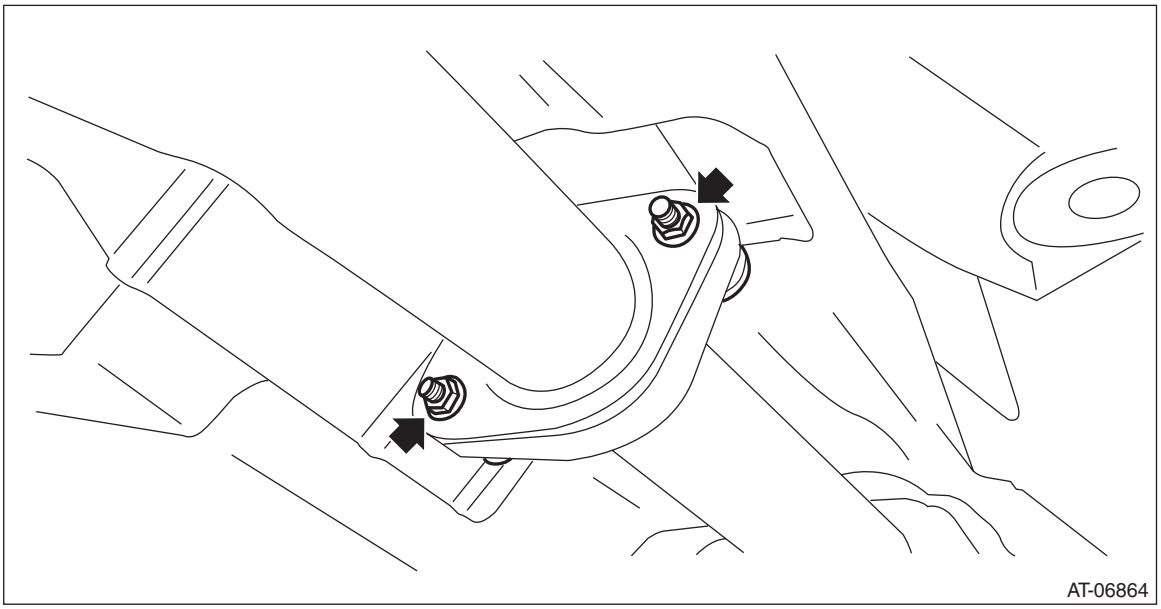
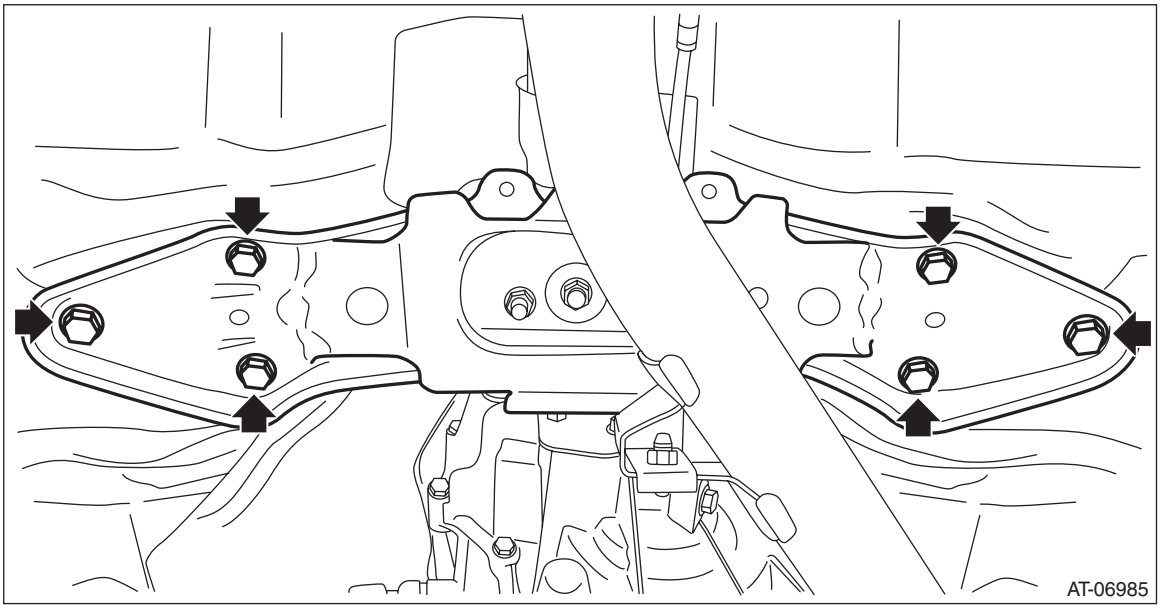
9. Transfer Clutch Pressure Test

A: INSPECTION

1) Lift up the vehicle.
2) Remove the rear exhaust pipe from center exhaust pipe.

