

## 50. Converter Case

### A: REMOVAL

- 1) Remove the transmission assembly from the vehicle. <Ref. to CVT(TR690)-56, REMOVAL, Automatic Transmission Assembly.>
- 2) Remove the air breather hose. <Ref. to CVT(TR690)-136, REMOVAL, Air Breather Hose.>
- 3) Remove the oil pan and control valve body. <Ref. to CVT(TR690)-112, REMOVAL, Control Valve Body.>
- 4) Remove the transmission harness. <Ref. to CVT(TR690)-123, REMOVAL, Transmission Harness.>
- 5) Remove the secondary pressure sensor. <Ref. to CVT(TR690)-110, REMOVAL, Secondary Pressure Sensor.>
- 6) Remove the primary speed sensor. <Ref. to CVT(TR690)-102, REMOVAL, Primary Speed Sensor.>
- 7) Remove the extension case. <Ref. to CVT(TR690)-142, REMOVAL, Extension Case.>
- 8) Remove the rear drive shaft. <Ref. to CVT(TR690)-146, REMOVAL, Rear Drive Shaft.>
- 9) Remove the transfer clutch assembly. <Ref. to CVT(TR690)-151, REMOVAL, Transfer Clutch.>
- 10) Remove the center differential carrier. <Ref. to CVT(TR690)-154, REMOVAL, Center Differential Carrier.>
- 11) Remove the transfer reduction driven gear assembly. <Ref. to CVT(TR690)-158, REMOVAL, Transfer Reduction Driven Gear.>
- 12) Remove the intermediate case. <Ref. to CVT(TR690)-165, REMOVAL, Intermediate Case.>
- 13) Remove the forward clutch assembly. <Ref. to CVT(TR690)-181, REMOVAL, Forward Clutch Assembly.>
- 14) Remove the transmission case. <Ref. to CVT(TR690)-212, REMOVAL, Transmission Case.>
- 15) Remove the primary pulley, secondary pulley and variator chain. <Ref. to CVT(TR690)-228, REMOVAL, Primary Pulley and Secondary Pulley.>
- 16) Remove the drive pinion shaft assembly. <Ref. to CVT(TR690)-244, REMOVAL, Drive Pinion Shaft Assembly.>
- 17) Remove the front differential assembly. <Ref. to CVT(TR690)-265, REMOVAL, Front Differential Assembly.>
- 18) Remove the converter case cover. <Ref. to CVT(TR690)-292, REMOVAL, Converter Case Cover.>
- 19) Remove the front reduction drive gear and front reduction driven gear. <Ref. to CVT(TR690)-302, REMOVAL, Front Reduction Drive Gear.>

### B: INSTALLATION

- 1) Install the front reduction drive gear and front reduction driven gear. <Ref. to CVT(TR690)-303, INSTALLATION, Front Reduction Drive Gear.>
- 2) Install the converter case cover. <Ref. to CVT(TR690)-295, INSTALLATION, Converter Case Cover.>
- 3) Install the front differential assembly. <Ref. to CVT(TR690)-266, INSTALLATION, Front Differential Assembly.>
- 4) Install the drive pinion shaft assembly. <Ref. to CVT(TR690)-246, INSTALLATION, Drive Pinion Shaft Assembly.>
- 5) Install the primary pulley, secondary pulley and steel chain. <Ref. to CVT(TR690)-232, INSTALLATION, Primary Pulley and Secondary Pulley.>
- 6) Install the transmission case. <Ref. to CVT(TR690)-212, REMOVAL, Transmission Case.>
- 7) Install the forward clutch assembly. <Ref. to CVT(TR690)-182, INSTALLATION, Forward Clutch Assembly.>
- 8) Install the intermediate case. <Ref. to CVT(TR690)-166, INSTALLATION, Intermediate Case.>
- 9) Install the transfer reduction driven gear. <Ref. to CVT(TR690)-158, INSTALLATION, Transfer Reduction Driven Gear.>
- 10) Install the center differential carrier. <Ref. to CVT(TR690)-155, INSTALLATION, Center Differential Carrier.>
- 11) Install the transfer clutch assembly. <Ref. to CVT(TR690)-151, INSTALLATION, Transfer Clutch.>
- 12) Install the rear drive shaft. <Ref. to CVT(TR690)-146, INSTALLATION, Rear Drive Shaft.>
- 13) Install the extension case. <Ref. to CVT(TR690)-143, INSTALLATION, Extension Case.>
- 14) Install the primary speed sensor. <Ref. to CVT(TR690)-103, INSTALLATION, Primary Speed Sensor.>
- 15) Install the secondary pressure sensor. <Ref. to CVT(TR690)-110, INSTALLATION, Secondary Pressure Sensor.>

