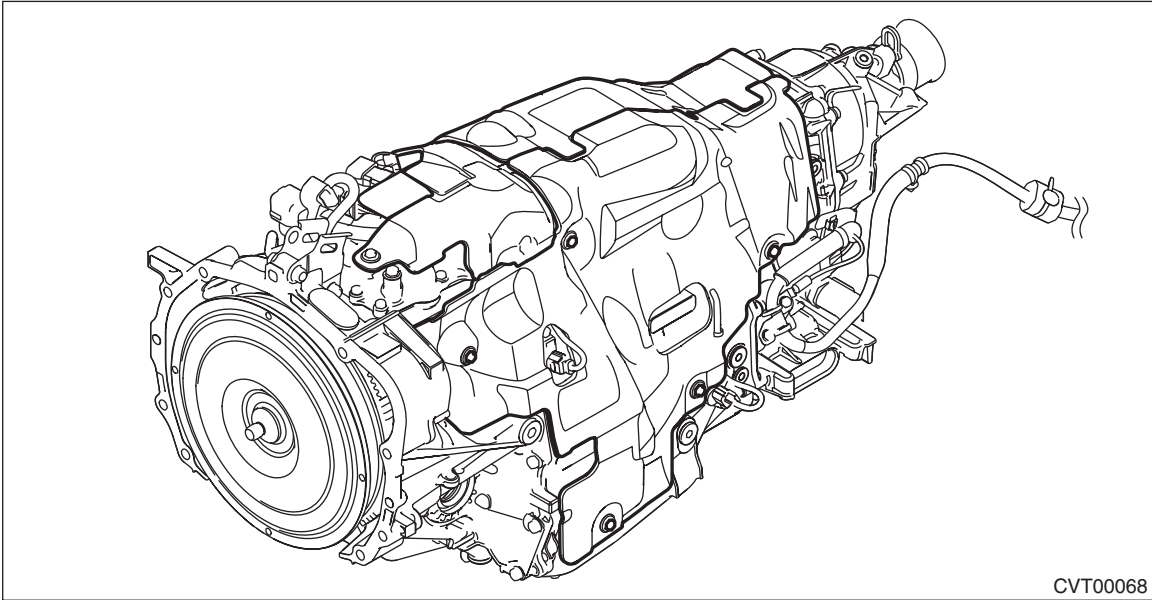


## 23. Transmission Harness

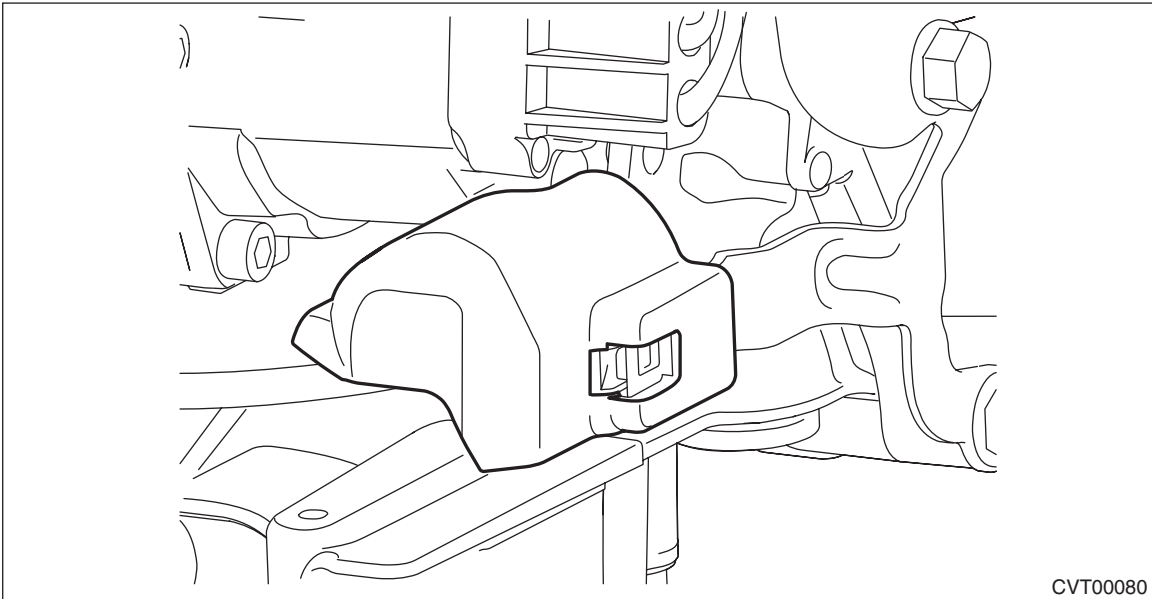
### A: REMOVAL

#### 1. INHIBITOR HARNESS

- 1) Remove the transmission from the vehicle. <Ref. to CVT(TH58A)-63, REMOVAL, Automatic Transmission Assembly.>
- 2) Remove the transmission case cover.



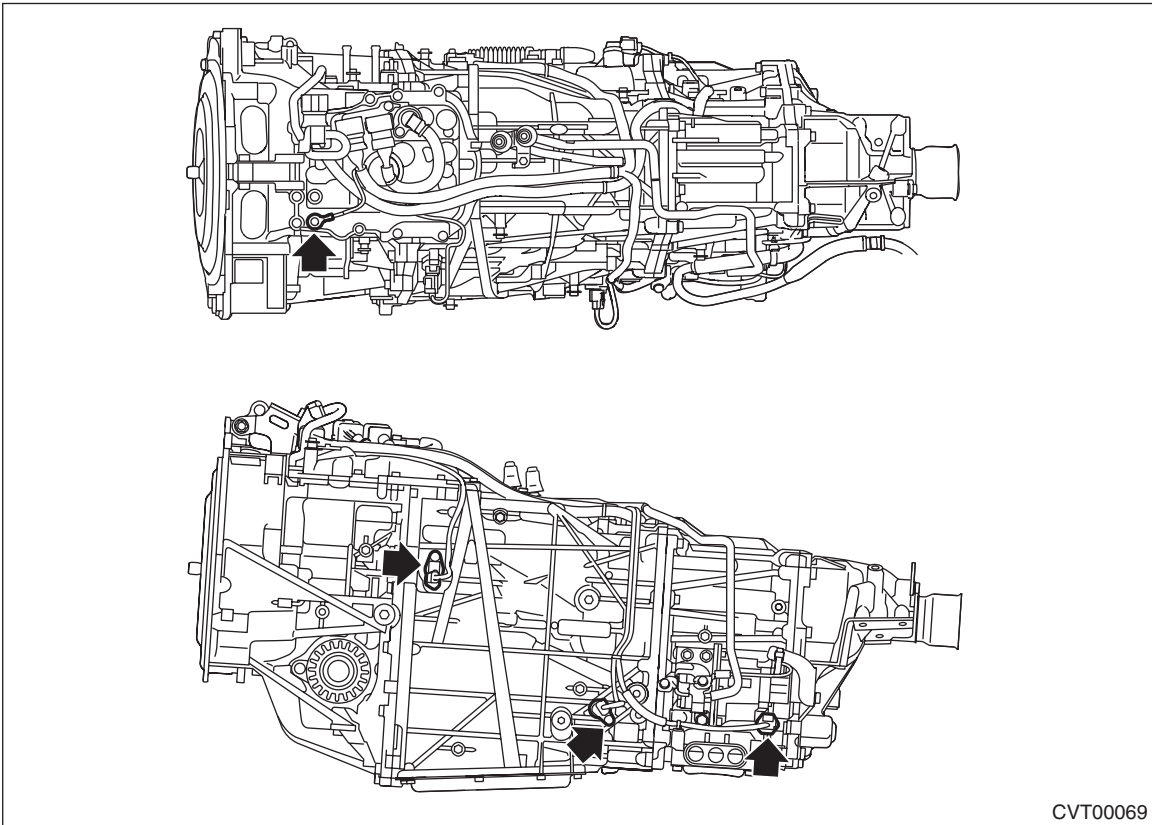
- 3) Remove the sensor cover.



