A: SPECIFICATION

1. TORQUE CONVERTER

Model		HEV
Туре		Symmetric, 3-element, single stage, 2-phase torque converter
Stall torque ratio		2.07
Nominal	mm (in)	236 (9.29)
Stall speed (at sea level)	r/min	2,000 — 2,750 (D range) 1,800 — 2,500 (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 set
Multi-plate brake	1 set

4. OUTPUT CLUTCH

Multi-plate clutch	1 set
Control method	Electronic hydraulic type

5. TRANSMISSION GEAR RATIO

Forward	3.420 — 0.544
Rev	3.502

6. PLATE

Number of forward clutch drive plates	3
Number of reverse brake drive plates	4
Number of output clutch drive plates	7

7. 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

8. 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 FLUID LINEARTRONIC II
Fluid	CAUTION: Always use specified CVTF. Using other fluid will cause malfunction.
Fluid capacity L (US qt, Imp qt)	13.67 — 14.17 (14.4 — 15.0, 12.0 — 12.5)
Lubrication system	Forced feed lubrication with oil pump

9. COOLING AND HARNESS

Cooling system	CVTF cooler (with warmer feature)
Inhibitor switch harness	16 poles
Transmission harness	12 poles
Drive motor harness	20 poles

10.DRIVE MOTOR

Kind	Three-phase AC synchronous motor
Rated voltage V	100

11.TRANSFER

Transfer type	Multi-plate transfer (MP-T)
Number of transfer clutch drives & driven plates	5
Control method	Electronic hydraulic type
Reduction gear ratio	1.000 (43/43)

12.REDUCTION GEAR RATIO

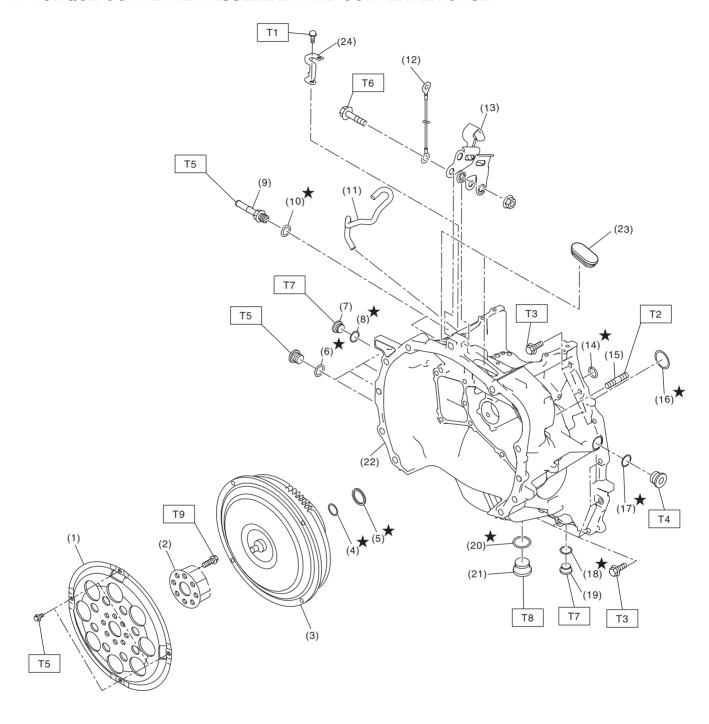
	Front final reduction gear ratio	3.700
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13.RECOMMENDED GEAR OIL

Lubrication oil	SUBARU GEAR OIL EXTRA MT or equivalent
Front differential oil capacity	1.3 — 1.4 (1.4 — 1.5, 1.1 — 1.2)
L (US qt, Imp qt)	1.5 — 1.4 (1.4 — 1.5, 1.1 — 1.2)

B: COMPONENT

1. TORQUE CONVERTER ASSEMBLY AND CONVERTER CASE

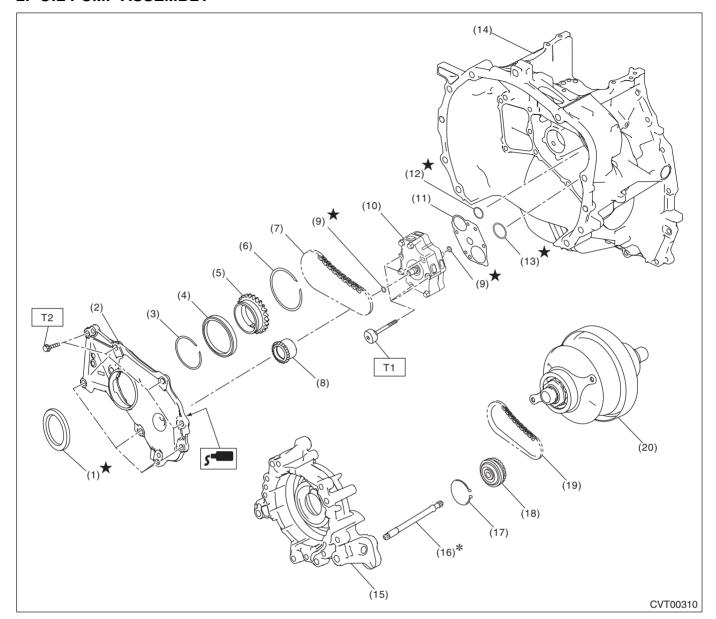


CVT00309

CONTINUOUSLY VARIABLE TRANSMISSION

(1)	Drive plate	(13)	Pitching stopper bracket	Tight	ening torque: N·m (kgf-m, ft-lb)
(2)	Reinforcement drive plate	(14)	O-ring	T1:	7 (0.7, 5.2)
(3)	Torque converter ASSY	(15)	Stud bolt	T2:	18 (1.8, 13.3)
(4)	O-ring	(16)	O-ring	T3:	22 (2.2, 16.2)
(5)	Seal ring	(17)	O-ring	T4:	22.5 (2.3, 16.6)
(6)	O-ring	(18)	Gasket	T5:	25 (2.5, 18.4)
(7)	Front differential gear oil filler plug	(19)	Overflow drain plug	T6:	41 (4.2, 30.2)
(8)	O-ring	(20)	Gasket	T7:	50 (5.1, 36.9)
(9)	Oil cooler pipe	(21)	Front differential gear oil drain plug	T8:	70 (7.1, 51.6)
(10)	O-ring	(22)	Converter case	T9:	<ref. cvt(th58a)-176,<br="" to="">INSTALLATION, Drive Plate.></ref.>
(11)	Air breather hose	(23)	Rubber cap		
(12)	Transmission radio ground cord	(24)	Drive motor harness stay		

