1. General Description

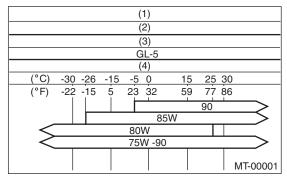
A: SPECIFICATIONS

1. MANUAL TRANSMISSION AND DIFFERENTIAL

Model			Non-turbo	Turbo
Туре			5-forward speeds with synchromesh and 1-reverse	
1st 2nd		1st	3.454	
		2nd	2.062	1.947
Transmission goor	ratio	3rd	1.448	1.366
Transmission gear	ralio	4th	1.088	0.972
		5th	0.780	0.738
		Reverse	3.333	
Front reduction		Type of gear	Hypoid	
gear	' Final	Gear ratio	4.111	4.444
	Transfor	Type of gear	Helical	
Rear reduction	Transfer	Gear ratio	1.000	
gear	Final	Type of gear	Hypoid	
	Final	Gear ratio	4.111	4.444
Front differential	Type and	number of gear	Straight bevel gear (Bevel pinion: 2, Bevel gear: 2)	
Center differential	Type and	number of gear	Straight bevel gear (Bevel pinion: 2, Bevel gear: 2 and viscous coupling)	
Transmission gear oil			GL-5	
Transmission oil capacity			3.5 l (3.7 US qt, 3.1 Imp qt)	

2. TRANSMISSION GEAR OIL

Recommended oil



- (1) ITEM
- (2) Transmission gear oil
- (3) API classification
- (4) SAE viscosity No. and applicable temperature

3. TRANSMISSION CASE ASSEMBLY

Drive pinion shim adjustment

Hypoid gear backlash:

0.13 — 0.18 mm (0.0051 — 0.0071 in)

Drive pinion shim				
Part No.	Thickness mm (in)	Part No.	Thickness mm (in)	
32295AA031	0.150 (0.0059)	32295AA071	0.250 (0.0098)	
32295AA041	0.175 (0.0069)	32295AA081	0.275 (0.0108)	
32295AA051	0.200 (0.0079)	32295AA091	0.300 (0.0118)	
32295AA061	0.225 (0.0089)	32295AA101	0.500 (0.0197)	

Selection of main shaft rear plate

Main shaft rear plate		
Dimension "A" mm (in)	Part No.	Mark
4.00 — 4.13 (0.1575 — 0.1626)	32294AA041	1
3.87 — 3.99 (0.1524 — 0.1571)	32294AA051	2

4. DRIVE PINION ASSEMBLY

Preload adjustment of thrust bearing

Starting torque:

 $0.3 - 0.8 \text{ N} \cdot m (0.03 - 0.08 \text{ kgf-m}, 0.2 - 0.6 \text{ ft-lb})$

Adjusting washer No. 1			
Part No.	Thickness mm (in)		
803025051	3.925 (0.1545)		
803025052	3.950 (0.1555)		
803025053	3.975 (0.1565)		
803025054	4.000 (0.1575)		
803025055	4.025 (0.1585)		
803025056	4.050 (0.1594)		
803025057	4.075 (0.1604)		

Adjusting washer No. 2		
Part No. Thickness mm (in)		
803025059	3.850 (0.1516)	
803025054	4.000 (0.1575)	
803025058	4.150 (0.1634)	

5. INPUT SHAFT ASSEMBLY

Snap ring (Outer-28) to ball bearing clearance:

0 — 0.12 mm (0 — 0.0047 in)

Snap ring (Outer-28)		
Part No. Thickness mm (in)		
805028050	2.48 (0.0976)	
805028060	2.56 (0.1008)	
805028070	2.64 (0.1039)	

Snap ring (Inner-68) to bearing clearance: 0 — 0.12 mm (0 — 0.0047 in)

Snap ring (Inner-68)		
Part No. Thickness mm (in)		
805168020	1.84 (0.0724)	
805168030	1.92 (0.0756)	
805168040	2.00 (0.0787)	

6. MAIN SHAFT

Snap ring (Outer-25) to synchronizer hub clearance:

0.060 — 0.100 mm (0.0024 — 0.0039 in)

Snap ring (Outer-25)				
Part No.	Thickness	Part No.	Thickness	
Tarrivo.	mm (in)	Tarrio.	mm (in)	
805025051	2.42 (0.0953)	805025055	2.62 (0.1031)	
805025052	2.47 (0.0972)	805025056	2.67 (0.1051)	
805025053	2.52 (0.0992)	805025057	2.72 (0.1071)	
805025054	2.57 (0.1012)	805025058	2.37 (0.0933)	

7. REVERSE IDLER GEAR

Adjustment of reverse idler gear position *Reverse idler gear to transmission case (LH) wall clearance:*

6.0 — 7.5 mm (0.236 — 0.295 in)

Reverse shifter lever				
Part No.	Mark	Remarks		
32820AA070	7	Further from case wall		
32820AA080	8	Standard		
32820AA090	9	Closer to the case wall		

After installing a suitable reverse shifter lever, adjust the clearance using washers.

