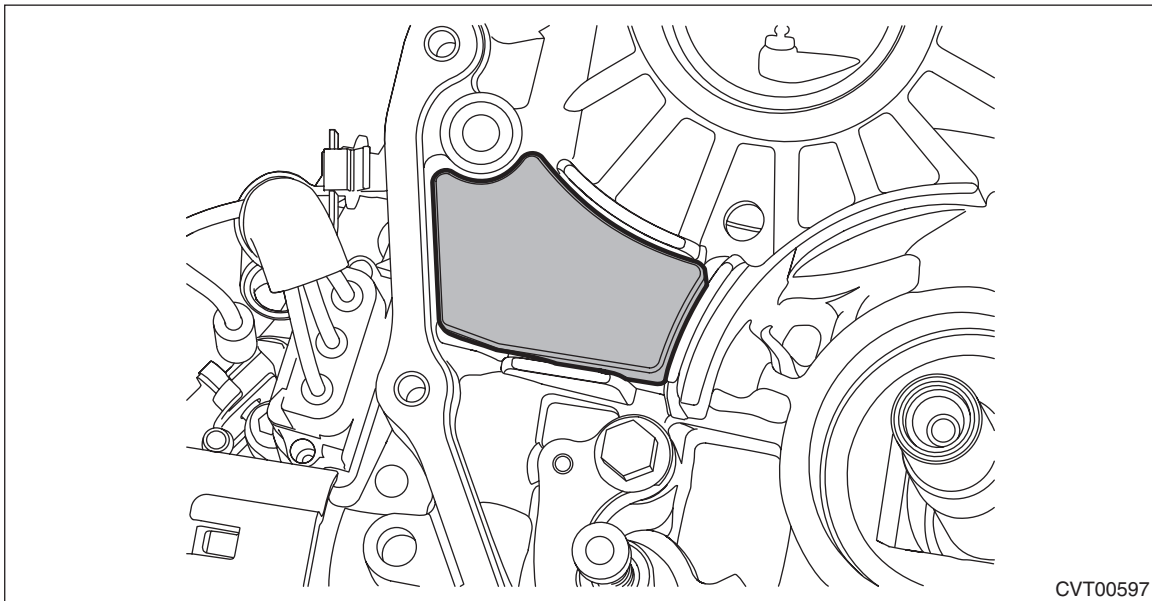


38. Drive Motor Assembly

A: REMOVAL

- 1) Remove the transmission assembly from the vehicle. <Ref. to CVT(TH58A)-63, REMOVAL, Automatic Transmission Assembly.>
- 2) Remove the sensor cover. <Ref. to CVT(TH58A)-143, REMOVAL, Transmission Harness.>
- 3) Remove the secondary pressure sensor harness connector, and remove the harness clip. <Ref. to CVT(TH58A)-143, REMOVAL, Transmission Harness.>
- 4) Remove the extension case. <Ref. to CVT(TH58A)-182, REMOVAL, Extension Case.>
- 5) Remove the transfer clutch assembly. <Ref. to CVT(TH58A)-186, REMOVAL, Transfer Clutch.>
- 6) Remove the transfer driven gear assembly. <Ref. to CVT(TH58A)-200, REMOVAL, Transfer Driven Gear.>
- 7) Remove the transfer drive gear assembly. <Ref. to CVT(TH58A)-203, REMOVAL, Transfer Drive Gear.>
- 8) Remove the parking pawl. <Ref. to CVT(TH58A)-208, REMOVAL, Parking Pawl.>
- 9) Remove the transmission control device. <Ref. to CVT(TH58A)-210, REMOVAL, Transmission Control Device.>
- 10) Remove the oil spacer.

