1. General Description

A: SPECIFICATION

1. TORQUE CONVERTER

Model	DOHC non-turbo		
Туре	Symmetric, 3-element, single stage, 2-phase torque converter		
Stall torque ratio	2.34		
Nominal mm (in)	236 (9.29)		
Stall speed (at sea level)	2,350 — 3,100 (D range) 2,100 — 2,800 (R range)		
One-way clutch	Sprag type one-way clutch		

2. OIL PUMP

Туре		Internal gear pump		
Driving method		Driven by chain		
Number of teeth	Inner rotor	8		
	Outer rotor	9		

3. TRANSMISSION CONTROL ELEMENT

Туре	Forward continuously variable speed change, 1 reverse planetary gear	
Multi-plate clutch	1 sets	
Multi-plate brake	1 sets	

4. TRANSMISSION GEAR RATIO

Forward	3.581 — 0.570	
Rev	3.667	

5. PLATE

Number of forward clutch drive plates	3
Number of reverse brake drive plates	4

6. SELECTOR POSITION

P (Park)	Transmission neutral, output shaft locked, engine start enabled		
R (Reverse)	Rev		
N (Neutral)	Transmission neutral, engine start enabled		
D (Drive)	Forward continuously variable speed change		
M (manual mode) (paddle shift + side)	Manual gear change 1st \rightarrow 2nd \rightarrow 3rd \rightarrow 4th \rightarrow 5th \rightarrow 6th		
M (manual mode) (paddle shift -side)	Manual gear change 1st ← 2nd ← 3rd ← 4th ← 5th ← 6th		
L (low)	Forward continuously variable speed change (engine brake)		

7. HYDRAULIC CONTROL AND LUBRICATION

Туре	Electronic hydraulic control (Gear ratio is changed by signals of vehicle speed and accelerator opening angle.)
	Specified fluid: SUBARU CVT OIL FOR LINEARTRONIC
Fluid	CAUTION: Always use specified CVTF. Using other fluid will cause malfunction.
Fluid capacity L (US qt, Imp qt)	11.93 — 12.43 (12.6 — 13.1, 10.5 — 10.9)
Lubrication system	Forced feed lubrication with oil pump

8. COOLING AND HARNESS

Cooling system	CVTF cooler (with warmer feature)		
Inhibitor switch harness	16 poles		
Transmission harness	12 poles		

9. TRANSFER

Transfer type	Multi-plate transfer (MP-T)	
Number of transfer clutch drives & driven plates	4	
Control method	Electronic hydraulic type	
Reduction gear ratio	1.000 (43/43)	

10.REDUCTION GEAR RATIO

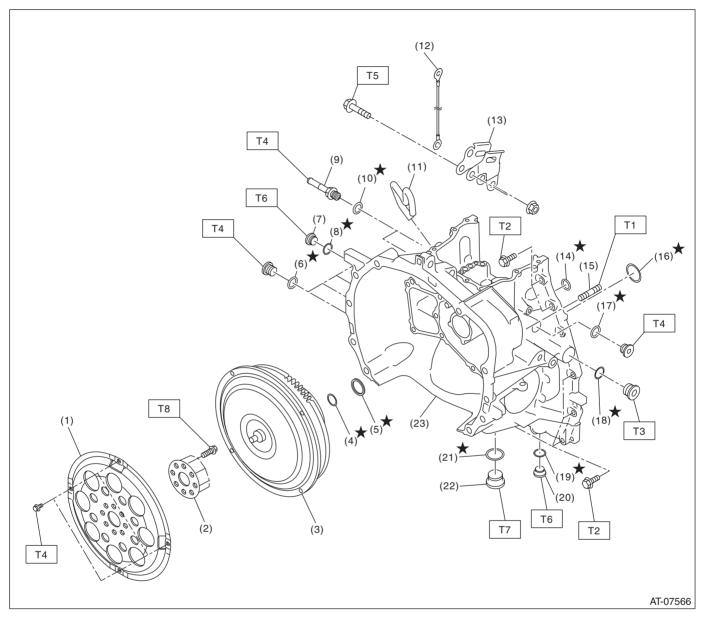
Front final reduction gear ratio	3.700
Tront iniai reduction gear ratio	0.700

11.RECOMMENDED GEAR OIL

Lubrication oil	GL-5 (75W-85)
Front differential oil capacity L (US qt, Imp qt)	1.3 — 1.4 (1.4 — 1.5, 1.1 — 1.2)

B: COMPONENT

1. TORQUE CONVERTER ASSEMBLY AND CONVERTER CASE



- (1) Drive plate
- (2) Reinforcement drive plate
- (3) Torque converter ASSY
- (4) O-ring
- (5) Seal ring
- (6) O-ring
- (7) Front differential gear oil filler plug
- (8) O-ring
- (9) Oil cooler pipe
- (10) O-ring
- (11) Air breather hose
- (12) Transmission radio ground cord

- (13) Pitching stopper bracket
- (14) O-ring
- (15) Stud bolt
- (16) O-ring
- (17) O-ring
- (18) O-ring
- (19) Gasket
- (20) Overflow drain plug
- (21) Gasket
- (22) Front differential gear oil drain plug
- (23) Converter case

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 18 (1.8, 13.3)

T2: 22 (2.2, 16.2)

T3: 22.5 (2.3, 16.6)

T4: 25 (2.5, 18.4)

T5: 41 (4.2, 30.2)

