

GENERAL DESCRIPTION

Manual Transmission and Differential

1. General Description S503001

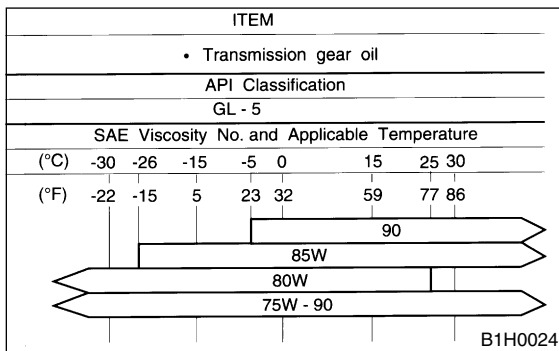
A: SPECIFICATIONS S503001E49

1. MANUAL TRANSMISSION AND DIFFERENTIAL S503001E4901

Item		Model			
		BRIGHTON	L	GT	OUTBACK
Type		5-forward speeds with synchromesh and 1-reverse			
Transmission gear ratio	1st	3.454			
	2nd	2.062			
	3rd	1.448			
	4th	1.088			
	5th	0.780		0.871	
	Reverse	3.333			
Front reduction gear	Final	Type of gear	Hypoid		
		Gear ratio	3.900		4.111
Rear reduction gear	Transfer	Type of gear	Helical		
		Gear ratio	1.000		
	Final	Type of gear	Hypoid		
		Gear ratio	3.900		4.111
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 S503001E4902

Recommended oil



3. TRANSMISSION CASE ASSEMBLY S503001E4903

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 S503001E4904

Preload adjustment of thrust bearing

Starting torque

0.3 — 0.8 N·m (0.03 — 0.08 kgf-m, 0.2 — 0.6 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. REVERSE IDLER GEAR S503001E4905

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 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 × 26 × 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)	—	—

6. SHIFTER FORK AND ROD S503001E4906

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

7. TRANSFER CASE S503001E4907

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.

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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.

8. EXTENSION ASSEMBLY SS03001E4908

Thrust washer (50 × 61 × t) to taper roller bearing table outer race side clearance

0.2 — 0.3 mm T (0.0008 — 0.012 in T)

NOTE:

T: Tight

Thrust washer (50 × 61 × 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)

9. FRONT DIFFERENTIAL SS03001E4909

Bevel gear to pinion backlash

0.13 — 0.18 mm (0.0051 — 0.0071 in)

Washer (38.1 × 50 × 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)

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)

10. TRANSFER DRIVE GEAR SS03001E4913

Snap ring (Outer-30) to ball bearing clearance

0.01 — 0.15 mm (0.004 — 0.0050 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)