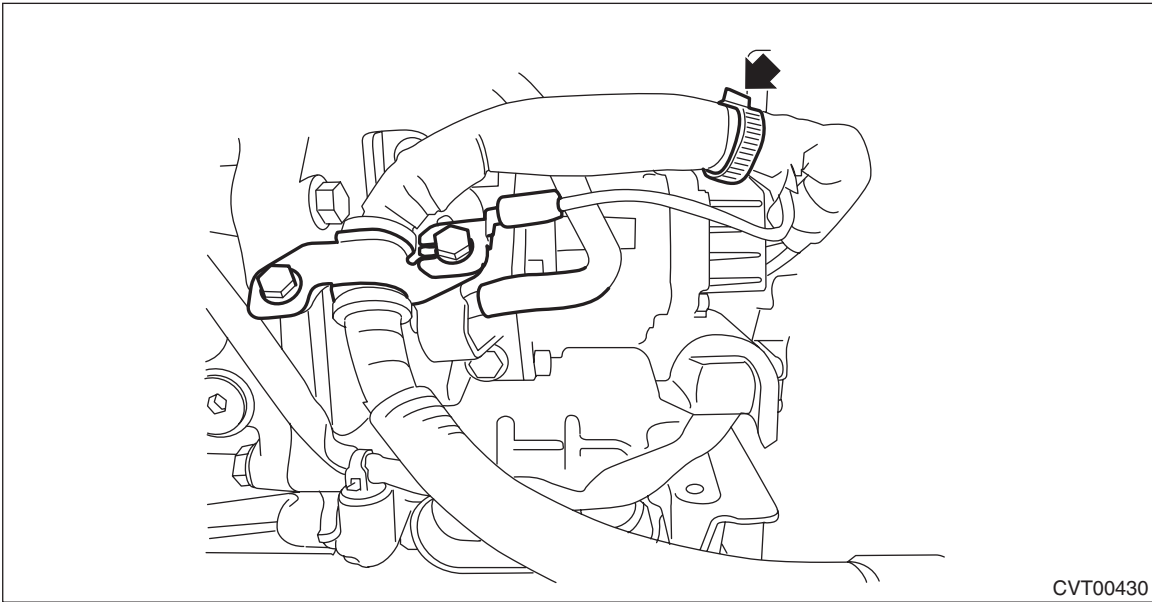


CVT00597

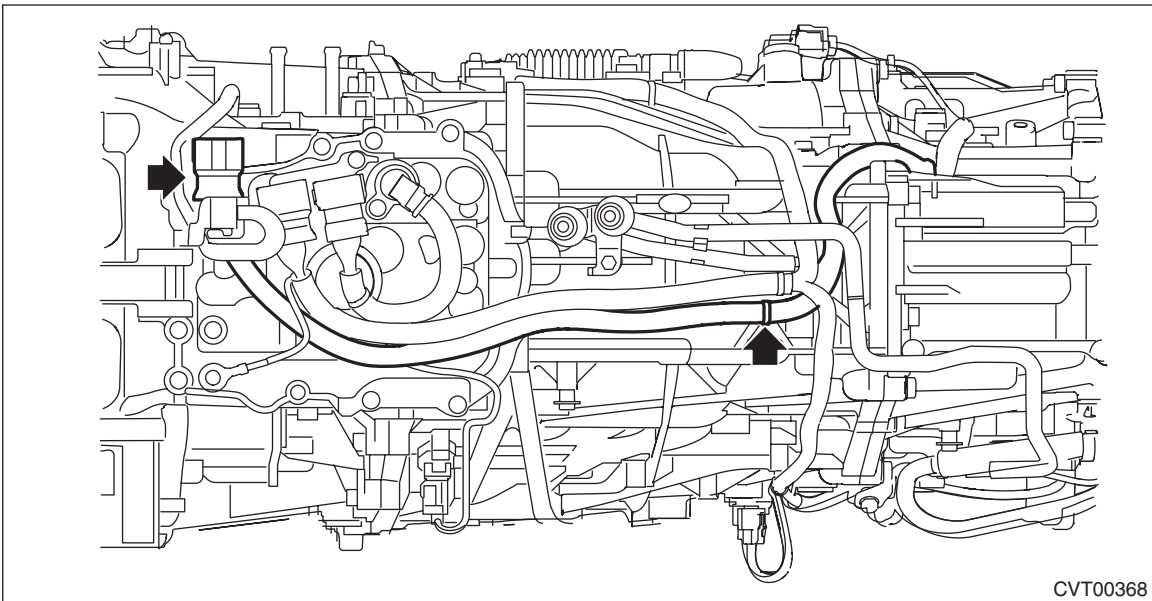
Drive Motor Assembly

CONTINUOUSLY VARIABLE TRANSMISSION

11) Release the harness clips from the harness bracket, then remove the air breather hose, harness bracket and ground terminal.



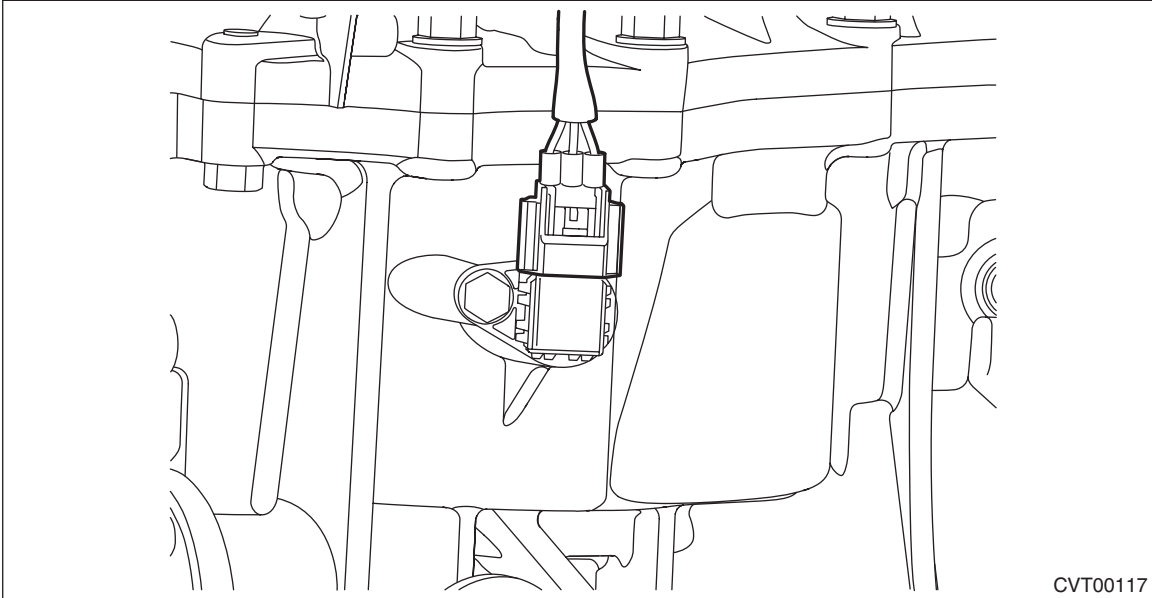
12) Remove the drive motor harness connector from the stay, and release the drive motor harness clips.



Drive Motor Assembly

CONTINUOUSLY VARIABLE TRANSMISSION

13) Remove the front wheel speed sensor harness connector.



14) Remove the drive motor assembly.

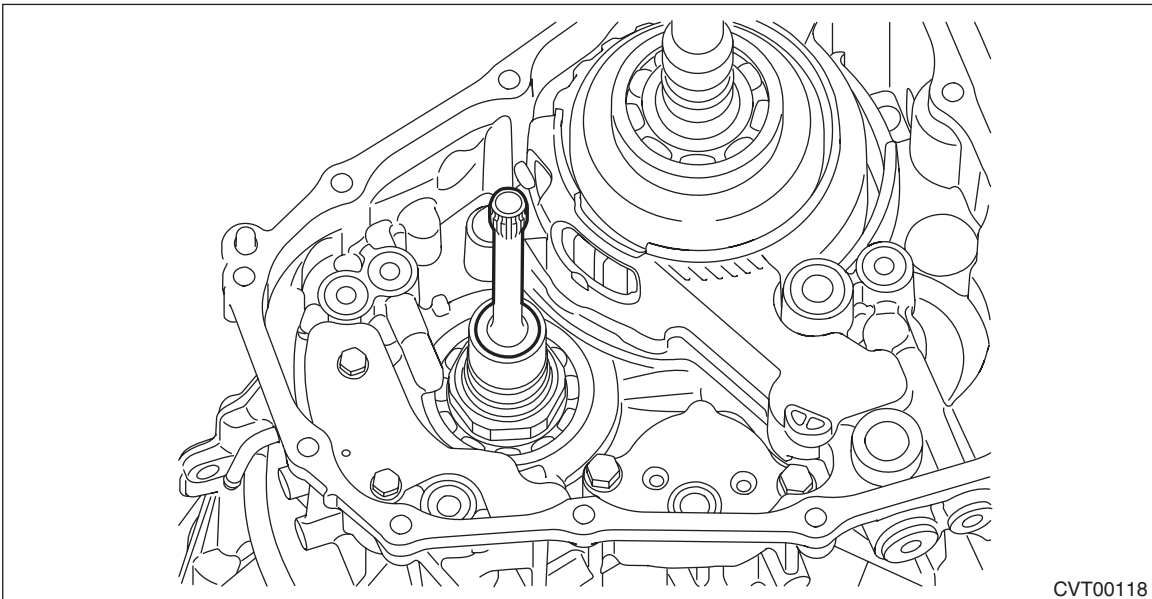
CAUTION:

Do not apply excessive force or damage the electric oil pump harness.