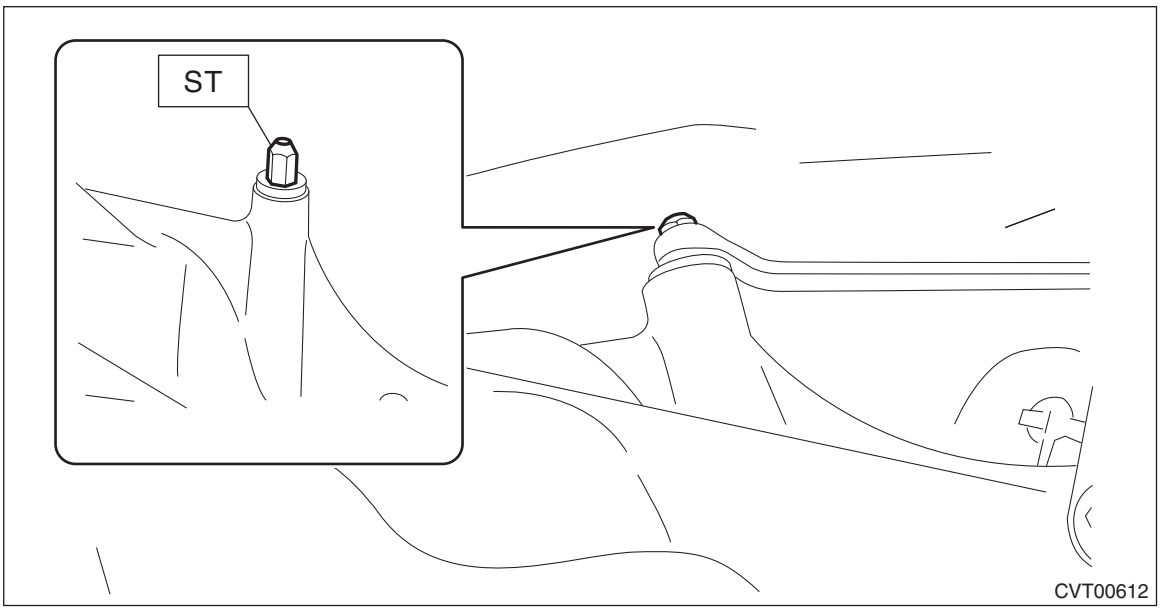


3) Remove the center exhaust cover.
4) Set the transmission jack under the transmission.
5) Remove the mounting bolt of rear crossmember.



6) Lower the rear side of transmission until the transfer clutch pressure test plug can be removed.