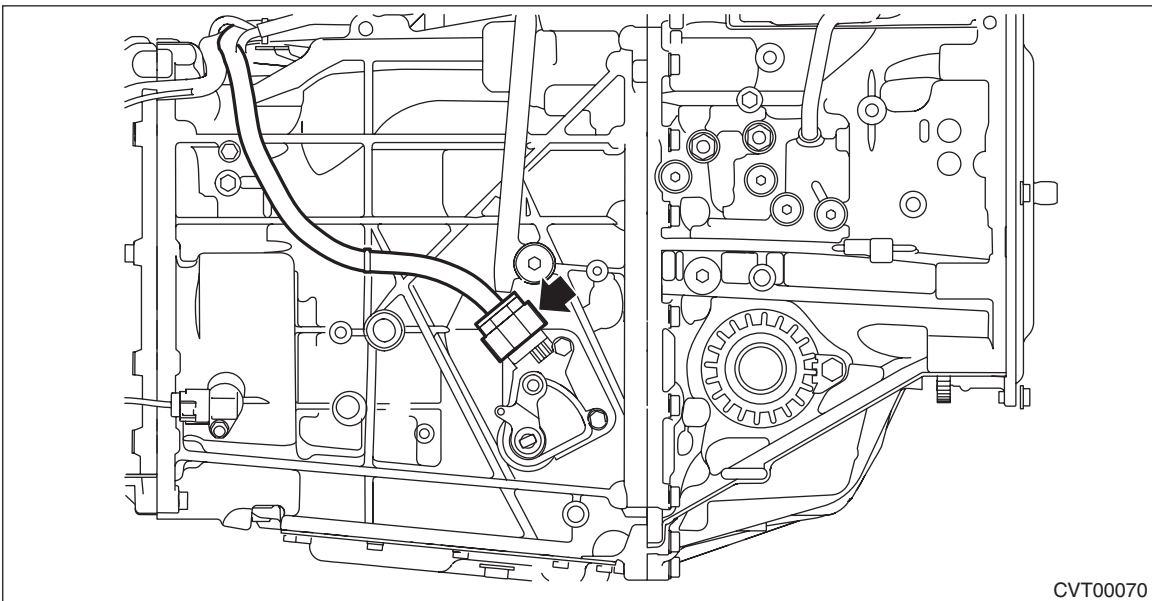
## Transmission Harness

### CONTINUOUSLY VARIABLE TRANSMISSION

4) Remove the harness connector from the ground terminal, turbine speed sensor, secondary speed sensor and secondary pressure sensor.



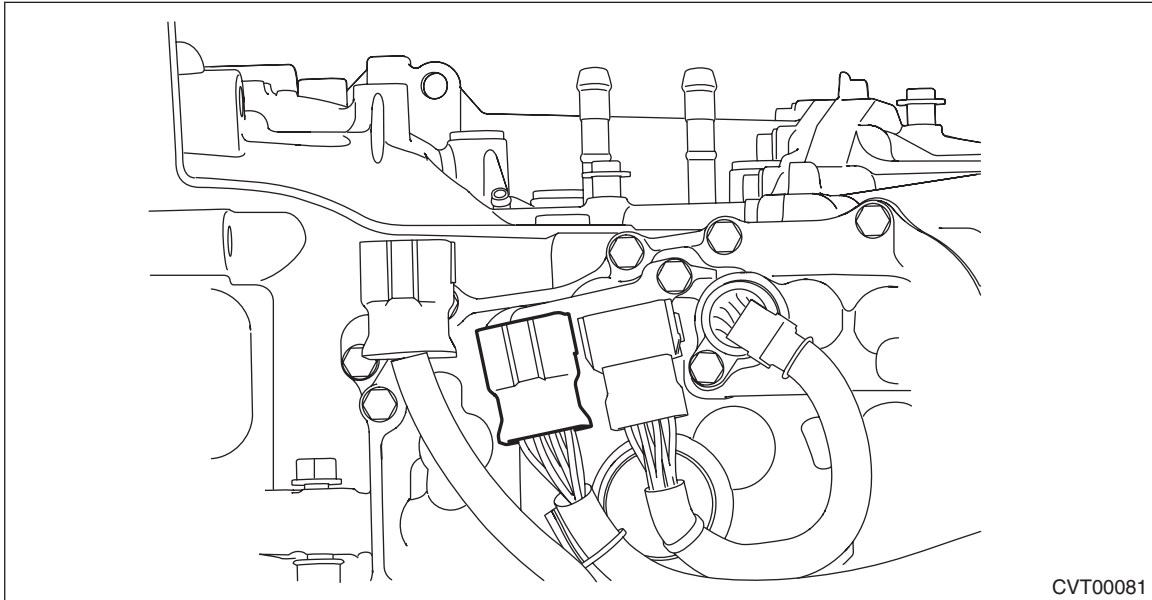
5) Remove the harness connector from inhibitor switch.



# Transmission Harness

CONTINUOUSLY VARIABLE TRANSMISSION

6) Remove the inhibitor harness connector from the transmission harness stay.



7) Remove the harness clip from the transmission, and remove the inhibitor harness.

## 2. TRANSMISSION HARNESS

### CAUTION:

- Directly after the vehicle has been running or the engine has been idling for a long time, the CVTF is hot. Be careful not to burn yourself.
- Be careful not to spill CVTF on the exhaust pipe to prevent it from emitting smoke or causing a fire. If the CVTF adheres, wipe it off completely.
- Always clean the engine compartment before removal.

1) Disconnect the ground cable from battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

### NOTE:

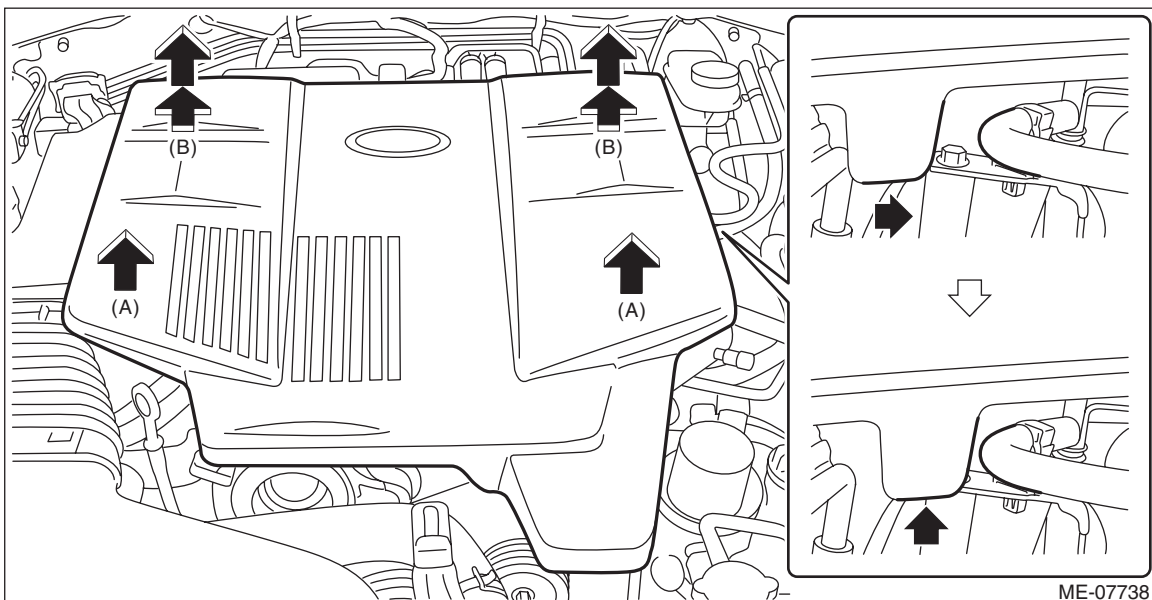
For the 12 volt engine restart battery, disconnect the ground terminal from 12V engine restart battery sensor.