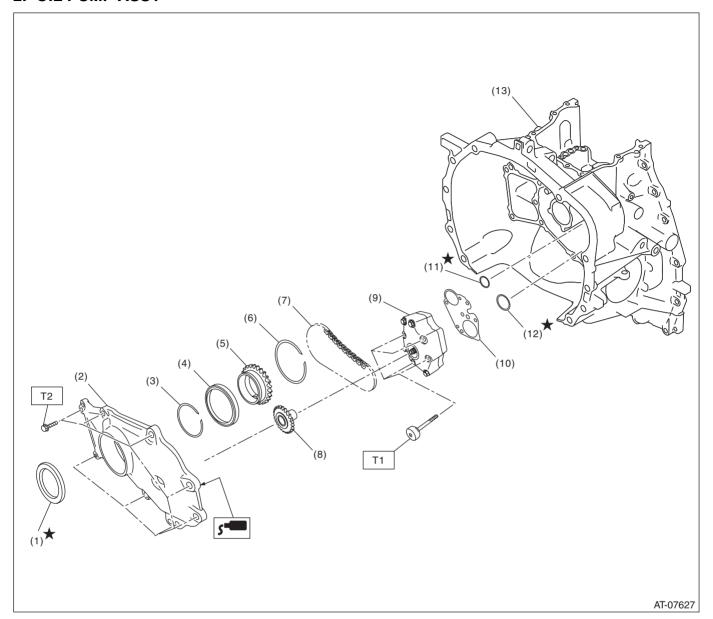
T6: 50 (5.1, 36.9)

T7: 70 (7.1, 51.6)

T8: <Ref. to CVT-150, INSTALLA-

TION, Drive Plate.>

2. OIL PUMP ASSY



- (1) Oil seal
- (2) Oil pump chain cover
- (3) Snap ring
- (4) Ball bearing
- (5) Drive sprocket
- (6) Snap ring

- (7) Oil pump chain
- (8) Driven sprocket
- (9) Oil pump ASSY
- (10) Plate
- (11) O-ring (small)
- (12) O-ring (large)

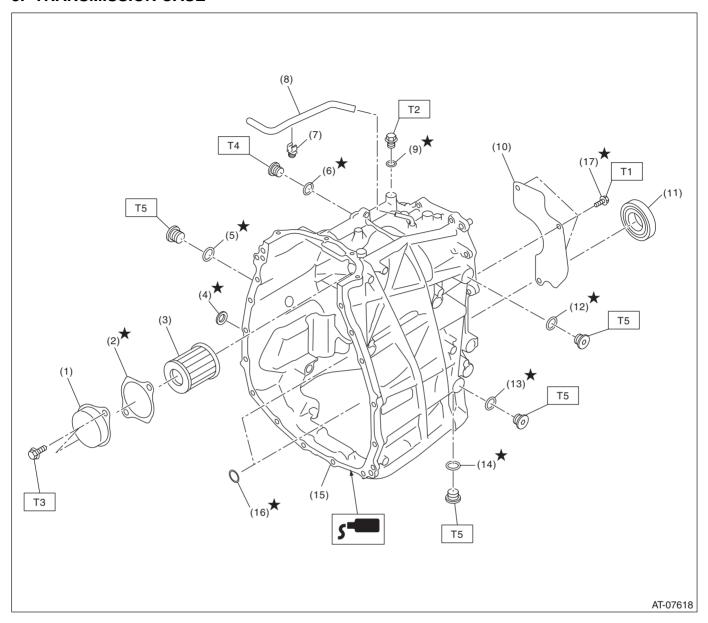
(13) Converter case

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 8.5 (0.9, 6.3)

T2: 21 (2.1, 15.5)

3. TRANSMISSION CASE



- (1) CVTF filter cover
- (2) Gasket
- (3) CVTF filter
- (4) Oil seal
- (5) Gasket
- (6) O-ring
- (7) Clip
- (8) Air breather hose

- (9) O-ring
- (10) Oil stopper plate
- (11) Ball bearing
- (12) O-ring
- (13) Gasket
- (14) O-ring
- (15) Transmission case
- (16) Seal ring

(17) Micro-encapsulated bolt

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 9 (0.9, 6.6)

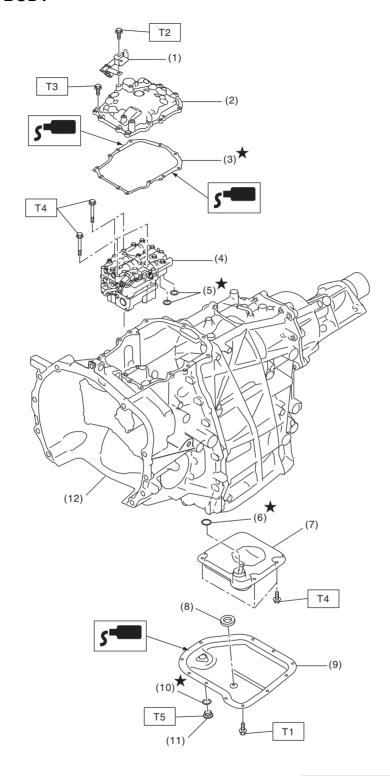
T2: 13 (1.3, 9.6)

T3: 17 (1.7, 12.5)

T4: 25 (2.5, 18.4)

T5: 50 (5.1, 25.8)

4. CONTROL VALVE BODY



AT-06726

- (1) Transmission harness stay
- (2) Valve cover
- (3) Gasket
- (4) Control valve body
- (5) O-ring
- (6) O-ring

- (7) Oil strainer
- (8) Magnet
- (9) Oil pan
- (10) Gasket
- (11) CVTF drain plug
- (12) Transmission ASSY

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 5 (0.5, 3.7)

