)-104, INSTALLATION, Turbine Speed Sensor.>
- 24) Install the main control valve body. <Ref. to CVT(TH58A)-123, INSTALLATION, Control Valve Body.>
- 25) Install the transmission harness. <Ref. to CVT(TH58A)-151, INSTALLATION, Transmission Harness.>
- 26) Install the air breather hose. <Ref. to CVT(TH58A)-173, INSTALLATION, Air Breather Hose.>
- 27) Install the transmission assembly to the vehicle. <Ref. to CVT(TH58A)-77, INSTALLATION, Automatic Transmission Assembly.>

C: DISASSEMBLY

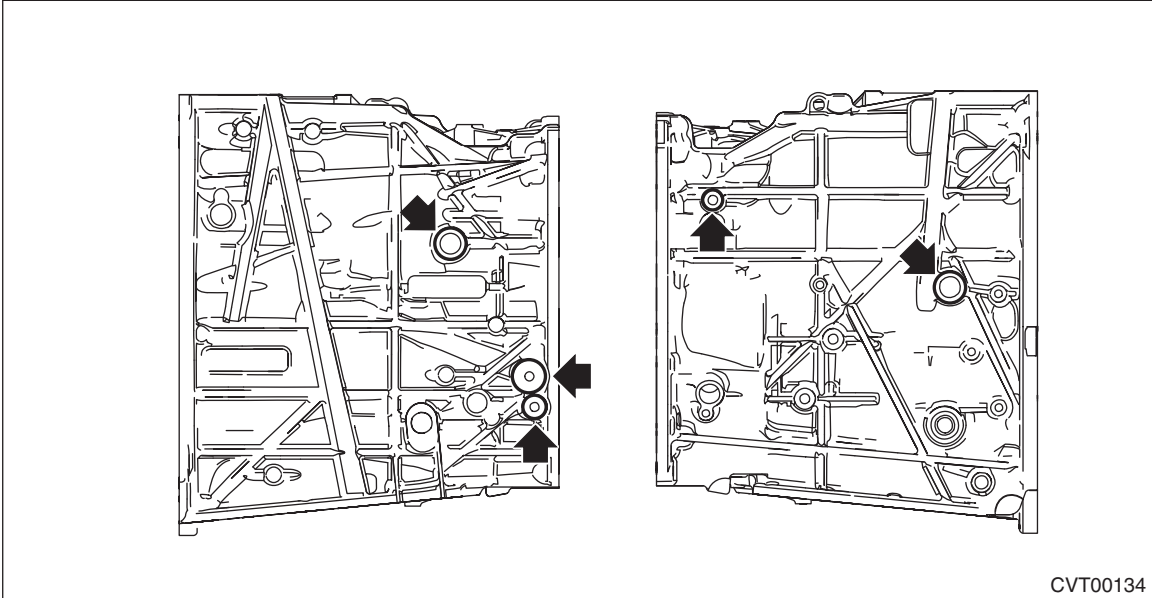
- 1) Remove the oil stopper plate.



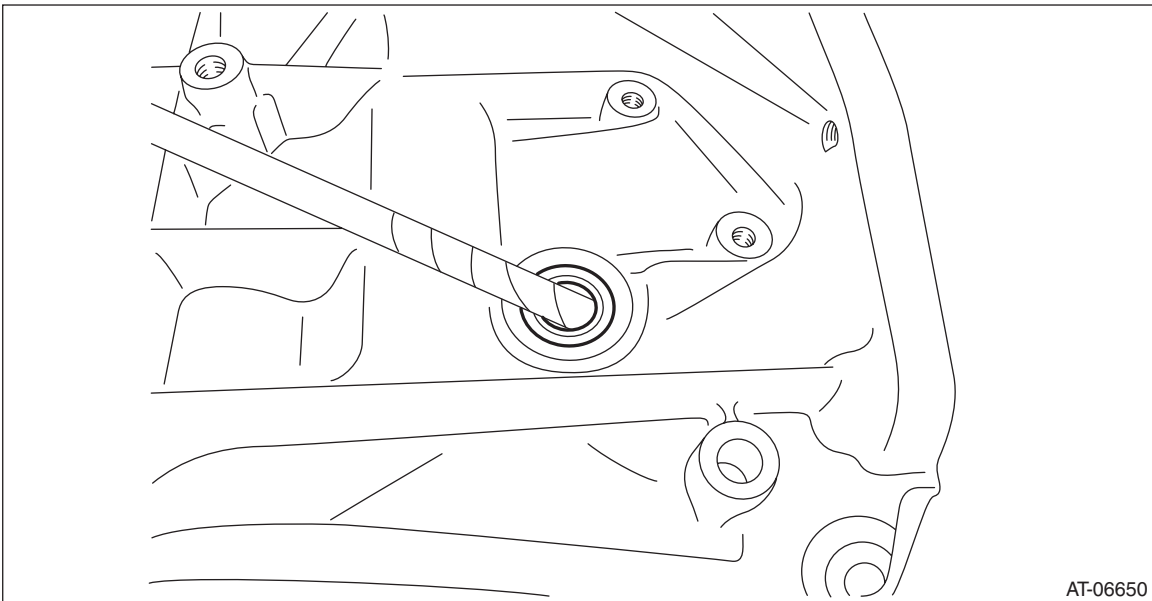
Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