2) Remove the collector cover.

- (1) Carefully pull up the front of collector cover at two positions (A).
- (2) Carefully pull up the rear of collector cover at two positions (B) while moving it backward.

### NOTE:

Be careful not to contact the fuel delivery tube when moving the collector cover rearward.



CVT(TH58A)-145

## Transmission Harness

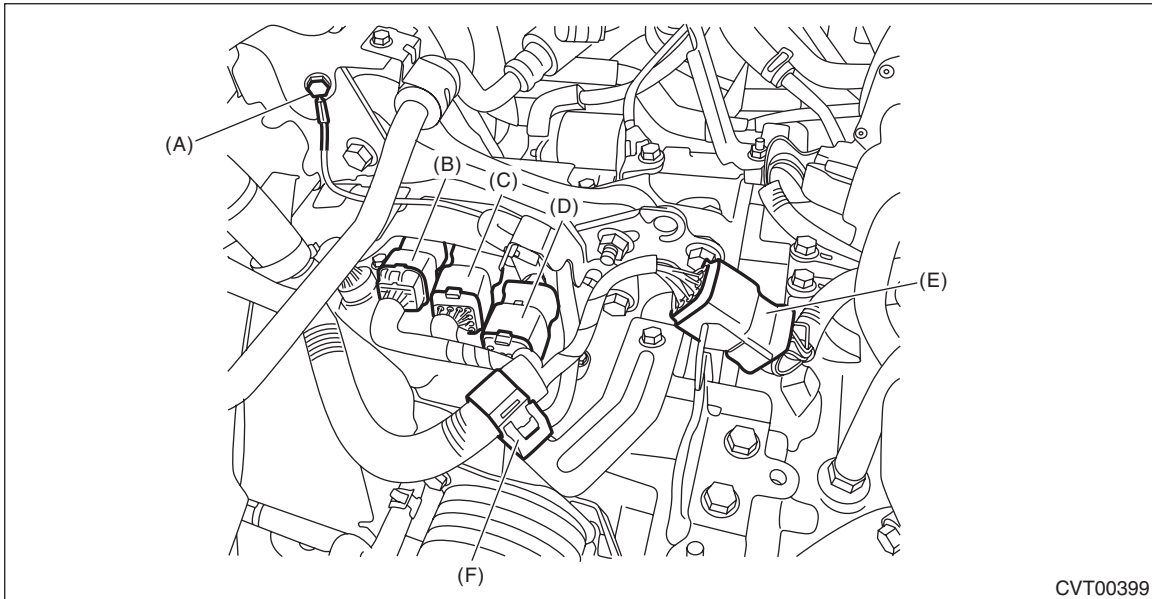
### CONTINUOUSLY VARIABLE TRANSMISSION

---

3) Remove the air cleaner case and bracket. <Ref. to IN(H4DO(HEV))-6, REMOVAL, Air Cleaner Case.>

4) Disconnect the following connectors and harness clips.

- Transmission radio ground terminal
- Transmission harness connectors
- Inhibitor harness connector
- Drive motor harness connector
- Engine harness connectors
- Harness clip



CVT00399

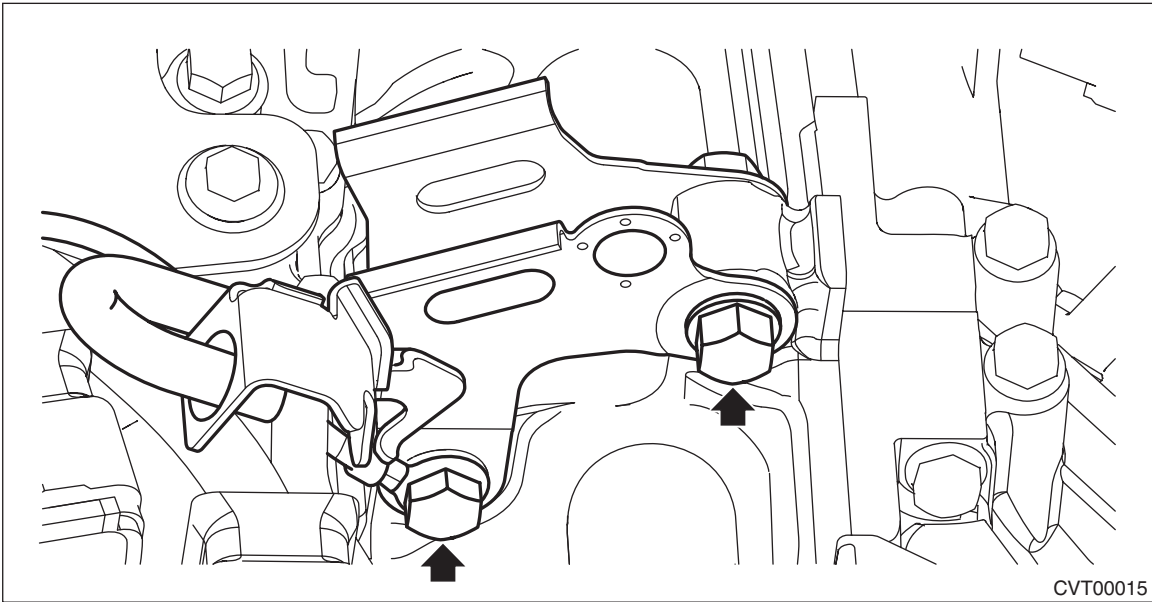
- (A) Transmission radio ground terminal
- (B) Transmission harness connectors
- (C) Inhibitor harness connector
- (D) Drive motor harness connector
- (E) Engine harness connectors
- (F) Harness clip

5) Remove the pitching stopper. <Ref. to CVT(TH58A)-87, PITCHING STOPPER, REMOVAL, Transmission Mounting System.>