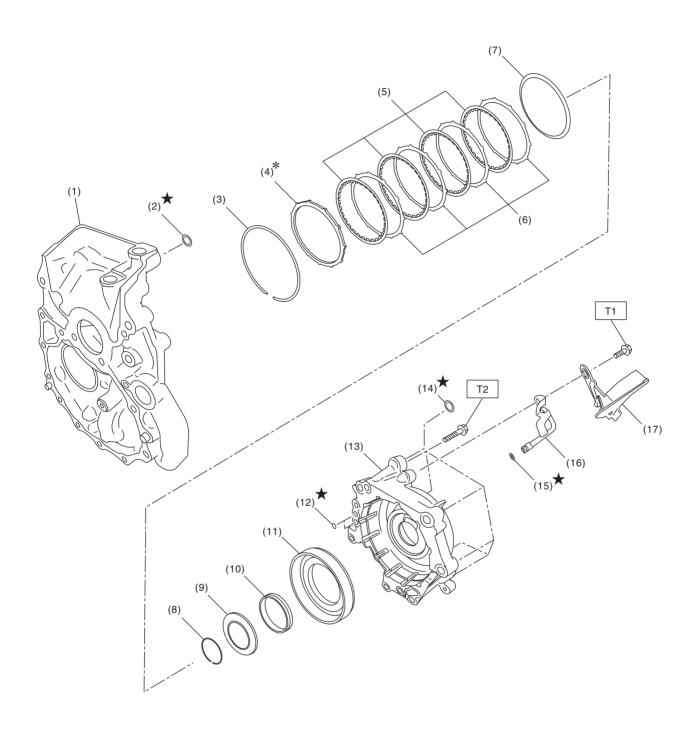
T2: 7 (0.7, 5.2)

T3: 8 (0.8, 5.9)

T4: 9 (0.9, 6.6)

T5: 31 (3.2, 22.9)

5. REVERSE BRAKE ASSEMBLY



AT-07555

- (1) Drive pinion retainer
- (2) O-ring
- (3) Snap ring
- (4) Retaining plate
- (5) Drive plate
- (6) Driven plate
- (7) Dish plate

- (8) Snap ring
- (9) Spring retainer
- (10) Return spring
- (11) Reverse brake piston
- (12) O-ring
- (13) Reverse brake housing
- (14) O-ring

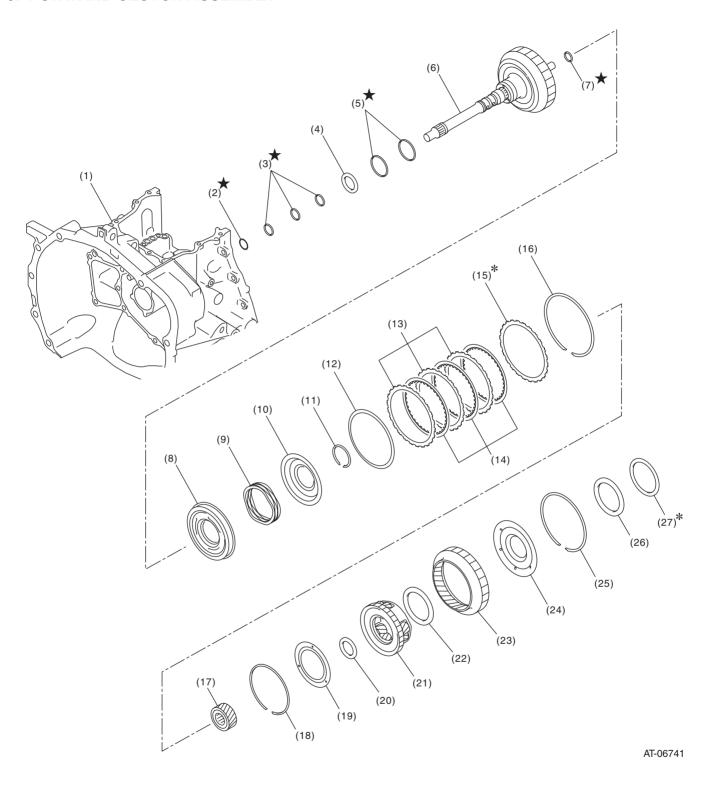
- (15) O-ring
- (16) Lubrication pipe
- (17) Oil guide

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 16 (1.6, 11.8)

T2: 37 (3.8, 27.3)

6. FORWARD CLUTCH ASSEMBLY

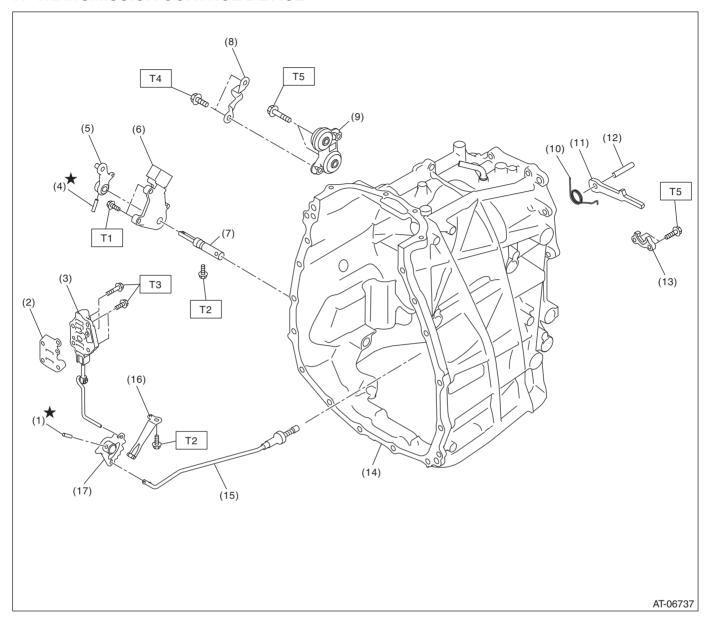


General Description

CONTINUOUSLY VARIABLE TRANSMISSION

(1)	Converter case	(10)	Chamber COMPL	(19)	Balance oil guide
(2)	O-ring	(11)	Snap ring	(20)	Thrust bearing
(3)	Seal ring	(12)	Dish plate	(21)	Planetary carrier ASSY
(4)	Thrust bearing	(13)	Driven plate	(22)	Thrust bearing
(5)	Seal ring	(14)	Drive plate	(23)	Internal gear
(6)	Forward clutch drum ASSY	(15)	Retaining plate	(24)	Thrust gear plate
(7)	Seal ring	(16)	Snap ring	(25)	Snap ring
(8)	Forward clutch piston	(17)	Sun gear	(26)	Thrust bearing
(9)	Return spring	(18)	Snap ring	(27)	Washer