2. OIL PUMP ASSEMBLY



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

- (9) O-ring
- (10) Oil pump ASSY
- (11) Plate
- (12) O-ring (small)
- (13) O-ring (large)
- (14) Converter case
- (15) Reverse brake housing
- (16) Oil pump shaft

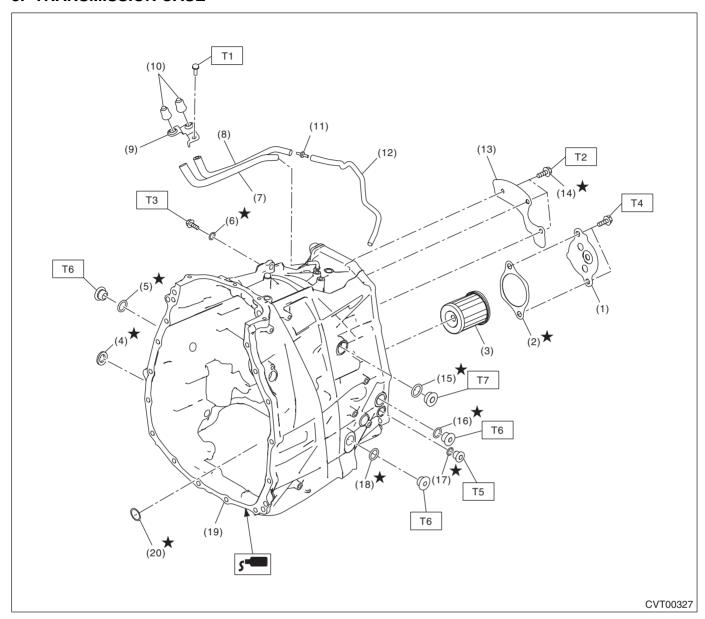
- (17) Snap ring
- (18) Oil pump sprocket rear
- (19) Oil pump chain rear
- (20) Primary pulley ASSY

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) Air breather hose
- (8) Air breather hose
- (9) Bracket
- (10) Air breather cap

- (11) Hose connector
- (12) Air breather hose
- (13) Oil stopper plate
- (14) Micro-encapsulated bolt
- (15) Gasket
- (16) O-ring
- (17) O-ring
- (18) Gasket
- (19) Transmission case
- (20) Seal ring

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 5 (0.5, 3.7)

T2: 9 (0.9, 6.6)

T3: 13 (1.3, 9.6)

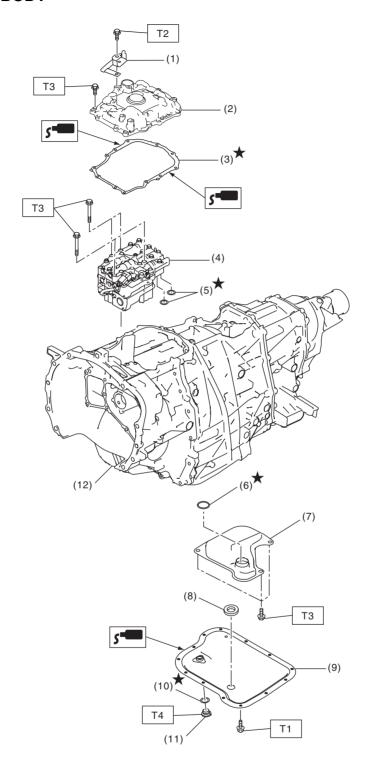
T4: 17 (1.7, 12.5)

T5: 25 (2.5, 18.4)

T6: 50 (5.1, 36.9)

T7: 60 (6.1, 44.3)

4. CONTROL VALVE BODY



CVT00311

- (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)

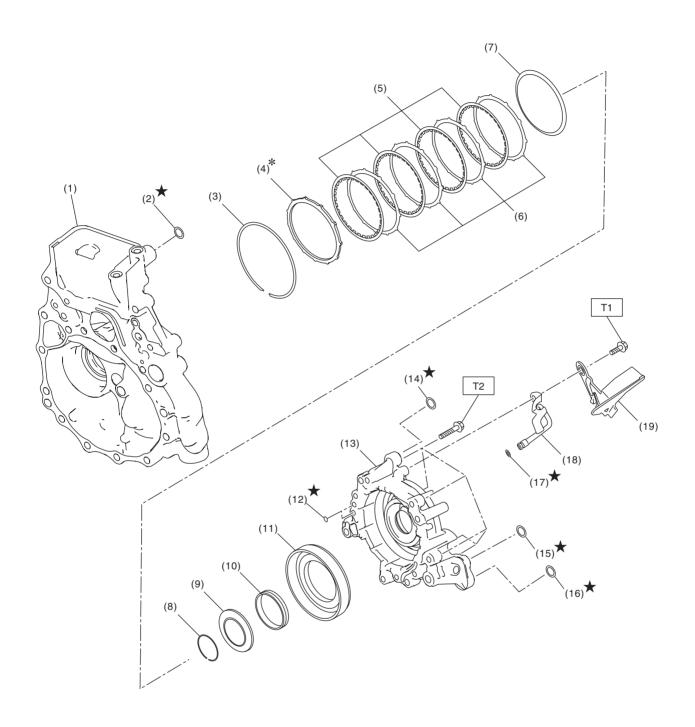
T1: 5 (0.5, 3.7)