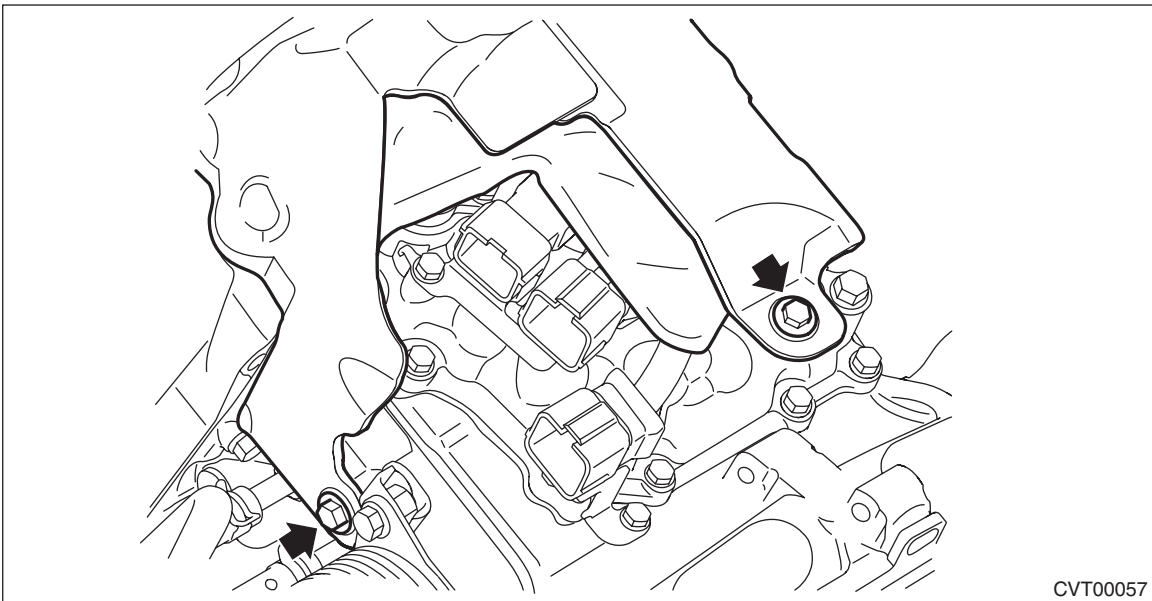
## Transmission Harness

CONTINUOUSLY VARIABLE TRANSMISSION

6) Remove the air breather hose from the pitching stopper bracket, and then remove the pitching stopper bracket and transmission radio ground cord.



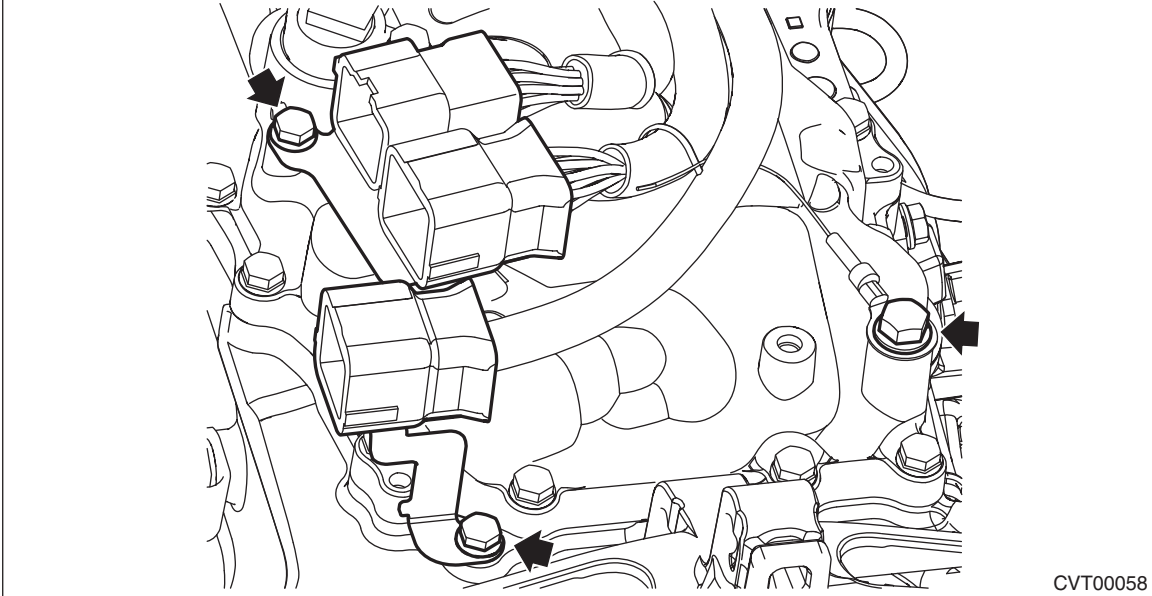
7) Remove the transmission case cover.



## Transmission Harness

### CONTINUOUSLY VARIABLE TRANSMISSION

- 8) Remove the transmission harness stay, drive motor harness stay and transmission ground terminal.

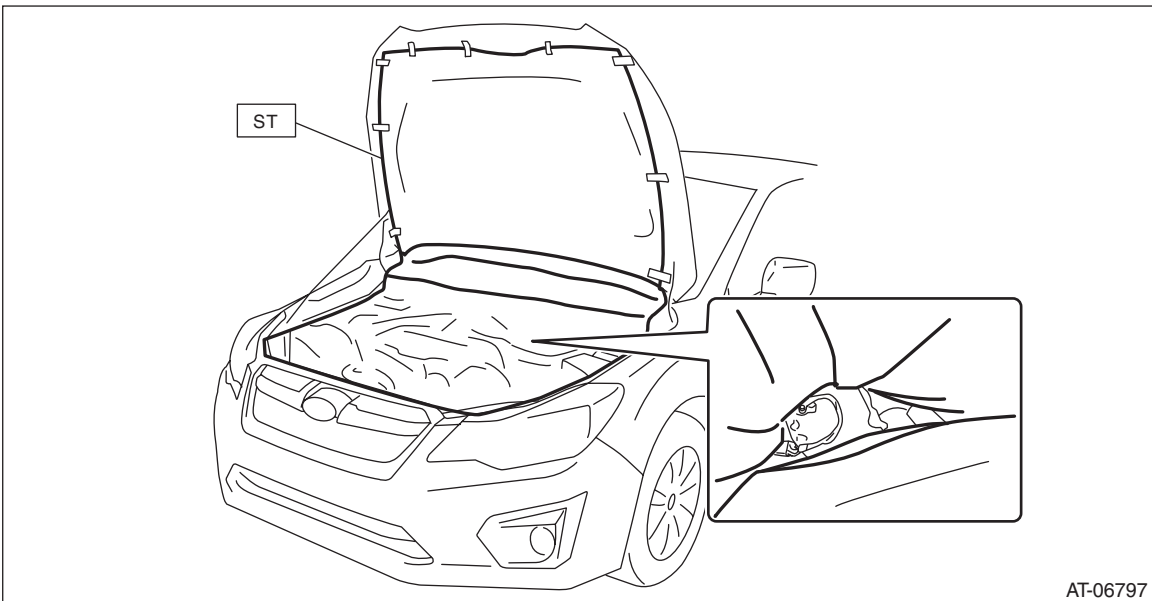


- 9) Remove the transmission harness connector from the harness stay.

- 10) Clean the transmission exterior.

- 11) Fix the ST with tape, and set the ST to the vehicle.