NOTE:

- The total number of drive motor assembly mounting bolts is 14.
- Perform this operation with two persons.
- After removal, do not place it with the drive motor side facing downward.

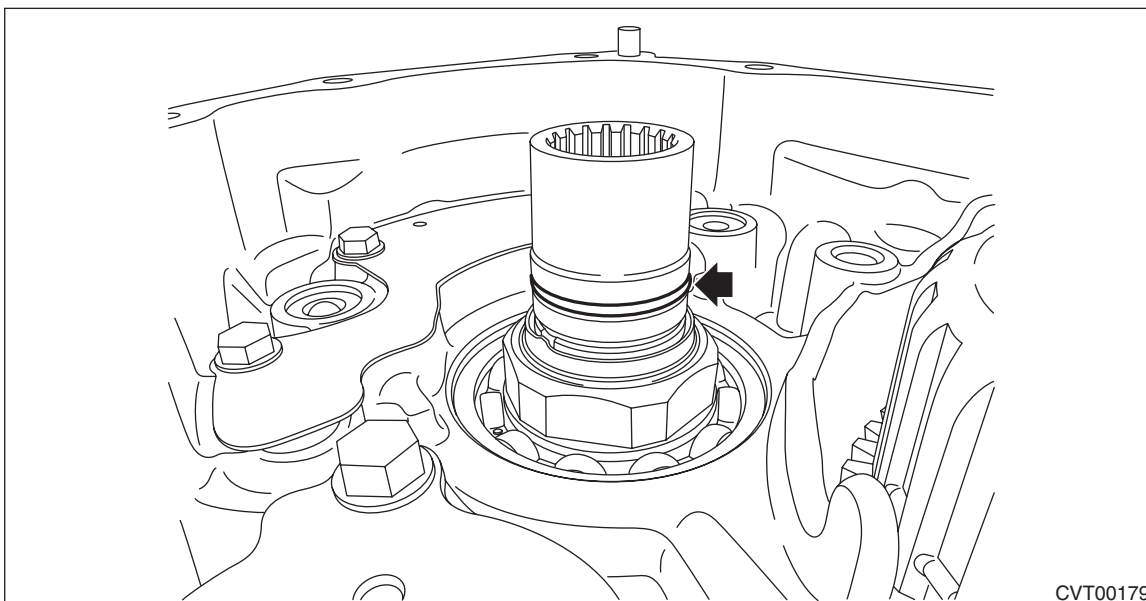
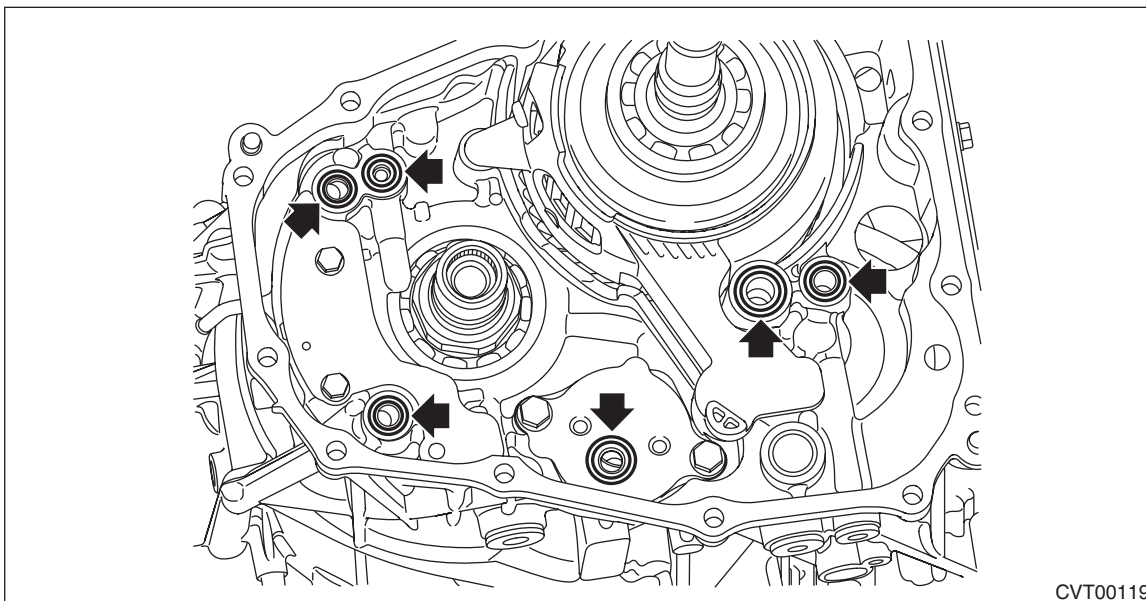
15) Remove the intermediate shaft.



