### A: SPECIFICATION

### **1. TORQUE CONVERTER**

Model	DOHC non-turbo
Туре	Symmetric, 3-element, single stage, 2-phase torque converter
Stall torque ratio	2.62
Nominal mm (in)	236 (9.29)
Stall speed (at sea level) r/min	2,150 — 2,800 (D range) 1,950 — 2,550 (R range)
One-way clutch	Sprag type one-way clutch

#### 2. OIL PUMP

Туре		Internal gear pump
Driving method		Driven by chain
	Inner rotor	8
Number of teeth	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. TRANSMISSION GEAR RATIO

XV model	XV model	3.581 — 0.570
Forward	Except for XV model	3.420 — 0.544
XV model	XV model	3.667
Rev	Except for XV model	3.502

### 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 $\leftarrow$ 2nd $\leftarrow$ 3rd $\leftarrow$ 4th $\leftarrow$ 5th $\leftarrow$ 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 FLUID LINEARTRONIC II
Fluid	CAUTION: Always use specified CVTF. Using other fluid will cause malfunction.
Fluid capacity L (US qt, Imp qt)	11.68 — 12.18 (12.3 — 12.9, 10.3 — 10.7)
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**

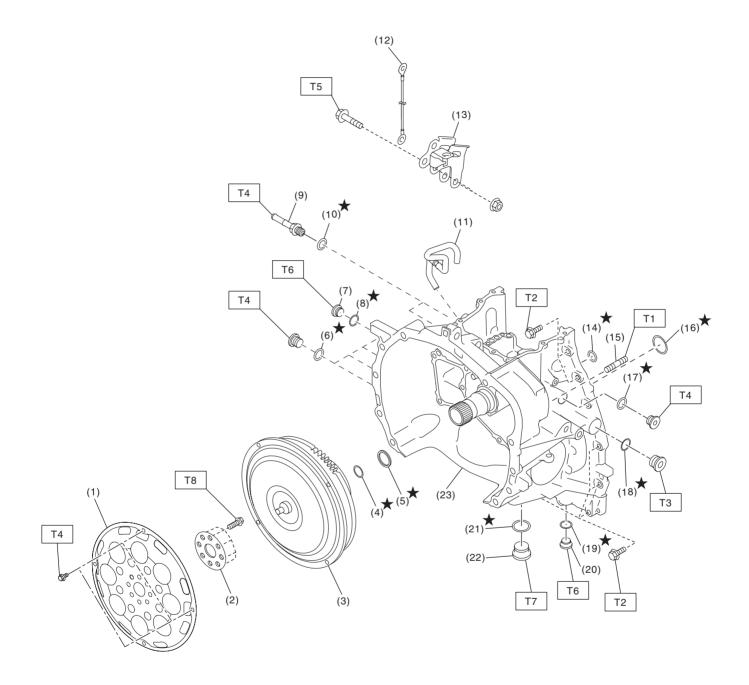
Front final reduction gear ratio	3.700
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#### **11.RECOMMENDED GEAR OIL**

Lubrication oil	SUBARU GEAR OIL EXTRA MT or equivalent
Front differential oil capacity L (US qt, Imp qt	1.14 — 1.24 (1.2 — 1.3, 1.0 — 1.1)

### **B: COMPONENT**

### 1. TORQUE CONVERTER ASSEMBLY AND CONVERTER CASE



CVT00638

- (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

Converter case

(21) Gasket

(23)

- (22) Front differential gear oil drain plug
- 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)

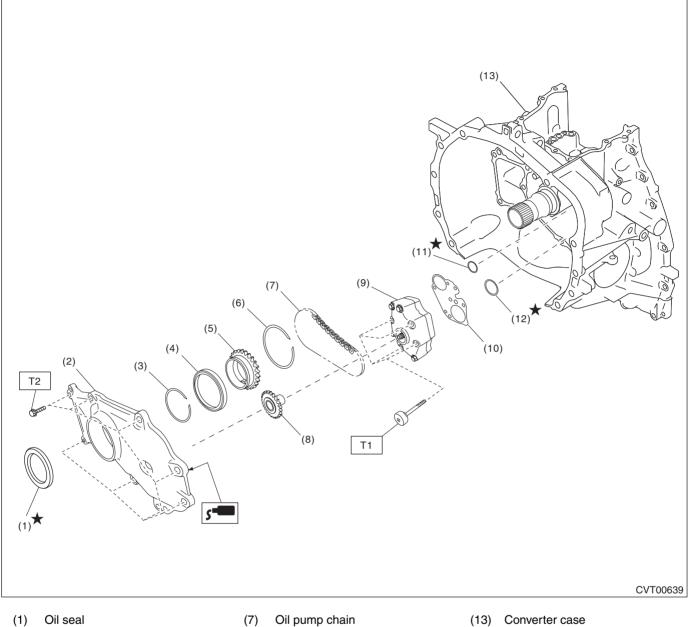
   T6:
   50 (5.1, 36.9)

   T7:
   70 (7.1, 51.6)