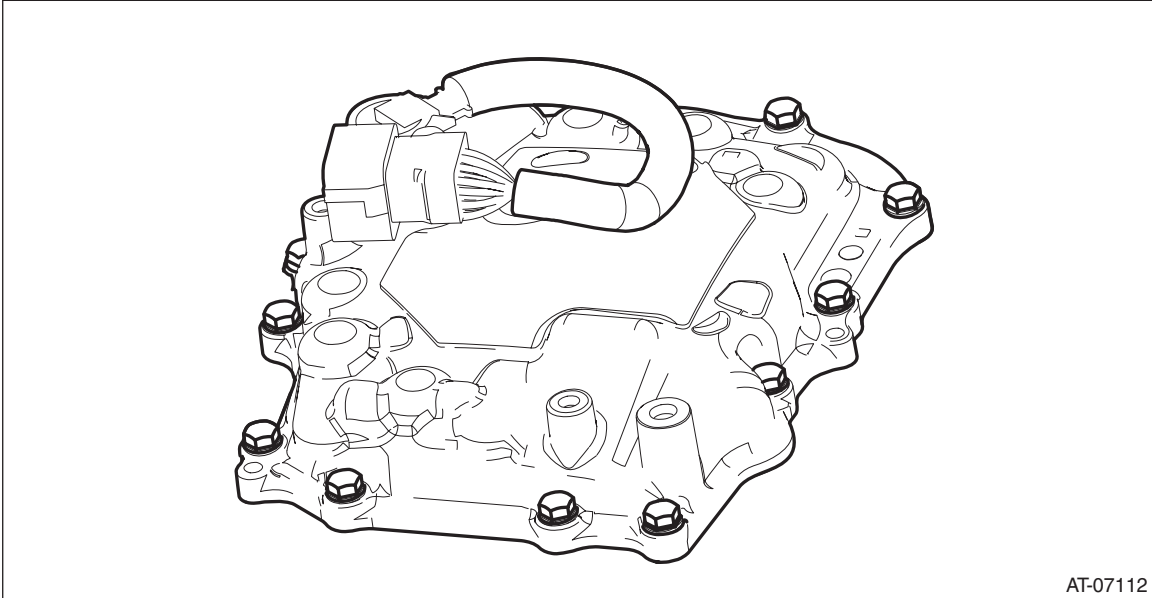
ST 18761AA010 SHEET SPECIAL TOOL



# Transmission Harness

CONTINUOUSLY VARIABLE TRANSMISSION

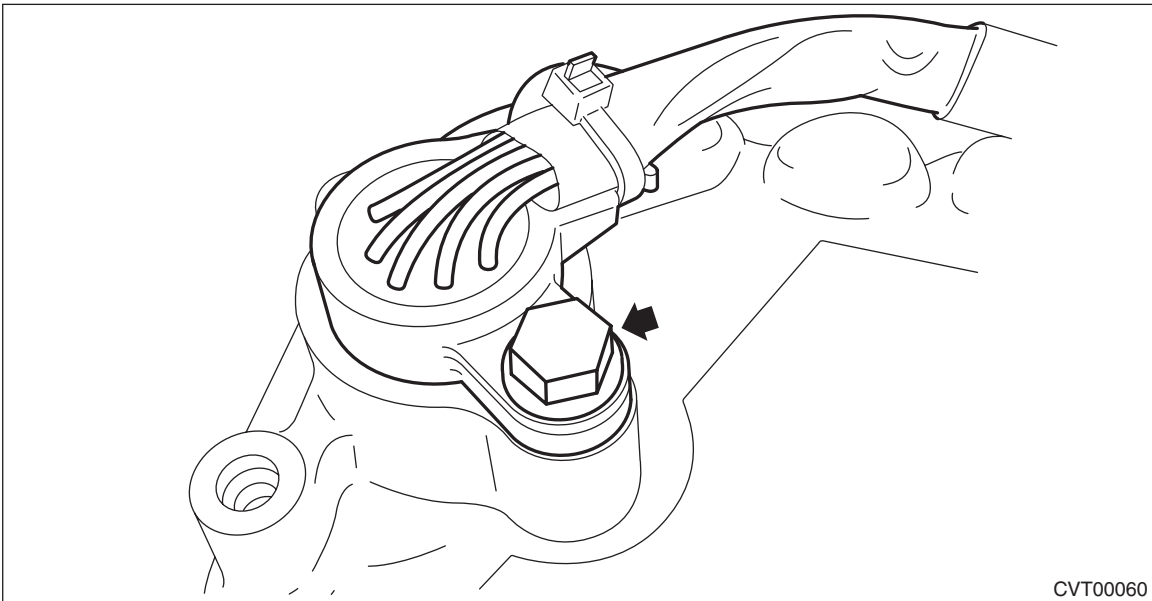
12) Remove the valve cover and gasket.



AT-07112

13) Disconnect the harness connector from the control valve body.

14) Remove the transmission harness from the valve cover.



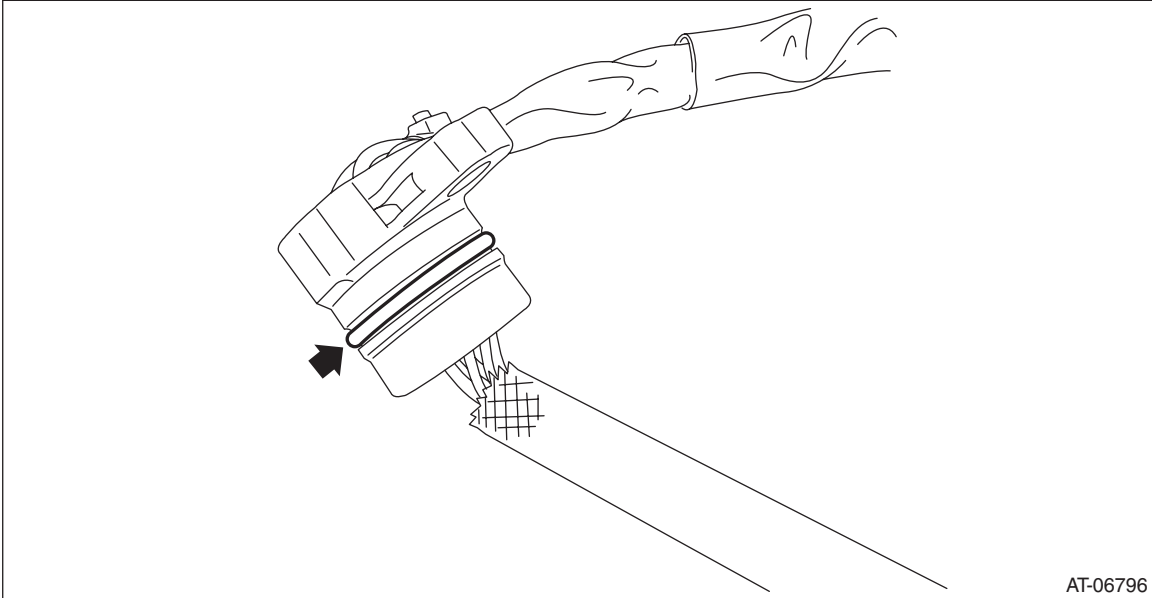
CVT00060

## Transmission Harness

### CONTINUOUSLY VARIABLE TRANSMISSION

---

15) Remove the O-ring from the transmission harness.





## B: INSTALLATION

### 1. INHIBITOR HARNESS

Install in the reverse order of removal.