Reverse idler gear to transmission case wall clearance:

0 — 0.5 mm (0 — 0.020 in)

Washer ($20.5 \times 26 \times t$)				
Part No.	Thickness mm (in)	Part No.	Thickness mm (in)	
803020151	0.4 (0.016)	803020154	1.9 (0.075)	
803020152	1.1 (0.043)	803020155	2.3 (0.091)	
803020153	1.5 (0.059)	—	—	

8. SHIFTER FORK AND ROD

Select the suitable shifter forks so that both coupling sleeve and reverse driven gear are positioned in the center of their synchromesh mechanisms.

Rod end clearance

A: 1st-2nd — 3rd-4th: 0.4 — 1.4 mm (0.016 — 0.055 in) B: 3rd-4th — 5th: 0.5 — 1.3 mm (0.020 — 0.051 in)

1st-2nd shifter fork				
Part No.	Mark	Remarks		
32804AA060	1	Approach to 1st gear by 0.2 mm (0.008 in)		
32804AA070	No mark	Standard		
32804AA080	3	Approach to 2nd gear by 0.2 mm (0.008 in)		

3rd-4th shifter fork				
Part No. Mark Remarks				
32810AA061	1	Approach to 4th gear by 0.2 mm (0.008 in)		
32810AA071	No mark	Standard		
32810AA101	3	Approach to 3rd gear by 0.2 mm (0.008 in)		

5th shifter fork (Non-turbo model)			
Part No.	Mark	Remarks	
32812AA221	9	Become distant from 5th gear by 0.2 mm (0.008 in)	
32812AA211	No mark	Standard	
32812AA201	7	Approach to 5th gear by 0.2 mm (0.008 in)	

5th shifter fork (Turbo model)			
Part No.	Mark	Remarks	
32812AA231	7	Approach to 5th gear by 0.2 mm (0.008 in)	
32812AA241	No mark	Standard	
32812AA251	9	Become distant from 5th gear by 0.2 mm (0.008 in)	

9. TRANSFER CASE OR REAR CASE

Neutral position adjustment

Adjustment shim			
Part No. Thickness mm (in)			
32190AA000	0.15 (0.0059)		
32190AA010	0.30 (0.0118)		

Reverse accent shaft			
Part No.	Mark	Remarks	
32188AA090	3	Neutral position is closer to 1st.	
32188AA100	0	Standard	
32188AA110	1	Neutral position is closer to reverse gear.	

Reverse check plate adjustment

Reverse check plate			
Part No.	Mark	Angle θ	Remarks
32189AA000	0	28°	Arm stops closer to 5th gear.
32189AA010	1	31°	Arm stops closer to 5th gear.
33189AA020	2	34°	Arm stops in the cen- ter.
32189AA030	3	37°	Arm stops closer to reverse gear.
32189AA040	4	40°	Arm stops closer to reverse gear.

10.EXTENSION ASSEMBLY

Thrust washer $(50 \times 61 \times t)$ to taper roller bearing table outer race side clearance: 0.2 - 0.3 mm (0.0008 - 0.012 in)

Thrust washer $(50 \times 61 \times t)$			
Part No.	Thickness mm (in)		
803050060	0.50 (0.0197)		
803050061	0.55 (0.0217)		
803050062	0.60 (0.0236)		
803050063	0.65 (0.0256)		
803050064	0.70 (0.0276)		
803050065	0.75 (0.0295)		
803050066	0.80 (0.0315)		
803050067	0.85 (0.0335)		
803050068	0.90 (0.0354)		
803050069	0.95 (0.0374)		
803050070	1.00 (0.0394)		
803050071	1.05 (0.0413)		
803050072	1.10 (0.0433)		
803050073	1.15 (0.0453)		
803050074	1.20 (0.0472)		
803050075	1.25 (0.0492)		
803050076	1.30 (0.0512)		
803050077	1.35 (0.0531)		
803050078	1.40 (0.0551)		
803050079	1.45 (0.0571)		