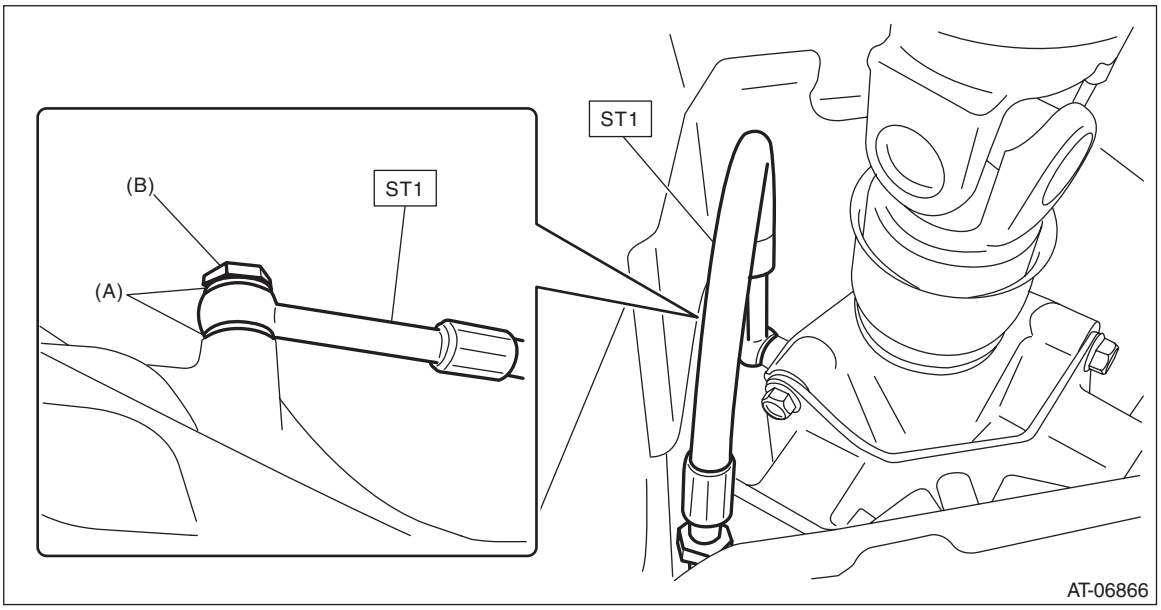
7) Using the ST, remove the transfer clutch pressure test plug.
ST 18270AA040 SOCKET



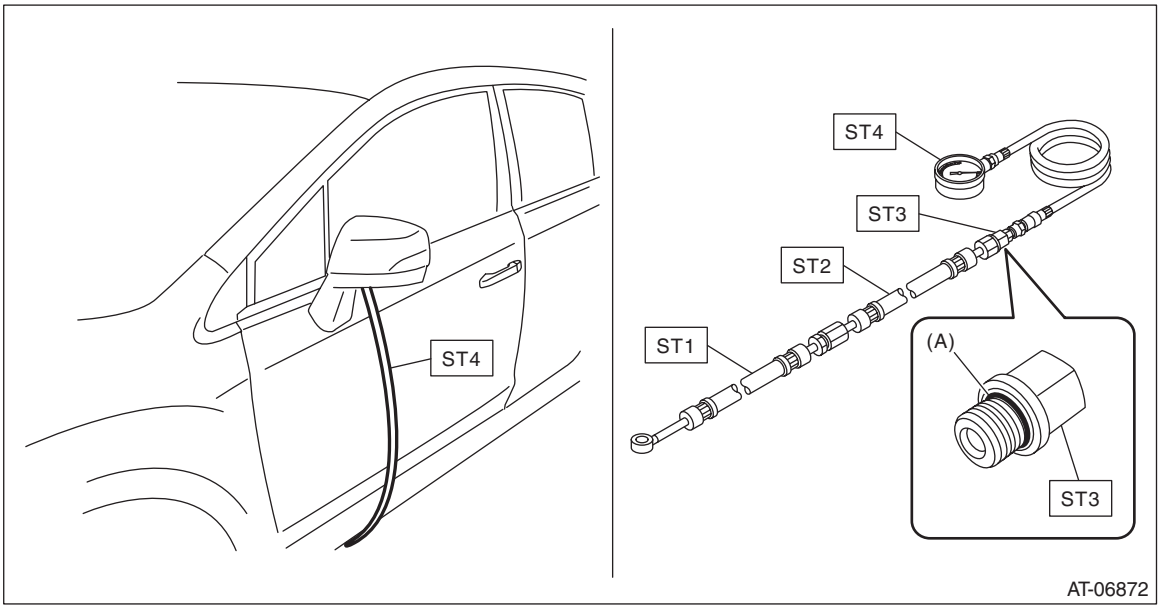
8) Set the ST1, ST2, ST3 and ST4 to the transmission.

NOTE:
• Use ST1 ADAPTER HOSE B with genuine union screw (part No. 801914010) and gasket (part No. 803914060) attached.
• Use ST3 PRESSURE GAUGE ADAPTER with genuine O-ring (part No. 806911080) attached.