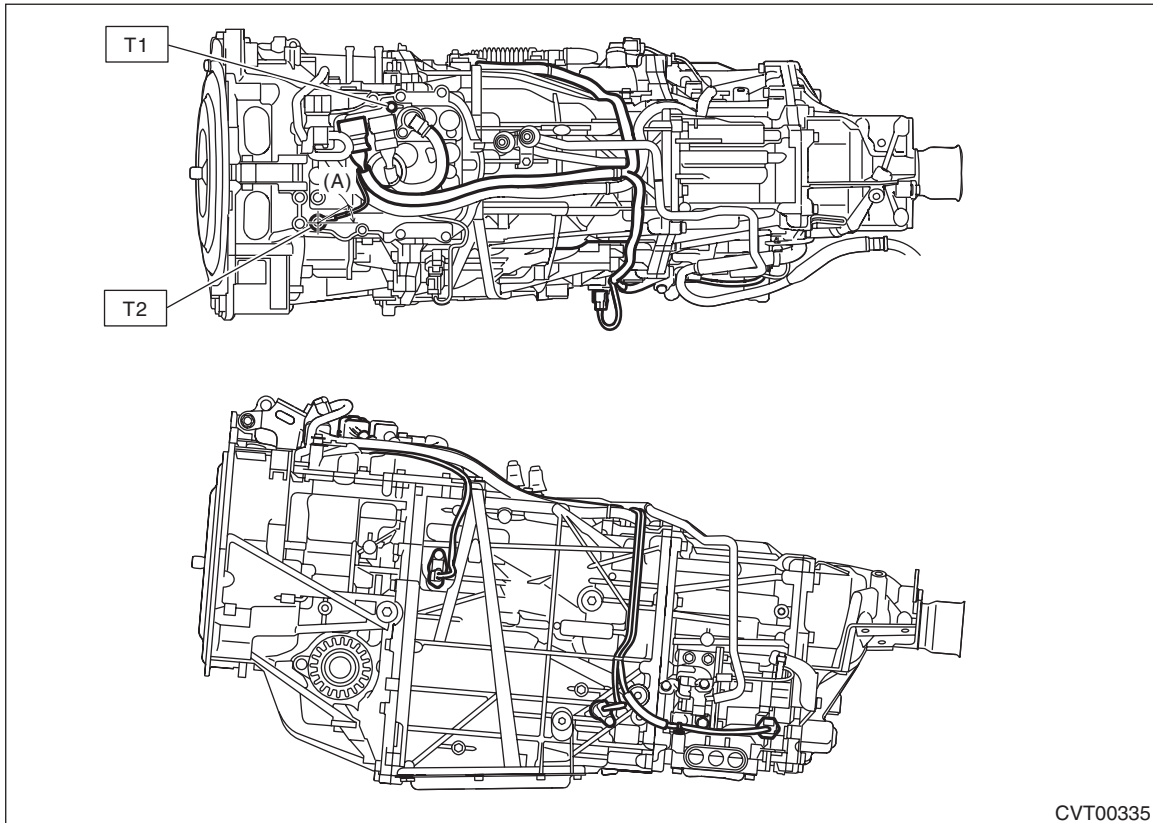
NOTE:

- Install the transmission ground terminal in the direction within the range of approx. 30° (A).
- Install the transmission harness through the lower side of air breather hose.

**Tightening torque:**

**T1: 7 N·m (0.7 kgf-m, 3.7 ft-lb)**

**T2: 14 N·m (1.4 kgf-m, 10.3 ft-lb)**



# Transmission Harness

## CONTINUOUSLY VARIABLE TRANSMISSION

### 2. TRANSMISSION HARNESS

1) Clean the mating surface of valve cover and transmission side.

#### CAUTION:

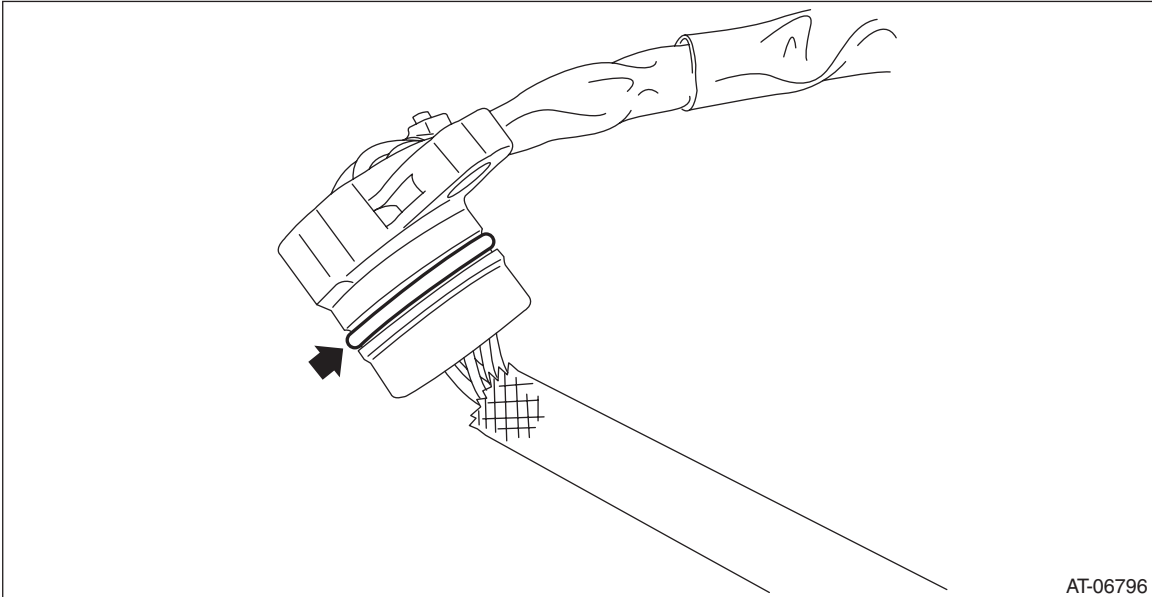
**When cleaning the mating surface of the transmission side, be careful not to allow any dust, foreign matter and used liquid gasket to enter the transmission.**

2) Check the control valve body for dust and other foreign matter.

3) Install the O-ring to the transmission harness.

#### NOTE:

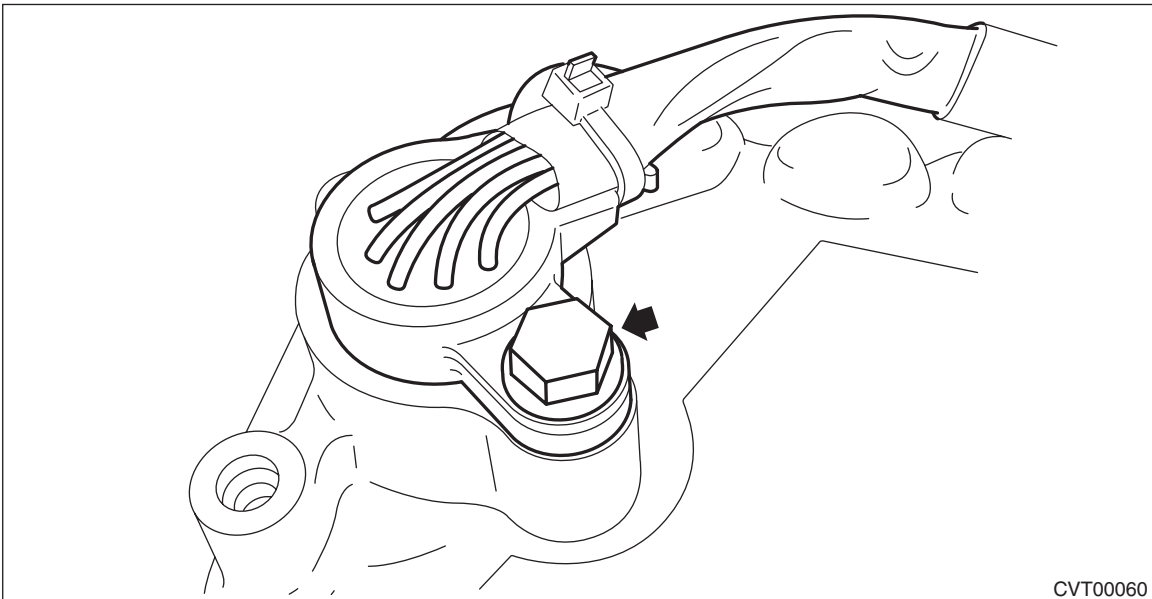
- Use new O-rings.
- Apply CVTF to the O-ring.