Thrust washer to center differential side clearance:

0.15 — 0.35 mm (0.0059 — 0.0138 in)

Thrust washer				
Part No.	Thickness mm (in)			
803036050	0.9 (0.035)			
803036054	1.0 (0.039)			
803036051	1.1 (0.043)			
803036055	1.2 (0.047)			
803036052	1.3 (0.051)			
803036056	1.4 (0.055)			
803036053	1.5 (0.059)			
803036057	1.6 (0.063)			
803036058	1.7 (0.067)			

11.FRONT DIFFERENTIAL

Bevel gear to pinio	n backlash:
0.13 — 0.18 mm	(0.0051 — 0.0071 in)

Washer (38.1 \times 50 \times t)				
Part No.	Thickness mm (in)	Part No.	Thickness mm (in)	
803038021	0.925 — 0.950 (0.0364 — 0.0374)	803038023	1.025 — 1.050 (0.0404 — 0.0413)	
803038022	0.975 — 1.000 (0.0384 — 0.0394)	_	_	

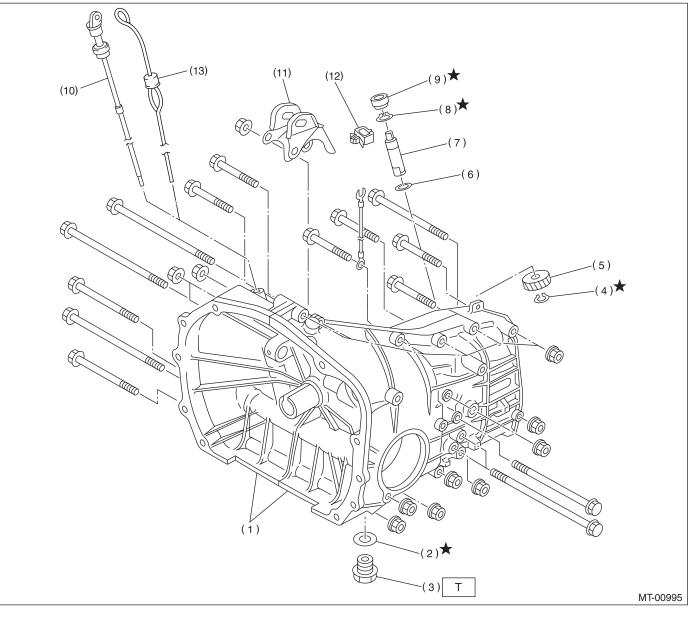
12.TRANSFER DRIVE GEAR

Snap ring (Outer-30) to ball bearing clearance: 0.01 — 0.15 mm (0.0004 — 0.0059 in)

Snap ring (Outer-30)			
Part No.	Thickness mm (in)		
805030041	1.53 (0.0602)		
805030042	1.65 (0.0650)		
805030043	1.77 (0.0697)		

B: COMPONENT

1. TRANSMISSION CASE



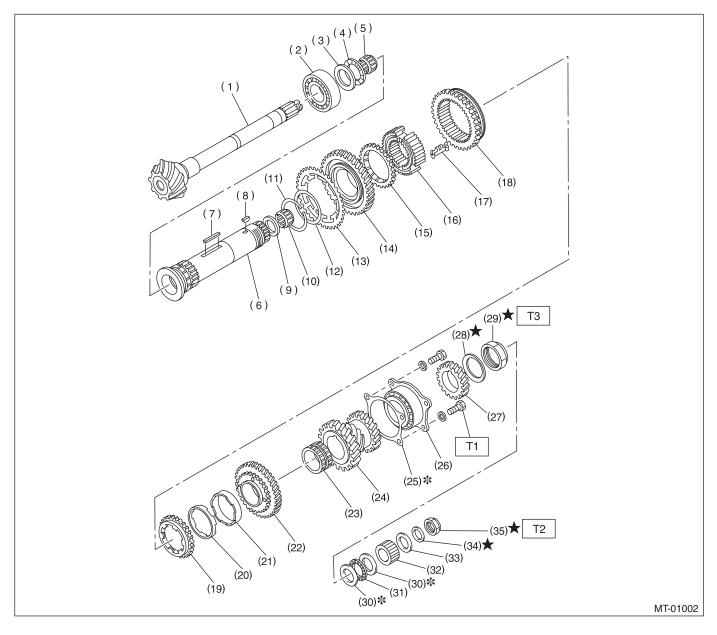
- (1) Transmission case ASSY
- (2) Gasket
- (3) Drain plug
- (4) Snap ring (Outer)
- (5) Speedometer driven gear
- (6) Washer
- (7) Speedometer shaft
- (8) Snap ring (Outer)
- (9) Oil seal
- (10) Oil level gauge (Non-turbo model)
- (11) Pitching stopper bracket
- (12) Clip
- (13) Oil level gauge (Turbo model)
- Tightening torque: N⋅m (kgf-m, ft-lb)
- T: 44 (4.5, 32.5)

