

51. Converter 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)-210, REMOVAL, Transmission Control Device.>
- 17) Remove the output clutch assembly. <Ref. to CVT(TH58A)-228, Output Clutch Assembly.>
- 18) Remove the transmission case. <Ref. to CVT(TH58A)-245, REMOVAL, Transmission Case.>
- 19) Remove the reduction drive gear. <Ref. to CVT(TH58A)-258, REMOVAL, Reduction Drive Gear.>
- 20) Remove the primary pulley, secondary pulley and variator chain. <Ref. to CVT(TH58A)-263, REMOVAL, Primary Pulley and Secondary Pulley.>
- 21) Remove the reverse brake assembly. <Ref. to CVT(TH58A)-287, REMOVAL, Reverse Brake Assembly.>
- 22) Remove the forward clutch assembly. <Ref. to CVT(TH58A)-303, REMOVAL, Forward Clutch Assembly.>
- 23) Remove the drive pinion shaft assembly. <Ref. to CVT(TH58A)-323, REMOVAL, Drive Pinion Shaft Assembly.>
- 24) Remove the front differential assembly. <Ref. to CVT(TH58A)-352, REMOVAL, Front Differential Assembly.>
- 25) Remove the oil pump chain cover. <Ref. to CVT(TH58A)-372, REMOVAL, Oil Pump Chain.>
- 26) Remove the oil pump. <Ref. to CVT(TH58A)-383, REMOVAL, Oil Pump.>

B: INSTALLATION

- 1) Install the oil pump. <Ref. to CVT(TH58A)-384, INSTALLATION, Oil Pump.>
- 2) Install the oil pump chain cover. <Ref. to CVT(TH58A)-376, INSTALLATION, Oil Pump Chain.>
- 3) Install the front differential assembly. <Ref. to CVT(TH58A)-354, INSTALLATION, Front Differential Assembly.>
- 4) Install the drive pinion shaft assembly. <Ref. to CVT(TH58A)-324, INSTALLATION, Drive Pinion Shaft Assembly.>
- 5) Select the oil pump shaft. <Ref. to CVT(TH58A)-387, ADJUSTMENT, Oil Pump.>
- 6) Install the forward clutch assembly. <Ref. to CVT(TH58A)-306, INSTALLATION, Forward Clutch Assembly.>
- 7) Install the reverse brake assembly. <Ref. to CVT(TH58A)-290, INSTALLATION, Reverse Brake Assembly.>