- 2) Remove all plugs from the transmission case.



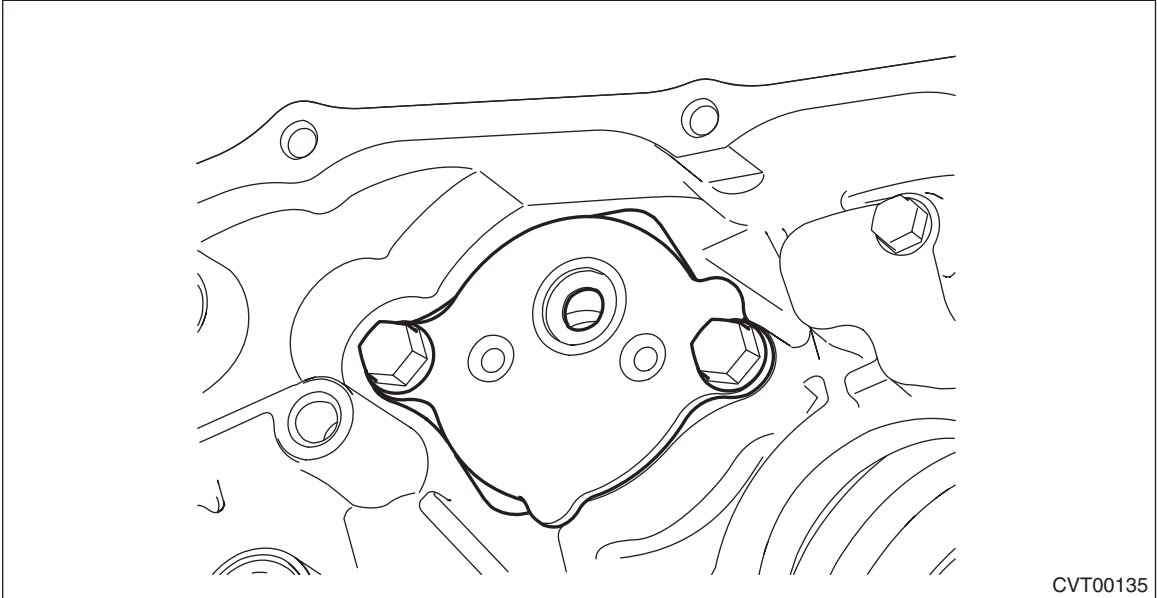
- 3) Remove the oil seal using a screwdriver wrapped with cloth etc.



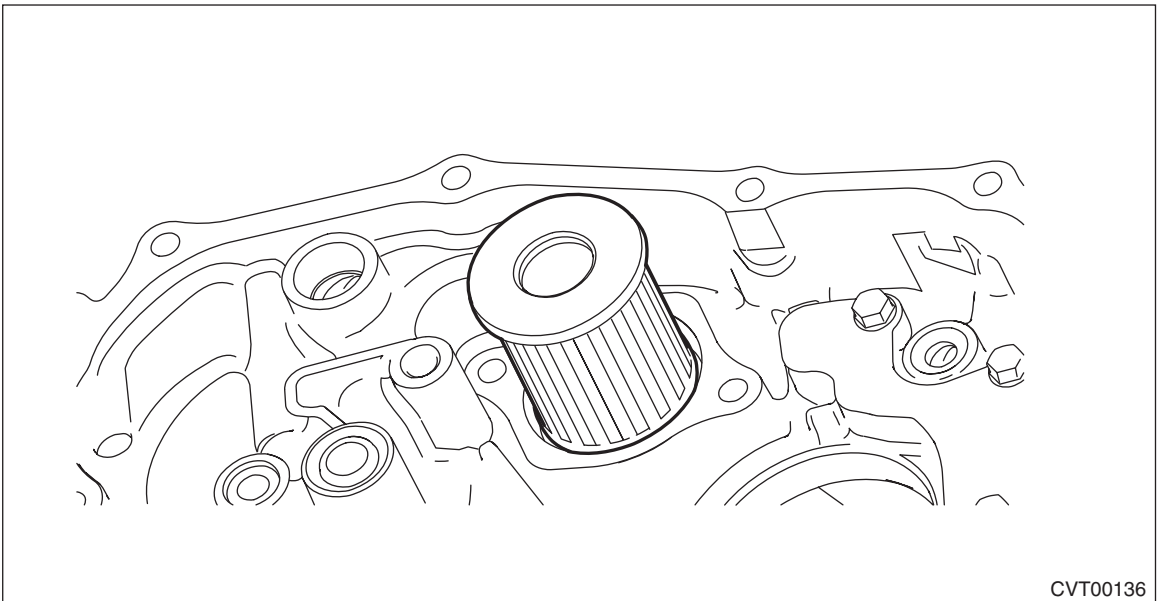
Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