Transmission case tightening torque

		Bolt No.	Bolt size	Tightening torque: N·m (kgf-m, ft-lb)
		<5> to <15>	8 mm	25 (2.5, 18.1)
$\begin{array}{c} \langle 9 \rangle \langle 5 \rangle \langle 7 \rangle \langle 16 \rangle \\ \langle 13 \rangle \\ \langle 13 \rangle \\ \langle 15 \rangle \\ \langle 14 \rangle \\ \langle 10 \rangle \langle 6 \rangle \langle 8 \rangle \langle 12 \rangle \end{array}$	MT-00003	<1> to <4> <16>, <17>	10 mm	39 (4.0, 28.9)

MANUAL TRANSMISSION AND DIFFERENTIAL

2. DRIVE PINION ASSEMBLY



- (1) Drive pinion shaft
- (2) Roller bearing
- (3) Washer
- (4) Thrust bearing
- (5) Needle bearing
- (6) Driven shaft
- (7) Key
- (8) Woodruff key
- (9) Drive pinion collar
- (10) Needle bearing
- (11) Outer snap ring (Non-turbo model)
- (12) Washer (Non-turbo model)
- (13) Sub gear (Non-turbo model)
- (14) 1st driven gear

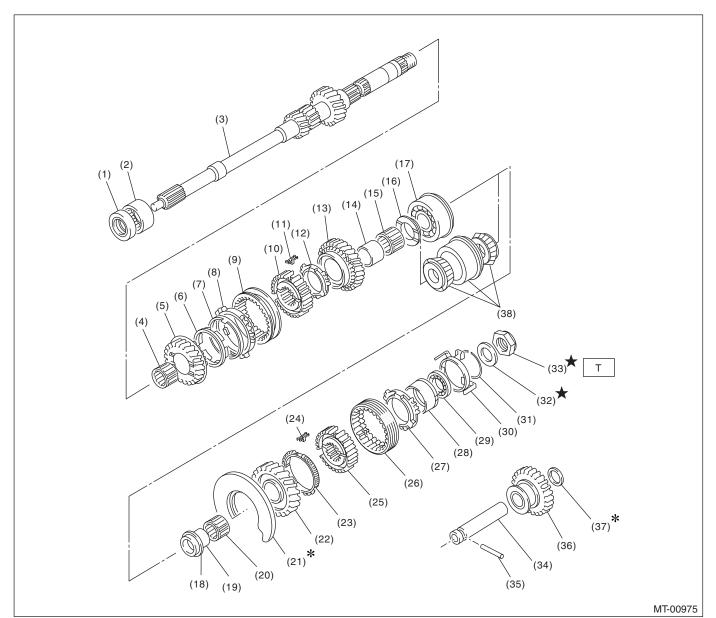
- (15) 1st baulk ring
- (16) 1st-2nd synchronizer hub
- (17) Insert key
- (18) Reverse driven gear (Non-turbo model)
- (19) Outer baulk ring
- (20) Synchro cone
- (21) Inner baulk ring
- (22) 2nd driven gear
- (23) 2nd driven gear bush
- (24) 3rd-4th driven gear
- (25) Driven pinion shim
- (26) Roller bearing
- (27) 5th driven gear

- (28) Lock washer
- (29) Lock nut
- (30) Adjusting washer No. 1
- (31) Thrust bearing
- (32) Differential bevel gear sleeve
- (33) Adjusting washer No. 2
- (34) Lock washer
- (35) Lock nut

Tightening torque: N⋅m (kgf-m, ft-lb)

- T1: 30 (3.1, 22.1)
- T2: 120 (12.2, 88.5)
- T3: 260 (26.5, 192)

3. MAIN SHAFT ASSEMBLY (SINGLE RANGE)



- (1) Oil seal
- (2) Needle bearing
- (3) Transmission main shaft
- (4) 3rd needle bearing
- (5) 3rd drive gear
- (6) Inner baulk ring
- (7) 3rd synchro cone
- (8) Outer baulk ring
- (9) 3rd-4th coupling sleeve
- (10) 3rd-4th synchronizer hub
- (11) 3rd-4th shifting insert key
- (12) 4th baulk ring
- (13) 4th drive gear
- (14) 4th needle bearing race