ST1 34099AC020 ADAPTER HOSE B
ST2 34099AC010 ADAPTER HOSE A
ST3 18681AA000 PRESSURE GAUGE ADAPTER
ST4 498575400 OIL PRESSURE GAUGE ASSY



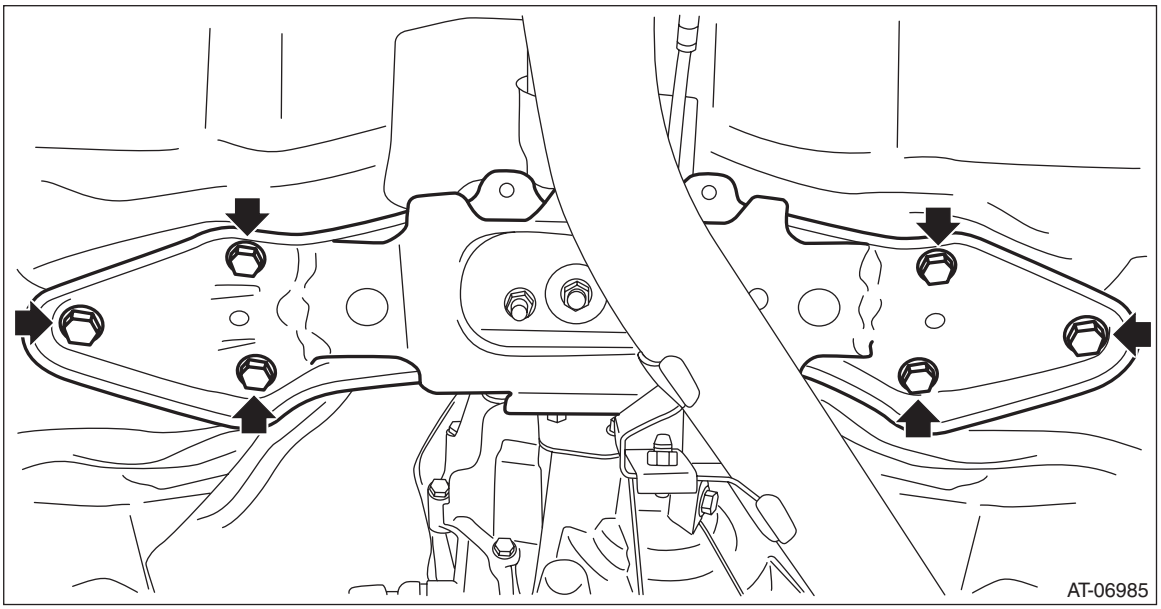
(A) Gasket (genuine part)
(B) Union screw (genuine part)



(A) O-ring (genuine part)

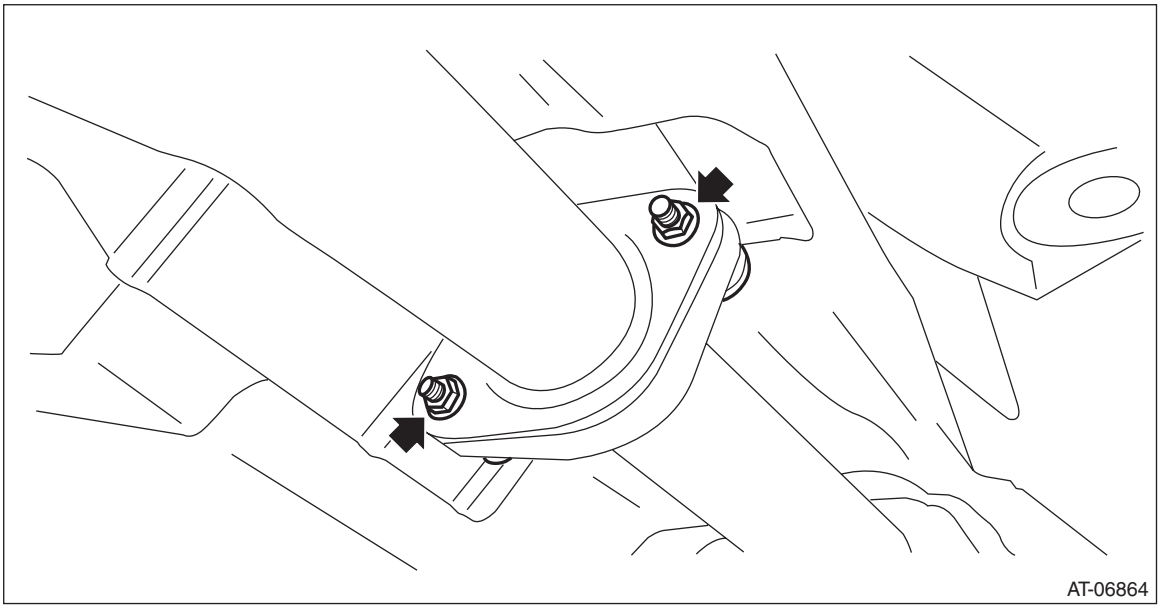
9) Raise the transmission, and install the rear crossmember.