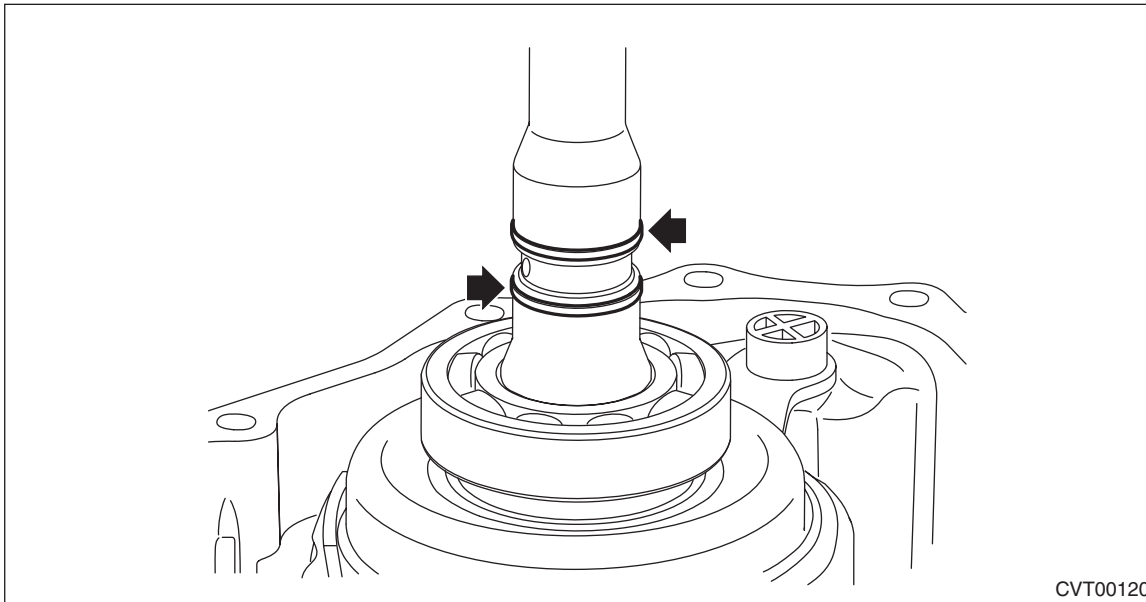
Drive Motor Assembly

CONTINUOUSLY VARIABLE TRANSMISSION

16) Remove the O-ring.



17) Remove the seal ring.

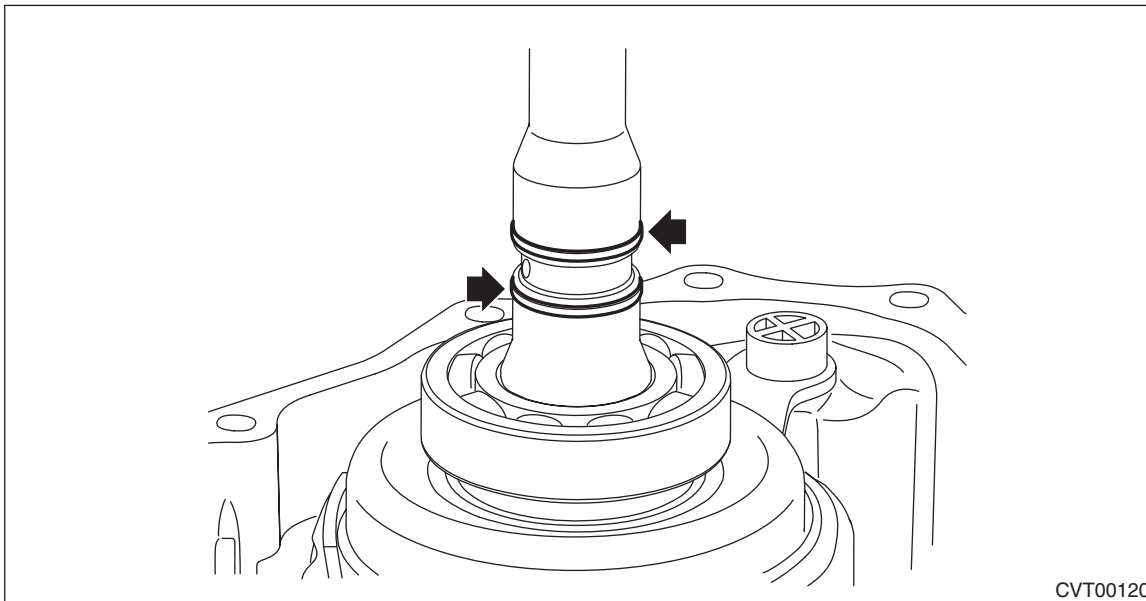


B: INSTALLATION

1) Install the seal ring.

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.



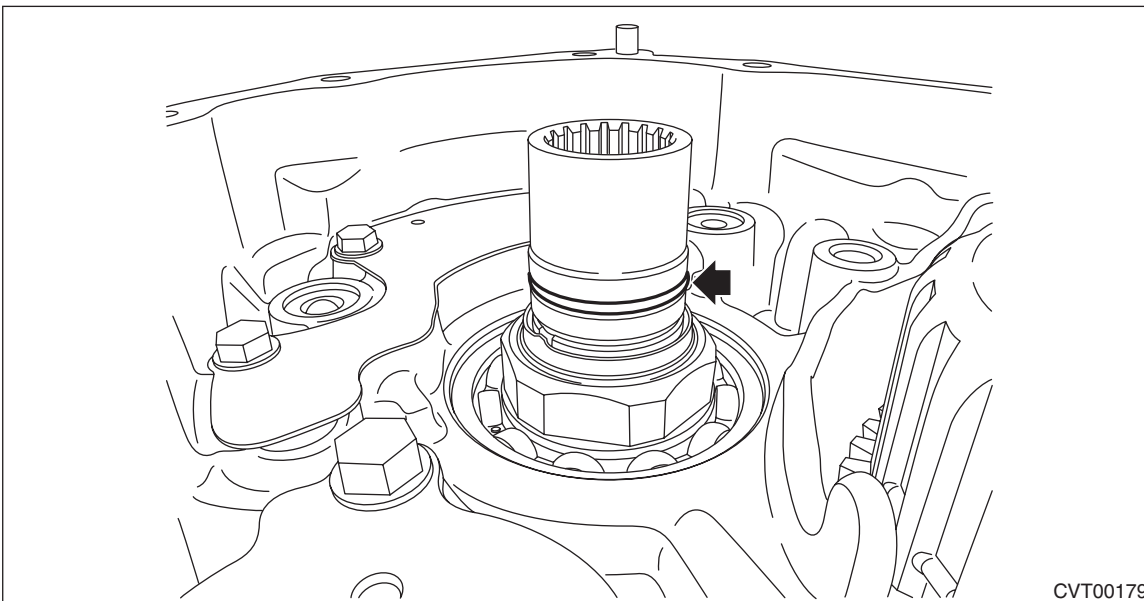
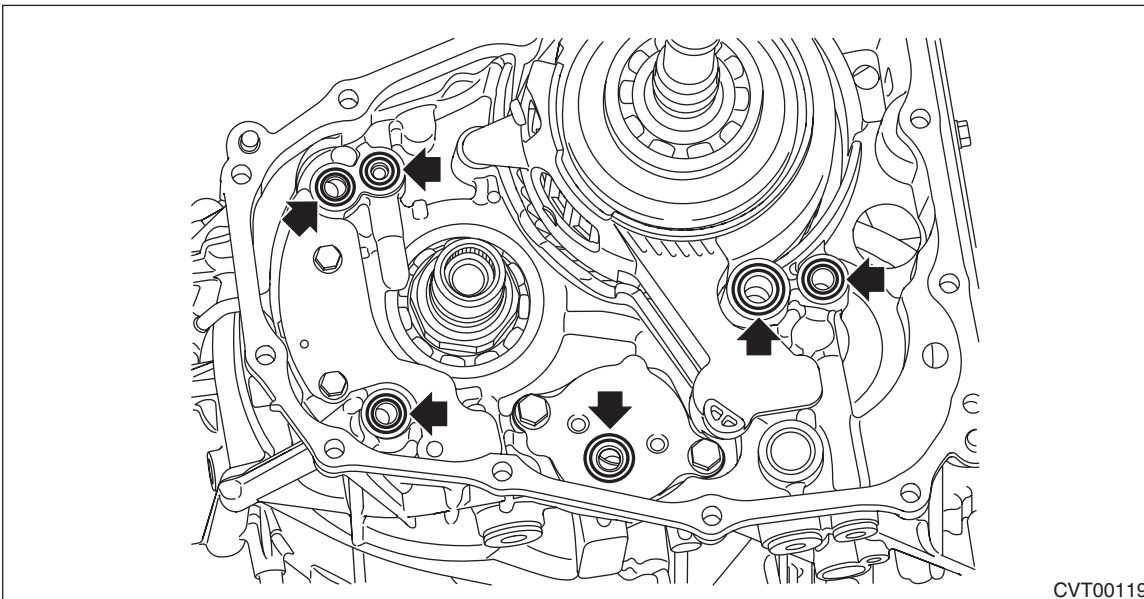
Drive Motor Assembly