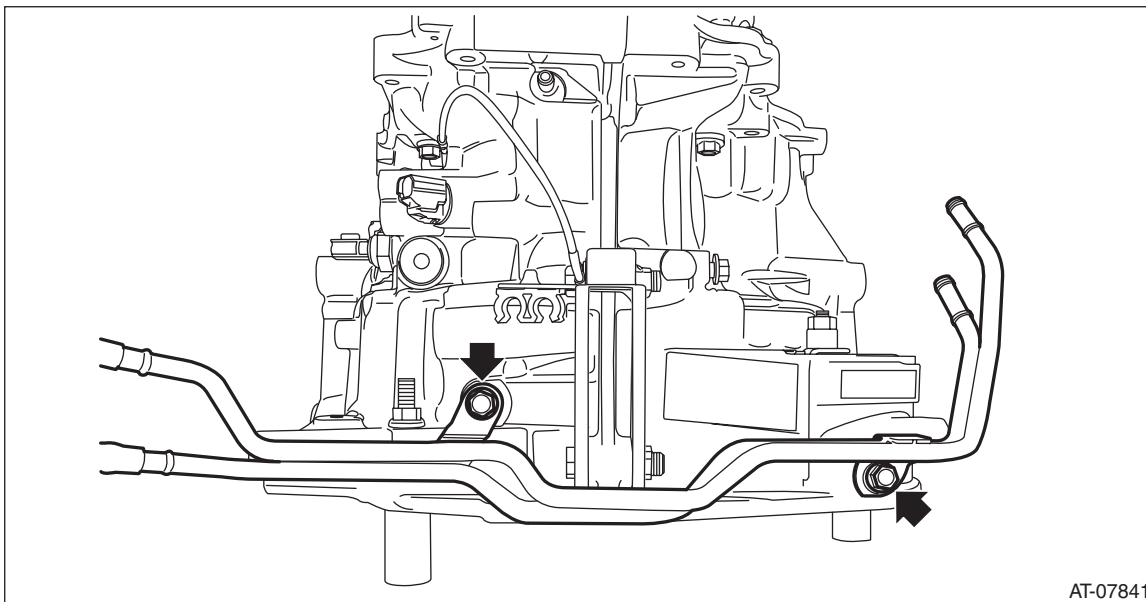
## Converter Case

CONTINUOUSLY VARIABLE TRANSMISSION

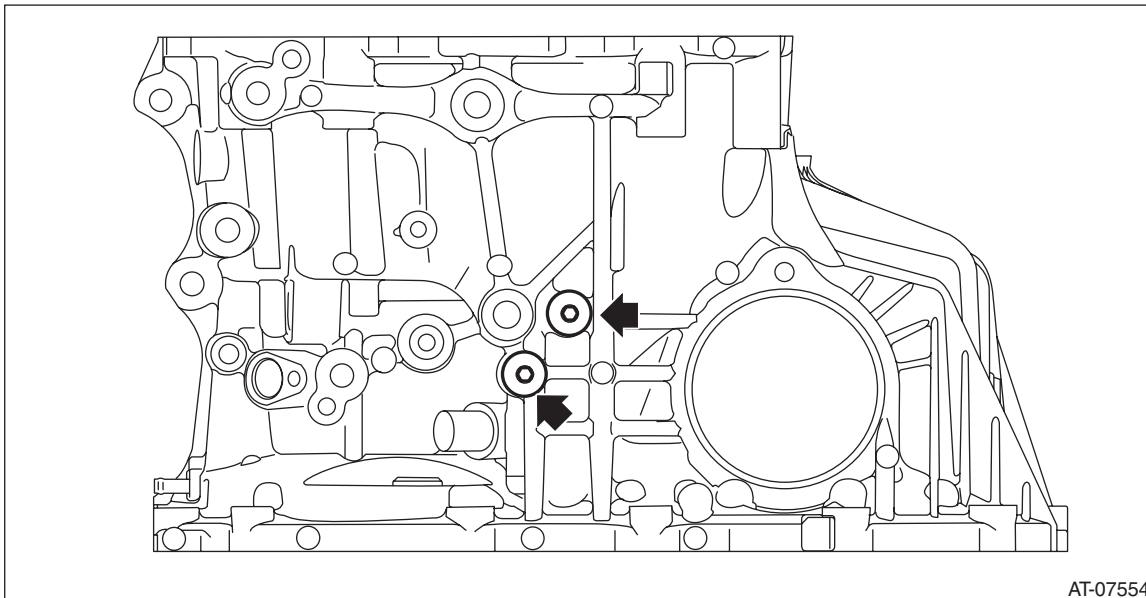
- 16) Install the transmission harness. <Ref. to CVT(TR690)-125, INSTALLATION, Transmission Harness.>
- 17) Install the control valve body and oil pan. <Ref. to CVT(TR690)-116, INSTALLATION, Control Valve Body.>
- 18) Install the air breather hose. <Ref. to CVT(TR690)-136, INSTALLATION, Air Breather Hose.>
- 19) Install the transmission assembly to the vehicle. <Ref. to CVT(TR690)-69, INSTALLATION, Automatic Transmission Assembly.>