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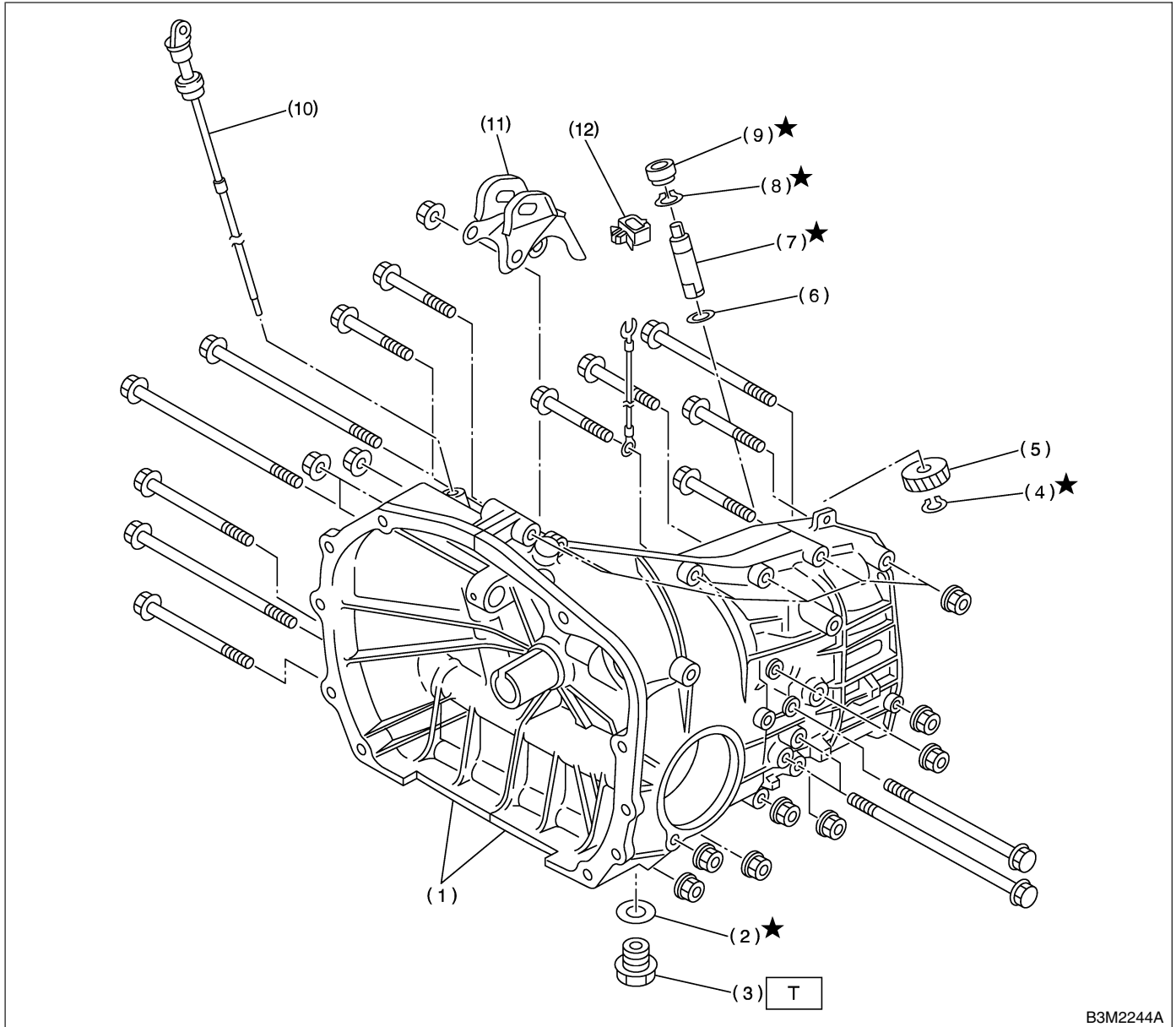
MEMO:

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B: COMPONENT S503001A05

1. TRANSMISSION CASE S503001A0501



B3M2244A

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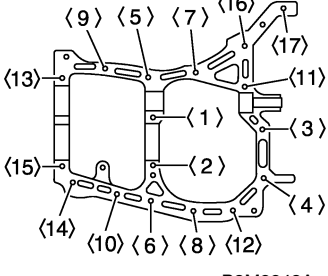
- (1) Transmission case ASSY
- (2) Gasket
- (3) Drain plug
- (4) Snap ring (Outer)
- (5) Speedometer driven gear

- (6) Washer
- (7) Speedometer shaft
- (8) Snap ring (Outer)
- (9) Oil seal
- (10) Oil level gauge

- (11) Pitching stopper bracket
- (12) Clamp

Tightening torque: N·m (kgf-m, ft-lb)
T: 44 (4.5, 32.5)