T2: 7 (0.7, 5.2)

T3: 9 (0.9, 6.6)

T4: 31 (3.2, 22.9)

5. REVERSE BRAKE ASSEMBLY

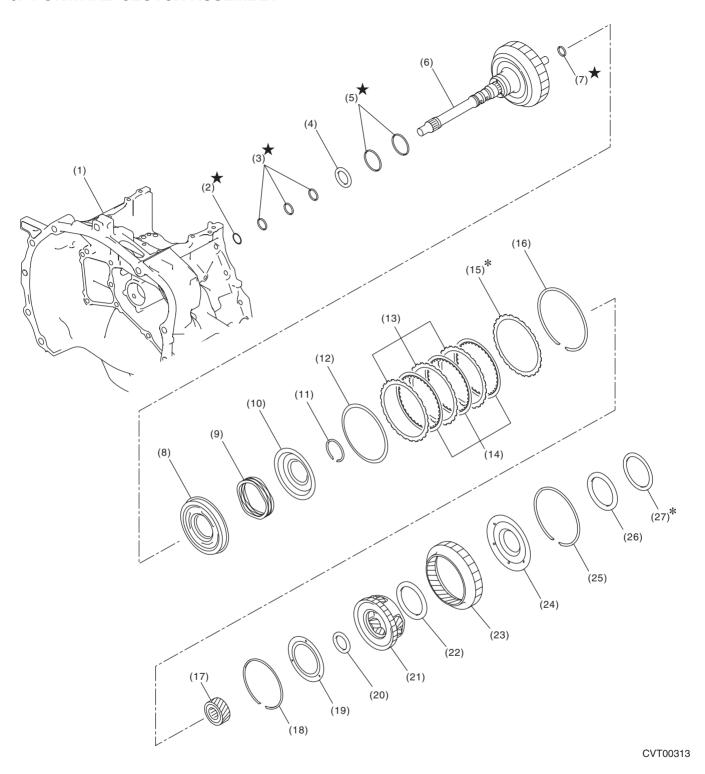


CVT00312

CONTINUOUSLY VARIABLE TRANSMISSION

(1)	Drive pinion retainer	(9)	Spring retainer	(17)	O-ring
(2)	O-ring	(10)	Return spring	(18)	Lubrication pipe
(3)	Snap ring	(11)	Reverse brake piston	(19)	Oil guide
(4)	Retaining plate	(12)	O-ring		
(5)	Drive plate	(13)	Reverse brake housing	Tight	tening torque: N·m (kgf-m, ft-lb)
(5) (6)	Drive plate Driven plate	(13) (14)	Reverse brake housing O-ring	•	tening torque: N·m (kgf-m, ft-lb) 16 (1.6, 11.8)
` '	•	` '	· ·	T1:	• • • • •

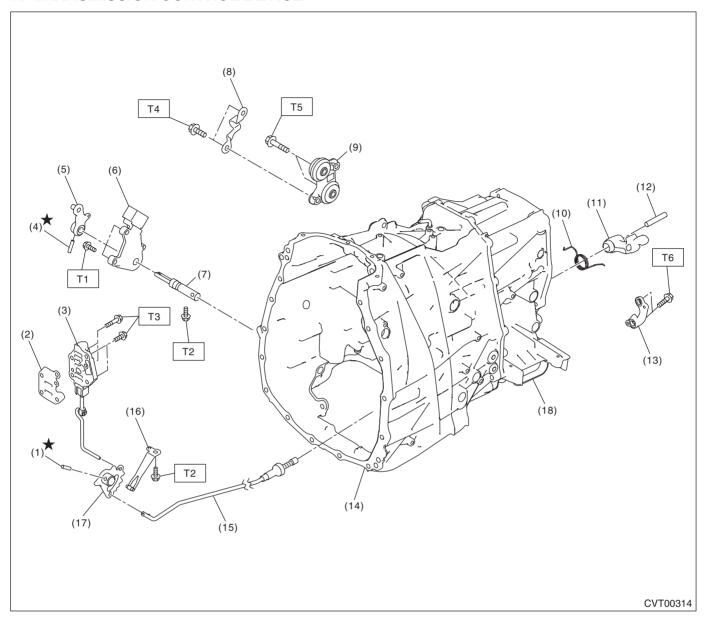
6. FORWARD CLUTCH ASSEMBLY



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
- (18) Drive motor ASSY

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)

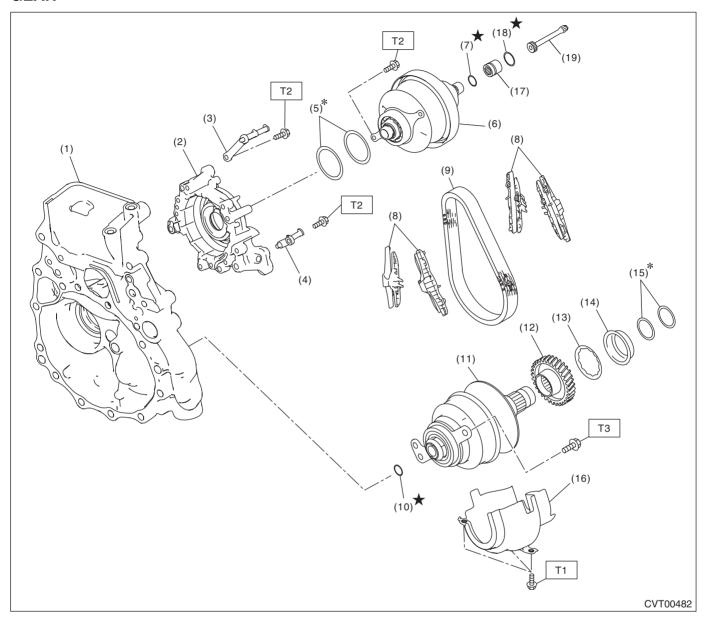
T4: 18 (1.8, 13.3)