CONTINUOUSLY VARIABLE TRANSMISSION

2) Install the O-ring.

NOTE:

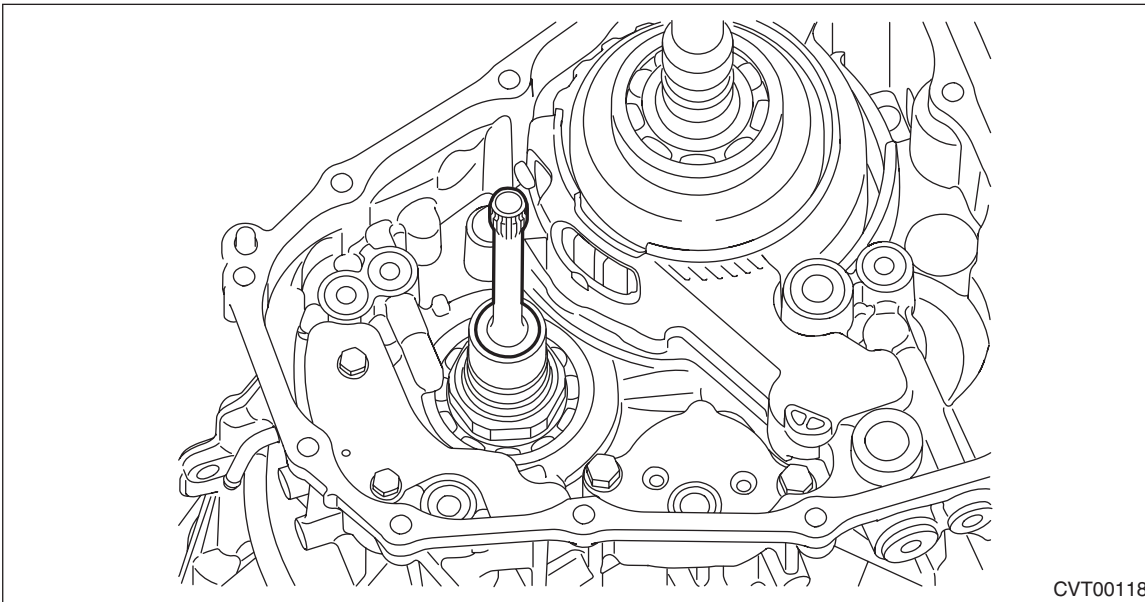
- Use new O-rings.
- Apply CVTF to the O-ring.



Drive Motor Assembly

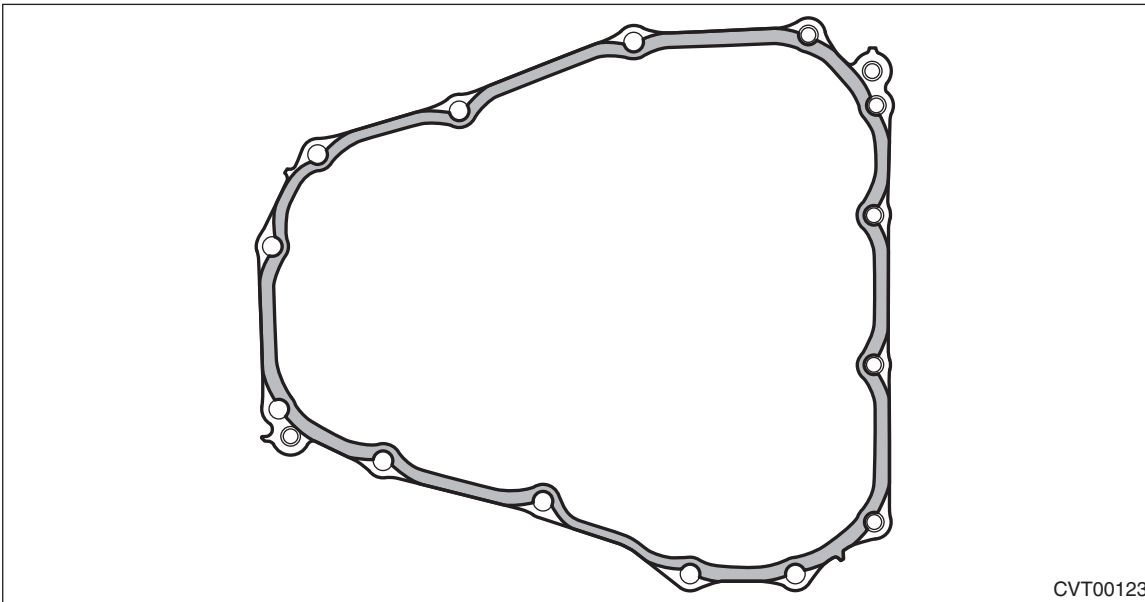
CONTINUOUSLY VARIABLE TRANSMISSION

3) Install the intermediate shaft.