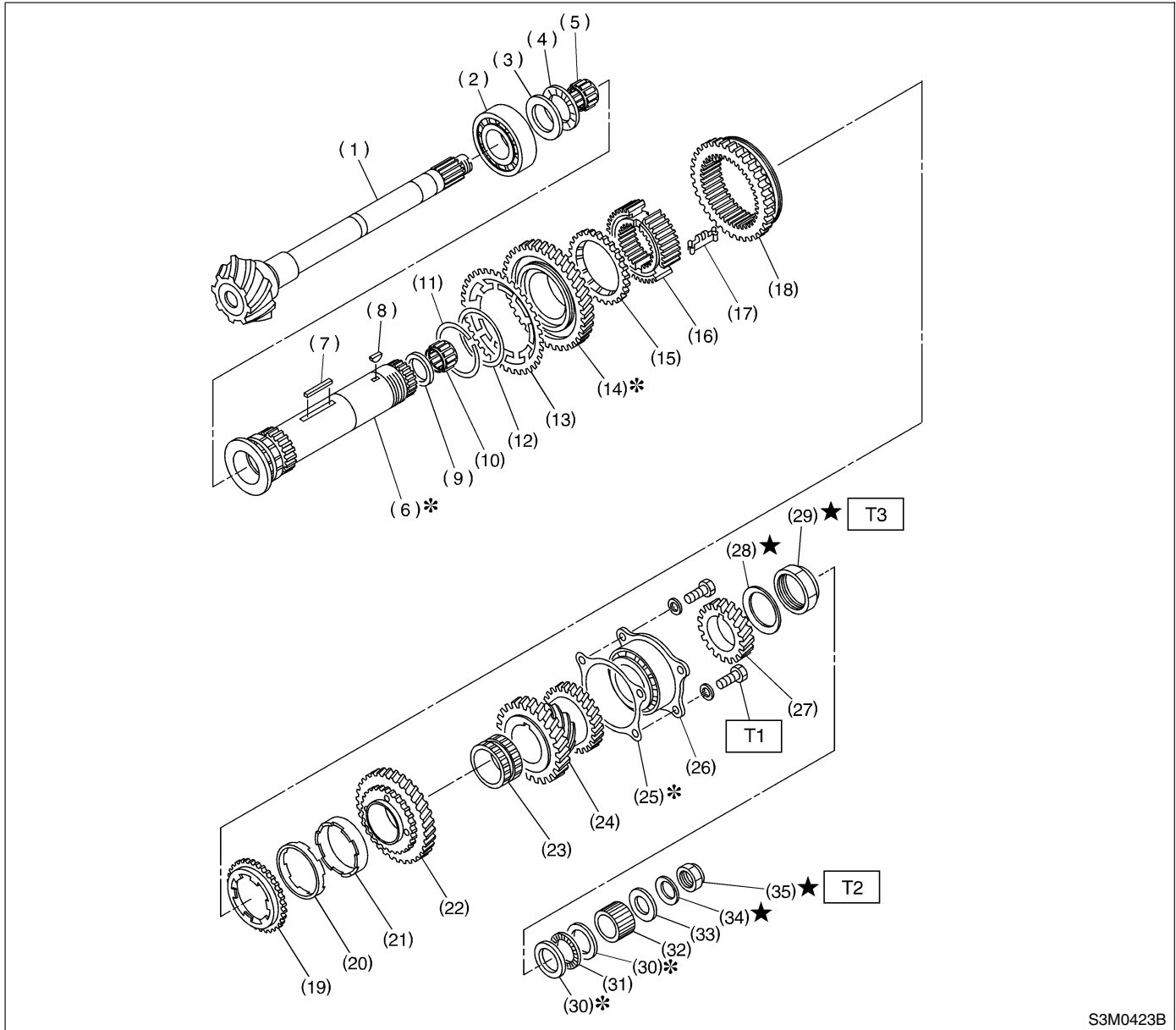
● **Transmission case tightening torque:**

 <p style="text-align: center;">B3M2243A</p>	Bolt No.	Bolt size	Tightening torque: N-m (kgf-m, ft-lb)
	<5> to <15>	8 mm	25 (2.5, 18.1)
	<1> to <4> <16>, <17>	10 mm	39 (4.0, 28.9)

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2. DRIVE PINION ASSEMBLY S503001A0502



- (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 bushing
- (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

