# 1. General Description

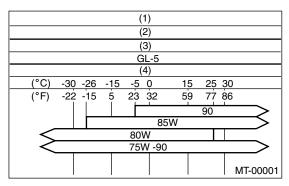
# **A: SPECIFICATIONS**

## 1. MANUAL TRANSMISSION AND DIFFERENTIAL

Model		2.5	2.5 L		
Model	Wiodei		Sedan	Wagon	2.0 L Turbo
Туре	Туре		5-forward sp	eeds with synchromesh	and 1-reverse
1st		3.4	154	3.454	
	2nd		2.0	062	1.947
Transmission as	or ratio	3rd	1.4	148	1.366
Transmission ge	ar ralio	4th	1.0	088	0.972
		5th	0.7	780	0.738
		Reverse	3.333		
Front reduction gear Final		Type of gear	Hypoid		
		Gear ratio	4.111 3.900		3.900
	Transfer	Type of gear	Helical		
Rear reduction	Transfer	Gear ratio	1.000 1.		1.100
gear	Final	Type of gear	Hypoid		
	Filiai	Gear ratio	4.111	3.900	3.545
Front differential	I Type and number of dear		Straight beve	el 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		r: 2 and viscous coupling)
Transmission gear oil		GL-5			
Transmission oil capacity		3.5 & (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

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

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. MAIN SHAFT

Snap ring (Outer-25) to synchronizer hub clearance

0.060 — 0.100 mm (0.0024 — 0.0039 in)

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

### 6. 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 reverse idler gear to transmission case wall clearance to within 0 to 0.5 mm (0 to 0.020 in) using washers.

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)		

### 7. 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.	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.	Remarks		
32812AA201	4	Approach to 5th gear by 0.2 mm (0.008 in)	
32812AA211	5	Standard	
32812AA221	6	Become distant from 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)	

### 8. 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 center.		
32189AA030	3	37°	Arm stops closer to reverse gear.		
32189AA040	4	40°	Arm stops closer to reverse gear.		

### 9. 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)

### NOTE:

Be sure to keep the clearance within specifications.

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)			

### **10.FRONT DIFFERENTIAL**

Bevel gear to pinion 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)	I	1		

Pinion shaft to axle drive shaft clearance 0 — 0.2 mm (0 — 0.008 in)

Snap ring (Outer-28)					
Part No.	Thickness mm (in)	Part No.	Thickness mm (in)		
805028011	1.05 (0.0413)	805028012	1.20 (0.0472)		