7. TRANSMISSION CONTROL DEVICE



- (1) Spring pin
- (2) Separator plate
- (3) Manual valve ASSY
- (4) Spring pin
- (5) Shifter arm
- (6) Inhibitor switch
- (7) Shifter arm shaft
- (8) Cable bracket
- (9) Plate ASSY

- (10) Return spring
- (11) Parking pawl
- (12) Shaft
- (13) Parking support
- (14) Transmission case
- (15) Parking rod
- (16) Detent spring
- (17) Manual plate

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 5 (0.5, 3.7)

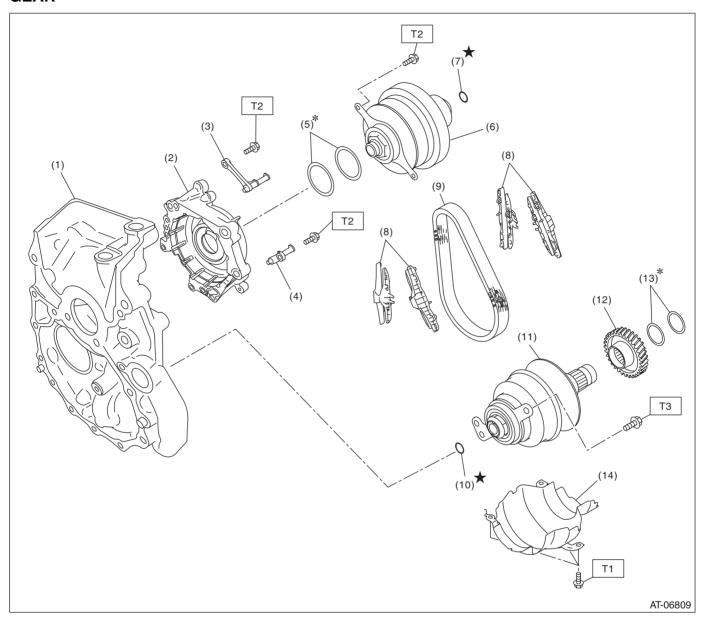
T2: 7 (0.7, 5.2)

T3: 9 (0.9, 6.6)

T4: 18 (1.8, 13.3)

T5: 25 (2.5, 18.4)

8. PRIMARY PULLEY, SECONDARY PULLEY & VARIATOR CHAIN AND REDUCTION DRIVE GEAR



- (1) Drive pinion retainer
- (2) Reverse brake housing
- (3) Support rod
- (4) Lubrication pipe
- (5) Primary pulley shim
- (6) Primary pulley ASSY
- (7) Seal ring

- (8) Chain guide
- (9) Variator chain
- (10) Seal ring
- (11) Secondary pulley ASSY
- (12) Reduction drive gear
- (13) Reduction gear shim
- (14) Oil baffle

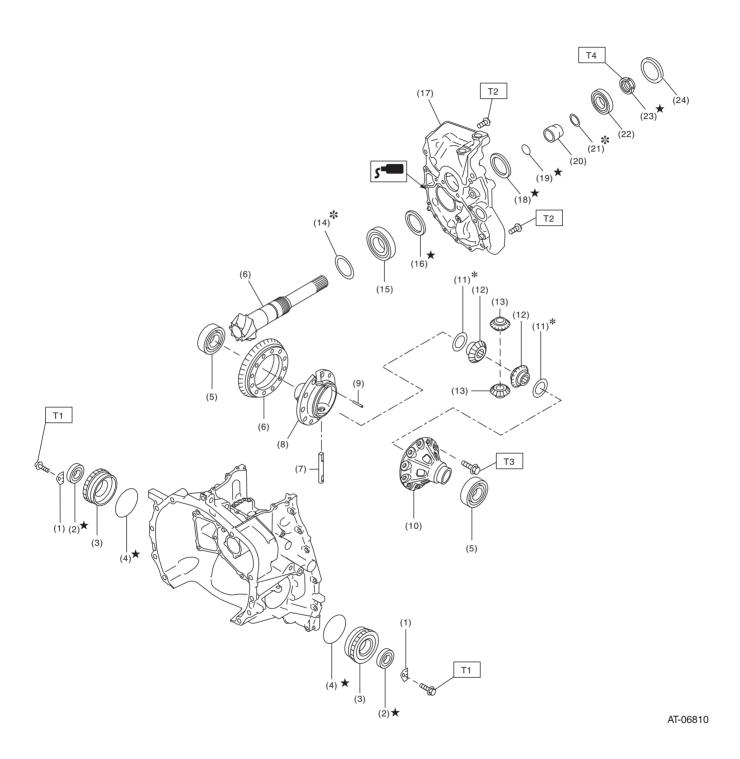
Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 16 (1.6, 11.8)

T2: 21 (2.1, 15.5)

T3: 67.5 (6.9, 49.8)