T5: 25 (2.5, 18.4)

T6: <Ref. to CVT(TH58A)-213, INSTALLATION, Transmission

Control Device.>

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) O-ring
- (8) Chain guide

- (9) Variator chain
- (10) Seal ring
- (11) Secondary pulley ASSY
- (12) Reduction drive gear
- (13) Dish plate
- (14) Spring retainer
- (15) Reduction gear shim
- (16) Oil baffle

- (17) Sleeve
- (18) O-ring
- (19) Intermediate shaft

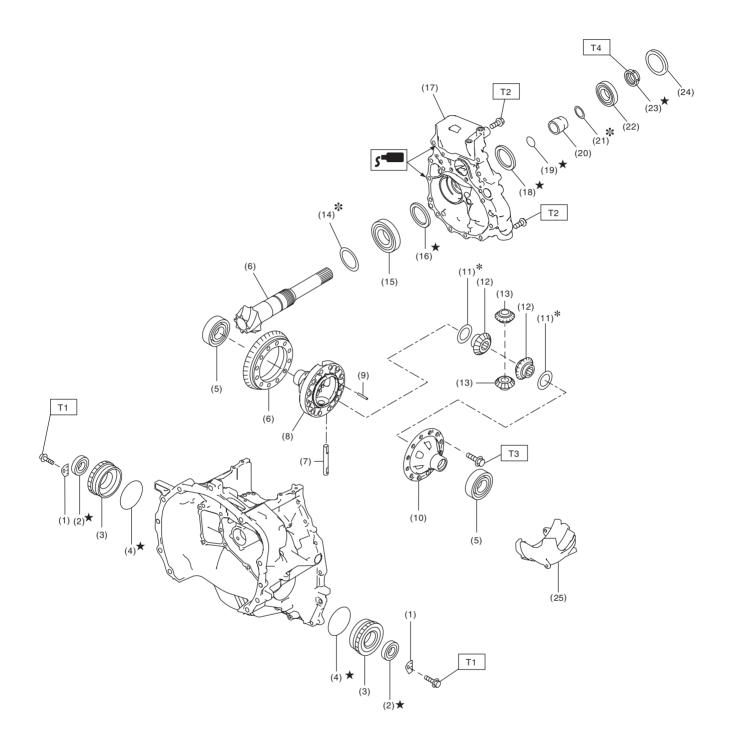
Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 16 (1.6, 11.8)

T2: 21 (2.1, 15.5)

T3: 67.5 (6.9, 49.8)

9. FRONT DIFFERENTIAL GEAR



CVT00316

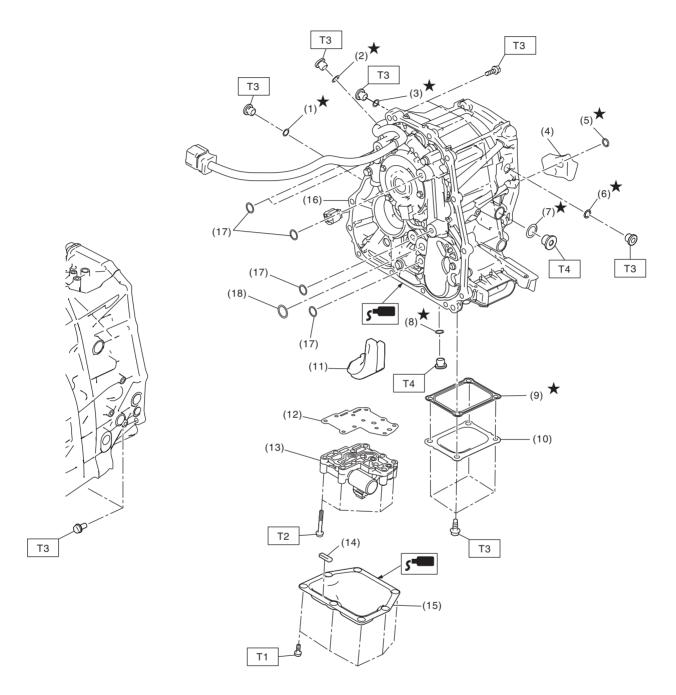
CONTINUOUSLY VARIABLE TRANSMISSION

(1)	Lock plate	(12)	Differential bevel gear (23) Lock nut		Lock nut
(2)	Oil seal	(13)	Differential bevel pinion (24) Plug		Plug
(3)	Differential side retainer	(14)	Drive pinion shim	(25)	Oil baffle
(4)	O-ring	(15)	Taper roller bearing		
(5)	Taper roller bearing	(16)	Oil seal	Tight	ening torque: N·m (kgf-m, ft-lb)
(6)	Drive pinion gear set	(17)	Drive pinion retainer	T1:	25 (2.5, 18.4)
(7)	Pinion shaft	(18)	Oil seal	T2:	43 (4.4, 31.7)
(8)	Differential case RH	(19)	O-ring	T3:	64 (6.5, 47.2)
(9)	Straight pin	(20)	Drive pinion spacer	T4:	<ref. cvt(th58a)-331,<br="" to="">ASSEMBLY, Drive Pinion Shaft Assembly.></ref.>
(10)	Differential case LH	(21)	Drive pinion washer		