   T8:
   <Ref. to CVT(TR580)-163, INSTALLATION, Drive Plate.>

#### CONTINUOUSLY VARIABLE TRANSMISSION

#### 2. OIL PUMP ASSY



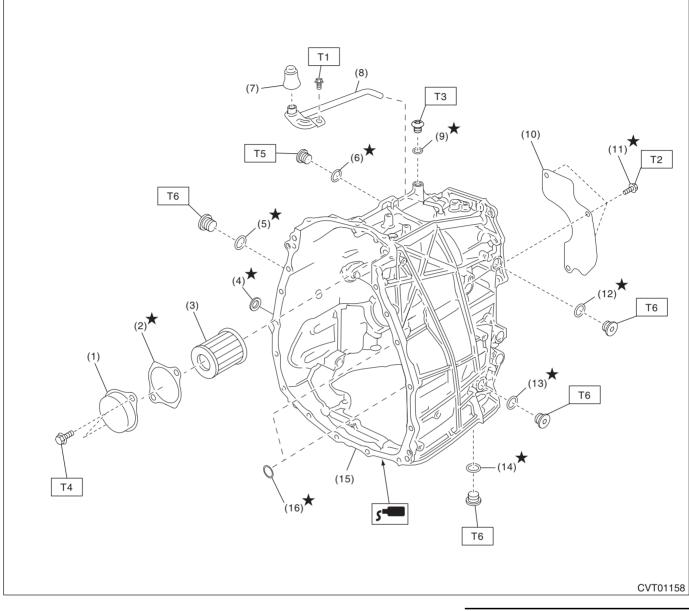
- Oil pump chain cover (2)
- (3) Snap ring
- Ball bearing (4)
- Drive sprocket (5)
- (6) Snap ring

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

(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

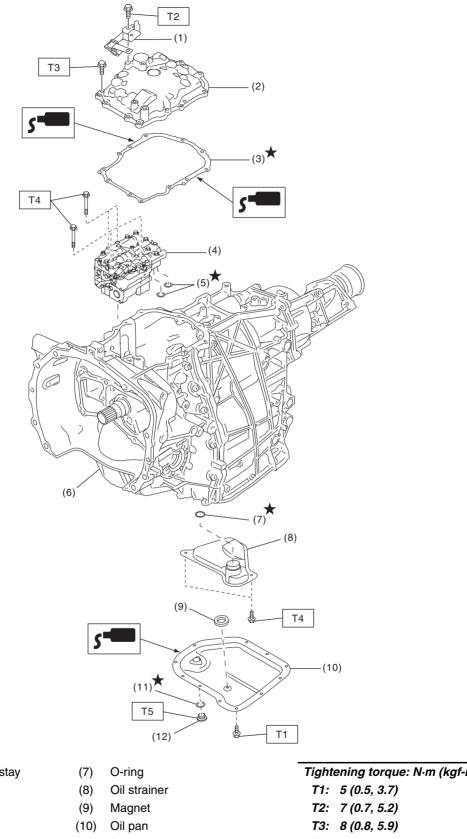


- (1) CVTF filter cover
- (2) Gasket
- (3) CVTF filter
- (4) Oil seal
- (5) Gasket
- (6) O-ring
- (7) Air breather cap
- (8) Air breather hose

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

Tight	ening torque: N⋅m (kgf-m, ft-lb)
T1:	5 (0.5, 3.7)
T2:	9 (0.9, 6.6)
Т3:	13 (1.3, 9.6)
T4:	17 (1.7, 12.5)
T5:	25 (2.5, 18.4)
T6:	50 (5.1, 25.8)

### 4. CONTROL VALVE BODY

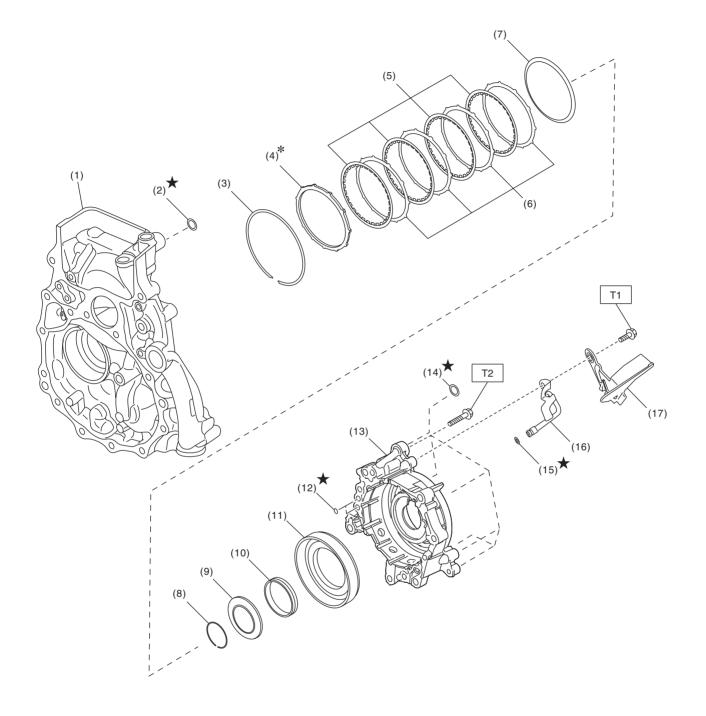


- Transmission harness stay (1)
- (2) Valve cover
- (3) Gasket
- Control valve body (4)
- O-ring (5)
- Transmission ASSY (6)
- (11) Gasket
- (12)
  - CVTF drain plug