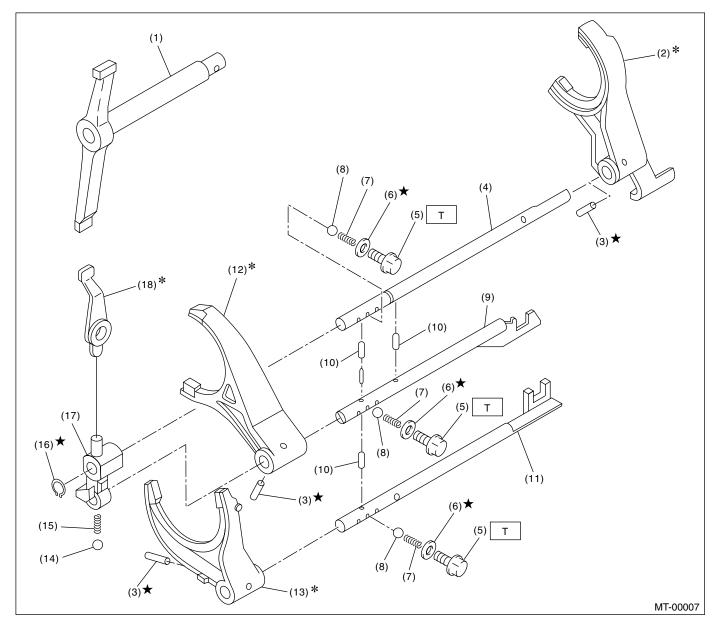
- (15) 4th needle bearing
- (16) 4th gear thrust washer
- (17) Ball bearing (Non-turbo model)
- (18) 5th gear thrust washer (Non-turbo model)
- (19) 5th needle bearing race
- (20) 5th needle bearing
- (21) Main shaft rear plate
- (22) 5th drive gear
- (23) 5th baulk ring
- (24) 5th-Rev shifting insert key
- (25) 5th-Rev synchronizer hub
- (26) 5th-Rev coupling sleeve
- (27) Rev baulk ring

- (28) Rev synchro cone
- (29) Ball bearing
- (30) Synchro cone stopper
- (31) Snap ring
- (32) Lock washer
- (33) Lock nut
- (34) Reverse idler gear shaft
- (35) Straight pin
- (36) Reverse idler gear
- (37) Washer
- (38) Taper roller bearing (Turbo model)

Tightening torque: N⋅m (kgf-m, ft-lb) T: 120 (12.2, 88.5)

MANUAL TRANSMISSION AND DIFFERENTIAL

4. SHIFTER FORK AND SHIFTER ROD



- (1) Shifter arm
- (2) 5th shifter fork
- (3) Straight pin
- (4) Reverse fork rod
- (5) Checking ball plug
- (6) Gasket
- (7) Checking ball spring

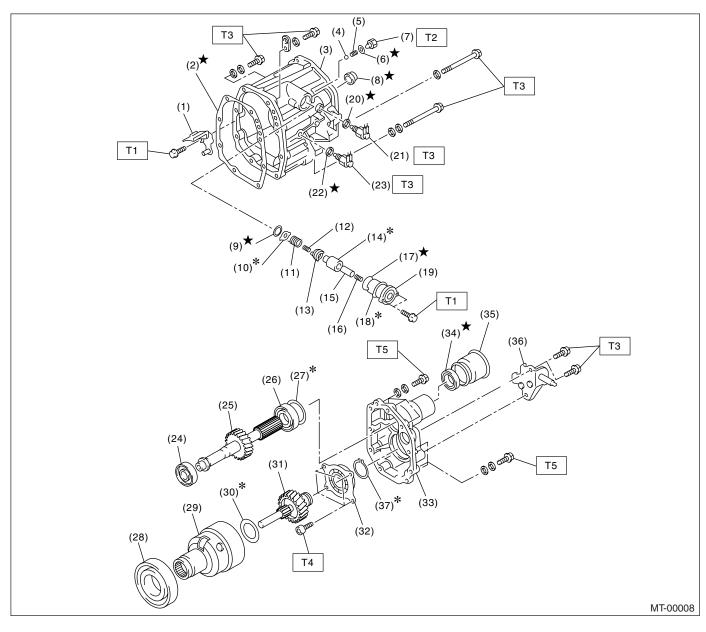
- (8) Checking ball
- (9) 3rd-4th fork rod
- (10) Interlock plunger
- (11) 1st-2nd fork rod
- (12) 3rd-4th shifter fork
- (13) 1st-2nd shifter fork
- (14) Ball