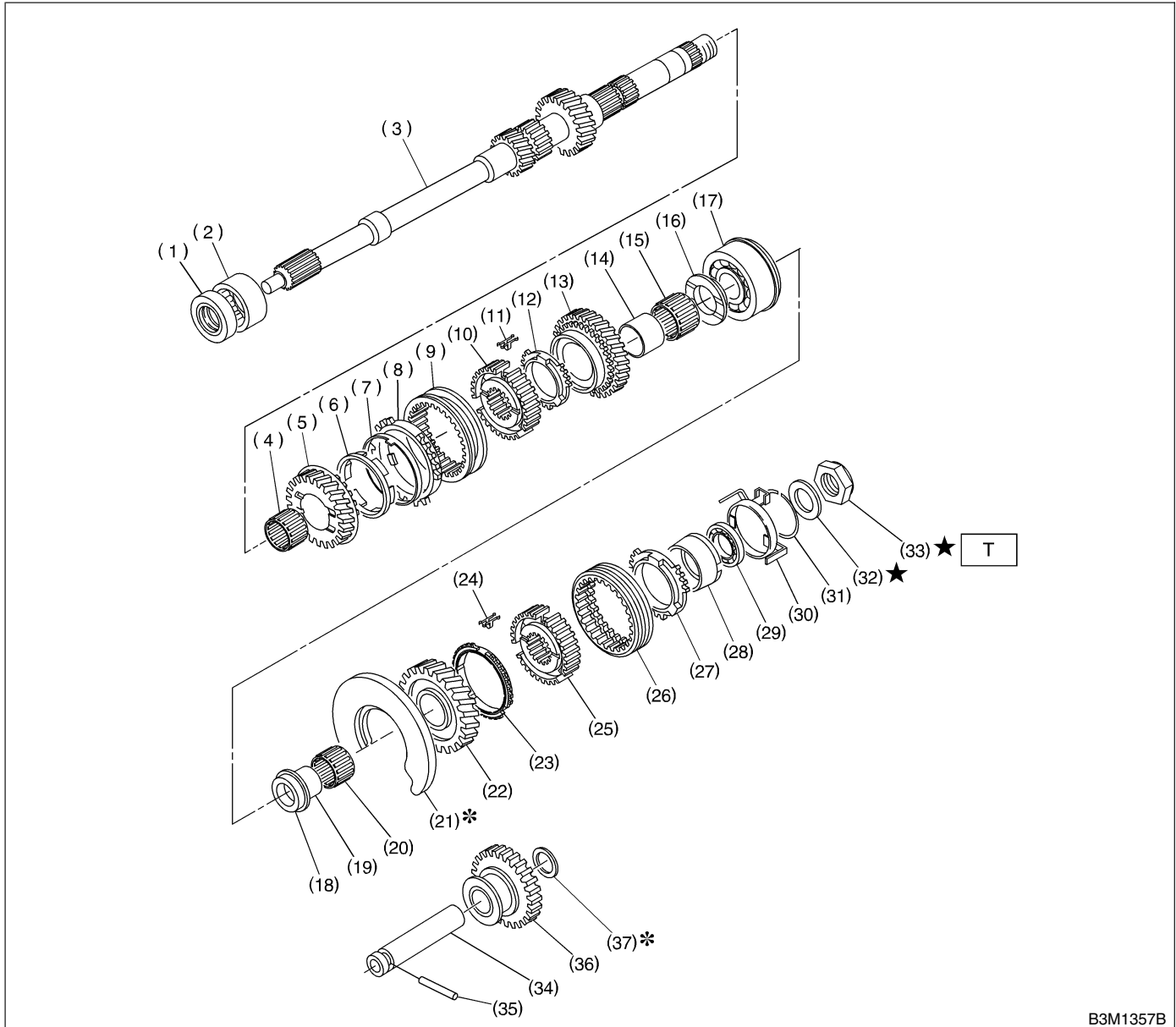
Tightening torque: N·m (kgf·m, ft·lb)

T1: 29 (3.0, 21.7)

T2: 118 (12.0, 86.8)

T3: 265 (27, 195)