Tightening torque:
70 N·m (7.1 kgf-m, 51.6 ft-lb)



10) Install the rear exhaust pipe to center exhaust pipe.

Tightening torque:
18 N·m (1.8 kgf-m, 13.3 ft-lb)



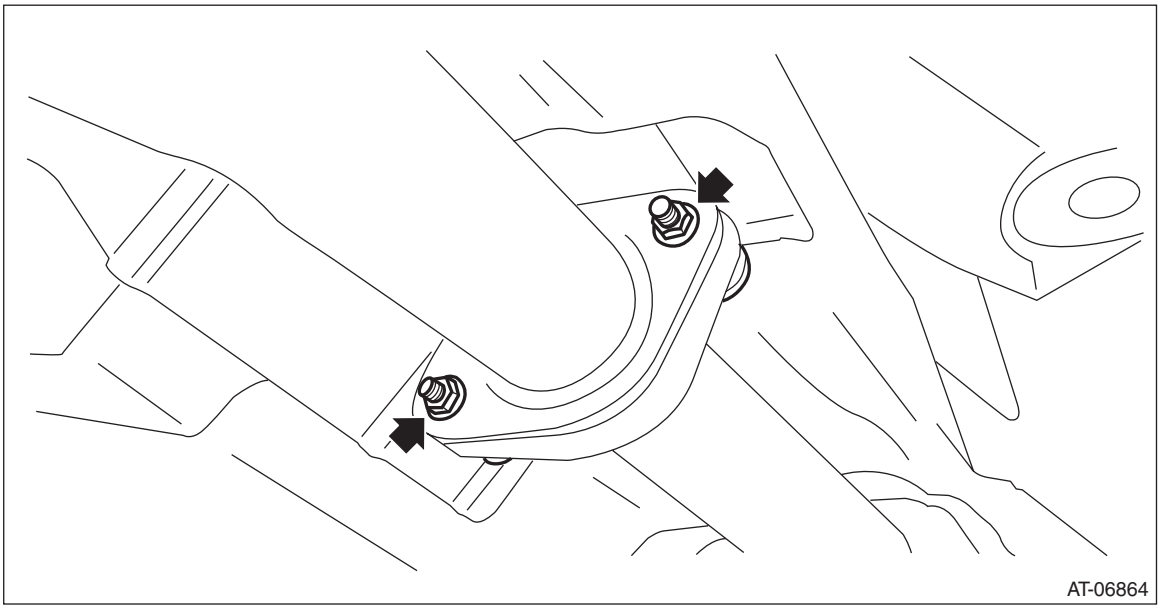
11) Lower the vehicle.
12) Connect the Subaru Select Monitor to the data link connector and read the current data.

13) Check the transfer clutch pressure as in secondary pressure (line pressure) test. <Ref. to CVT(TR580)-49, Secondary Pressure (Line Pressure) Test.>

NOTE:
• Use Subaru Select Monitor for switching to FWD mode. <Ref. to CVT(TR580)-45, AWD ON/OFF Switching Mode.>
• If no oil pressure is produced, if it does not change in AWD mode or if oil pressure is produced in FWD mode, there may be a problem in the control valve body.