- (15) Spring
- (16) Snap ring (Outer)
- (17) Reverse fork rod arm
- (18) Reverse shifter lever

Tightening torque: N⋅m (kgf-m, ft-lb) T: 20 (2.0, 14.5)

GENERAL DESCRIPTION MANUAL TRANSMISSION AND DIFFERENTIAL

5. TRANSFER CASE AND EXTENSION



- (1) Oil guide
- (2) Gasket
- (3) Transfer case
- (4) Reverse check ball
- (5) Reverse accent spring
- (6) Gasket
- (7) Plug
- (8) Oil seal
- (9) Snap ring (Inner)
- (10) Reverse check plate
- (11) Reverse check spring
- (12) Reverse return spring
- (13) Reverse check cam
- (14) Reverse accent shaft
- (15) Return spring cap

- (16) Return spring
- (17) O-ring
- (18) Adjusting select shim
- (19) Reverse check sleeve
- (20) Gasket
- (21) Neutral switch
- (22) Gasket
- (23) Back-up light switch
- (24) Roller bearing
- (25) Transfer driven gear
- (26) Roller bearing
- (27) Adjusting washer
- (28) Ball bearing
- (29) Center differential
- (30) Adjusting washer

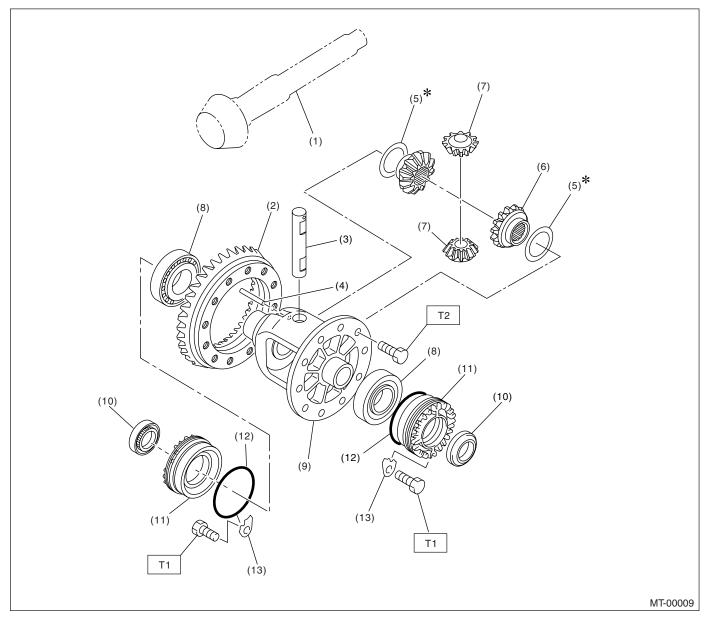
- (31) Transfer drive gear
- (32) Ball bearing
- (33) Extension case
- (34) Oil seal
- (35) Dust cover
- (36) Shift bracket
- (37) Snap ring

Tightening torque: N⋅m (kgf-m, ft-lb)

- T1: 6.4 (0.65, 4.7)
- T2: 9.75 (1.0, 7.2)
- T3: 24.5 (2.5, 18.1)
- T4: 26 (2.7, 20)
- T5: 40 (4.1, 29.7)

MANUAL TRANSMISSION AND DIFFERENTIAL

6. FRONT DIFFERENTIAL



- (1) Drive pinion shaft
- (2) Hypoid driven gear
- (3) Pinion shaft
- (4) Straight pin
- (5) Washer
- (6) Differential bevel gear

- (7) Differential bevel pinion
- (8) Roller bearing
- (9) Differential case
- (10) Oil seal
- (11) Differential side retainer
- (12) O-ring