(22) Taper roller bearing

(11) Washer

10.DRIVE MOTOR ASSY

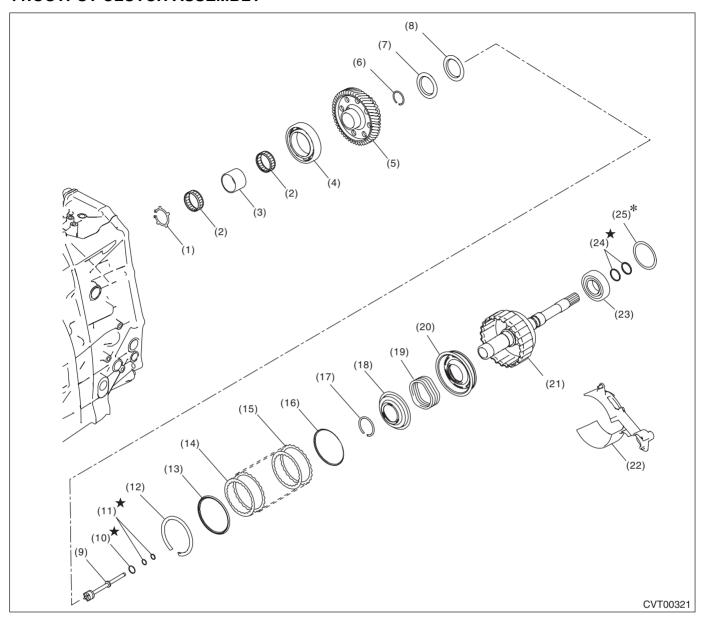


CVT00483

CONTINUOUSLY VARIABLE TRANSMISSION

(1)	O-ring	(9)	Gasket	(17) O-ring
(2)	O-ring	(10)	Power connect cover	(18) O-ring
(3)	O-ring	(11)	Oil spacer	
(4)	Oil spacer	(12)	Separator plate	Tightening torque: N·m (kgf-m, ft-lb)
(5)	O-ring	(13)	Output clutch control valve body	T1: 5 (0.5, 3.7)
(6)	O-ring	(14)	Magnet	T2: 9 (0.9, 6.6)
(7)	O-ring	(15)	Oil pan	T3: 25 (2.5, 18.4)
(8)	O-ring	(16)	Drive motor case ASSY	T4: 50 (5.1, 36.9)

11.OUTPUT CLUTCH ASSEMBLY

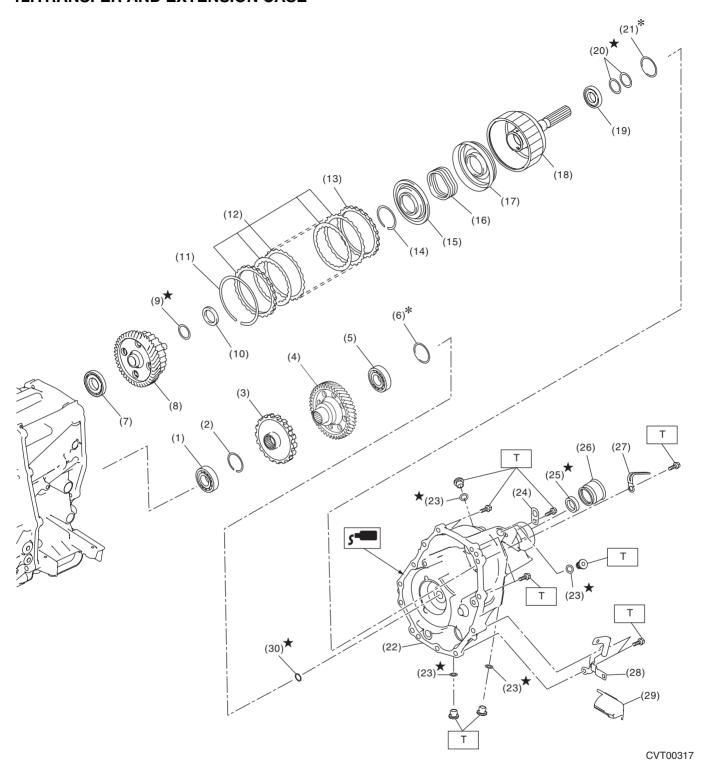


- Snap ring (1)
- (2) Needle bearing
- (3) Reduction driven gear bushing
- Ball bearing (4)
- Reduction driven gear (5)
- Snap ring (6)
- Thrust bearing (7)
- (8) Thrust washer
- (9) Oil pipe

- (10) O-ring
- (11) O-ring
- (12)Snap ring
- Retaining plate (13)
- Drive plate (14)
- Driven plate (15)
- Dish plate (16)
- (17)Snap ring
- (18)Balance chamber

- Clutch piston return spring (19)
- Clutch piston (20)
- (21)Driven shaft
- Oil baffle (22)
- Ball bearing (23)
- Seal ring (24)
- Reduction driven gear shim (25)