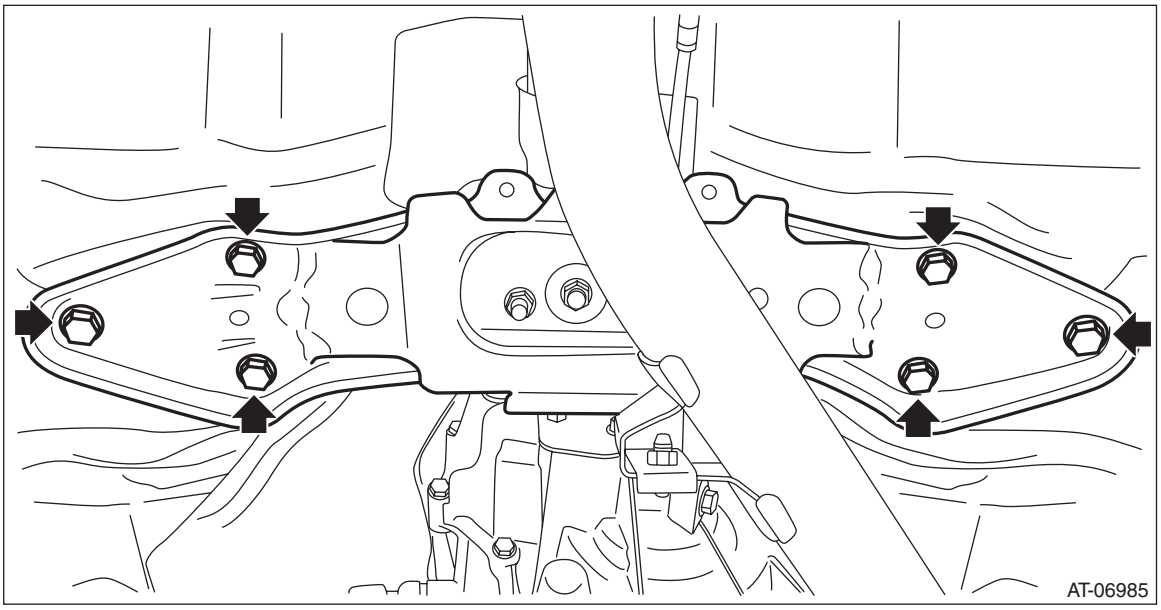
Range position	ON Duty ratio (%)	Accelerator pedal opening angle (%)	Standard transfer clutch pressure kPa (kgf/cm^2, psi)	
			AWD mode	FWD mode
D	95 — 100	Fully opened (100)	1,000 — 1,200 (10.2 — 12.2, 145 — 174)	—
	60	Adjust ON Duty ratio to 60%.	400 — 700 (4.1 — 7.1, 58 — 102)	—
	0	Fully closed (0)	—	0 (0, 0)
N or P	0	Fully closed (0)	0	—

14) Lift up the vehicle.
15) Remove the rear exhaust pipe from center exhaust pipe.



16) Set the transmission jack under the transmission.

17) Remove the mounting bolt of rear crossmember.



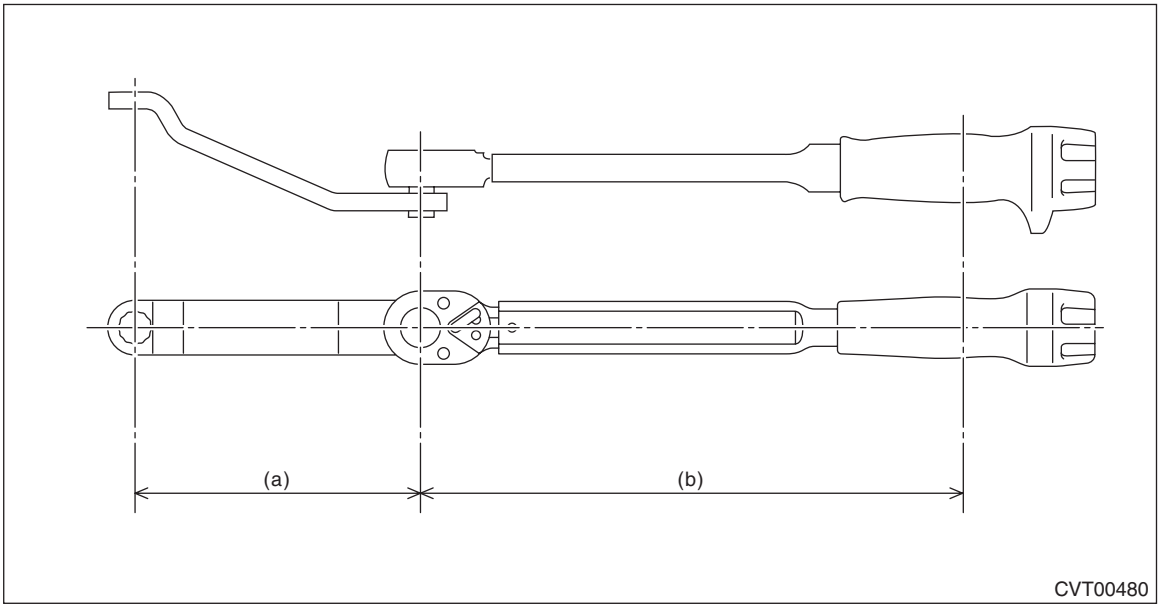
18) Lower the rear side of transmission until the ST can be removed.