### C: DISASSEMBLY

- 1) Remove the CVTF cooler pipe COMPL.



- 2) Remove the pitching stopper bracket and transmission radio ground cord, if mounted.
- 3) Remove the oil drain plug and overflow drain plug. <Ref. to CVT(TR690)-42, REPLACEMENT, Differential Gear Oil.>
- 4) Remove all plugs.



## Converter Case

### CONTINUOUSLY VARIABLE TRANSMISSION

#### D: ASSEMBLY

1) Install the oil drain plug and overflow drain plug.

NOTE:

Overflow plug of differential gear oil is temporarily attached.

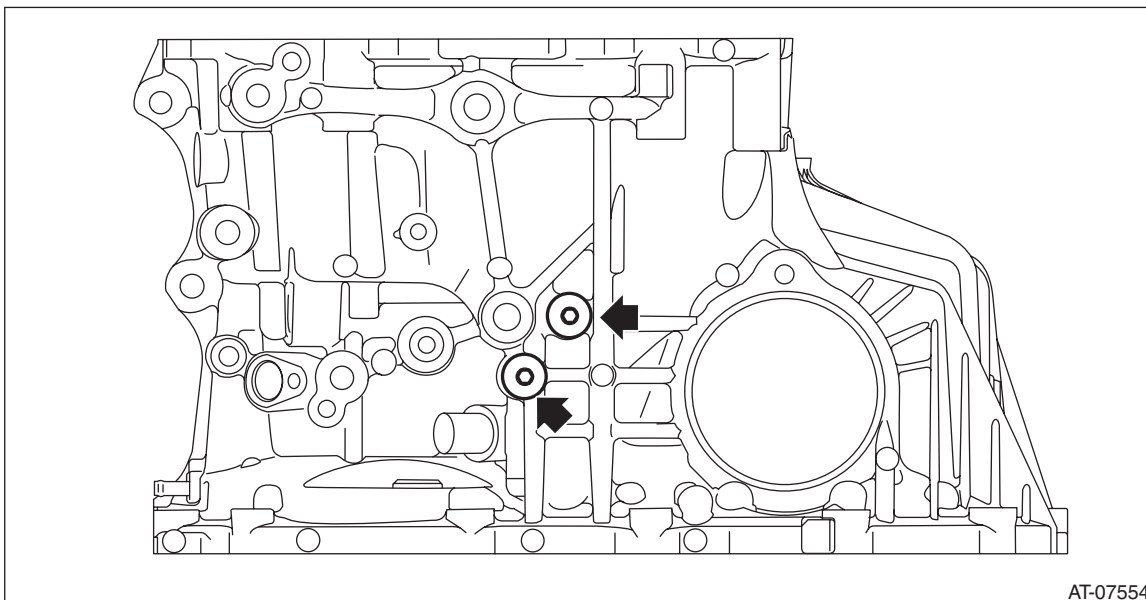
2) Install all plugs.