4) Apply liquid gasket to the transmission case seamlessly.

Liquid gasket:
THREE BOND 1215B or equivalent



Drive Motor Assembly

CONTINUOUSLY VARIABLE TRANSMISSION

5) Install the drive motor assembly.

CAUTION:

Do not apply excessive force or damage the electric oil pump harness.

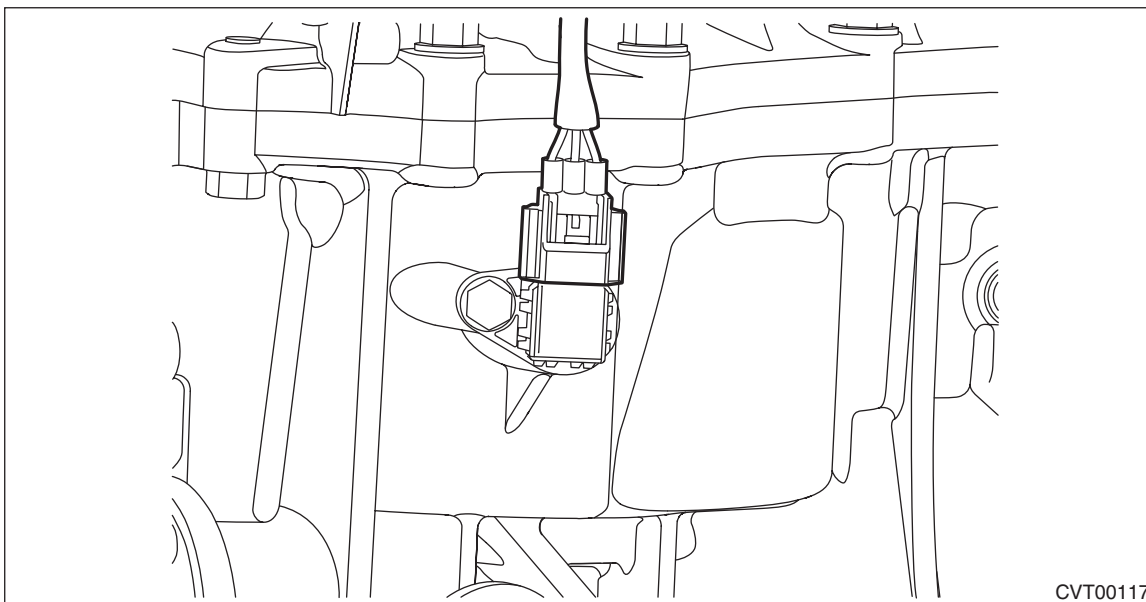
NOTE:

- The total number of drive motor assembly mounting bolts is 14.
- Perform this operation with two persons.

Tightening torque:

25 N·m (2.5 kgf-m, 18.4 ft-lb)

6) Install the front wheel speed sensor harness connector.



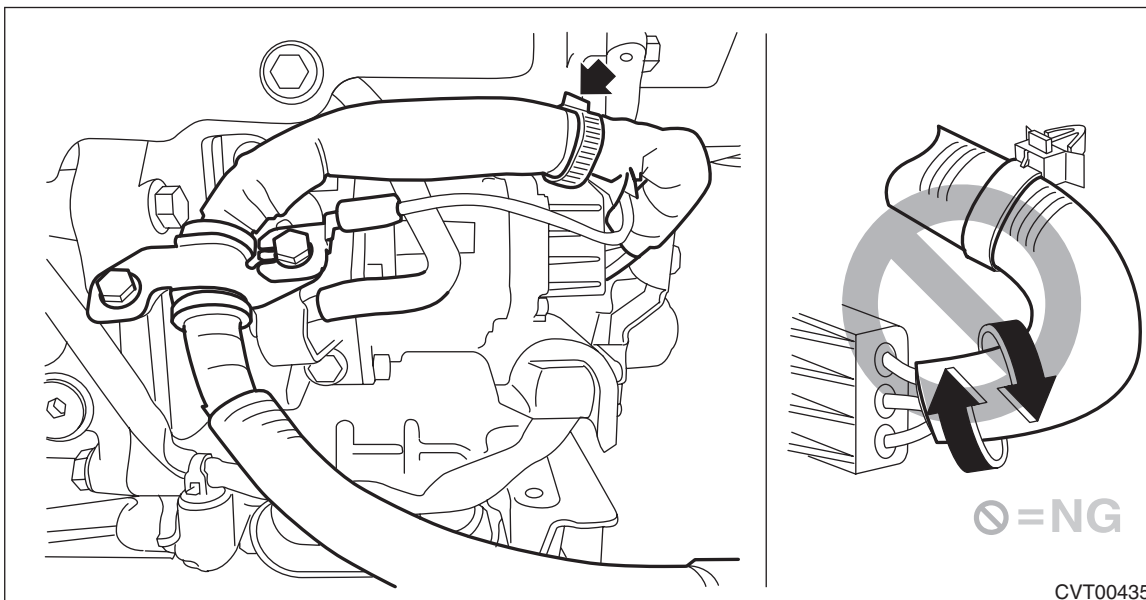
7) Install the harness bracket to the harness clip, then install the air breather hose, electric oil pump harness, harness bracket and ground terminal.

CAUTION:

When installing the electric oil pump harness, be careful not to twist the harness by 360°.

Tightening torque:

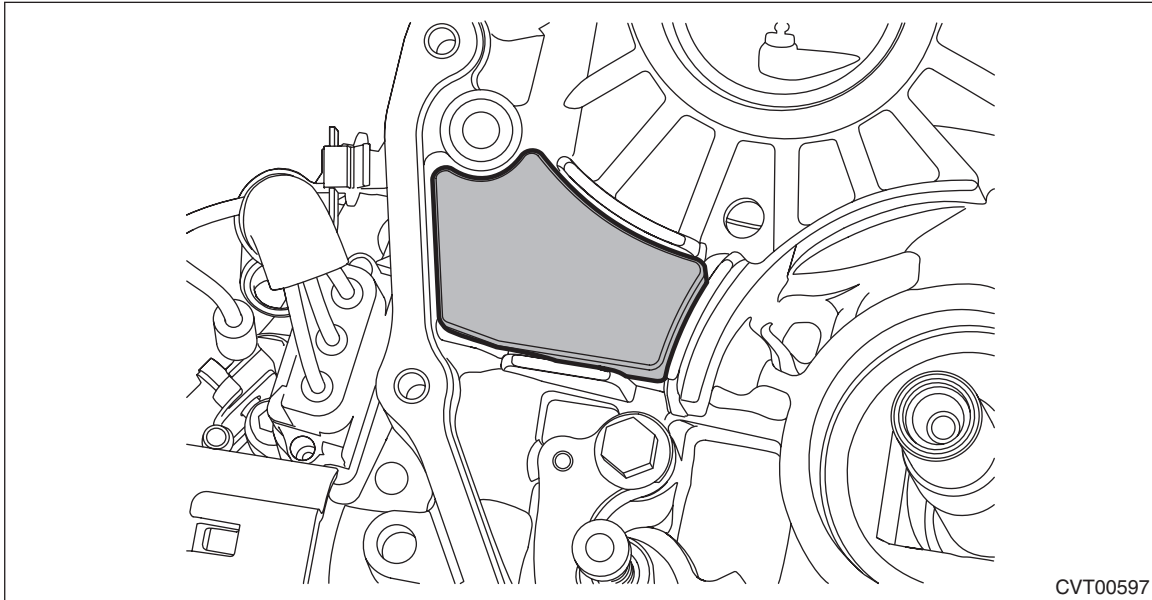
8 N·m (0.8 kgf-m, 13.3 ft-lb)



Drive Motor Assembly

CONTINUOUSLY VARIABLE TRANSMISSION

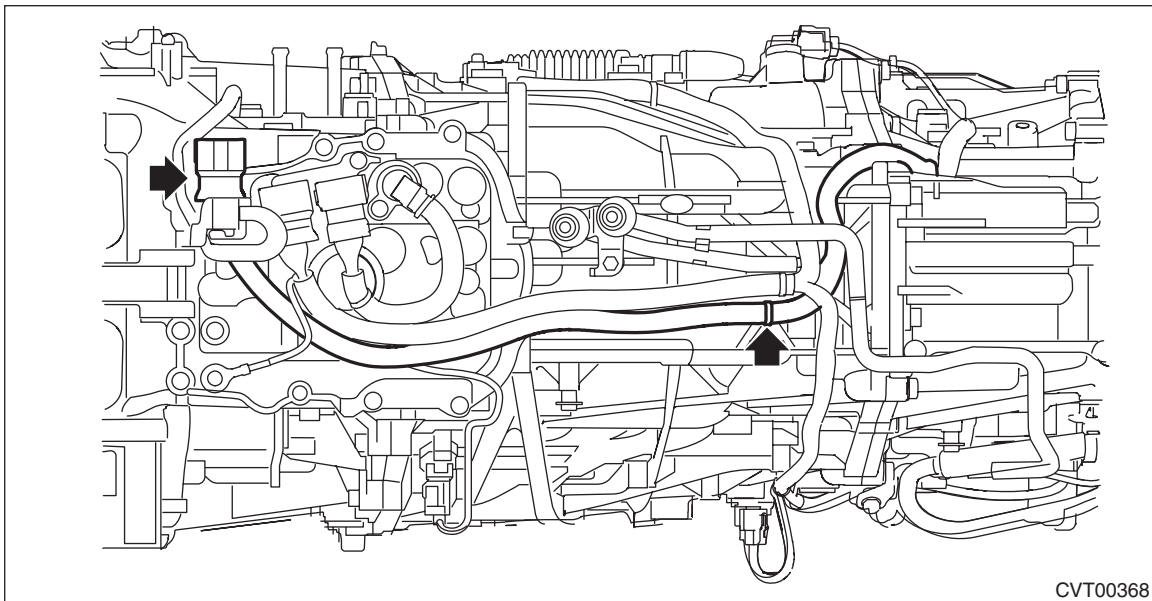
8) Install the oil spacer.



9) Install the drive motor harness clip, and then install the drive motor harness connector to the stay.

NOTE:

Install the drive motor harness through the lower side of air breather hose and the transmission harness.



10) Install the transmission control device. <Ref. to CVT(TH58A)-213, INSTALLATION, Transmission Control Device.>

11) Install the parking pawl. <Ref. to CVT(TH58A)-208, INSTALLATION, Parking Pawl.>

12) Install the transfer drive gear assembly. <Ref. to CVT(TH58A)-204, INSTALLATION, Transfer Drive Gear.>

13) Install the transfer driven gear assembly. <Ref. to CVT(TH58A)-201, INSTALLATION, Transfer Driven Gear.>

14) Install the transfer clutch assembly. <Ref. to CVT(TH58A)-188, INSTALLATION, Transfer Clutch.>

15) Install the extension case. <Ref. to CVT(TH58A)-183, INSTALLATION, Extension Case.>

16) Install the secondary pressure sensor harness connector, and then install the harness clip. <Ref. to CVT(TH58A)-151, INSTALLATION, Transmission Harness.>

17) Install the sensor cover. <Ref. to CVT(TH58A)-151, INSTALLATION, Transmission Harness.>

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

Drive Motor Assembly

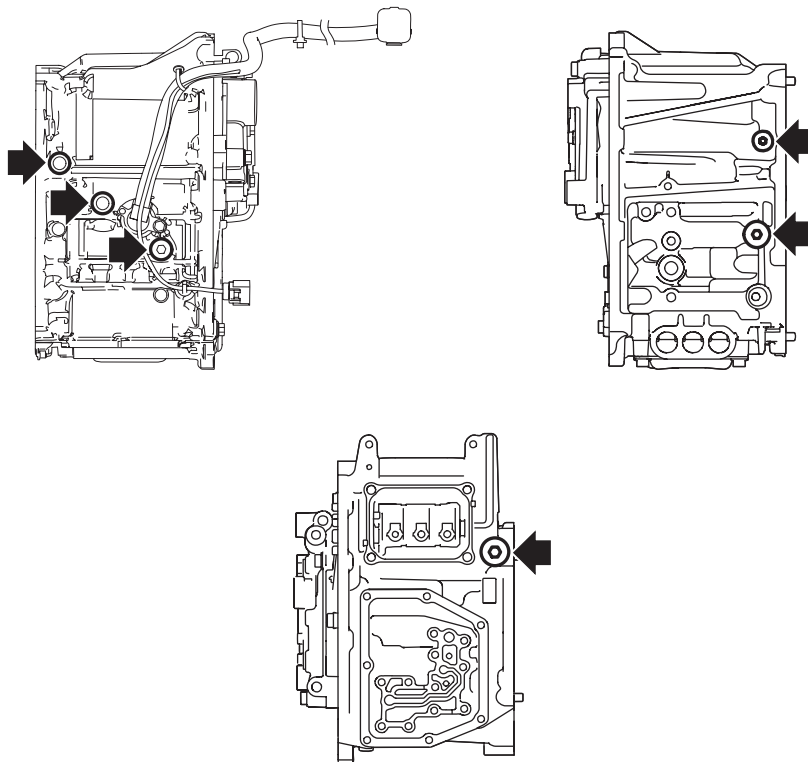
CONTINUOUSLY VARIABLE TRANSMISSION

C: DISASSEMBLY

CAUTION:

For disassembly, follow the instructions in this manual. Do not disassemble other than the specified parts.