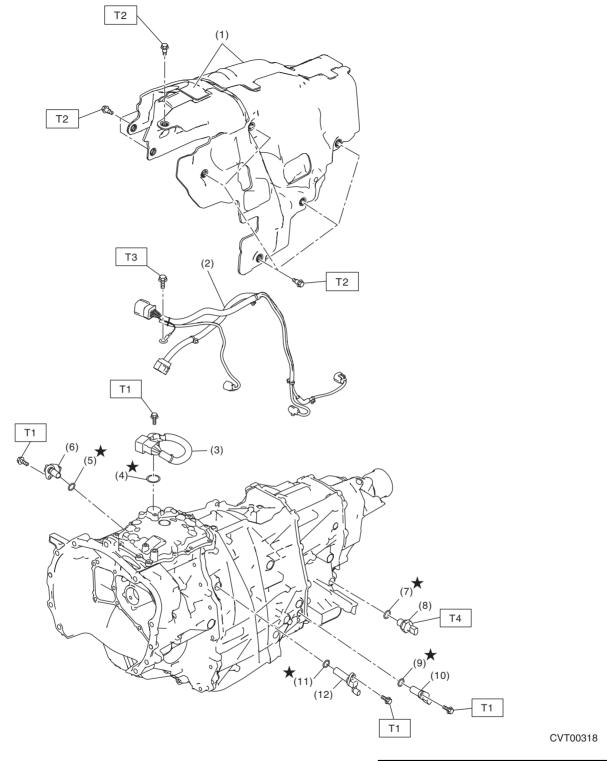
12.TRANSFER AND EXTENSION CASE



CONTINUOUSLY VARIABLE TRANSMISSION

(1)	Ball bearing	(12)	Transfer clutch plate set		O-ring
(2)	Snap ring	(13)	Pressure plate (Transmission hanger
(3)	Parking gear	(14)	Snap ring	(25)	Oil seal
(4)	Transfer drive gear	(15)	Transfer clutch piston seal (Dust cover
(5)	Ball bearing	(16)	Transfer clutch piston return spring	(27)	Clip
(6)	Transfer drive gear shim	(17)	Transfer clutch piston	(28)	Harness bracket
(7)	Ball bearing	(18)	Rear drive shaft	(29)	Sensor cover
(8)	Transfer driven gear	(19)	Ball bearing	(30)	Seal ring
(9)	Seal ring	(20)	Seal ring		
(10)	Thrust bearing	(21)	Transfer driven gear shim	Tight	ening torque: N·m (kgf-m, ft-lb)
(11)	Snap ring	(22)	Extension case	T:	25 (2.5, 18.4)

13.TRANSMISSION HARNESS AND SENSOR



- (1) Transmission case cover
- (2) Inhibitor harness
- (3) Transmission harness
- (4) O-ring
- (5) O-ring
- (6) Front wheel 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)

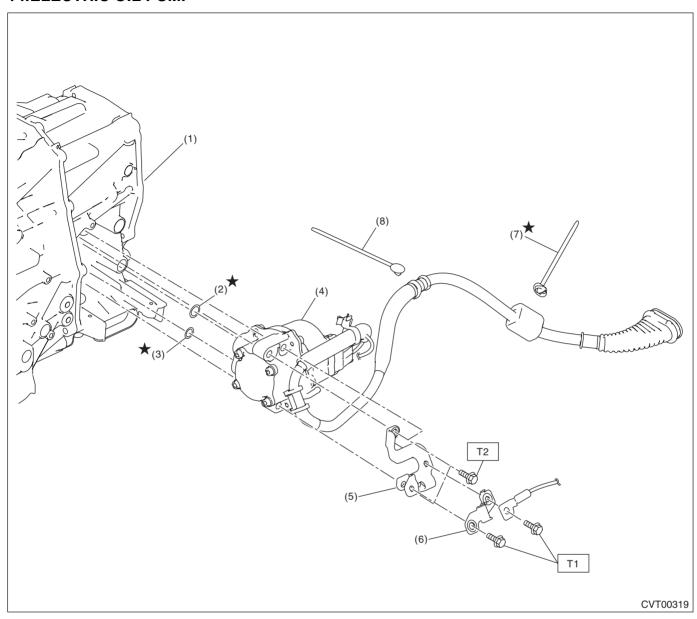
T1: 7 (0.7, 3.7)

T2: 8 (0.8, 5.9)

T3: 14 (1.4, 10.3)

T4: 39 (4.0, 28.8)

14.ELECTRIC OIL PUMP



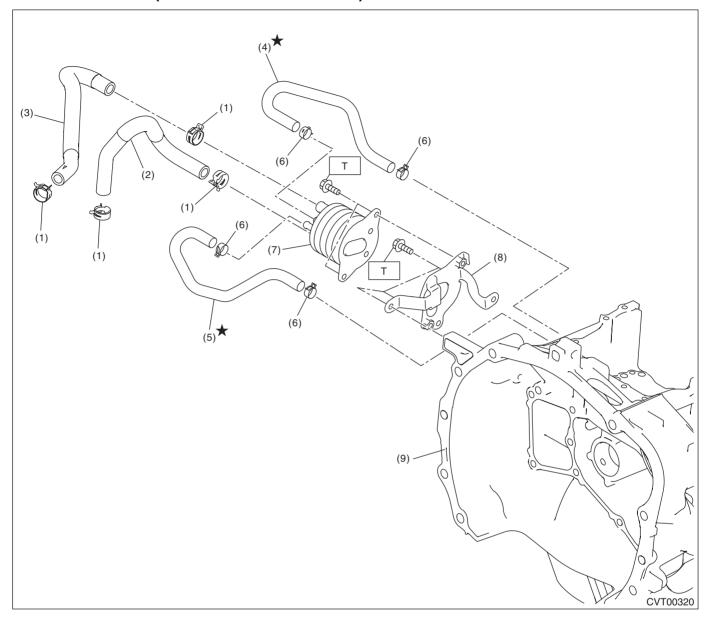
- (1) Drive motor ASSY
- (2) O-ring
- (3) O-ring
- (4) Electric oil pump ASSY
- (5) Harness bracket
- (6) Harness bracket COMP
- (7) Electric oil pump harness clip
- (8) Electric oil pump harness clip

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 8 (0.8, 5.2)

T2: 22 (2.2, 16.2)

15.CVTF COOLER (WITH WARMER FEATURE)

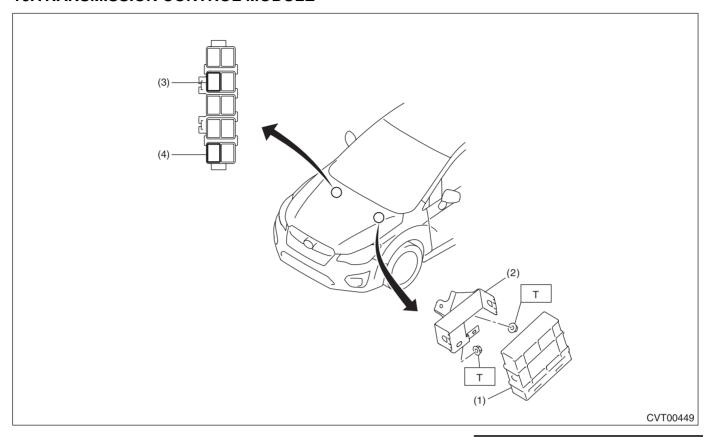


- (1) Hose clamp
- (2) Engine coolant inlet hose
- (3) Engine coolant outlet hose
- (4) CVTF cooler outlet hose
- (5) CVTF cooler inlet hose
- (6) Hose clamp
- (7) CVTF cooler (with warmer feature)
- (8) CVTF cooler bracket
- (9) Converter case