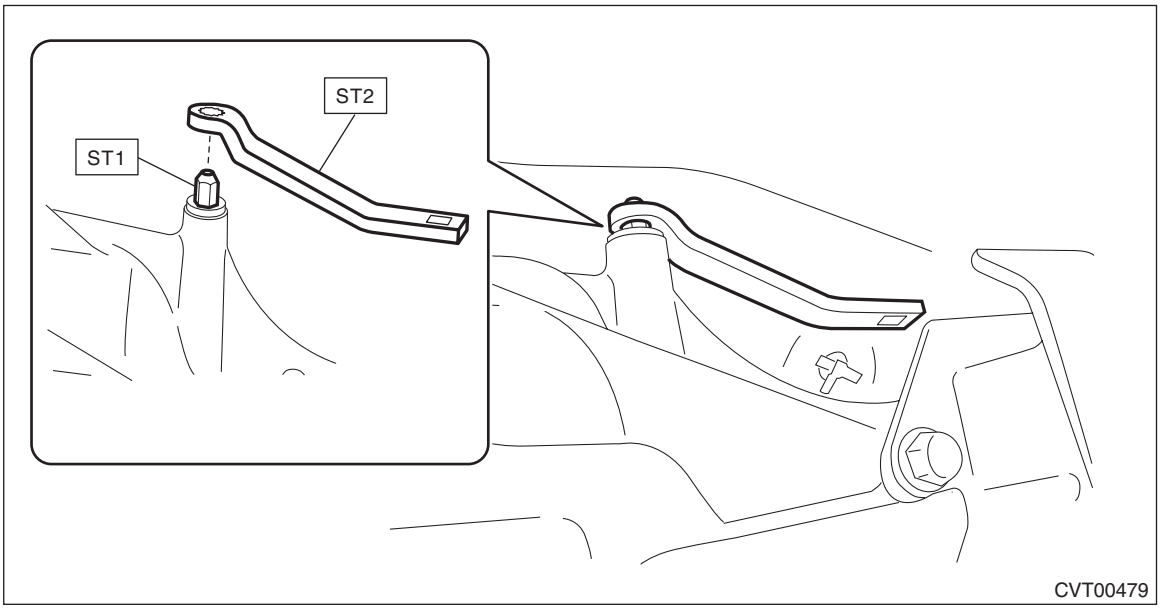
19) Install the test plug using ST1 and ST2.

NOTE:
- Use new O-rings.
- Apply CVTF to the O-ring.
- Tighten the test plug while directly aligning ST2 and torque wrench.

ST1 18270AA040 SOCKET
ST2 73099SG000 SPECIAL TOOL CONDENSER
Using the following formula, calculate the tightening torque for a torque wrench.
T2 = L2/(L1 + L2) × T1
T1: 25 N·m (2.5 kgf-m, 18.4 ft-lb)
L1: ST2 length 0.1 m (3.94 in) (a)
L2: Torque wrench length (b) m (in)