- 4) Remove the CVTF filter cover and gasket.



- 5) Remove the CVTF filter.



Transmission Case

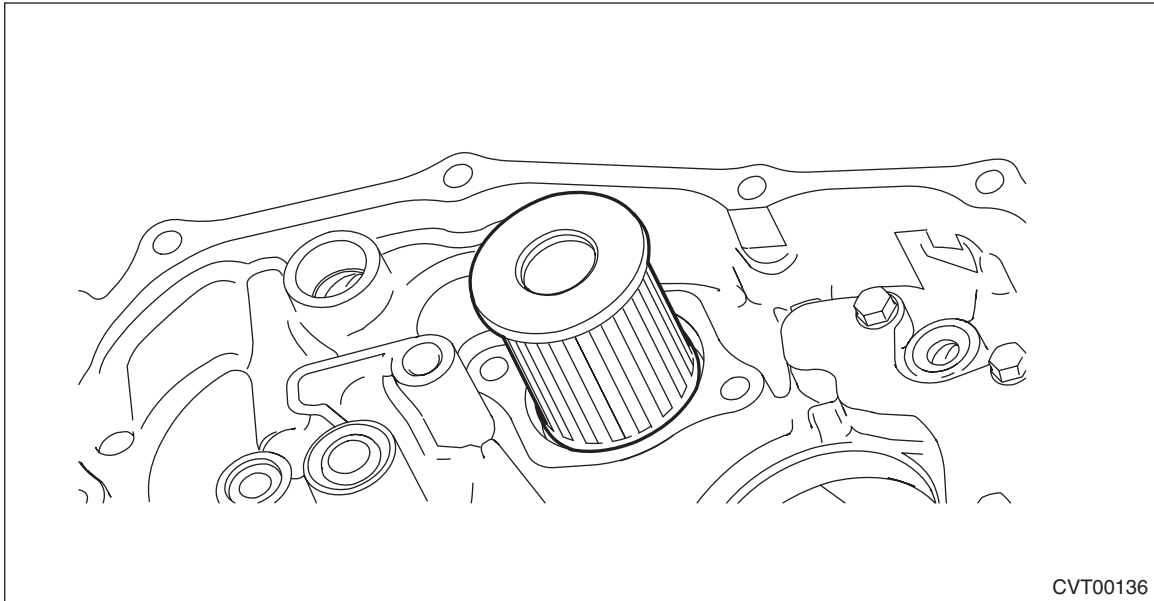
CONTINUOUSLY VARIABLE TRANSMISSION

D: ASSEMBLY

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

NOTE:

Apply CVTF to the O-ring of CVTF filter.