Tightening torque: N·m (kgf-m, ft-lb)				
T1:	5 (0.5, 3.7)			
T2:	7 (0.7, 5.2)			
Т3:	8 (0.8, 5.9)			
T4:	9 (0.9, 6.6)			
T5:	31 (3.2, 22.9)			

CVT01159

#### 5. REVERSE BRAKE ASSEMBLY



- (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

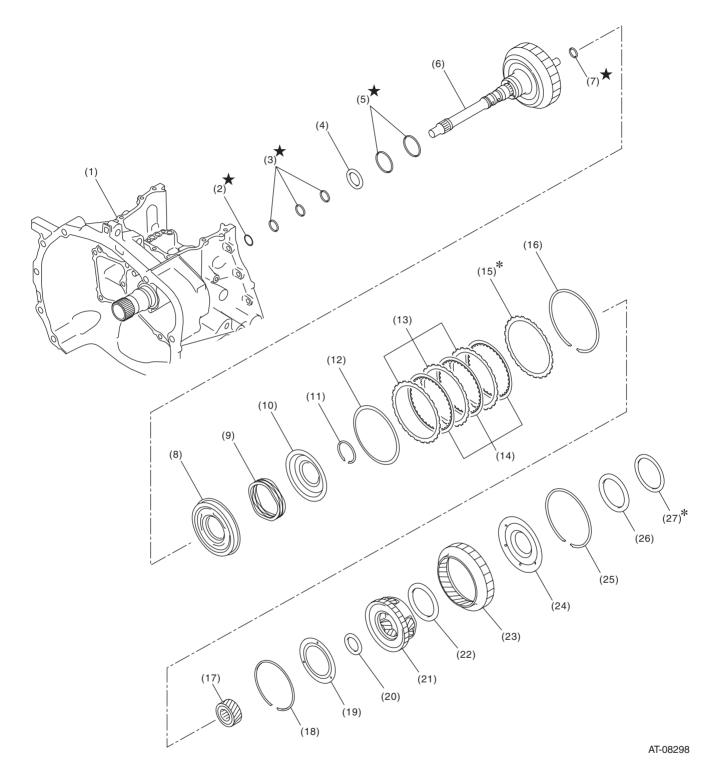
### CVT(TR580)-9

- CVT00661
- (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



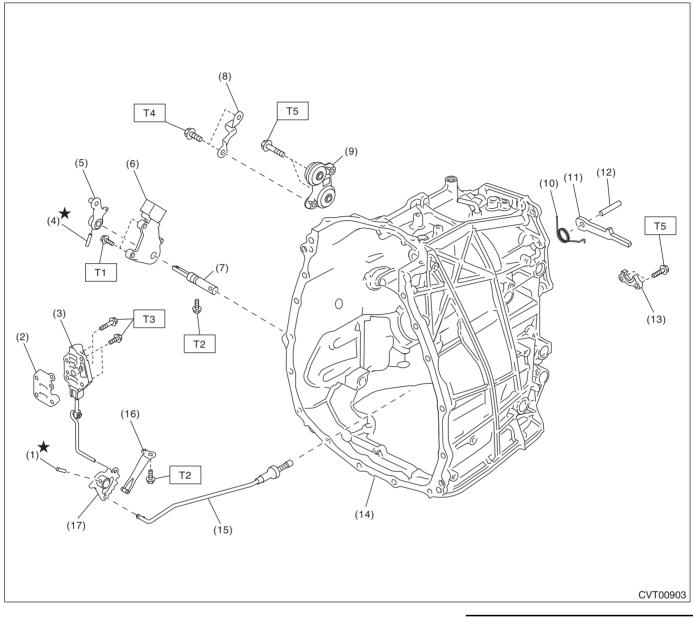
- (1) Converter case
- (2) O-ring
- (3) Seal ring
- (4) Thrust bearing
- (5) Seal ring
- (6) Forward clutch drum ASSY
- (7) Seal ring
- (8) Forward clutch piston
- (9) Return spring

- (10) Chamber COMPL
- (11) Snap ring
- (12) Dish plate
- (13) Driven plate
- (14) Drive plate
- (15) Retaining plate
- (16) Snap ring
- (17) Sun gear
- (18) Snap ring

- (19) Balance oil guide
- (20) Thrust bearing
- (21) Planetary carrier ASSY
- (22) Thrust bearing
- (23) Internal gear
- (24) Thrust gear plate
- (25) Snap ring
- (26) Thrust bearing
- (27) Washer