9. FRONT DIFFERENTIAL GEAR

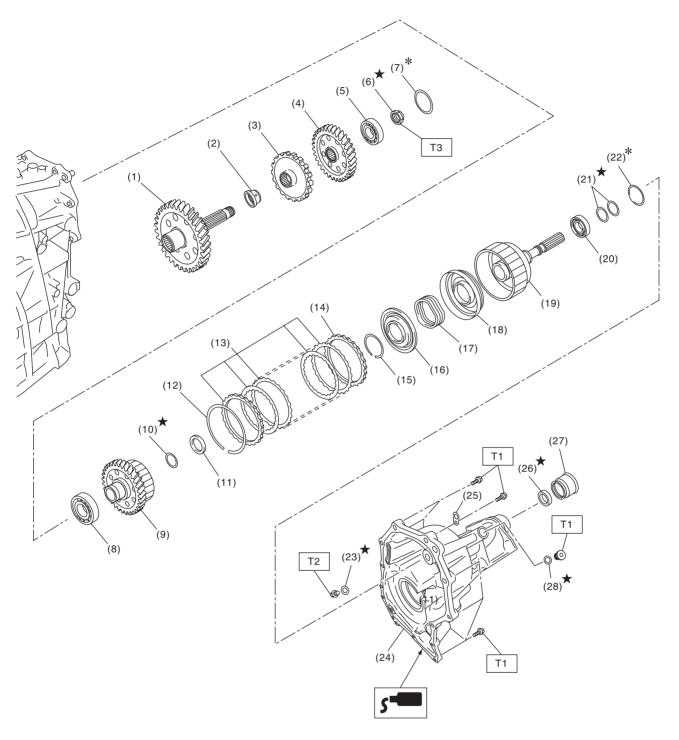


General Description

CONTINUOUSLY VARIABLE TRANSMISSION

(1)	Lock plate	(11)	Washer	(21)	Drive pinion washer
(2)	Oil seal	(12)	Differential bevel gear	(22)	Taper roller bearing
(3)	Differential side retainer	(13)	Differential bevel pinion	(23)	Lock nut
(4)	O-ring	(14)	Drive pinion shim	(24)	Plug
(5)	Taper roller bearing	(15)	Taper roller bearing		
(6)	Drive pinion gear set	(16)	Oil seal	Tight	tening torque: N·m (kgf-m, ft-lb)
(7)	Pinion shaft	(17)	Drive pinion retainer	T1:	25 (2.5, 18.4)
(8)	Differential case RH	(18)	Oil seal	T2:	43 (4.4, 31.7)
(9)	Straight pin	(19)	O-ring	T3:	64 (6.5, 47.2)
(10)	Differential case LH	(20)	Drive pinion spacer	T4:	<ref. assembly,<br="" cvt-273,="" to="">Drive Pinion Shaft Assembly.></ref.>

10.TRANSFER AND EXTENSION CASE



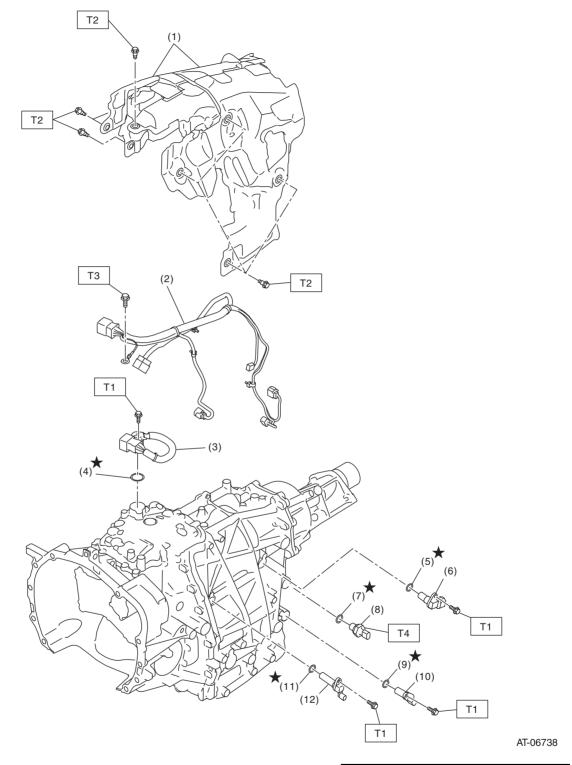
AT-06868

General Description

CONTINUOUSLY VARIABLE TRANSMISSION

(1)	Reduction driven gear COMPL	(12)	Snap ring	(23)	Gasket
(2)	Collar	(13)	Transfer clutch plate set	(24)	Extension case
(3)	Parking gear	(14)	Pressure plate	(25)	Transmission hanger
(4)	Transfer drive gear	(15)	Snap ring	(26)	Oil seal
(5)	Ball bearing	(16)	Transfer clutch piston seal	(27)	Dust cover
(6)	Lock nut	(17)	Transfer clutch piston return spring	(28)	O-ring
(7)	Transfer drive gear shim	(18)	Transfer clutch piston		
(8)	Ball bearing	(19)	Rear drive shaft	Tight	tening torque: N·m (kgf-m, ft-lb)
(9)	Transfer driven gear	(20)	Ball bearing	T1:	25 (2.5, 18.4)
(10)	Seal ring	(21)	Seal ring	T2:	<i>35 (3.6, 25.8)</i>
(11)	Thrust bearing	(22)	Transfer driven gear shim	Т3:	95 (9.7. 70.1)

11.TRANSMISSION HARNESS AND SENSOR



- (1) Transmission case cover
- (2) Inhibitor harness
- (3) Transmission harness
- (4) O-ring
- (5) O-ring
- (6) Primary speed sensor

- (7) O-ring
- (8) Secondary pressure sensor
- (9) O-ring
- (10) Secondary speed sensor
- (11) O-ring
- (12) Turbine speed sensor