- 1) Remove the electric oil pump. <Ref. to CVT(TH58A)-134, REMOVAL, Electric Fluid Pump.>
- 2) Remove the output clutch control valve body. <Ref. to CVT(TH58A)-121, OUTPUT CLUTCH CONTROL VALVE BODY, REMOVAL, Control Valve Body.>
- 3) Remove the power connect cover, if mounted.
- 4) Remove the secondary pressure sensor. <Ref. to CVT(TH58A)-110, REMOVAL, Secondary Pressure Sensor.>
- 5) Remove all plugs.



CVT00393

D: ASSEMBLY

1) Install all plugs.

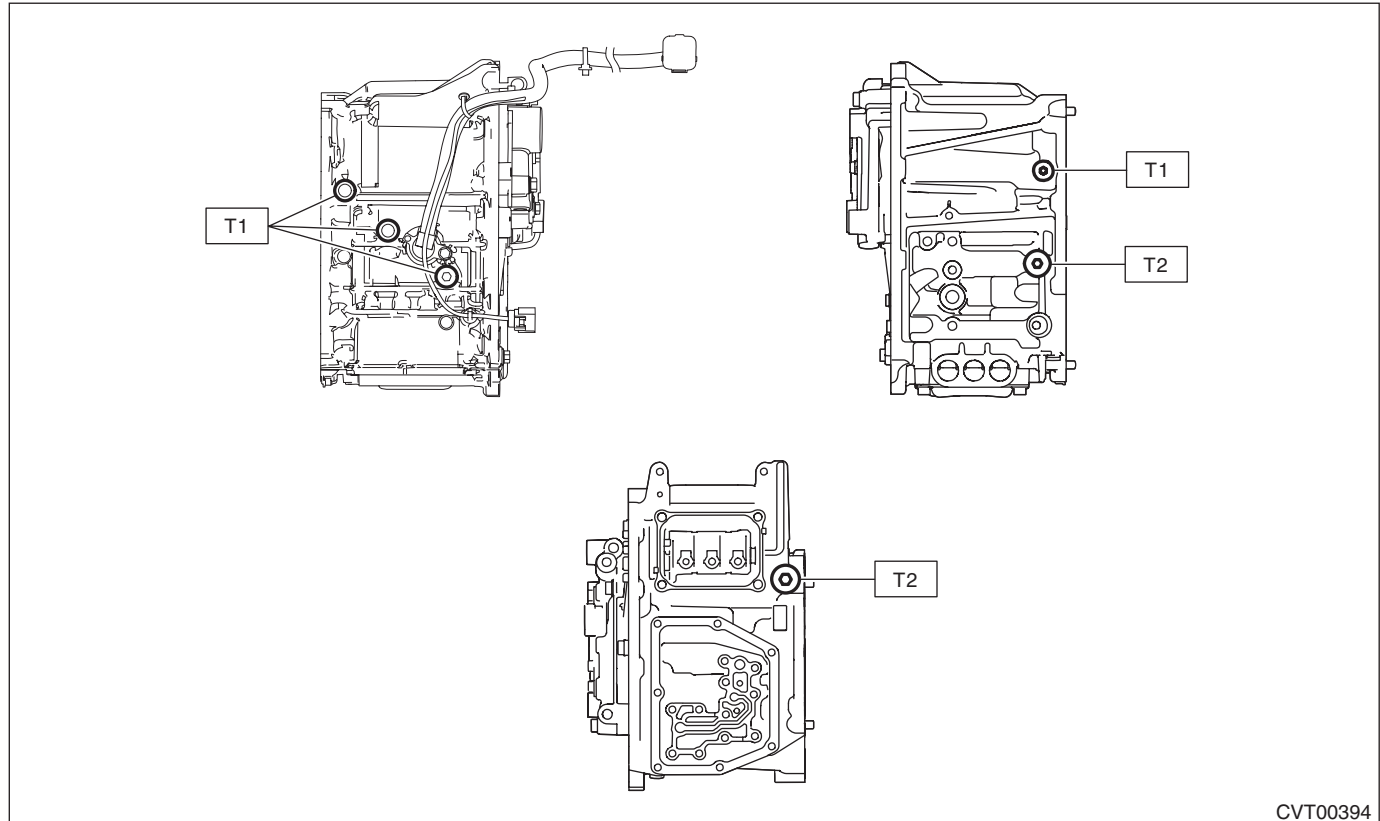
NOTE:

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

Tightening torque:

T1: 25 N·m (2.5 kgf-m, 18.4 ft-lb)

T2: 50 N·m (5.1 kgf-m, 36.9 ft-lb)



CVT00394

2) Install the secondary pressure sensor. <Ref. to CVT(TH58A)-111, INSTALLATION, Secondary Pressure Sensor.>

3) Temporarily attach the power connect cover.

4) Install the output clutch control valve body. <Ref. to CVT(TH58A)-121, OUTPUT CLUTCH CONTROL VALVE BODY, REMOVAL, Control Valve Body.>

5) Install the electric oil pump. <Ref. to CVT(TH58A)-138, INSTALLATION, Electric Fluid Pump.>

E: INSPECTION

- Check there is no damage or cracks on the drive motor assembly case and other parts.
- Check there is no leak of CVTF from the joint between drive motor assembly case and transmission case.

F: ADJUSTMENT

NOTE:

When replacing the drive motor assembly with a new part, perform the following check and adjustment for the selection.

- Select the transfer driven gear shim. <Ref. to CVT(TH58A)-198, ADJUSTMENT, Transfer Clutch.>
- Select the transfer drive gear shim. <Ref. to CVT(TH58A)-207, ADJUSTMENT, Transfer Drive Gear.>
- Select the reduction driven gear shim. <Ref. to CVT(TH58A)-243, ADJUSTMENT, Output Clutch Assembly.>