NOTE:

Use new O-rings.

**Tightening torque:**

**25 N·m (2.5 kgf-m, 18.4 ft-lb)**



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

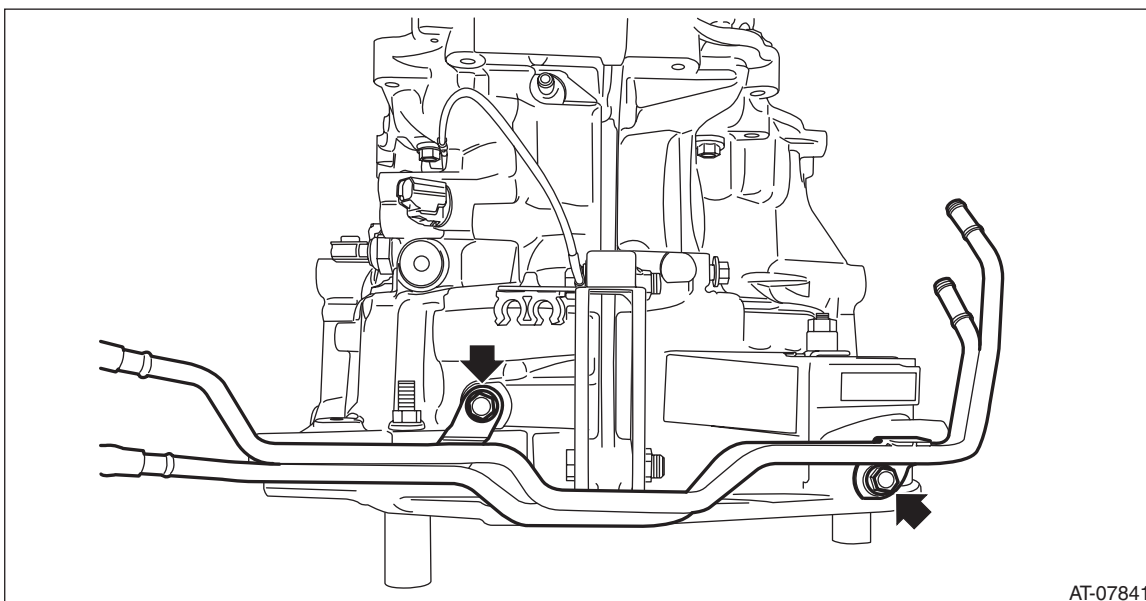
**Tightening torque:**

**41 N·m (4.2 kgf-m, 30.2 ft-lb)**

4) Install the CVTF cooler pipe COMPL.

**Tightening torque:**

**16 N·m (1.6 kgf-m, 11.8 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.

## **F: ADJUSTMENT**

When replacing the converter case cover, select the following shims.

- Select the shim for front reduction drive gear. <Ref. to CVT(TR690)-308, ADJUSTMENT, Front Reduction Drive Gear.>
- Select the shim for front reduction driven gear. <Ref. to CVT(TR690)-316, ADJUSTMENT, Front Reduction Driven Gear.>
- Select shims for primary pulley. <Ref. to CVT(TR690)-238, ADJUSTMENT, Primary Pulley and Secondary Pulley.>