Tightening torque: N⋅m (kgf-m, ft-lb)

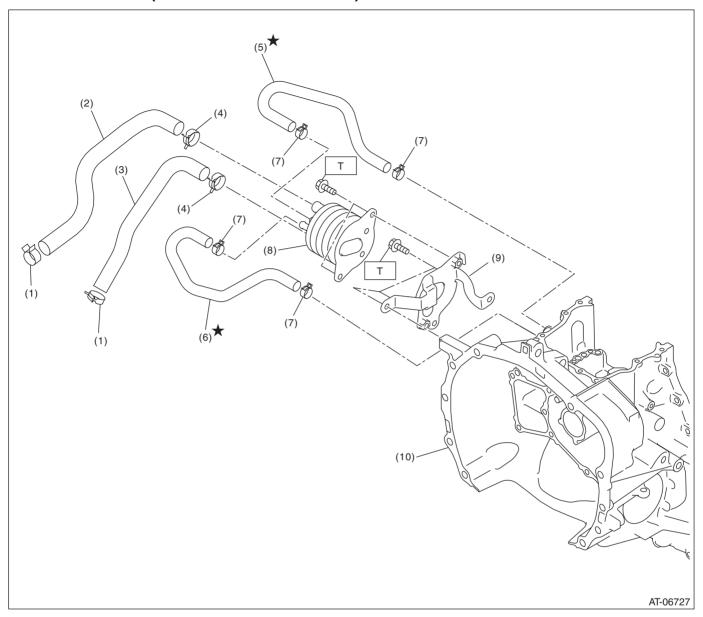
T1: 7 (0.7, 3.7)

T2: 8 (0.8, 5.9)

T3: 14 (1.4, 10.3)

T4: 39 (4.0, 28.8)

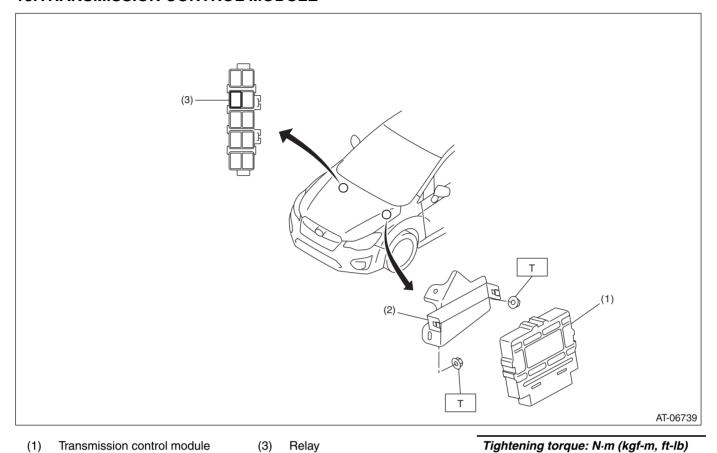
12.CVTF COOLER (WITH WARMER FEATURE)



- (1) Hose clamp
- (2) Engine coolant outlet hose
- (3) Engine coolant inlet hose
- (4) Hose clamp
- (5) CVTF cooler inlet hose
- (6) CVTF cooler outlet hose
- (7) Hose clamp
- (8) CVTF cooler (with warmer feature)
- (9) CVTF cooler bracket
- (10) Converter case

Tightening torque: N⋅m (kgf-m, ft-lb) T: 23 (2.3, 17.0)

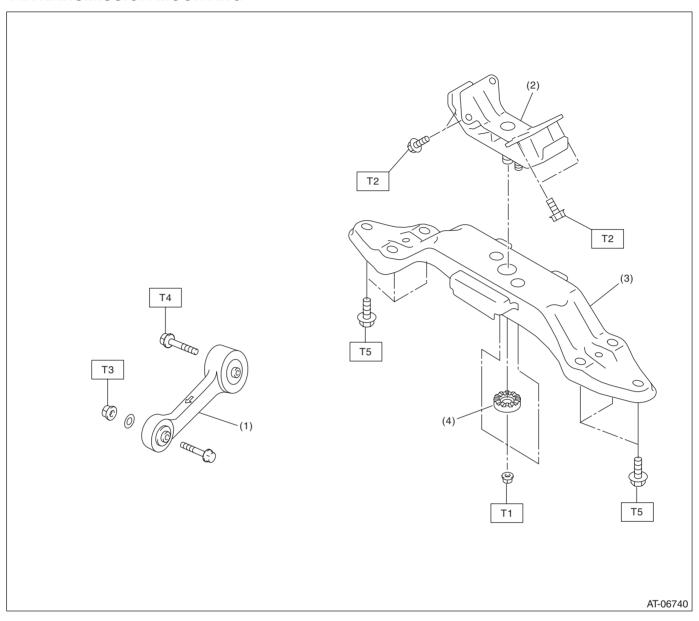
13.TRANSMISSION CONTROL MODULE



- (1) Transmission control module (TCM)
- TCM bracket (2)

- (3) Relay
- - - T: 7.5 (0.8, 5.5)

14.TRANSMISSION MOUNTING



- (1) Pitching stopper
- (2) Rear cushion rubber
- (3) Transmission rear crossmember
- (4) Stopper

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 35 (3.6, 25.8)

T2: 40 (4.1, 29.5)

T3: 50 (5.1, 36.9)

T4: 58 (5.9, 42.8)

T5: 70 (7.1, 51.6)