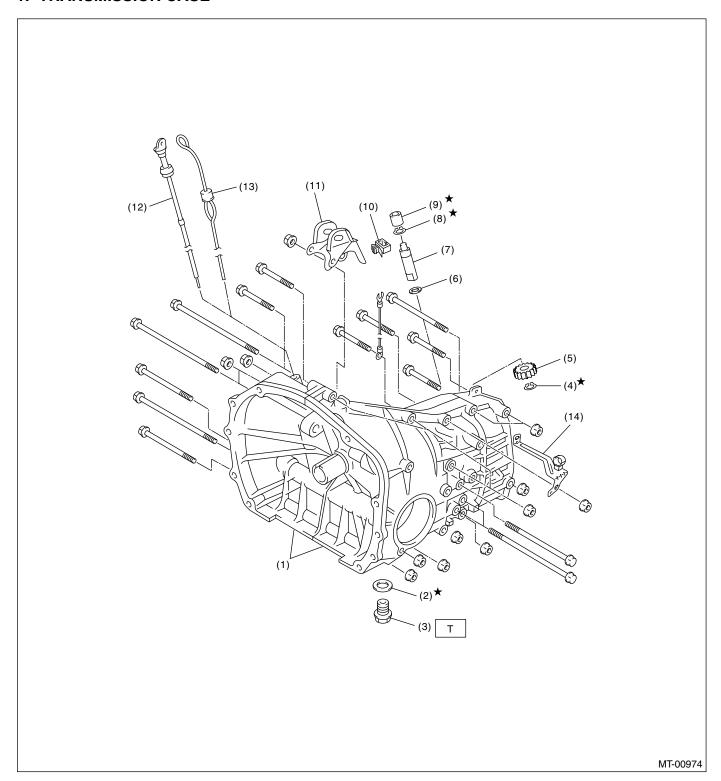
### 11.TRANSFER DRIVE GEAR

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



# **GENERAL DESCRIPTION**

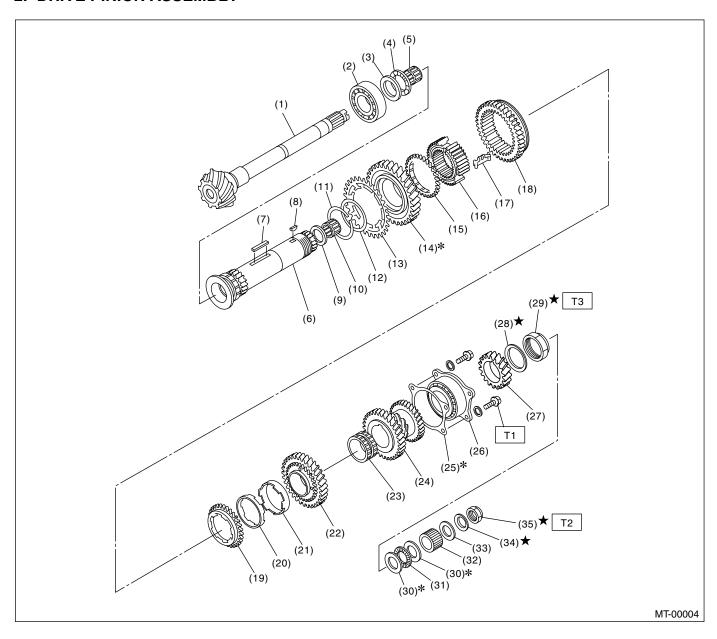
# MANUAL TRANSMISSION AND DIFFERENTIAL

(1)	Transmission case ASSY	(7)	Speedometer shaft	(13)	Oil level gauge (Turbo model)
(2)	Gasket	(8)	Snap ring (Outer)	(14)	Harness bracket (Non-turbo
(3)	Drain plug	(9)	Oil seal		model)
(4)	Snap ring (Outer)	(10)	Clamp		
(5)	Speedometer driven gear	(11)	Pitching stopper bracket	Tighte	ening torque: N·m (kgf-m, ft-lb)
(6)	Washer	(12)	Oil level gauge (Non-turbo model)	T:	69 (7.0, 50.6)

# • Transmission case tightening torque

$\langle 9 \rangle \langle 5 \rangle \langle 7 \rangle \langle 16 \rangle \langle 17 \rangle \langle 11 \rangle$	Bolt No.	Bolt size	Tightening torque: N·m (kgf-m, ft-lb)
(15) (2) (3)	<5> to <15>	8 mm	24.5 (2.5, 18.1)
(14) (10) (6) (8) (12) MT-00003	<1> to <4><16>, <17>	10 mm	39 (4.0, 28.9)

### 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) Snap ring (Outer)
- (12) Washer
- (13) Sub gear
- (14) 1st driven gear

- (15) Baulk ring
- (16) 1st-2nd synchronizer hub
- (17) Insert key
- (18) Reverse driven gear
- (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) Washer
- (31) Thrust bearing
- (32) Differential bevel gear sleeve
- (33) Washer
- (34) Lock washer
- (35) Lock nut

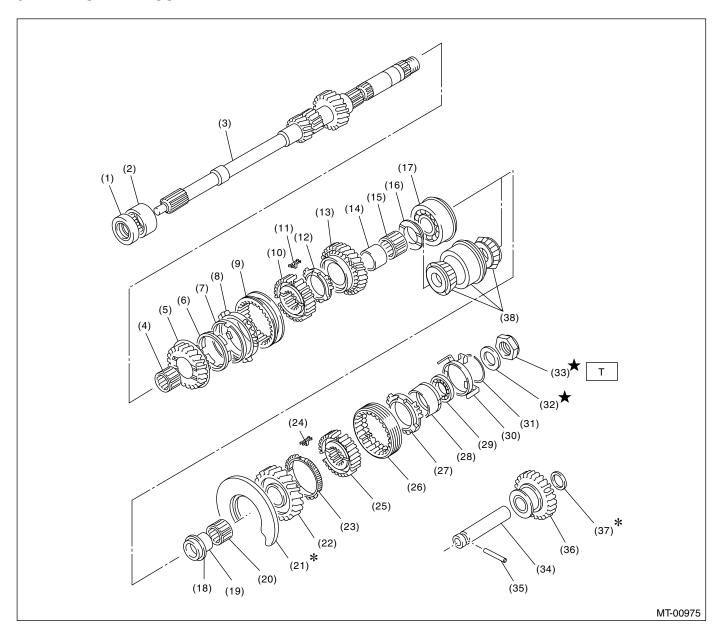
### Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 30.5 (3.1, 22.5)