#### CONTINUOUSLY VARIABLE TRANSMISSION

### 7. TRANSMISSION CONTROL DEVICE

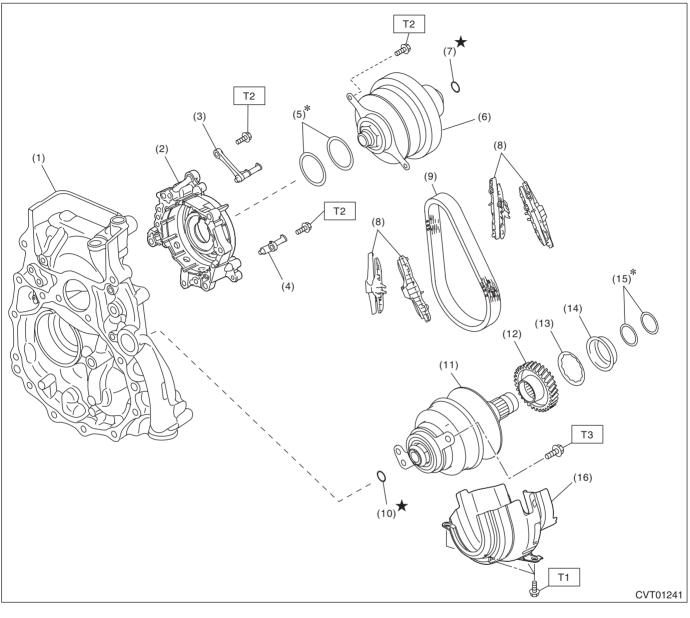


- (1) Spring pin
- (2) Separator plate
- (3) Manual valve ASSY
- (4) Spring pin
- (5) Shifter arm
- (6) Inhibitor switch
- (7) Shifter arm shaft
- (8) Cable bracket
- (9) Plate ASSY

- (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)			
Т3:	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



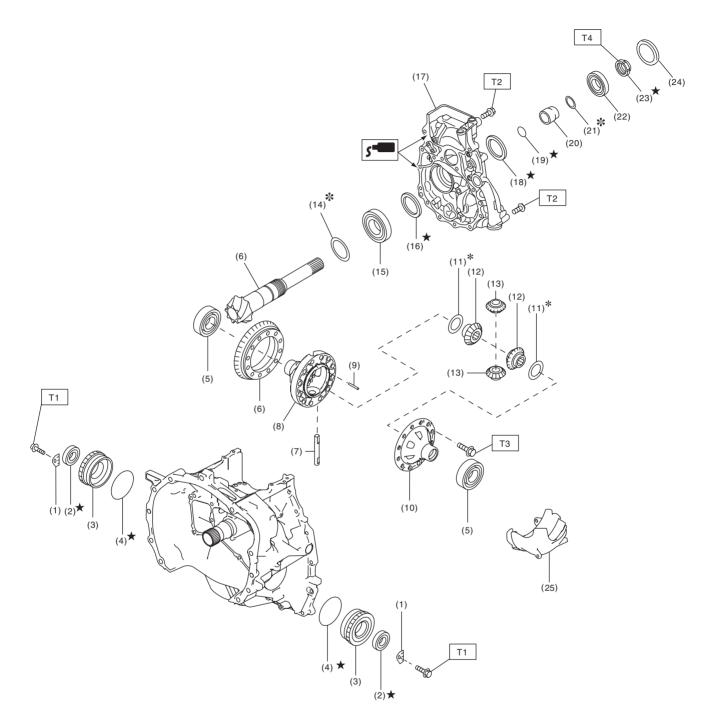
- (1) Drive pinion retainer
- (2) Reverse brake housing
- (3) Support rod
- (4) Lubrication pipe
- (5) Primary pulley shim
- (6) Primary pulley ASSY
- (7) Seal ring

- (8) Chain guide
- (9) Variator chain
- (10) Seal ring
- (11) Secondary pulley ASSY
- (12) Reduction drive gear
- (13) Dish plate
- (14) Spring retainer

- (15) Reduction gear shim
- (16) 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)

### CONTINUOUSLY VARIABLE TRANSMISSION

### 9. FRONT DIFFERENTIAL GEAR



CVT00664

- (1) Lock plate
- (2) Oil seal
- (3) Differential side retainer
- (4) O-ring
- (5) Taper roller bearing
- (6) Drive pinion gear set
- (7) Pinion shaft
- (8) Differential case RH
- (9) Straight pin
- (10) Differential case LH

- (11) Washer
- (12) Differential bevel gear
- (13) Differential bevel pinion
- (14) Drive pinion shim
- (15) Taper roller bearing
- (16) Oil seal
- (17) Drive pinion retainer
- (18) Oil seal
- (19) O-ring
- (20) Drive pinion spacer