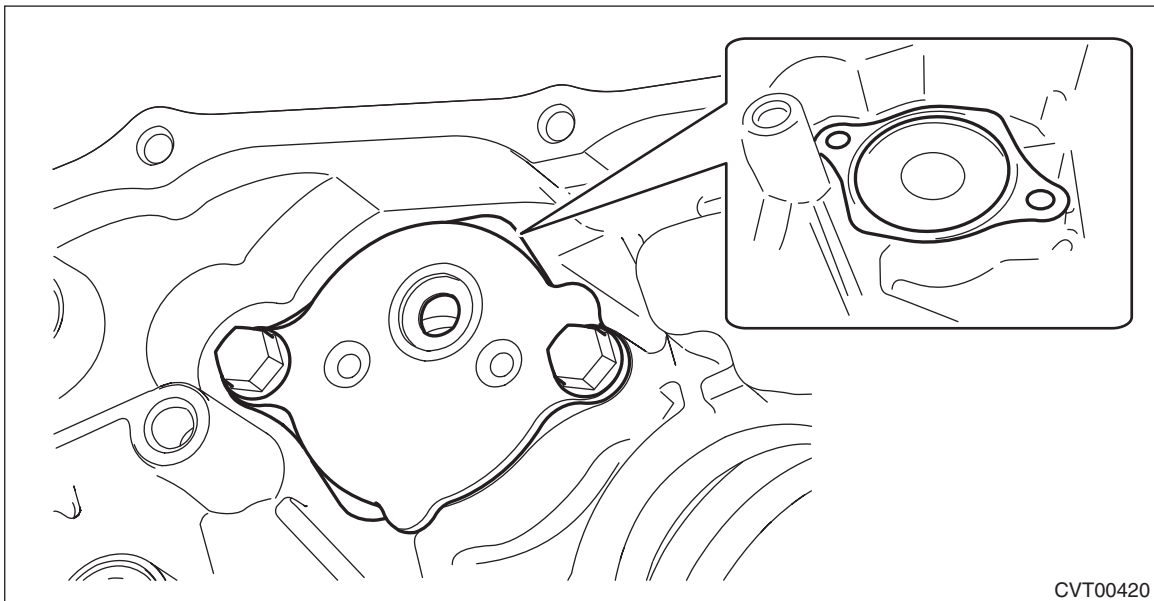
2) Install the CVTF filter cover and gasket.

NOTE:

- Use a new gasket.
- The gasket has the front side and back side. Install it as shown in the figure.

Tightening torque:

17 N·m (1.7 kgf-m, 12.5 ft-lb)

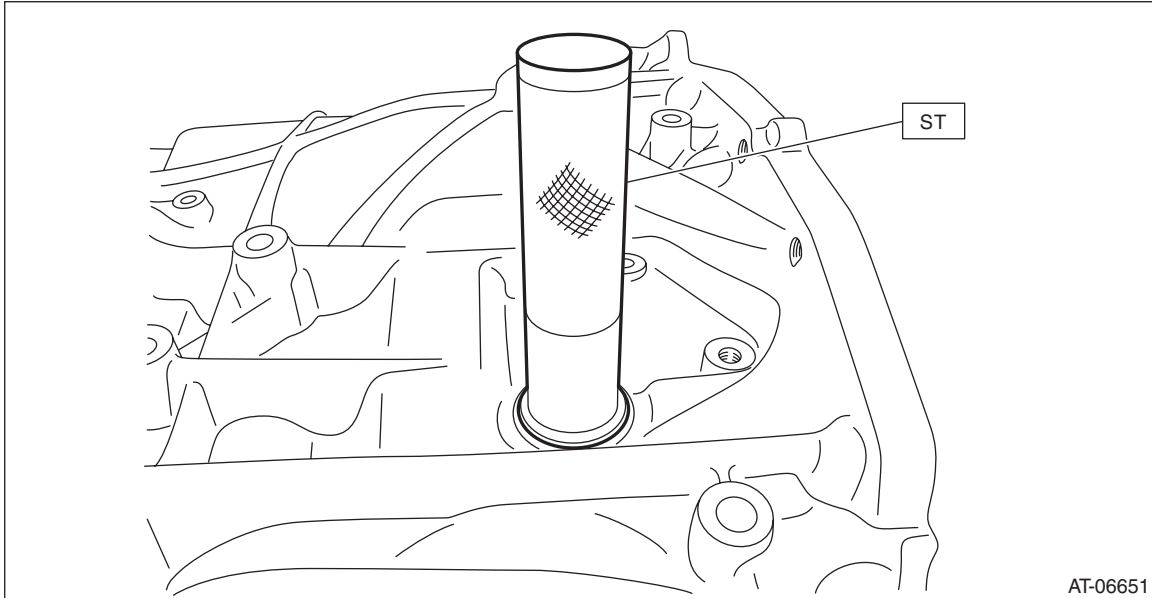


3) Using the ST, install the oil seal.

NOTE:

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

ST 18657AA000 INSTALLER



AT-06651

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 gasket.