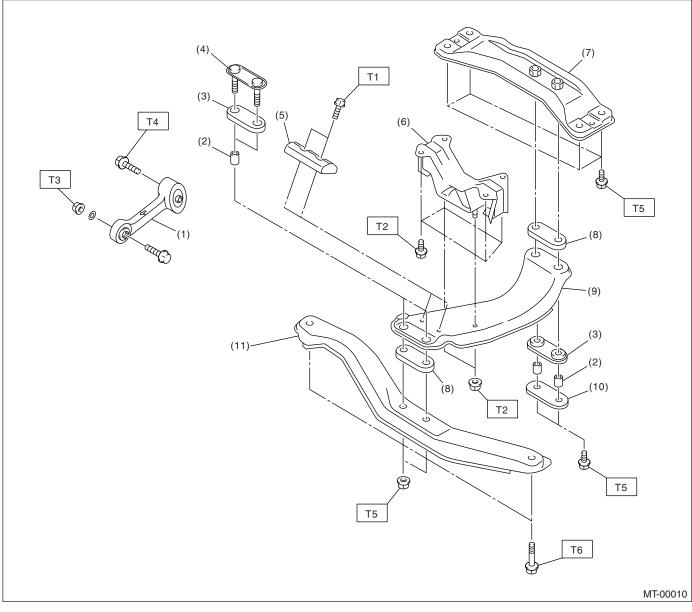
(13) Retainer lock plate

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

 T1:
 25 (2.5, 18.1)

 T2:
 62 (6.3, 45.6)

7. TRANSMISSION MOUNTING



- (1) Pitching stopper
- (2) Spacer
- (3) Cushion C
- (4) Front plate
- (5) Dynamic damper
- (6) Rear cushion rubber
- (7) Rear crossmember

- (8) Cushion D
- (9) Center crossmember
- (10) Rear plate
- (11) Front crossmember

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

 T1:
 7.5 (0.76, 5.5)

 T2:
 35 (3.6, 26)

 T3:
 50 (5.1, 37)

 T4:
 58 (5.9, 43)

 T5:
 70 (7.1, 51)

 T6:
 140 (14.3, 103)

C: CAUTION

• Wear working clothing, including a cap, protective goggles, and protective shoes during operation.

• Remove contamination including dirt and corrosion before removal, installation, and disassembly.

• Keep the disassembled parts in order and protect them from dust or dirt.

• Until the oil pan is removed, do not place with the oil pan side facing up to prevent foreign matter from entering the 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 it apart with a screwdriver or other tool.

• Be careful not to burn your hands, because each part on the vehicle is hot after running.

• Use SUBARU genuine gear oil, grease etc. or the equivalent. Do not mix gear oil, grease etc. with that of another grade or from other manufacturers.

• Be sure to tighten fasteners including bolts and nuts to the specified torque.

• Place shop jacks or safety stands at the specified points.

• Apply gear oil onto sliding or revolution surfaces before installation.

• Replace deformed or otherwise damaged snap rings with new ones.

• Before installing O-rings or oil seals, apply sufficient amount of gear oil 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 shop cloth between the part and the vis e.

• Avoid damaging the mating surface of the case.

• Before applying sealant, completely remove the old seal.

D: PREPARATION TOOL

1. SPECIAL TOOLS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	399411700	ACCENT BALL INSTALLER	Used for installing reverse shifter rail arm.
ST-399411700			
	899524100	PULLER SET	Used for removing and installing roller bearing (Differential). (1) PULLER (2) CAP
ST-899524100	399780104	WEIGHT	Used for measuring preload on roller bearing
ST-399780104			Used for measuring preload on roller bearing.
ST-498077000	498077000	REMOVER	Used for removing roller bearing of drive pinion shaft.

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	498077300	CENTER DIFFER- ENTIAL BEARING REMOVER	Used for removing the center differential cover ball bearing.
ST-498077300			
	498147000	DEPTH GAUGE	Used for adjusting main shaft axial end play.
ST-498147000			
	498247001	MAGNET BASE	 Used for measuring backlash between side gear and pinion, and hypoid gear. Used with DIAL GAUGE (498247100).
ST-498247001			
A	498247100	DIAL GAUGE	 Used for measuring backlash between side gear and pinion, and hypoid gear. Used with MAGNET BASE (498247001).
ST-498247100			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST-498247400	498427100	STOPPER	Used for securing the drive pinion shaft assembly and driven gear assembly when removing the drive pinion shaft assembly lock nut.
	498787100	MAIN SHAFT STOPPER	Used for removing and installing transmission main shaft lock nut.
ST-498787100			
	498937000	TRANSMISSION HOLDER	Used for removing and installing transmission main shaft lock nut.
ST-498937000			
	499277100	BUSH 1-2 INSTALLER	 Used for installing 1st driven gear thrust plate and 1st-2nd driven gear bush. Used for installing roller bearing outer races to differential case.
ST-499277100			

GENERAL DESCRIPTION MANUAL TRANSMISSION AND DIFFERENTIAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	499277200	INSTALLER	Used for press-fitting the 2nd driven gear, roller bearings, and 5th driven gear onto the driven shaft.
ST-499277200			
	499757002	INSTALLER	 Used for installing snap ring (OUT 25), and ball bearing (25 × 26 × 17). Used for installing bearing cone of transfer driven gear (extension core side).
ST-499757002			
ST-499787000	499787000	WRENCH ASSY	Used for removing and installing differential side retainer.
ST-499827000	499827000	PRESS	Used for installing speedometer oil seal when installing speedometer cable to transmission.