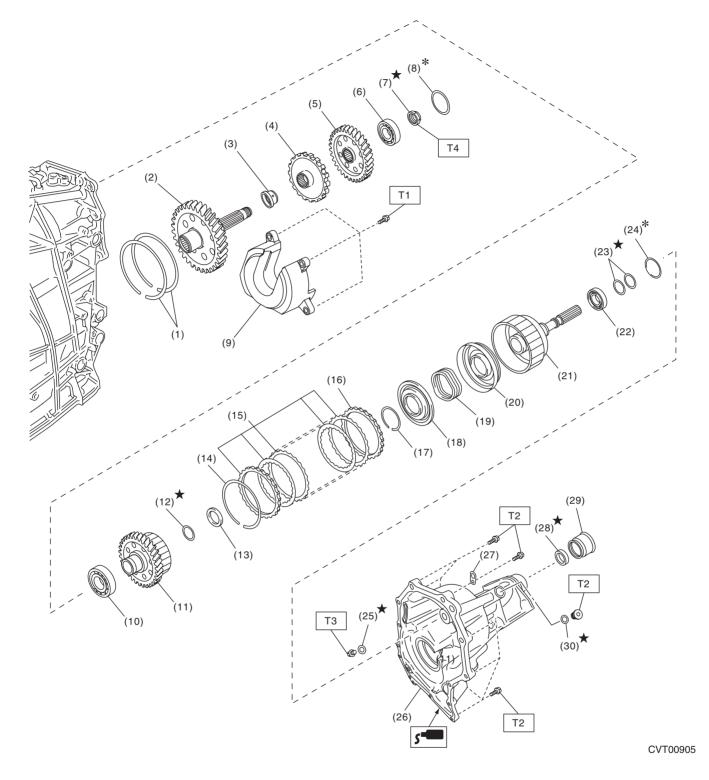
(21) Drive pinion washer

- (22) Taper roller bearing
- (23) Lock nut
- (24) Plug
- (25) Oil baffle

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

- T1: 25 (2.5, 18.4)
- T2: 43 (4.4, 31.7)
- T3: 64 (6.5, 47.2)
- T4: <Ref. to CVT(TR580)-287, ASSEMBLY, Drive Pinion Shaft Assembly.>

### **10.TRANSFER AND EXTENSION CASE**



#### CONTINUOUSLY VARIABLE TRANSMISSION

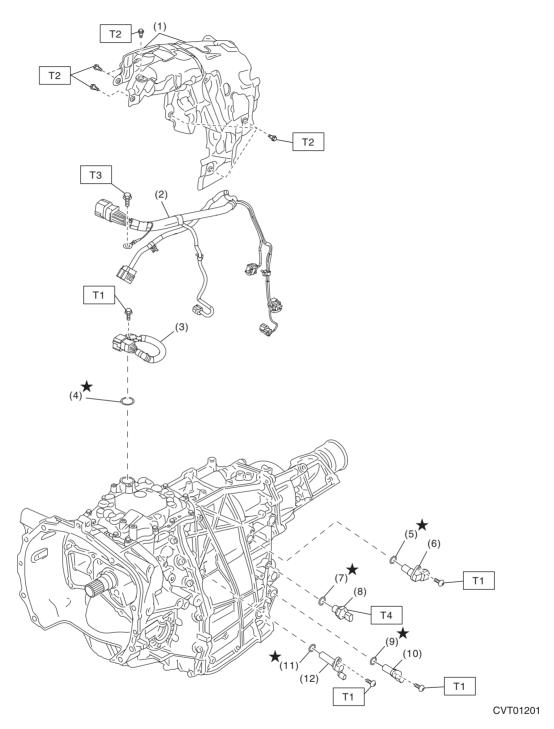
- (1) Snap ring (XV model)
- (2) Reduction driven gear COMPL
- (3) Collar
- (4) Parking gear
- (5) Transfer drive gear
- (6) Ball bearing
- (7) Lock nut
- (8) Transfer drive gear shim
- (9) Spacer oil
- (10) Ball bearing
- (11) Transfer driven gear
- (12) Seal ring

- (13) Thrust bearing
- (14) Snap ring
- (15) Transfer clutch plate set
- (16) Pressure plate
- (17) Snap ring
- (18) Transfer clutch piston seal
- (19) Transfer clutch piston return spring
- (20) Transfer clutch piston
- (21) Rear drive shaft
- (22) Ball bearing
- (23) Seal ring
- (24) Transfer driven gear shim

- (25) Gasket
- (26) Extension case
- (27) Transmission hanger
- (28) Oil seal
- (29) Dust cover
- (30) O-ring

Tight	ening torque: N⋅m (kgf-m, ft-lb)
T1:	17 (1.7, 12.5)
T2:	25 (2.5, 18.4)
Т3:	35 (3.6, 25.8)
T4:	95 (9.7, 70.1)

### **11.TRANSMISSION HARNESS AND SENSOR**



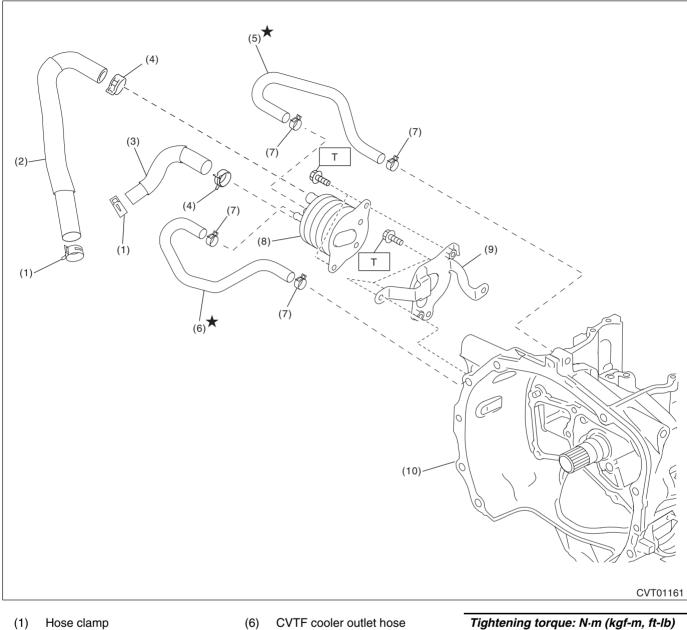
- (1) Transmission case cover
- (2) Inhibitor harness
- (3) Transmission harness
- (4) O-ring
- (5) O-ring
- (6) Primary speed sensor