C: CAUTION

- Wear appropriate work clothing, including a cap, protective goggles and protective shoes when performing any work.
- · Remove contamination including dirt and corrosion before removal, installation or disassembly.
- · Keep the disassembled parts in order and protect them from dust and dirt.
- Do not place the valve cover with its inner side facing up until it is installed, to prevent intrusion of foreign matter into the control valve body.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly and replacement.
- When disassembling the case and other light alloy parts, use a plastic hammer to force it apart. Do not pry apart with screwdrivers or other tools.
- Vehicle components are extremely hot after driving. Be wary of receiving burns from heated parts.
- Use SUBARU genuine CVTF and recommended grease. Do not mix CVTF, grease etc. of different grades or manufacturers.
- Be sure to tighten bolts and nuts to the specified torque.
- Place lifts, shop jacks or rigid racks at specified locations.
- Apply CVTF onto sliding or revolving surfaces before installation.
- Replace deformed or damaged snap rings with new parts.
- Before installing O-rings or oil seals, apply sufficient amount of CVTF or gear oil to appropriate locations in order to avoid damage and deformation.
- Be careful not to incorrectly install or fail to install O-rings, snap rings and other such parts.
- Before securing a part on a vise, place cushioning material such as wood blocks, aluminum plate, or cloth between the part and the vise.
- Avoid damaging the mating surface of the case.
- Before applying liquid gasket, completely remove the old liquid gasket.
- After removing the sensors, breather hose and plugs, plug the holes to avoid foreign materials intruding as necessary.
- During disassembly or assembly, be sure to use nylon gloves or paper towels. Do not use cloth gloves or waste cloth.

D: PREPARATION TOOL

1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST18769AA010	18769AA010	EXPANDER PUL- LEY	Used for removing and installing the secondary pulley assembly.
ST18767AA010	18767AA010	BEARING REMOVER	Used for removing the ball bearing of transfer clutch assembly.
ST18762AA010	18762AA010	COMPRESSOR SPECIAL TOOL	Used for removing and installing snap ring of forward clutch assembly.
ST18761AA010	18761AA010	SHEET SPECIAL TOOL	 Used for removing and installing control valve body. Used for removing and installing valve cover. Used for removing and installing transmission harness.

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST18681AA010	18681AA010	PRESSURE GAUGE ADAPTER	Used for measuring the secondary pressure (line pressure). NOTE: Used together with the genuine O-ring (part No. 806916050).
ST18801AA000	18801AA000	OIL PRESSURE GAUGE ASSY	Used for measuring the secondary pressure (line pressure).
ST18658AA020	18658AA020	WRENCH COMPL RETAINER	Used for removing and installing the differential side retainer.
ST34099AC020	34099AC020	ADAPTER HOSE B	Used for measuring the transfer clutch hydraulic pressure. NOTE: Used with genuine union screw (Part No. 801914010) and gasket (Part No. 803914060).
ST34099AC010	34099AC010	ADAPTER HOSE A	Used for measuring the transfer clutch hydraulic pressure.

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST18681AA000	18681AA000	PRESSURE GAUGE ADAPTER	Used for measuring the transfer clutch hydraulic pressure. NOTE: Used together with the genuine O-ring (part No. 806911080).
	498575400	OIL PRESSURE	Used for measuring the transfer clutch hydraulic
		GAUGE ASSY	pressure.
ST-498575400	498277200	STOPPER SET	Used for removing and installing transmission
ST-498277200			assembly to engine. • Used for preventing the torque converter from dropping off.
ST-398527700	398527700	PULLER ASSY	 Used for removing the extension case oil seal. Used for removing the bearing of reduction driven gear. Used for removing the bearing outer race of the drive pinion shaft.
ST-398673600	398673600	COMPRESSOR	Used for removing and installing snap ring of forward clutch assembly.

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	18355AA000	PULLEY WRENCH	Used for removing and installing the lock nut of
			reduction driven gear. • Used together with PIN SET (18334AA000).
P			2304 (0904).
ST18355AA000			
	18334AA000	PIN SET	Used for removing and installing the lock nut of
			reduction driven gear. • Used together with PULLEY WRENCH
			(18355AA000).
y			
ST18334AA000			
	499987003	SOCKET WRENCH (35)	Used for removing and installing the lock nut of reduction driven gear.
			- Canada Santa Gama
ST-499987003	498057300	OIL SEAL	Used for installing the extension case oil seal.
	100007000	INSTALLER	See to metaling the extension case on seal.
ST-498057300			
31 100007300	18632AA000	STAND ASSY	Used for disassembling and assembling the
			transmission.
ST18632AA000			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	498515500	REMOVER	Used for removing the bearing inner race of the
			drive pinion shaft.
ST-498515500	100055100	DI ATE	
	498255400	PLATE	Used for measuring the backlash of hypoid gear.
ST-498255400			
	498247001	MAGNET BASE	Used for measuring the backlash of differential
			bevel pinion gear.Used for measuring the backlash of hypoid
			gear. • Used together with DIAL GAUGE
			(498247100).
07,4000,47004			
ST-498247001	498247100	DIAL GAUGE	Used for measuring the backlash of differential
Q			bevel pinion gear. • Used for measuring the backlash of hypoid
			gear.
			Used together with DIAL GAUGE (498247101).
A			
ST-498247100	19675 4 4000	DIEEEDENTIAL	Lload for installing the differential side vets in a vet
	18675AA000	DIFFERENTIAL SIDE OIL SEAL	Used for installing the differential side retainer oil seal.
		INSTALLER	
ST18675AA000			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	18762AA000	COMPRESSOR	Used for disassembling and installing the multi-
		SPECIAL TOOL	plate clutch piston.
CT107C0AA000			
ST18762AA000	927720000	HOUSING BUSH-	Used for installing the oil seal.
		ING INSTALLER AND REMOVER	Use BUSHING SHAFT (927880000).
07.007700000			
ST-927720000	18763AA000	COMPRESSOR	Used for measuring the backlash of hypoid gear.
		SHAFT	3,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
The state of the s			
ST18763AA000			
3110703AA000	28399SA010	OIL SEAL PROTEC-	Used for protecting oil seal when installing front
		TOR	drive shaft.
ST28399SA010	400007110	HOLDED	a Hood for removing and installing the drive air
	498937110	HOLDER	 Used for removing and installing the drive pinion lock nut. Used as a holder to rotate gear when checking tooth contact.
ST-498937110		<u> </u>	