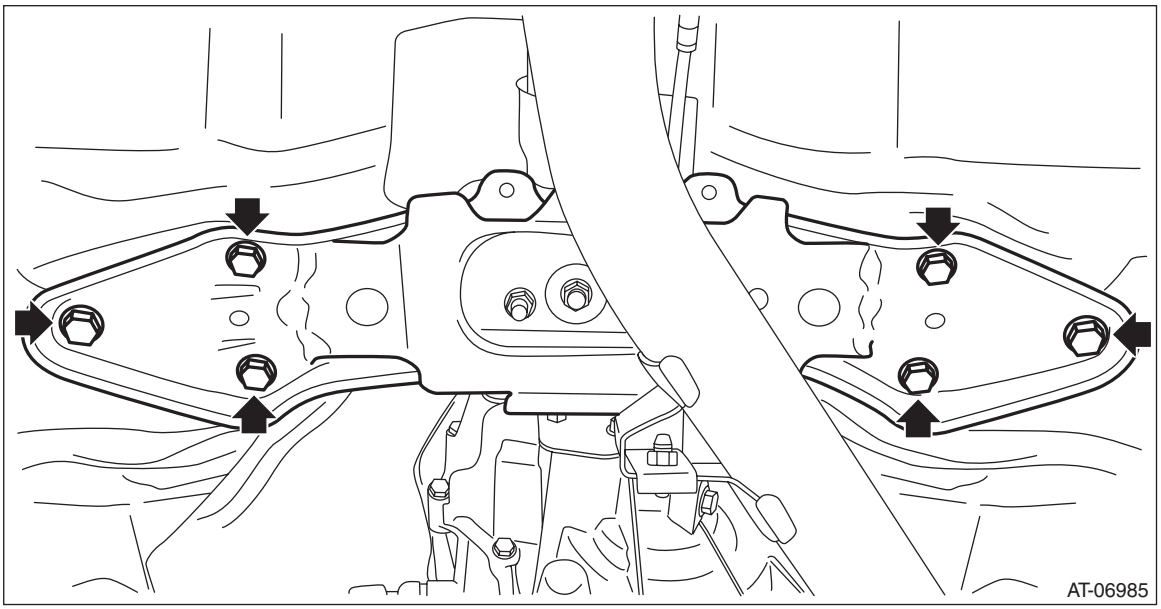
[Required torque setting]
T2: Tightening torque: N·m (kgf-m, ft-lb)





20) Raise the transmission, and install the rear crossmember.

Tightening torque:
70 N·m (7.1 kgf-m, 51.6 ft-lb)



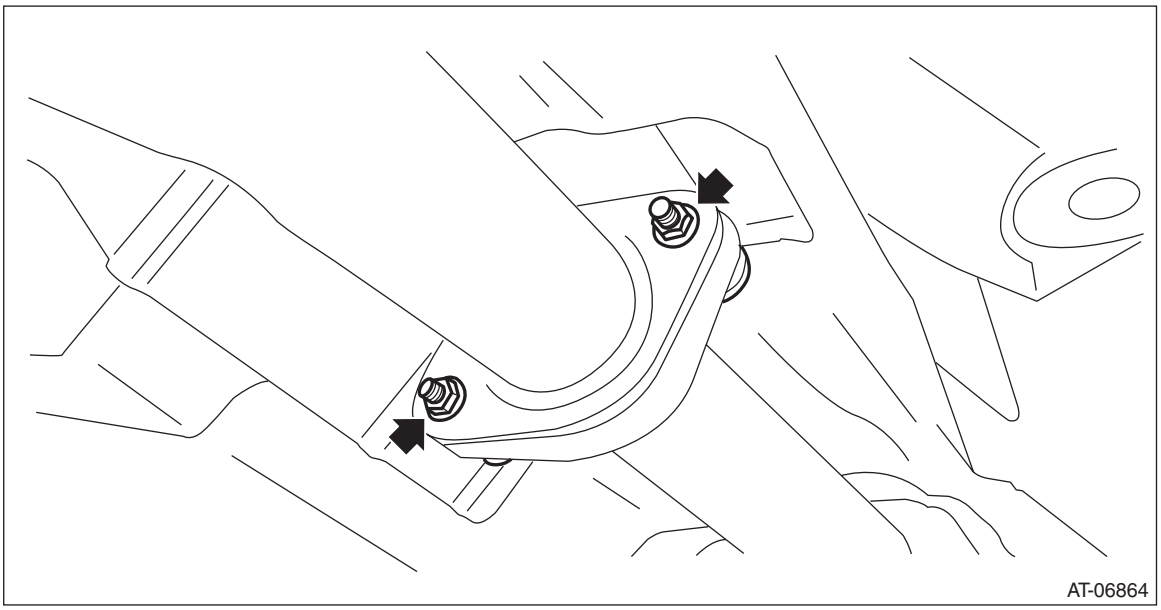
21) Install the center exhaust cover.

Tightening torque:
18 N·m (1.8 kgf-m, 13.3 ft-lb)

22) Install the rear exhaust pipe to center exhaust pipe.

NOTE:
Use a new gasket.

Tightening torque:
18 N·m (1.8 kgf-m, 13.3 ft-lb)



23) Lower the vehicle.