T2: 120 (12.2, 88.5)

T3: 260 (26.5, 191.7)

### 3. MAIN SHAFT ASSEMBLY



- (1) Oil seal
- (2) Needle bearing
- (3) Transmission main shaft
- (4) 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

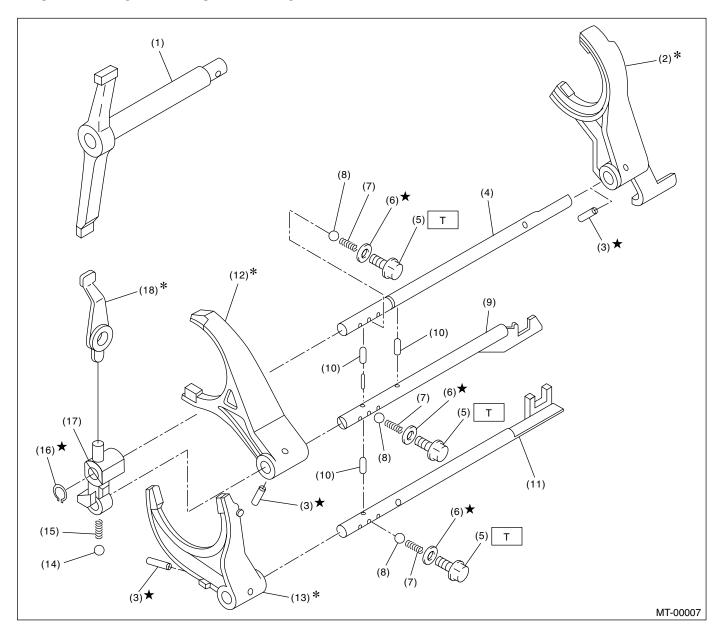
- (15) Needle bearing
- (16) 4th gear thrust washer
- (17) Ball bearing (Non-turbo model)
- (18) 5th gear thrust washer
- (19) 5th needle bearing race
- (20) Needle bearing
- (21) Main shaft rear plate
- (22) 5th drive gear
- (23) 5th baulk ring
- (24) 5th-Rev shifting insert key
- (25) 5th-Rev synchronizer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

## 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) Ball

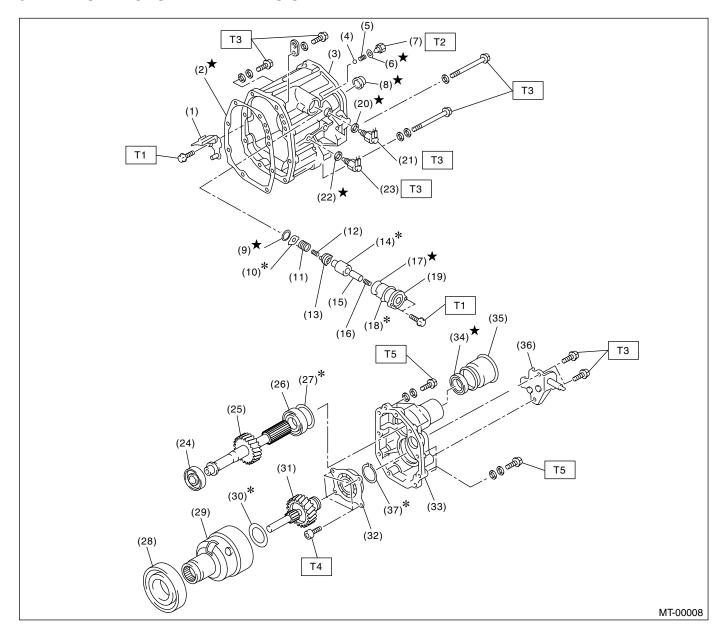
- (9) 3rd-4th fork rod
- (10) Interlock plunger
- (11) 1st-2nd fork rod
- (12) 3rd-4th shifter fork
- (13) 1st-2nd shifter fork
- (14) Ball
- (15) Spring
- (16) Snap ring (Outer)

- (17) Reverse fork rod arm
- (18) Reverse shifter lever

Tightening torque: N·m (kgf-m, ft-lb)

T: 19.5 (2.0, 14.4)

### 5. TRANSFER CASE AND EXTENSION



- (1) Oil guide
- (2) Gasket
- (3) Transfer case
- (4) 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)