Tightening torque: N·m (kgf-m, ft-lb)

T: 23 (2.3, 17.0)

16.TRANSMISSION CONTROL MODULE



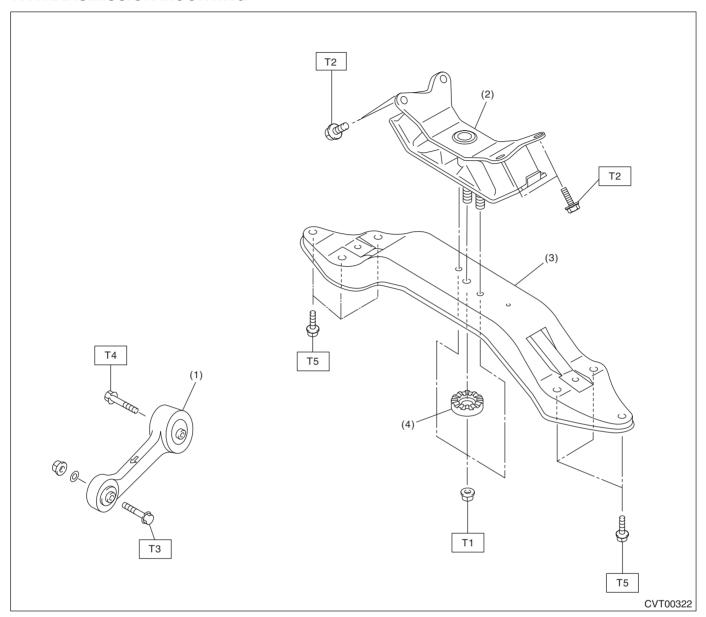
- (1) Transmission control module (TCM)
- (3) Self shut relay

(2) TCM bracket

(4) R range relay

Tightening torque: N·m (kgf-m, ft-lb)
T: 7.5 (0.8, 5.5)

17.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

- The hybrid system includes a high voltage circuit. Mishandling could cause accidents such as electric shock or leak. Always check "CAUTION (HYBRID SYSTEM)" and perform the proper operation. <Ref. to PC-7, CAUTION (HYBRID SYSTEM), Precaution.>
- Wear appropriate work clothing, including insulated gloves, 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 main control valve body.
- Do not place the oil pan with its inner side facing up until it is installed, to prevent intrusion of foreign matter into the output clutch 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.
- 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 and clean the area.
- 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.
- Be careful of handling the oil seal, O-ring and gasket. If the contact surface of them is damaged, oil leakage may occur.
- When replacing the taper roller bearing, replace the outer race and inner race as a set.
- When replacing the hypoid gear, replace the hypoid gear and drive pinion shaft as a set.
- Replace the bolts if the seating surface or the thread surface is excessively rusted.

D: PREPARATION TOOL

1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST18769AA010	18769AA010	EXPANDER PULLEY	Used for removing and installing the secondary pulley assembly.
ST18767AA020	18767AA020	BEARING REMOVER	Used for removing the ball bearing of transfer clutch assembly and the ball bearing of transfer driven gear.
ST18762AA010	18762AA010	COMPRESSOR SPECIAL TOOL	Used for removing and installing snap ring of forward clutch assembly and output 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).
0110001701010	18681AA000	PRESSURE	Used for measuring the hydraulic pressure of
		GAUGE ADAPTER	transfer clutch and output clutch pressure. NOTE: Used together with the genuine O-ring (part No. 806911080).
ST18681AA000	18801AA000	OIL PRESSURE	Used for measuring the hydraulic pressure of
ST18801AA000		GAUGE ASSY	secondary pressure (line pressure) and output clutch pressure.
	498575400	OIL PRESSURE	Used for measuring the transfer clutch hydraulic
ST-498575400		GAUGE ASSY	pressure.
	498897800	OIL PRESSURE ADAPTER	Used for measuring the output clutch hydraulic pressure.
ST-498897800		ADALIEN	prossure.

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	498897200	OIL PRESSURE GAUGE ASSY	Used for measuring the transfer clutch hydraulic pressure.
ST-498897200			
	18658AA020	WRENCH COMPL RETAINER	Used for removing and installing the differential side retainer.
ST18658AA020	498277200	STOPPER SET	Used for removing and installing transmission
			assembly to engine.Used for preventing the torque converter from
			dropping off.
ST-498277200	398527700	PULLER ASSY	Used for removing the extension case oil seal.
			• Used for removing the bearing outer race of the drive pinion shaft.
20			
8 700			
₩ ₩			
ST-398527700	398673600	COMPRESSOR	Used for removing and installing snap ring of for-
			ward clutch assembly and output clutch.
ST-398673600			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	498057300	OIL SEAL	Used for installing the extension case oil seal.
ST-498057300		INSTALLER	
	18632AA000	STAND ASSY	Used for disassembling and assembling the
ST18632AA000			transmission.
0110002A0000	498515500	REMOVER	Used for removing the bearing inner race of the
ST-498515500			drive pinion shaft.
	498255400	PLATE	Used for measuring the backlash of hypoid gear.
ST-498255400			
- Aro	498247001	MAGNET BASE	Used for measuring the backlash of differential bevel pinion gear.
ST-498247001			Used for measuring the backlash of hypoid gear. Used together with DIAL GAUGE (498247100).