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	41099AA010	ENGINE SUPPORT	Used for supporting the engine.
		BRACKET	
ST41099AA010			
	41099AA020	ENGINE SUPPORT	Used for supporting the engine.
_			
patio			
ST41099AA020			
	18270KA020	SOCKET (E20)	Used for removing and installing the hypoid driven gear.
			Used for removing and installing the drive pin-
			ion shaft retainer.
ST18270KA020	398497701	SEAT	Ligad for removing and installing the bearing
	390497701	SEAI	Used for removing and installing the bearing.
ST-398497701	398177700	INSTALLER	Used for installing the ball bearing.
	303177700		Used for installing the parking gear.
			Used for installing the bearing outer race.Used for installing the plug.
ST-398177700			
31-3801/1/00		1	

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	28499TC010	PRESS SNAP RING	Used for installing the ball bearing of the trans-
	(Newly adopted tool)		mission case.
			Used for installing the bearing outer race of drive pinion shaft.
			unve pinion shan.
ST28499TC010			
	899864100	REMOVER	Used for removing and installing the ball bear-
			ing.
			• Used for removing the parking gear and transfer drive gear.
			Used for removing the bearing inner race of
			the front differential.
ST-899864100			
	498077000	REMOVER	Used for removing the bearing inner race of the
			front differential.
ST-498077000			
	18657AA010	INSTALLER	Used for installing the oil seal at shifter arm shaft portion.
			portion.
ST18657AA010	400077000	DEMOVED	Handform and the Hall of the Color
	498077600	REMOVER	Used for removing the ball bearing of drive sprocket.
ST-498077600			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	18723AA000	REMOVER	Used for removing the ball bearing of transfer
			clutch assembly.
ST18720AA000	498497300	CRANKSHAFT	Lload for stopping the drive plate rotation when
	498497300	STOPPER	Used for stopping the drive plate rotation when removing and installing the drive plate.
ST-498497300			
	399513600	INSTALLER	Used for removing the ball bearing of drive
			sprocket.
ST-399513600	499267300	CTORRED DIN	
	4992073UU	STOPPER PIN	Used for adjusting the inhibitor switch.
ST-499267300			
3. 100207000	499277100	BUSHING 1-2	Used for installing the bearing of the transmis-
		INSTALLER	sion case.Used for installing the ball bearing.
			Used for installing the bearing inner race.
ST-499277100			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	499277200	INSTALLER	Used for installing the ball bearing of the transfer
			clutch assembly.
OT 1000==000			
ST-499277200	499575400	GAUGE	Used for measuring height of end play.
	100010100	S. 10 S	great or measuring neight or end play.
OT 400575 (00			
ST-499575400	499575500	GAUGE	Used for measuring height of end play.
	.000.000	G. 10 G	Cook is incooking noight or one play.
07.400			
ST-499575500	499787500	ADAPTER	Used for removing and installing the drive pin-
	1007.07.000		ion shaft lock nut.
			Used for measuring the preload of the drive pinion shaft.
			Used for measuring the backlash of hypoid
			gear.
ST-499787500	499575600	GAUGE	Used for measuring height of end play.
	+03070000	anoaL	ossa for mousuring neight of end play.
ST-499575600			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST-499787700	499787700	WRENCH	 Used for removing and installing the drive pinion shaft lock nut. Used for measuring the preload of the drive pinion shaft. Used for measuring the backlash of hypoid gear.
01 100707700	499757002	INSTALLER	Used for removing the bearing of reduction
ST-499757002			driven gear. • Used for installing the parking gear. • Used for installing the transfer drive gear.
31-433737002	899580100	INSTALLER	Used for installing the collar of reduction driven
ST-899580100			gear. • Used for installing the ball bearing of the transfer driven gear. • Used for installing the bearing inner race of drive pinion shaft.
	498077300	REMOVER	Used for installing the ball bearing of reduction
ST-498077300			driven gear.
	499755602	PRESS SNAP RING	Used for installing the oil seal. Used for installing the hall bearing and roller.
ST-499755602			 Used for installing the ball bearing and roller bearing. Used for installing the plug.

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ILLOUTIATION	498077400	REMOVER	Used for removing the ball bearing of transfer
			driven gear.
ST-498077400			
	20099AE020	INSTALLER	Used for installing the bearing outer race of drive
			pinion shaft.
ST20099AE020			
3120099AE020	927130000	EXTENSION DRIVE	Used for installing the bearing inner race of drive
		SHAFT	pinion shaft.
ST-927130000		0.15.51.55	
	1B022XU0	SUBARU SELECT MONITOR III KIT	Used for troubleshooting the electrical system.
ST1B022XU0			

2. GENERAL TOOL

TOOL NAME	REMARKS	
Circuit tester	Used for measuring resistance and voltage.	
Thickness gauge	Used for measuring the clearance in reverse brake, forward clutch and transfer clutch.	
Caliper	Used for measuring the dimension.	
Spring scale	Used for measuring the starting torque of the drive pinion.	
TORX® bit T70	Used for removing and installing differential gear oil drain plug.	
STRAIGHT PIN REMOVER	Used for removing and installing the straight pin.	
Push/pull gauge	Used for measuring clutch clearance.	
Angle gauge	Used for installing the drive plate.	