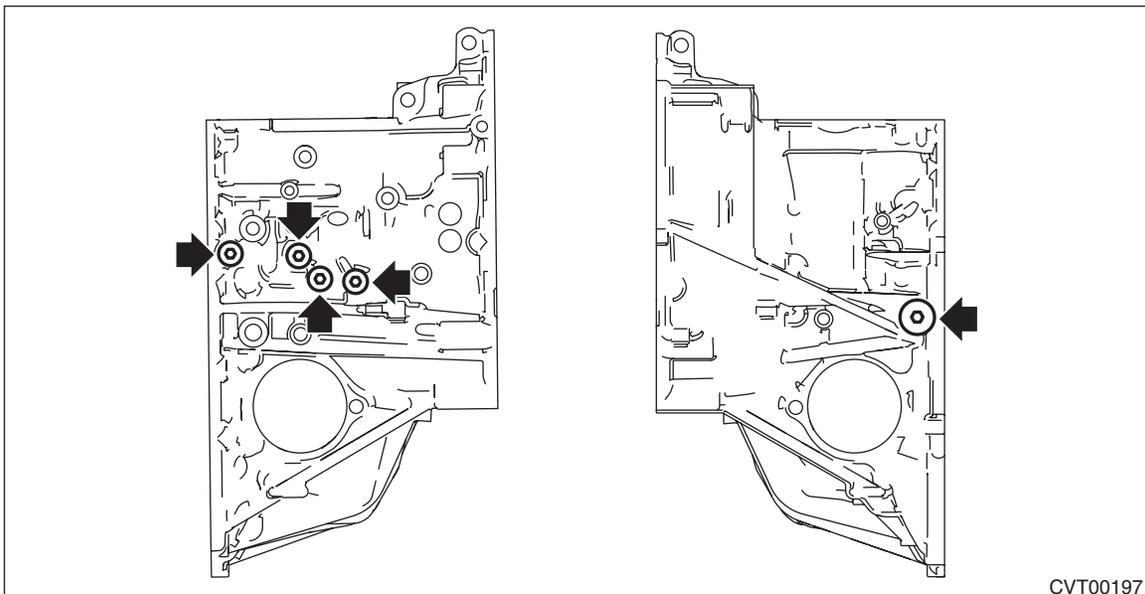
Converter Case

CONTINUOUSLY VARIABLE TRANSMISSION

- 8) Install the primary pulley, secondary pulley and variator chain. <Ref. to CVT(TH58A)-271, INSTALLATION, Primary Pulley and Secondary Pulley.>
- 9) Install the transmission case. <Ref. to CVT(TH58A)-248, INSTALLATION, Transmission Case.>
- 10) Install the output clutch. <Ref. to CVT(TH58A)-229, INSTALLATION, Output Clutch Assembly.>
- 11) Install the drive motor assembly. <Ref. to CVT(TH58A)-221, INSTALLATION, Drive Motor Assembly.>
- 12) Install the transmission control device. <Ref. to CVT(TH58A)-213, INSTALLATION, Transmission Control Device.>
- 13) Install the oil strainer and oil pan. <Ref. to CVT(TH58A)-114, INSTALLATION, Oil Pan and Strainer.>
- 14) Install the parking pawl. <Ref. to CVT(TH58A)-208, INSTALLATION, Parking Pawl.>
- 15) Install the transfer drive gear assembly. <Ref. to CVT(TH58A)-204, INSTALLATION, Transfer Drive Gear.>
- 16) Install the transfer driven gear assembly. <Ref. to CVT(TH58A)-201, INSTALLATION, Transfer Driven Gear.>
- 17) Install the transfer clutch assembly. <Ref. to CVT(TH58A)-188, INSTALLATION, Transfer Clutch.>
- 18) Install the extension case. <Ref. to CVT(TH58A)-183, INSTALLATION, Extension Case.>
- 19) Install the inhibitor switch. <Ref. to CVT(TH58A)-102, INSTALLATION, Inhibitor Switch.>
- 20) Install the secondary speed sensor. <Ref. to CVT(TH58A)-106, INSTALLATION, Secondary Speed Sensor.>
- 21) Install the front wheel speed sensor. <Ref. to CVT(TH58A)-108, INSTALLATION, Front Wheel Speed Sensor.>
- 22) Install the turbine speed sensor. <Ref. to CVT(TH58A)-104, INSTALLATION, Turbine Speed Sensor.>
- 23) Install the control valve body. <Ref. to CVT(TH58A)-123, INSTALLATION, Control Valve Body.>
- 24) Install the transmission harness. <Ref. to CVT(TH58A)-151, INSTALLATION, Transmission Harness.>
- 25) Install the air breather hose. <Ref. to CVT(TH58A)-173, INSTALLATION, Air Breather Hose.>
- 26) Install the transmission assembly to the vehicle. <Ref. to CVT(TH58A)-77, INSTALLATION, Automatic Transmission Assembly.>

C: DISASSEMBLY

- 1) Remove the pitching stopper bracket and transmission radio ground cord, if mounted.
- 2) Remove the filler plug, oil drain plug and overflow drain plug. <Ref. to CVT(TH58A)-47, REPLACEMENT, Differential Gear Oil.>
- 3) Remove all plugs.



- 4) Remove the rubber cap.

D: ASSEMBLY

- 1) Install the rubber cap.
- 2) Install the oil drain plug.

NOTE:

Use a new gasket.

Tightening torque:

70 N·m (7.1 kgf-m, 51.6 ft-lb)

- 3) Install the overflow drain plug.

NOTE:

Overflow plug of differential gear oil is temporarily attached.

- 4) Install all plugs.

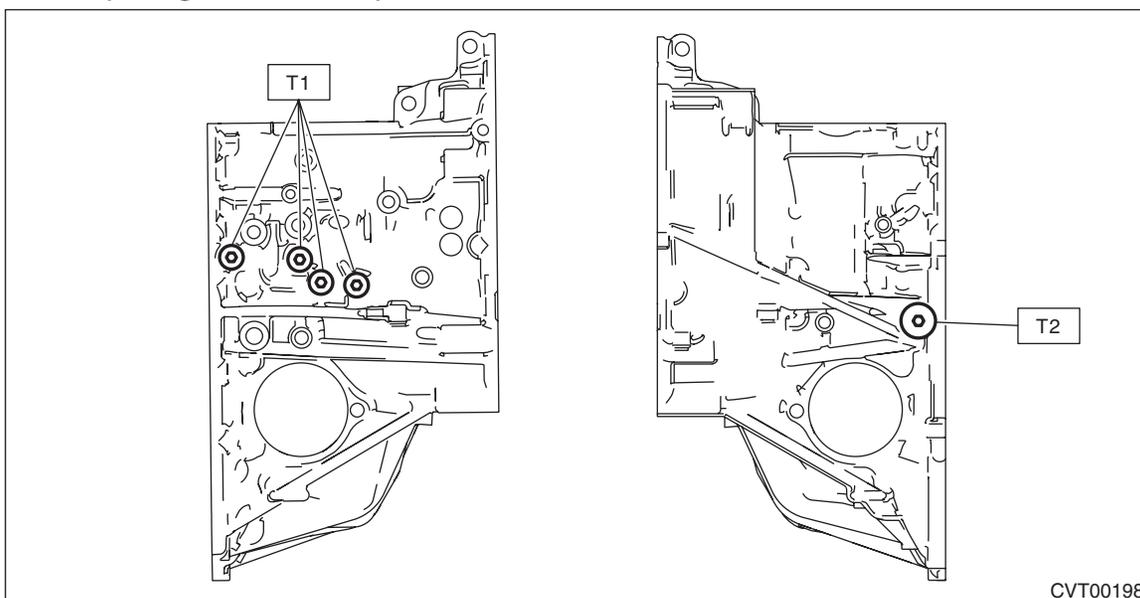
NOTE:

Use new O-rings.

Tightening torque:

T1: 25 N·m (2.5 kgf-m, 18.4 ft-lb)

T2: 22.5 N·m (2.3 kgf-m, 16.6 ft-lb)



- 5) Install the pitching stopper bracket and transmission radio ground cord.

Tightening torque:

41 N·m (4.2 kgf-m, 30.2 ft-lb)

E: INSPECTION

- Check for leakage of CVTF from the connection between converter case and transmission case.
- Check there is no damage or cracks on the converter case.