3. MAIN SHAFT ASSEMBLY S502001A0503



B3M1357B

- | | | |
|------------------------------------|------------------------------------|-------------------------------|
| (1) Oil seal | (15) Needle bearing | (29) Ball bearing |
| (2) Needle bearing | (16) 4th gear thrust washer | (30) Synchro cone stopper |
| (3) Transmission main shaft | (17) Ball bearing | (31) Snap ring |
| (4) Needle bearing | (18) 5th gear thrust washer | (32) Lock washer |
| (5) 3rd drive gear | (19) 5th needle bearing race | (33) Lock nut |
| (6) Inner baulk ring | (20) Needle bearing | (34) Reverse idler gear shaft |
| (7) Synchro cone (3rd) | (21) Main shaft rear plate | (35) Straight pin |
| (8) Outer baulk ring | (22) 5th drive gear | (36) Reverse idler gear |
| (9) Coupling sleeve (3rd-4th) | (23) 5th baulk ring | (37) Washer |
| (10) Synchronizer hub (3rd-4th) | (24) Shifting insert key (5th-Rev) | |
| (11) Shifting insert key (3rd-4th) | (25) Synchronizer hub (5th-Rev) | |
| (12) 4th baulk ring | (26) Coupling sleeve (5th-Rev) | |
| (13) 4th drive gear | (27) Rev baulk ring | |
| (14) 4th needle bearing race | (28) Synchro cone (Rev) | |

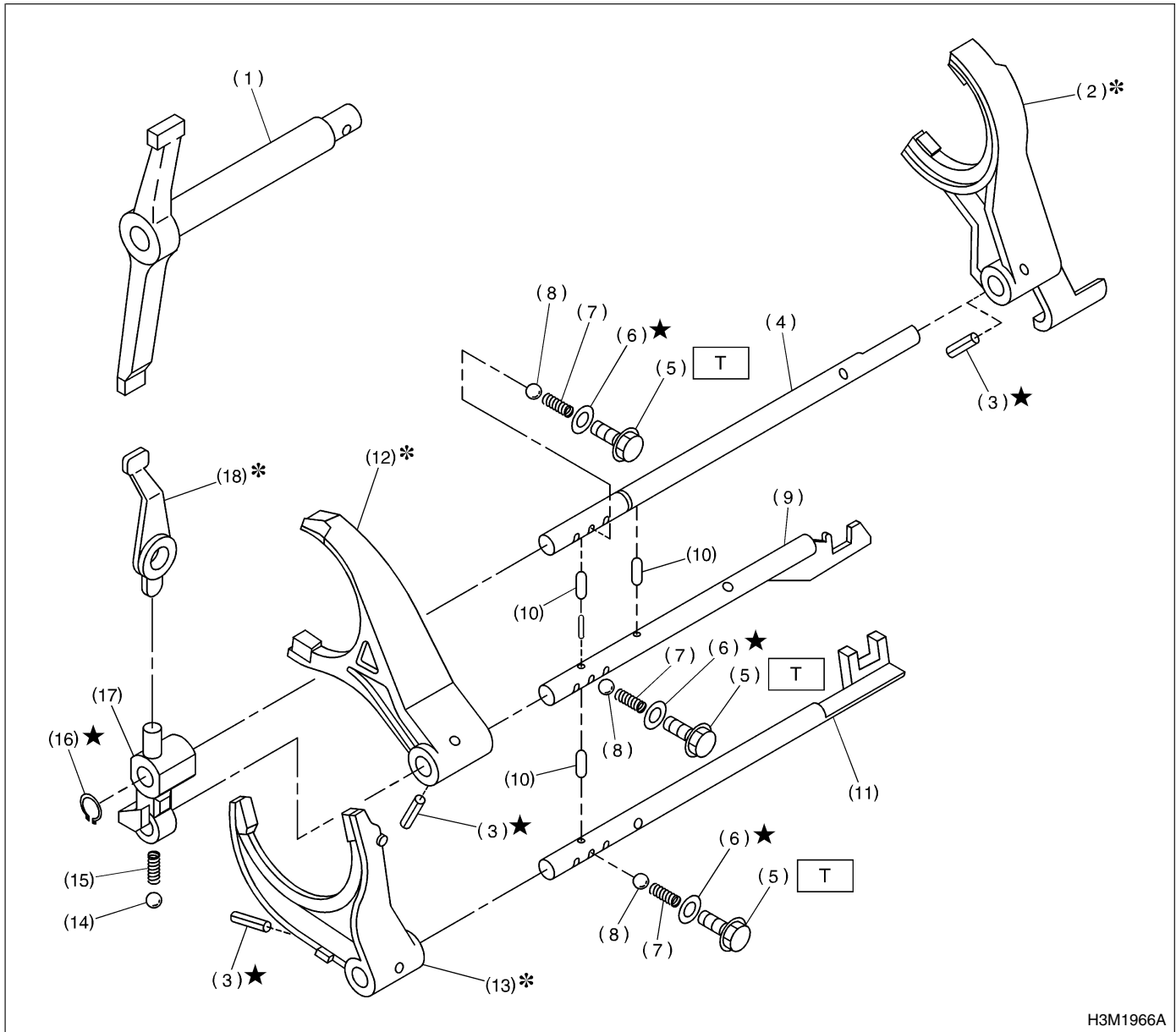
Tightening torque: N·m (kgf·m, ft·lb)
T: 118 (12.0, 86.8)