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

Tight	Tightening torque: N·m (kgf-m, ft-lb)				
T1:	7 (0.7, 3.7)				
T2:	8 (0.8, 5.9)				
Т3:	14 (1.4, 10.3)				
T4:	39 (4.0, 28.8)				

#### CONTINUOUSLY VARIABLE TRANSMISSION

### **12.CVTF COOLER (WITH WARMER FEATURE)**



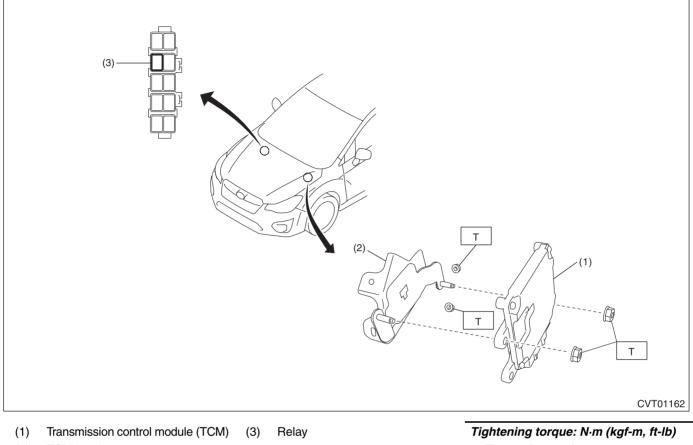
- Engine coolant outlet hose (2)
- (3) Engine coolant inlet hose
- Hose clamp (4)
- CVTF cooler inlet hose (5)
- Hose clamp (7)
- (8) CVTF cooler (with warmer feature)
- CVTF cooler bracket (9)
- Converter case (10)

Tightening torque: N⋅m (kgf-m, ft-lb)

T: 23 (2.3, 17.0)

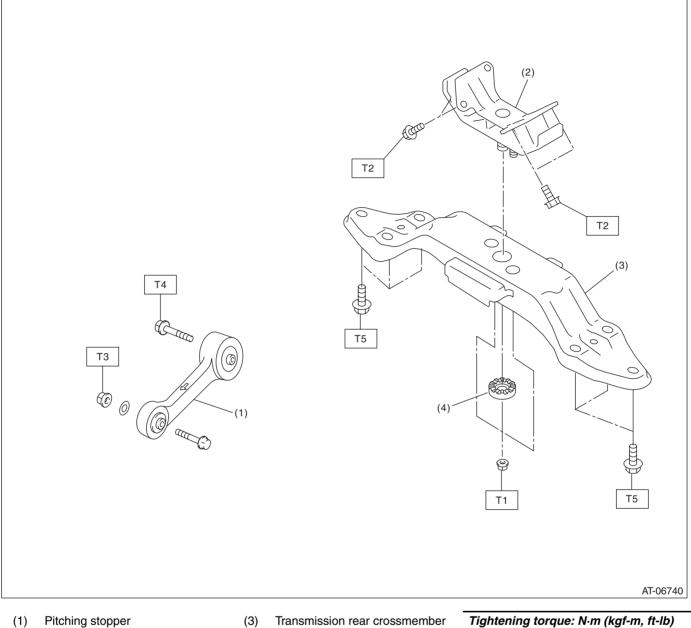
#### CONTINUOUSLY VARIABLE TRANSMISSION

### **13.TRANSMISSION CONTROL MODULE**



(2) TCM bracket T: 7.5 (0.8, 5.5)

#### **14.TRANSMISSION MOUNTING**



- Pitching stopper (1)
- Rear cushion rubber (2)
- 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)

CONTINUOUSLY VARIABLE TRANSMISSION

### C: CAUTION

- 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.
- 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.
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 for- ward clutch assembly.
ST18761AA010	18761AA010	SHEET SPECIAL TOOL	<ul> <li>Used for removing and installing control valve body.</li> <li>Used for removing and installing valve cover.</li> <li>Used for removing and installing transmission harness.</li> </ul>

### CONTINUOUSLY VARIABLE TRANSMISSION

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).
	18801AA000	OIL PRESSURE GAUGE ASSY	Used for measuring the secondary pressure (line pressure).
CONTRACTION OF			
ST18801AA000	18658AA020	WRENCH COMPL	
ST18658AA020	1000044020	RETAINER	Used for removing and installing the differential side retainer.
0110000AA020	34099AC020	ADAPTER HOSE B	Used for measuring the transfer clutch hydraulic
OF STAL SE MARTIN			pressure. NOTE: Used with genuine union screw (Part No. 801914010) and gasket (Part No. 803914060).
ST34099AC020			
	18460AA040 (Newly adopted tool)	CHECK BOARD	Used for measuring the check board TCM termi- nal voltage.
ST18460AA040			