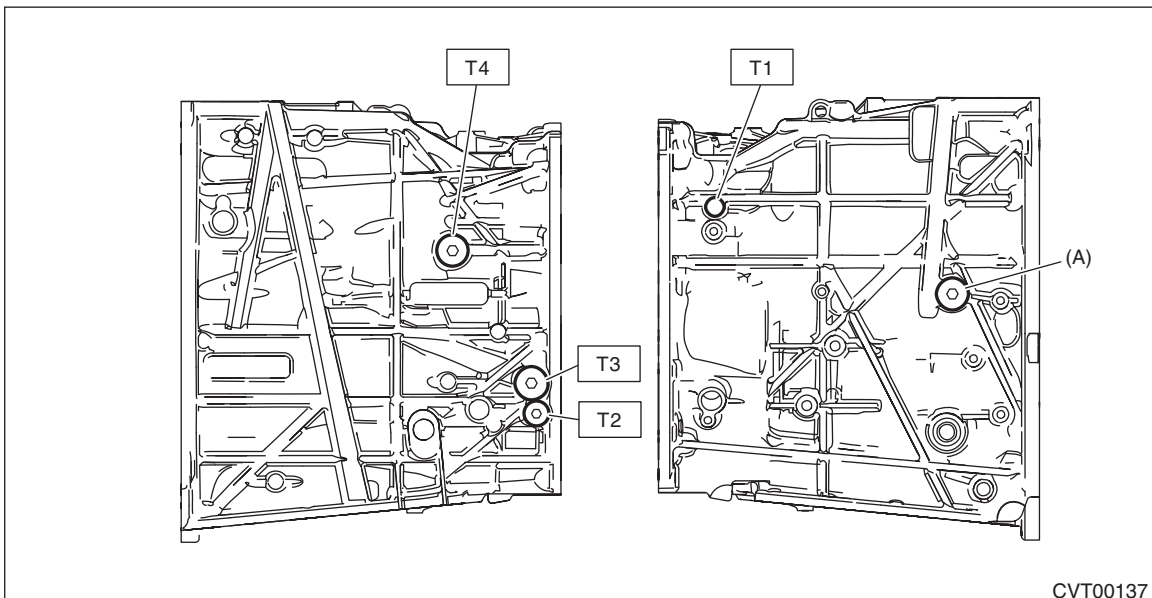
Tightening torque:

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)

T4: 60 N·m (6.0 kgf-m, 44.3 ft-lb)



CVT00137

Transmission Case

CONTINUOUSLY VARIABLE TRANSMISSION

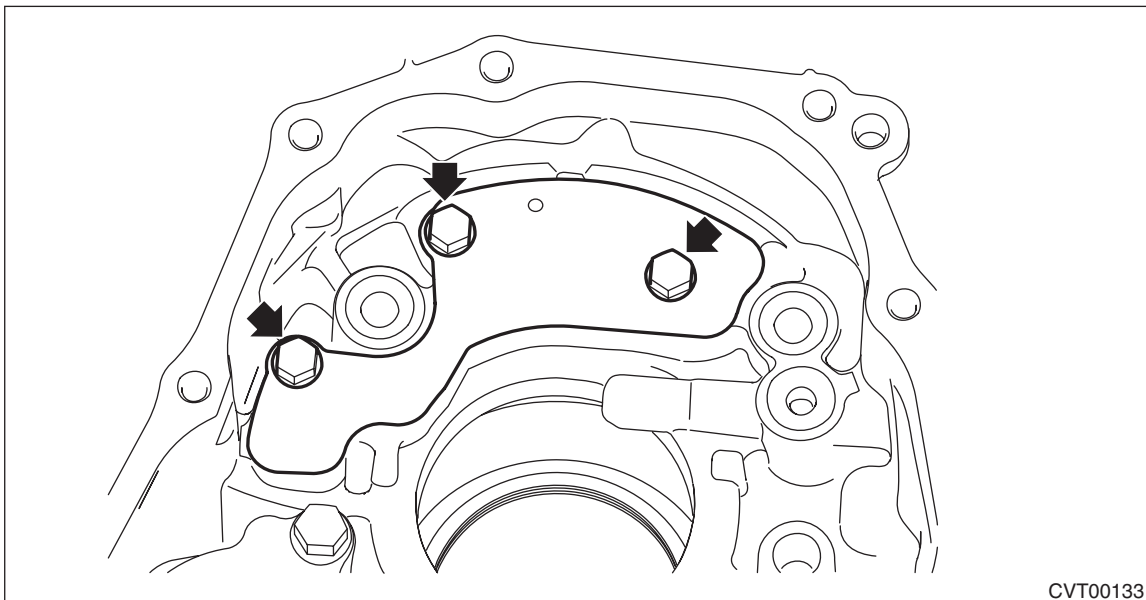
5) Install the oil stopper plate.

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.
- Check each part for damage.

F: ADJUSTMENT

NOTE:

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

- Select the reduction driven gear shim. <Ref. to CVT(TH58A)-243, ADJUSTMENT, Output Clutch Assembly.>
- Select the reduction drive gear shim. <Ref. to CVT(TH58A)-261, ADJUSTMENT, Reduction Drive Gear.>