GENERAL DESCRIPTION

Manual Transmission and Differential

4. SHIFTER FORK AND SHIFTER ROD

S503001A0504



H3M1966A

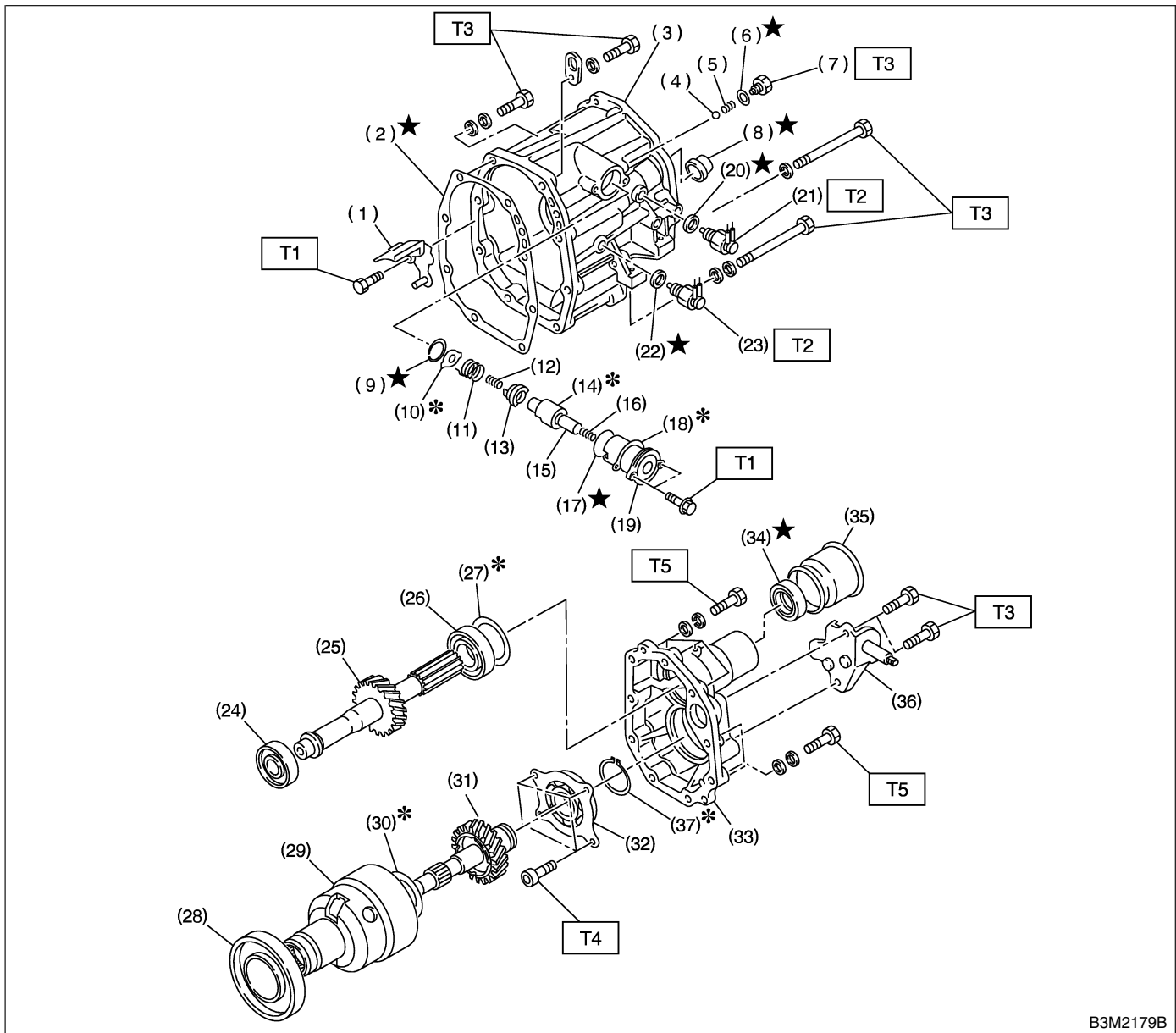
- (1) Shifter arm
- (2) 5th shifter fork
- (3) Straight pin
- (4) Reverse fork rod
- (5) Checking ball plug
- (6) Gasket
- (7) Checking ball spring
- (8) Ball
- (9) 3rd-4th fork rod
- (10) Interlock plunger
- (11) 1st-2nd fork rod
- (12) 3rd-4th shifter fork
- (13) 1st-2nd shifter fork