### CONTINUOUSLY VARIABLE TRANSMISSION

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	34099AC010	ADAPTER HOSE A	Used for measuring the transfer clutch hydraulic
			pressure.
E Contraction of the contraction			
EDA S DAN			
OF PLA			
ST34099AC010	18681AA000	PRESSURE	Used for measuring the transfer clutch hydraulic
	10001AA000	GAUGE ADAPTER	pressure.
			NOTE: Used together with the genuine O-ring (part No.
			806911080).
ST18681AA000			
	498575400	OIL PRESSURE GAUGE ASSY	Used for measuring the transfer clutch hydraulic pressure.
ST-498575400			
	498277200	STOPPER SET	Used for removing and installing transmission
			<ul><li>assembly to engine.</li><li>Used for preventing the torque converter from</li></ul>
			dropping off.
ST-498277200	398527700	PULLER ASSY	<ul> <li>Used for removing the extension case oil seal.</li> </ul>
	000021100		<ul> <li>Used for removing the bearing outer race of</li> </ul>
Â			the drive pinion shaft.
E De			
· ₩ €∕			
ST-398527700			

# CONTINUOUSLY VARIABLE TRANSMISSION

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
-	398673600	COMPRESSOR	Used for removing and installing snap ring of for-
$\square$			ward clutch assembly.
P			
ST-398673600			
	18355AA000	PULLEY WRENCH	• Used for removing and installing the lock nut of reduction driven gear.
			• Used together with PIN SET (18334AA000).
07/005511005			
ST18355AA000	18334AA000	PIN SET	Used for removing and installing the lock nut of
			reduction driven gear.
			Used together with PULLEY WRENCH (18355AA000).
ST18334AA000			
	499987003	SOCKET WRENCH	Used for removing and installing the lock nut of reduction driven gear.
		(35)	reduction unven geal.
ST-499987003	498057300	OIL SEAL	Lload for installing the extension case oil cost
	498037300	INSTALLER	Used for installing the extension case oil seal.
ST-498057300			
31-490037300		1	

### CONTINUOUSLY VARIABLE TRANSMISSION

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	18632AA000	STAND ASSY	Used for disassembling and assembling the
ST18632AA000			transmission.
	498515500	REMOVER	Used for removing the bearing inner race of the
			drive pinion shaft.
ST-498515500	498255400	PLATE	Used for measuring the backlash of hypoid gear.
ST-498255400			
	498247001	MAGNET BASE	Used for measuring the backlash of differential     based prices are as a second
ST-498247001			<ul> <li>bevel pinion gear.</li> <li>Used for measuring the backlash of hypoid gear.</li> <li>Used together with DIAL GAUGE (498247100).</li> </ul>
51-498247001	498247100	DIAL GAUGE	Used for measuring the backlash of differential
ST-498247100			<ul> <li>bevel pinion gear.</li> <li>Used for measuring the backlash of hypoid gear.</li> <li>Used together with DIAL GAUGE (498247101).</li> </ul>

# CONTINUOUSLY VARIABLE TRANSMISSION

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST18675AA000	18675AA000	DIFFERENTIAL SIDE OIL SEAL INSTALLER	Used for installing the differential side retainer oil seal.
ST18762AA001	18762AA001	COMPRESSOR SPECIAL TOOL	<ul> <li>Used for disassembling and installing the multi-plate clutch piston.</li> <li>COMPRESSOR SPECIAL TOOL (18762AA000) can also be used.</li> </ul>
ST-927720000	927720000	HOUSING BUSH- ING INSTALLER AND REMOVER	<ul> <li>Used for installing the oil seal.</li> <li>Use BUSHING SHAFT (927880000).</li> </ul>
00000 ED 00000 ED 00000 ST18763AA000	18763AA000	COMPRESSOR SHAFT	Used for measuring the backlash of hypoid gear.
ST28399SA010	28399SA010	OIL SEAL PROTEC- TOR	Used for protecting oil seal when installing front drive shaft.

### CONTINUOUSLY VARIABLE TRANSMISSION

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	498937110	HOLDER	• Used for removing and installing the drive pin-
			ion lock nut.
			• Used as a holder to rotate gear when checking tooth contact.
OT 400007440			
ST-498937110	41099AA012	ENGINE SUPPORT	Used for supporting the engine.
	(Newly adopted tool)	BRACKET	
₩.			
ST41099AA012			
0141000/012	41099AA020	ENGINE SUPPORT	Used for supporting the engine.
- AND			
mal			
ST41099AA020			
	18270KA020	SOCKET (E20)	Used for removing and installing the hypoid     driven geor
			<ul><li>driven gear.</li><li>Used for removing and installing the drive pin-</li></ul>
			ion shaft retainer.
ST18270KA020			
	398497701	SEAT	Used for removing and installing the bearing.
ST-398497701			

# CONTINUOUSLY VARIABLE TRANSMISSION

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST-398177700	398177700	INSTALLER	<ul> <li>Used for installing the ball bearing.</li> <li>Used for installing the parking gear.</li> <li>Used for installing the bearing outer race.</li> <li>Used for installing the plug.</li> </ul>
ST28499TC010	28499TC010	PRESS SNAP RING	pinion shaft.
ST-899864100	899864100	REMOVER	<ul> <li>Used for removing and installing the ball bearing.</li> <li>Used for removing the parking gear and transfer drive gear.</li> <li>Used for removing the bearing inner race of the front differential.</li> </ul>
ST-498077000	498077000	REMOVER	Used for removing the bearing inner race of the front differential.
ST18657AA010	18657AA010	INSTALLER	Used for installing the oil seal at shifter arm shaft portion.