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST-498247100	498247100	DIAL GAUGE	Used for measuring the backlash of differential bevel pinion gear. Used for measuring the backlash of hypoid gear. Used together with DIAL GAUGE (498247101).
ST18675AA000	18675AA000	DIFFERENTIAL SIDE OIL SEAL INSTALLER	Used for installing the differential side retainer oil seal.
ST18762AA001	18762AA001	COMPRESSOR SPECIAL TOOL	Used for disassembling and installing the multi-plate clutch piston. COMPRESSOR SPECIAL TOOL (18762AA000) can also be used.
ST-927720000	927720000	HOUSING BUSHING INSTALLER AND REMOVER	Used for installing the oil seal. Use BUSHING SHAFT (927880000).
ST18763AA000	18763AA000	COMPRESSOR SHAFT	Used for measuring the backlash of hypoid gear.

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ILLOSTIATION	28399SA010	OIL SEAL	Used for protecting oil seal when installing front
		PROTECTOR	drive shaft.
ST28399SA010			
C120000071010	498937110	HOLDER	Used for removing and installing the drive pin-
			ion lock nut. • Used as a holder to rotate gear when checking
			tooth contact.
ST-498937110			
	41099AA012 (Newly adopted tool)	ENGINE SUPPORT BRACKET	Used for supporting the engine.ENGINE SUPPORT BRACKET (41099AA011)
	(Newly adopted tool)	BRACKET	can also be used.
To e			
ST41099AA012	4400044000	ENOINE OUDDODE	11 16
	41099AA020	ENGINE SUPPORT	Used for supporting the engine.
The state of the s			
The state of the s			
07//000			
ST41099AA020	18270KA020	SOCKET (E20)	Used for removing and installing the hypoid
			driven gear.
			• Used for removing and installing the drive pinion shaft retainer.
ST18270KA020			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	398497701	SEAT	Used for removing and installing the bearing.
ST-398497701	398177700	INSTALLER	Used for installing the ball bearing.
	390177700	INGIALLIN	Used for installing the bearing outer race.
			Used for installing the plug.
ST-398177700			
	28499TC010	PRESS SNAP RING	Used for installing the bearing outer race of drive pinion shaft.
			pinon onate.
ST28499TC010			
	899864100	REMOVER	Used for removing and installing the ball bear-
			ing. • Used for removing the transfer drive gear.
			Used for removing the bearing inner race of
			the front differential.
ST-899864100			
C1 000004100	498077000	REMOVER	Used for removing the bearing inner race of the
			front differential.
ST-498077000			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	18657AA010	INSTALLER	Used for installing the oil seal at shifter arm shaft
			portion.
ST18657AA010	498077600	REMOVER	Used for removing the ball bearing of drive
	100017000		sprocket.
ST-498077600			
	18723AA000	REMOVER	Used for removing the ball bearings of transfer clutch assembly and transfer driven gear.
			godi.
ST18723AA000			
3.773.23.31000	498497300	CRANKSHAFT	Used for stopping the drive plate rotation when
		STOPPER	removing and installing the drive plate.
ST-498497300	399513600	INSTALLER	Used for removing the ball bearing of drive
	220010000		sprocket.
ST-399513600			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	499267300	STOPPER PIN	Used for adjusting the inhibitor switch.
ST-499267300	499277100	BUSHING 1-2	Used for installing the ball bearing.
	400217100	INSTALLER	Used for installing the bearing inner race.
ST-499277100			
	18651AA000	INSTALLER	Used for installing the ball bearing.
ST18651AA000			
	499575400	GAUGE	Used for measuring height of end play.
ST-499575400			
	499575500	GAUGE	Used for measuring height of end play.
OT 400F7FF00			
ST-499575500		1	

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST-499787500	499787500	ADAPTER	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 400707000	499575600	GAUGE	Used for measuring height of end play.
ST-499575600	499787700	WRENCH	Used for removing and installing the drive pin-
ST-499787700	100707700	WILLION I	ion shaft lock nut. Used for measuring the preload of the drive pinion shaft. Used for measuring the backlash of hypoid gear.
ST-499757002	499757002	INSTALLER	 Used for removing the bearing of reduction driven gear. Used for installing the transfer drive gear.
ST-899580100	899580100	INSTALLER	Used for installing the bearing inner race of drive pinion shaft.

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	498077300	REMOVER	Used for removing the ball bearings of the reduc-
			tion driven gear and output clutch assembly.
ST-498077300			
31-4300//300	18767AA000	REMOVER	Used for removing the parking gear.
ST18767AA000			
311070774000	499755502	PRESS SNAP RING	Used for installing the drive sprocket ball bear-
			ing.
ST-499755502			
	499755602	PRESS SNAP RING	Used for installing the oil seal.Used for installing the ball bearing and roller
			bearing.
			 Used for installing the plug. Used for installing the parking gear.
ST-499755602			
	20099AE020	INSTALLER	Used for installing the bearing outer race of drive pinion shaft.
			F5
ST20099AE020			

CONTINUOUSLY VARIABLE TRANSMISSION

		DESCRIPTION	REMARKS
ST-927130000	927130000	EXTENSION DRIVE SHAFT	Used for installing the bearing inner race of drive pinion shaft.
ST1B022XU0	1B022XU0	SUBARU SELECT MONITOR III KIT	Used for setting of each function and trouble-shooting for electrical system. NOTE: For detailed operation procedures of Subaru Select Monitor III, refer to "PC application help for Subaru Select Monitor".

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, output clutch and transfer clutch.	
Oil pressure gauge	Used for measuring the electric oil pump hydraulic pressure.	
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.	
Insulated gloves	Used for high voltage system operation.	
Insulated tools	Used for high voltage system operation.	
Insulating tape	Used for insulation by wrapping high voltage system cable connectors and terminals with it.	
Insulation multimeter	Used for measuring high voltage system resistance and voltage.	