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	499857000	5TH DRIVEN GEAR REMOVER	Used for removing 5th driven gear.
ST-499857000			
	499877000	RACE 4-5 INSTALLER	 Used for installing 4th needle bearing race and ball bearing onto transmission main shaft. Used with REMOVER (899714110).
ST-499877000			
	499917500	DRIVE PINION GAUGE ASSY	Used for adjusting drive pinion shim.
ST-499917500			
	499927100	HANDLE	Used for fitting transmission main shaft.
ST-499927100			

GENERAL DESCRIPTION MANUAL TRANSMISSION AND DIFFERENTIAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	499937100	TRANSMISSION STAND SET	Stand used for transmission disassembly and assembly.
5T-499937100			
	499987003	SOCKET WRENCH (35)	Used for removing and installing driven pinion lock nut and main shaft lock nut.
ST-499987003			
ST-499987300	499987300	SOCKET WRENCH (50)	Used for removing and installing driven gear assembly lock nut.
ST-899714110	899714110	REMOVER	Used for fixing transmission main shaft, drive pinion, rear drive shaft.

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	899864100	REMOVER	Used for removing parts on transmission main
			shaft and drive pinion.
ST-899864100			
	899884100	HOLDER	Used for tightening lock nut on sleeve.
\land			
ST-899884100			
	899904100	REMOVER	Used for removing and installing straight pin.
and the second s			
ST-899904100			
	899988608	SOCKET WRENCH	Used for removing and installing drive pinion lock
		(27)	nut.
ST-899988608			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	398497701	ADAPTER	 Used for installing roller bearing onto differential case. Used with INSTALLER (499277100).
ST-398497701			
	499587000	INSTALLER	Used for installing driven gears to driven shaft.
ST-499587000			
	899824100	PRESS	Used for installing speedometer shaft oil seal.
ST-899824100	400007400		
	499987100	SOCKET WRENCH (35)	Used for removing and installing drive pinion lock nut.
ST-499987100			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	899984103	SOCKET WRENCH (35)	Used for removing and installing drive pinion lock nut.
ST-899984103			
	498057300	INSTALLER	Used for installing extension oil seal.
ST-498057300	102255 100		
5T-498255400	498255400	PLATE	Used for measuring backlash.
ST-498077400	498077400	SYNCHRONIZER CONE REMOVER	 Used for removing synchronizer cone of main shaft. Used for removing 5th driven gear of drive pinion shaft.

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	41099AA010	ENGINE SUPPORT	Used for supporting engine.
		BRACKET	
*			
ST41099AA010			
	41099AA020	ENGINE SUPPORT	Used for supporting engine.
<u>^</u>			
Site			
mal			
ST41099AA020			
	398527700	PULLER ASSY	Used for removing extension case roller bear-
	030021100		ing.
			 Used for removing front differential side
			retainer bearing outer race.
			Used for removing front differential side retainer oil seal.
a provide the state			
•			
ST-398527700			
	398643600	GAUGE	Used for measuring total end play, extension end
	0000-0000		play and drive pinion height.
ST-398643600			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST-398177700	398177700	INSTALLER	 Used for installing bearing cone of transfer driven gear (transfer case side). Used for installing ball bearing of transfer drive gear.
	18675AA000	DIFFERENTIAL OIL SEAL INSTALLER	Used for installing differential side retainer oil seal.
ST18675AA000			
	28399SA000	REMOVER	Used for removing axle shaft.
ST28399SA000	00000000000	PROTECTOR	Line d fan in de Binne oader ek eft
	28399SA010	PROTECTOR	Used for installing axle shaft.
ST28399SA010			

MANUAL TRANSMISSION AND DIFFERENTIAL

2. GENERAL PURPOSE TOOLS

TOOL NAME	REMARKS
Circuit Tester	Used for measuring resistance, voltage and ampere.