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

Tightening torque: N·m (kgf·m, ft·lb)
T: 19.6 (2.0, 14.5)

5. TRANSFER CASE AND EXTENSION

S503001A0505



B3M2179B

- | | | |
|----------------------------|----------------------------|--------------------------|
| (1) Oil guide | (16) Return spring | (31) Transfer drive gear |
| (2) Gasket | (17) O-ring | (32) Ball bearing |
| (3) Transfer case | (18) Adjusting select shim | (33) Extension |
| (4) Ball | (19) Reverse check sleeve | (34) Oil seal |
| (5) Reverse accent spring | (20) Gasket | (35) Dust cover |
| (6) Gasket | (21) Neutral switch | (36) Shift bracket |
| (7) Plug | (22) Gasket | (37) Snap ring |
| (8) Oil seal | (23) Back-up light switch | |
| (9) Snap ring (Inner) | (24) Roller bearing | |
| (10) Reverse check plate | (25) Transfer driven gear | |
| (11) Reverse check spring | (26) Roller bearing | |
| (12) Reverse return spring | (27) Adjusting washer | |
| (13) Reverse check cam | (28) Ball bearing | |
| (14) Reverse accent shaft | (29) Center differential | |
| (15) Return spring cap | (30) Adjusting washer | |

Tightening torque: N·m (kgf·m, ft·lb)

T1: 6.4 (0.65, 4.7)

T2: 8.8 (0.9, 6.5)

T3: 10 (1.0, 7.2)