4) Install the transmission harness to the valve cover.

#### Tightening torque:

**7 N·m (0.7 kgf-m, 5.2 ft-lb)**



5) Install the gasket to the transmission.

#### NOTE:

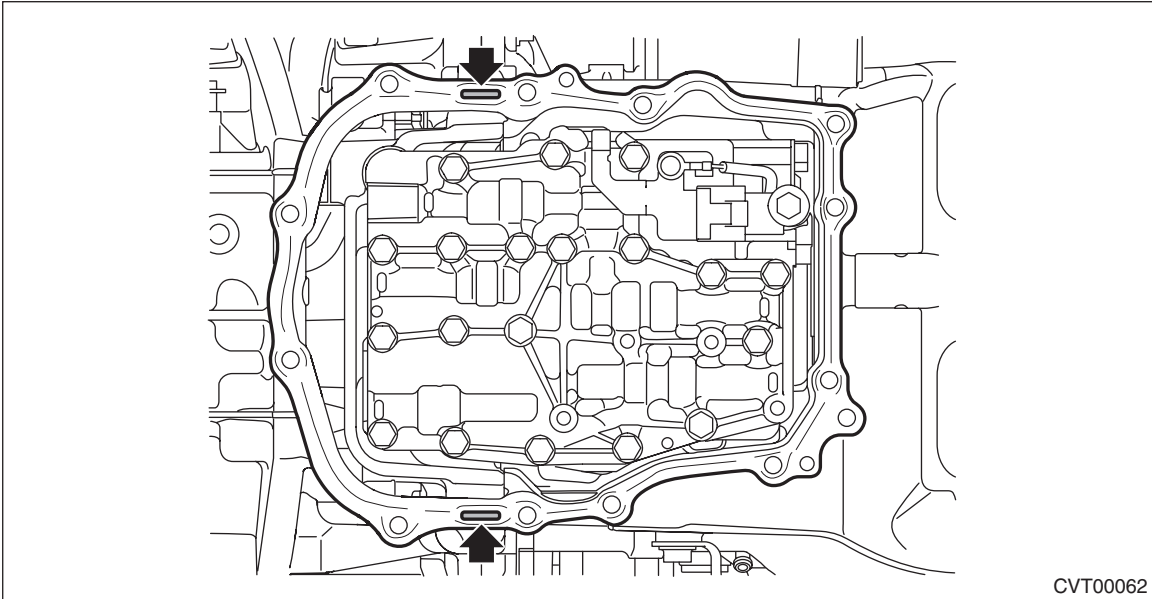
Use a new gasket.

# Transmission Harness

CONTINUOUSLY VARIABLE TRANSMISSION

6) Apply liquid gasket to the oval hole of gasket.

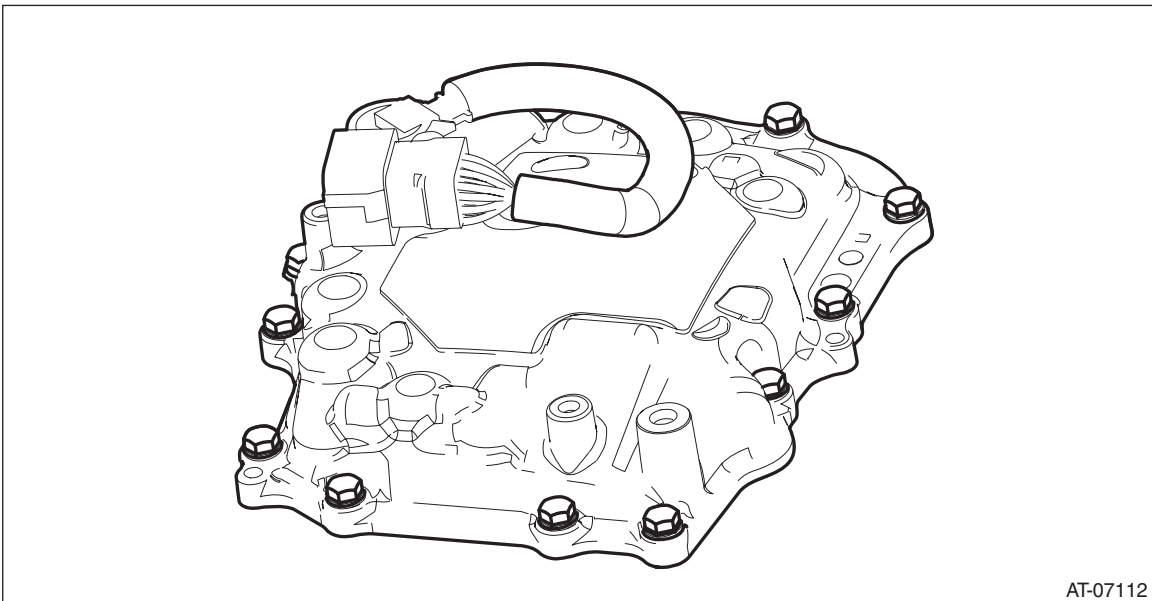
**Liquid gasket:**  
**THREE BOND 1215B or equivalent**



7) Connect the transmission harness connector to the control valve body, and install the valve cover.

**CAUTION:**  
**Be careful not to catch the sheet of the ST.**

**Tightening torque:**  
**9 N·m (0.9 kgf-m, 6.6 ft-lb)**



8) Remove the ST (SHEET SPECIAL TOOL).

9) Install the transmission harness connector to the harness stay.

## Transmission Harness

### CONTINUOUSLY VARIABLE TRANSMISSION

---

10) Install the transmission harness stay, drive motor harness stay and transmission ground terminal.

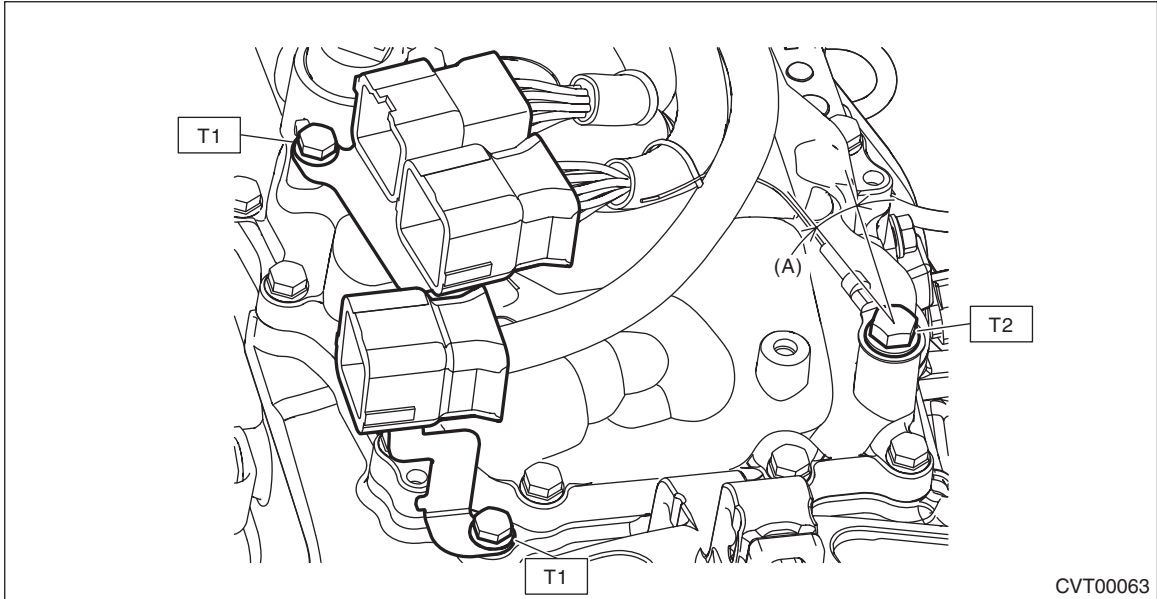
**NOTE:**

Install the transmission ground terminal in the direction within the range of approx. 30° (A).