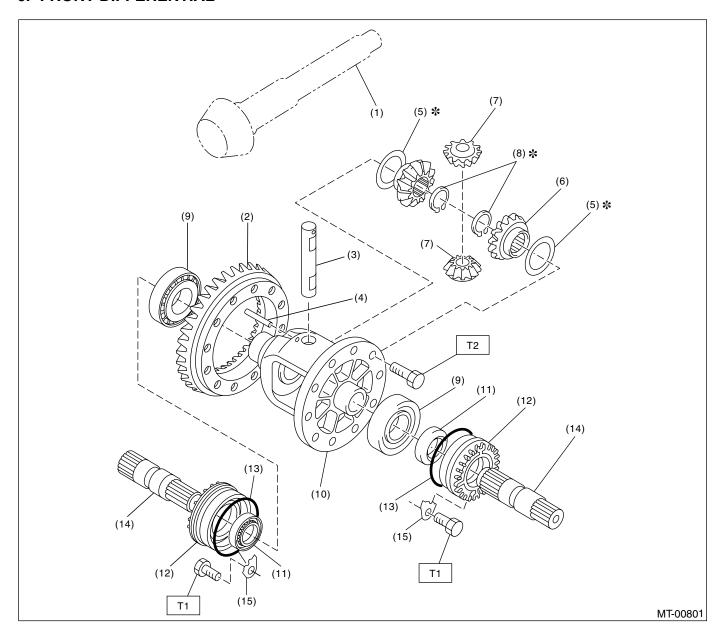
T2: 9.75 (1.0, 7.2)

T3: 25 (2.5, 18.1)

T4: 26 (2.7, 20)

T5: 40 (4.1, 29.7)

## 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) Snap ring (Outer)
- (9) Roller bearing
- (10) Differential case
- (11) Oil seal
- (12) Differential side retainer
- (13) O-ring
- (14) Axle drive shaft

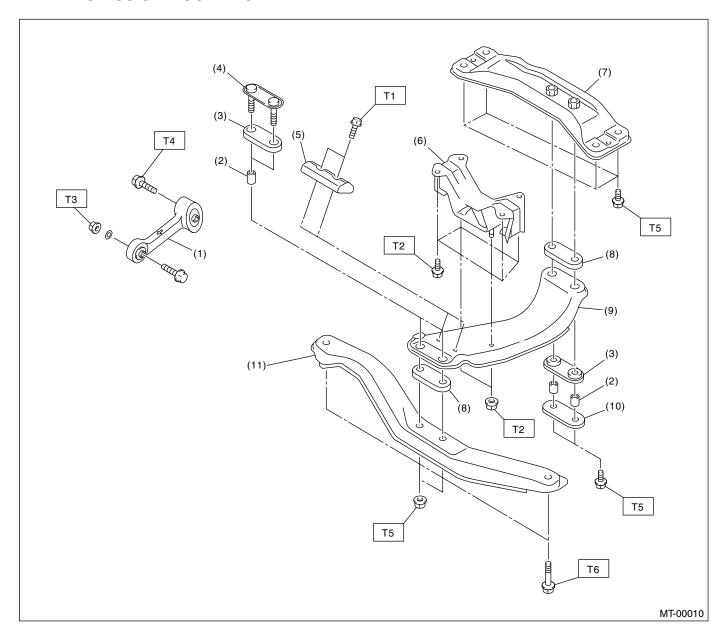
(15) Retainer lock plate

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 24.5 (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.
- 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 vise.
- 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
ILLUSTRATION			
	398791700	REMOVER	Used for removing and installing spring pin (6 mm).
ST-398791700			
	399411700	ACCENT BALL INSTALLER	Used for installing reverse shifter rail arm.
ST-399411700			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
(1) (2) ST-899524100	899524100	PULLER SET	Used for removing and installing roller bearing (Differential). (1) PULLER (2) CAP
31-033324100	399780104	WEIGHT	Used for measuring preload on roller bearing.
ST-399780104			
	498077000	REMOVER	Used for removing roller bearing of drive pinion shaft.
ST-498077000			SHAIL.
\$1-498077000	498077300	CENTER DIFFER-	Used for removing the center differential cover
ST-498077300	133377330	ENTIAL BEARING REMOVER	ball bearing.