### CONTINUOUSLY VARIABLE TRANSMISSION

		DEOODIDTIOU	
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	498077600	REMOVER	Used for removing the ball bearing of drive sprocket.
ST-498077600	18723AA000	REMOVER	Used for removing the ball bearing of transfer
ST18720AA000	10723AA000		clutch assembly.
ST-498497300	498497300	CRANKSHAFT STOPPER	Used for stopping the drive plate rotation when removing and installing the drive plate.
	399513600	INSTALLER	Used for removing the ball bearing of drive
ST-399513600			sprocket.
	499267300	STOPPER PIN	Used for adjusting the inhibitor switch.
ST-499267300			

# CONTINUOUSLY VARIABLE TRANSMISSION

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	499277100	BUSHING 1-2	Used for installing the ball bearing.
		INSTALLER	Used for installing the bearing inner race.
All			
ST-499277100			
	499277200	INSTALLER	Used for installing the ball bearing of the transfer clutch assembly.
ST-499277200	499575400	GAUGE	Used for measuring height of end play.
	100070-00		coord for modeling noight of one play.
ST-499575400			
	499575500	GAUGE	Used for measuring height of end play.
ST-499575500			
	499787500	ADAPTER	• Used for removing and installing the drive pin- ion shaft lock nut.
			Used for measuring the preload of the drive
			<ul><li>pinion shaft.</li><li>Used for measuring the backlash of hypoid</li></ul>
			gear.
ST-499787500			

### CONTINUOUSLY VARIABLE TRANSMISSION

		DECODIDITION	DEMADIZO
ILLUSTRATION	TOOL NUMBER 499575600	DESCRIPTION GAUGE	REMARKS Used for measuring height of end play.
ST-499575600			
ST-499787700	499787700	WRENCH	<ul> <li>Used for removing and installing the drive pinion shaft lock nut.</li> <li>Used for measuring the preload of the drive pinion shaft.</li> <li>Used for measuring the backlash of hypoid gear.</li> </ul>
ST-499787700	499757002	INSTALLER	<ul> <li>Used for removing the bearing of reduction driven gear.</li> <li>Used for installing the parking gear.</li> <li>Used for installing the transfer drive gear.</li> </ul>
ST-899580100	899580100	INSTALLER	<ul> <li>Used for installing the collar of reduction driven gear.</li> <li>Used for installing the ball bearing of the transfer driven gear.</li> <li>Used for installing the bearing inner race of drive pinion shaft.</li> </ul>
ST-498077300	498077300	REMOVER	Used for installing the ball bearing of reduction driven gear.

# CONTINUOUSLY VARIABLE TRANSMISSION

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	499755502	PRESS SNAP RING	Used for installing the drive sprocket ball bear-
			ing.
ST-499755502	400755000		
	499755602	PRESS SNAP RING	<ul> <li>Used for installing the oil seal.</li> <li>Used for installing the plug.</li> </ul>
ST-499755602			
ST-498077400	498077400	REMOVER	Used for removing the ball bearing of transfer driven gear.
ST20099AE020	20099AE020	INSTALLER	Used for installing the bearing outer race of drive pinion shaft.
ST-927130000	927130000	EXTENSION DRIVE SHAFT	Used for installing the bearing inner race of drive pinion shaft.

### CONTINUOUSLY VARIABLE TRANSMISSION

18270AA040     SOCKET     Used for removing and installing the transfer clutch pressure test plug.       ST18270AA040     73099SG000     SPECIAL TOOL CONDENSER     Used for installing the transfer clutch pressure test plug.       ST73099SG000     SPECIAL TOOL CONDENSER     Used for installing the transfer clutch pressure test plug.       ST73099SG000     1B022XU0     SUBARU SELECT MONITOR III KIT     Used for setting of each function and trouble-shooting for electrical system. NOTE:			DECODIDEION	
ST18270AA040     73099SG000     SPECIAL TOOL CONDENSER     Used for installing the transfer clutch pressure test plug.       ST73099SG000     SPECIAL TOOL CONDENSER     Used for installing the transfer clutch pressure test plug.       ST73099SG000     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 Se- lect Monitor III, refer to "PC application help for Subaru Select Monitor".	ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
73099SG000       SPECIAL TOOL CONDENSER       Used for installing the transfer clutch pressure test plug.         ST73099SG000       SUBARU SELECT MONITOR III KIT       Used for setting of each function and trouble- shooting for electrical system. NOTE: For detailed operation procedures of Subaru Se- lect Monitor III, refer to "PC application help for Subaru Select Monitor".		18270AA040	SOCKET	
ST73099SG000       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 Se- lect Monitor III, refer to "PC application help for Subaru Select Monitor".	ST18270AA040			
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 Se- lect Monitor III, refer to "PC application help for Subaru Select Monitor".		73099SG000		
MONITOR III KIT shooting for electrical system. NOTE: For detailed operation procedures of Subaru Se- lect Monitor III, refer to "PC application help for Subaru Select Monitor".	ST73099SG000			
ST1B022XU0		1B022XU0		shooting for electrical system. NOTE: For detailed operation procedures of Subaru Se- lect Monitor III, refer to "PC application help for
	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 <sup>®</sup> 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.	