**Tightening torque:**

**T1: 7 N·m (0.7 kgf-m, 5.2 ft-lb)**

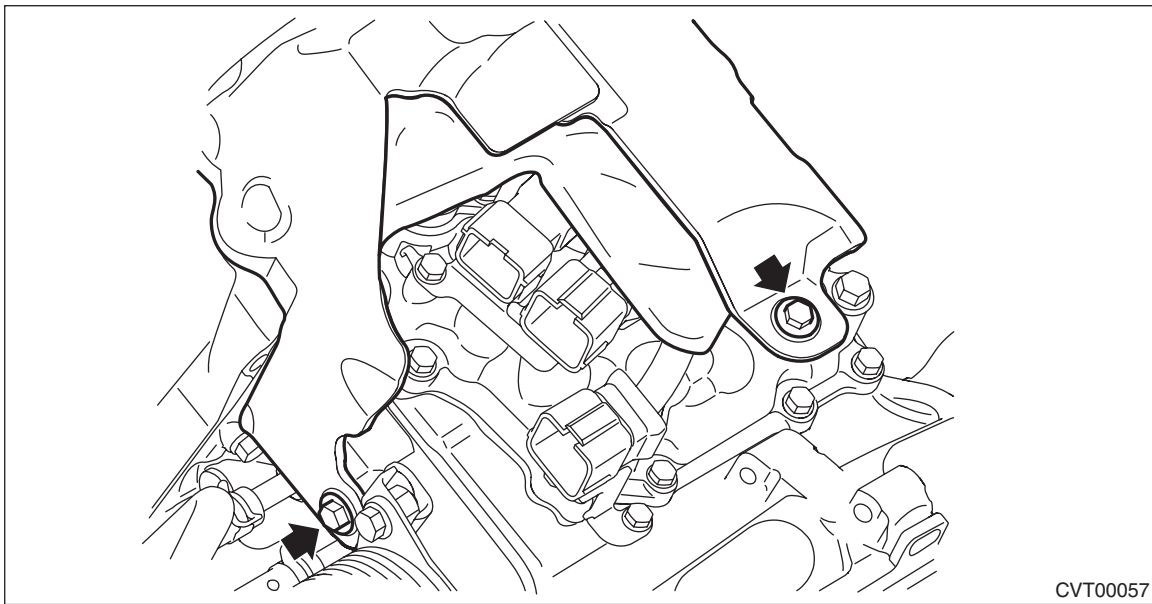
**T2: 14 N·m (1.4 kgf-m, 10.3 ft-lb)**



11) Insert the transmission case cover (small) between the transmission case cover (large) and the transmission to install.

**Tightening torque:**

**8 N·m (0.8 kgf-m, 5.9 ft-lb)**



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

**Tightening torque:**

**41 N·m (4.2 kgf-m, 30.2 ft-lb)**

13) Install the air breather hose to the pitching stopper bracket. <Ref. to CVT(TH58A)-173, FRONT DIFFERENTIAL SIDE, INSTALLATION, Air Breather Hose.>

14) Install the pitching stopper. <Ref. to CVT(TH58A)-89, PITCHING STOPPER, INSTALLATION, Transmission Mounting System.>

# Transmission Harness

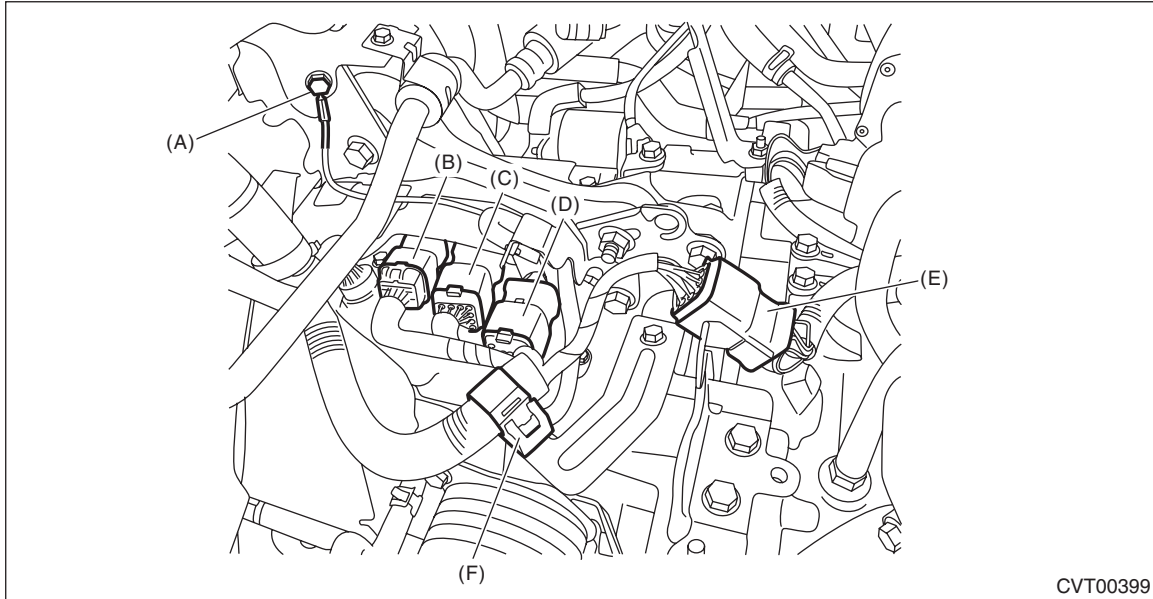
## CONTINUOUSLY VARIABLE TRANSMISSION

15) Connect the following connectors and install the harness clip to the bracket.

- Transmission radio ground terminal
- Transmission harness connectors
- Inhibitor harness connector
- Drive motor harness connector
- Engine harness connectors
- Harness clip

**Tightening torque:**

**13 N·m (1.3 kgf-m, 9.6 ft-lb)**



CVT00399

- (A) Transmission radio ground terminal
- (B) Transmission harness connectors
- (C) Inhibitor harness connector
- (D) Drive motor harness connector
- (E) Engine harness connectors
- (F) Harness clip

16) Install the air cleaner case and bracket. <Ref. to IN(H4DO(HEV))-8, INSTALLATION, Air Cleaner Case.>

17) Install the collector cover.

18) Install the 12 volt auxiliary battery ground terminal and ground terminal to the 12V engine restart battery sensor of the 12 volt engine restart battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

## C: INSPECTION

- 1) Visually check the harness and connector for damage or crack.
- 2) Check the harness terminal for rust, disconnection or poor contact.
- 3) Check the continuity between harness terminals.

NOTE:

For details of transmission harness circuit, refer to wiring diagram. <Ref. to WI(w/o HEV)-90, WIRING DIAGRAM, CVT Control System.>

**Harness continuity standard:**

**Less than 1  $\Omega$**