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	498147000	DEPTH GAUGE	Used for adjusting main shaft axial end play.
07 /22/ /722			
ST-498147000	498247001	MAGNET BASE	Used for measuring backlash between side
			gear and pinion, and hypoid gear.
			Used with DIAL GAUGE (498247100).
ST-498247001			
	498247100	DIAL GAUGE	Used for measuring backlash between side gear and pinion, and hypoid gear.
			Used with MAGNET BASE (498247001).
Į			
ST-498247100			
	498427100	STOPPER	Used for securing the drive pinion shaft assem-
			bly and driven gear assembly when removing the drive pinion shaft assembly lock nut.
			,
ST-498427100			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	498937000	TRANSMISSION HOLDER	Used for removing and installing transmission
		HOLDER	main shaft lock nut.
07 /			
ST-498937000	499277100	BUSH 1-2	Used for installing 1st driven gear thrust plate
		INSTALLER	and 1st-2nd driven gear bush.
			• Used for installing roller bearing outer races to differential case.
ST-499277100			
	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)
			bearing (25 $\times$ 26 $\times$ 17).  • Used for installing bearing cone of transfer
			driven gear (extension core side).
ST-499757002			
		1	

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	499787000	WRENCH ASSY	Used for removing and installing differential side
			retainer.
ST-499787000			
	499827000	PRESS	Used for installing speedometer oil seal when installing speedometer cable to transmission.
			installing speedometer cable to transmission.
ST-499827000	400057000	5TH DRIVEN GEAR	Lload for your paints (Tab drivers were
	499857000	REMOVER	Used for removing 5th driven gear.
ST-499857000			
\$1-49985/000	499877000	RACE 4-5	Used for installing 4th needle bearing race and
		INSTALLER	ball bearing onto transmission main shaft.
			Used with REMOVER (899714110).
Market State of the State of th			
ST-499877000			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	499917500	DRIVE PINION	Used for adjusting drive pinion shim.
		GAUGE ASSY	
0			
ST-499917500	400007100	HANDLE	Lineal for fishing Arguerianian main aboth
	499927100	HANDLE	Used for fitting transmission main shaft.
ST-499927100			
	499937100	TRANSMISSION	Stand used for transmission disassembly and
l f		STAND SET	assembly.
ST-499937100	499987003	SOCKET WRENCH	Head for removing and installing driven sisters
	499907003	(35)	Used for removing and installing driven pinion lock nut and main shaft lock nut.
ST-499987003			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	499987300	SOCKET WRENCH (50)	Used for removing and installing driven gear assembly lock nut.
		(30)	assembly lock flut.
07			
ST-499987300	899714110	REMOVER	Used for fixing transmission main shaft, drive
			pinion and rear drive shaft.
ST-899714110			
	899864100	REMOVER	Used for removing parts on transmission main shaft and drive pinion.
ST-899864100			
	899884100	HOLDER	Used for tightening lock nut on sleeve.
ST-899884100			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	899904100	REMOVER	Used for removing and installing straight pin.
ST-899904100			
	899988608	SOCKET WRENCH (27)	Used for removing and installing drive pinion lock nut.
ST-899988608			
01 00000000	398497701	ADAPTER	Used for installing roller bearing onto differen-
			tial case. • Used with INSTALLER (499277100).
			,
ST-398497701	400507000	INIOTALLED	Handfanindalling drives
	499587000	INSTALLER	Used for installing driven gears to driven shaft.
ST-499587000			
	499587000	INSTALLER	Used for installing driven gears to driven shaft

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	899824100	PRESS	Used for installing speedometer shaft oil seal.
ST-899824100			
	499987100	SOCKET WRENCH	Used for removing and installing drive pinion
		(35)	lock nut.
ST-499987100			
	899984103	SOCKET WRENCH (35)	Used for removing and installing drive pinion lock nut.
		(00)	ION TIGE.
ST-899984103			
	498057300	INSTALLER	Used for installing extension oil seal.
ST-498057300			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	498255400	PLATE	Used for measuring backlash.
ST-498255400			
	498077400	SYNCHRONIZER	Used for removing synchronizer cone of main
		CONE REMOVER	shaft.  • Used for removing 5th driven gear of drive pin-
			ion shaft.
ST-498077400			
	41099AA000	ENGINE SUPPORT	Used for supporting engine.
		BRACKET	(1) Engine support bracket (41099AA010) (2) Engine support (41099AA020)
(1)			(, 3
(0)			
(2)			
ST41099AA000			
	398527700	PULLER ASSY	Used for removing extension case roller bearing.
ST-398527700			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	398643600	GAUGE	Used for measuring total end play, extension end play and drive pinion height.
ST-398643600			
	38177700	INSTALLER	<ul> <li>Used for installing bearing cone of transfer driven gear (transfer case side).</li> <li>Used for installing ball bearing of transfer drive gear.</li> </ul>
ST-398177700			
	499797000	INSTALLER	Used for installing differential side retainer oil seal.
ST-499797000			

# 2. GENERAL PURPOSE TOOLS

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