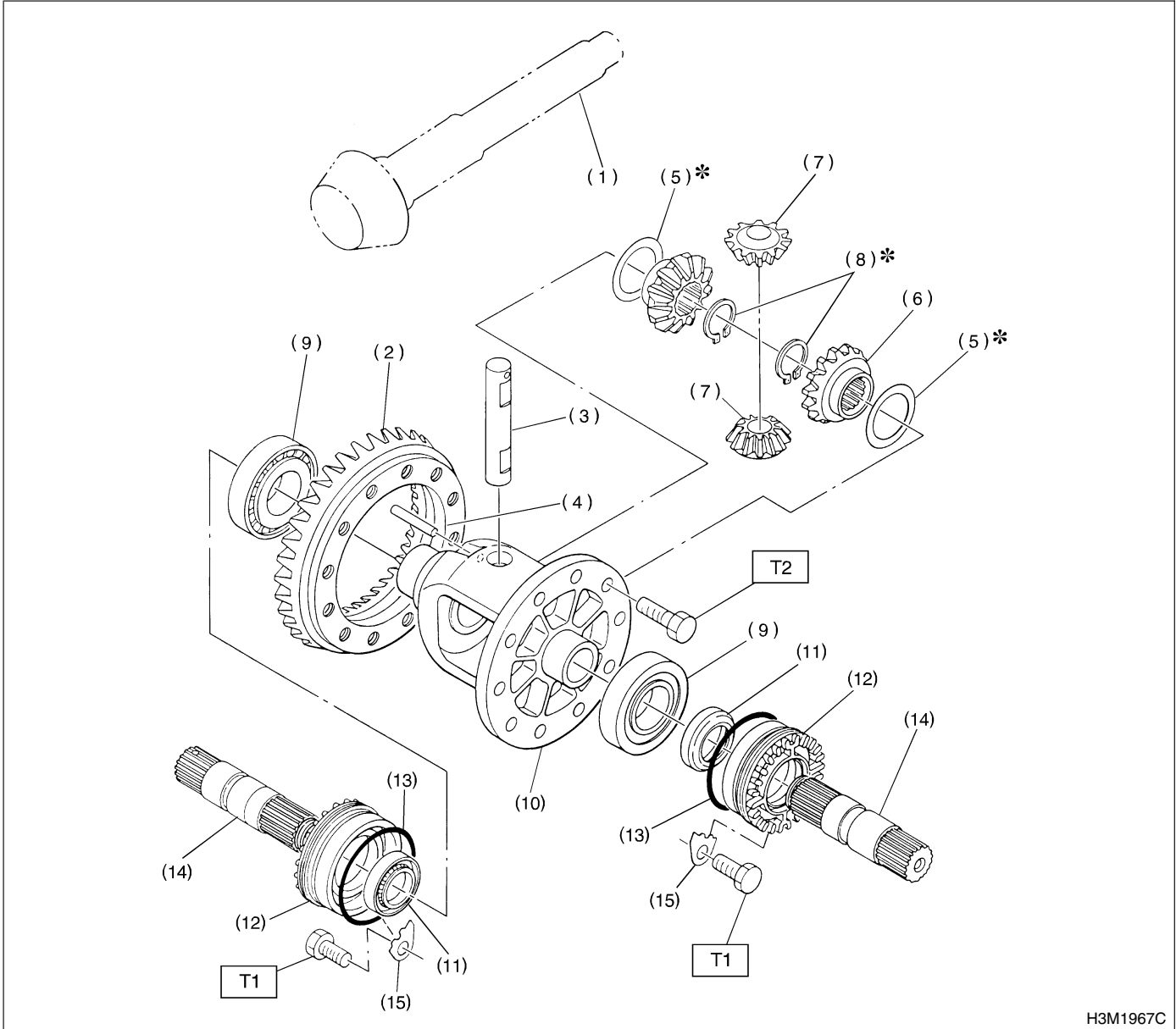
T4: 25 (2.5, 18.1)

T5: 40 (4.1, 29.7)

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6. FRONT DIFFERENTIAL S503001A0506



H3M1967C

- | | |
|-------------------------------|---------------------------------|
| (1) Drive pinion shaft | (8) Snap ring (Outer) |
| (2) Hypoid driven gear | (9) Roller bearing |
| (3) Pinion shaft | (10) Differential case |
| (4) Straight pin | (11) Oil seal |
| (5) Washer | (12) Differential side retainer |
| (6) Differential bevel gear | (13) O-ring |
| (7) Differential bevel pinion | (14) Axle drive shaft |

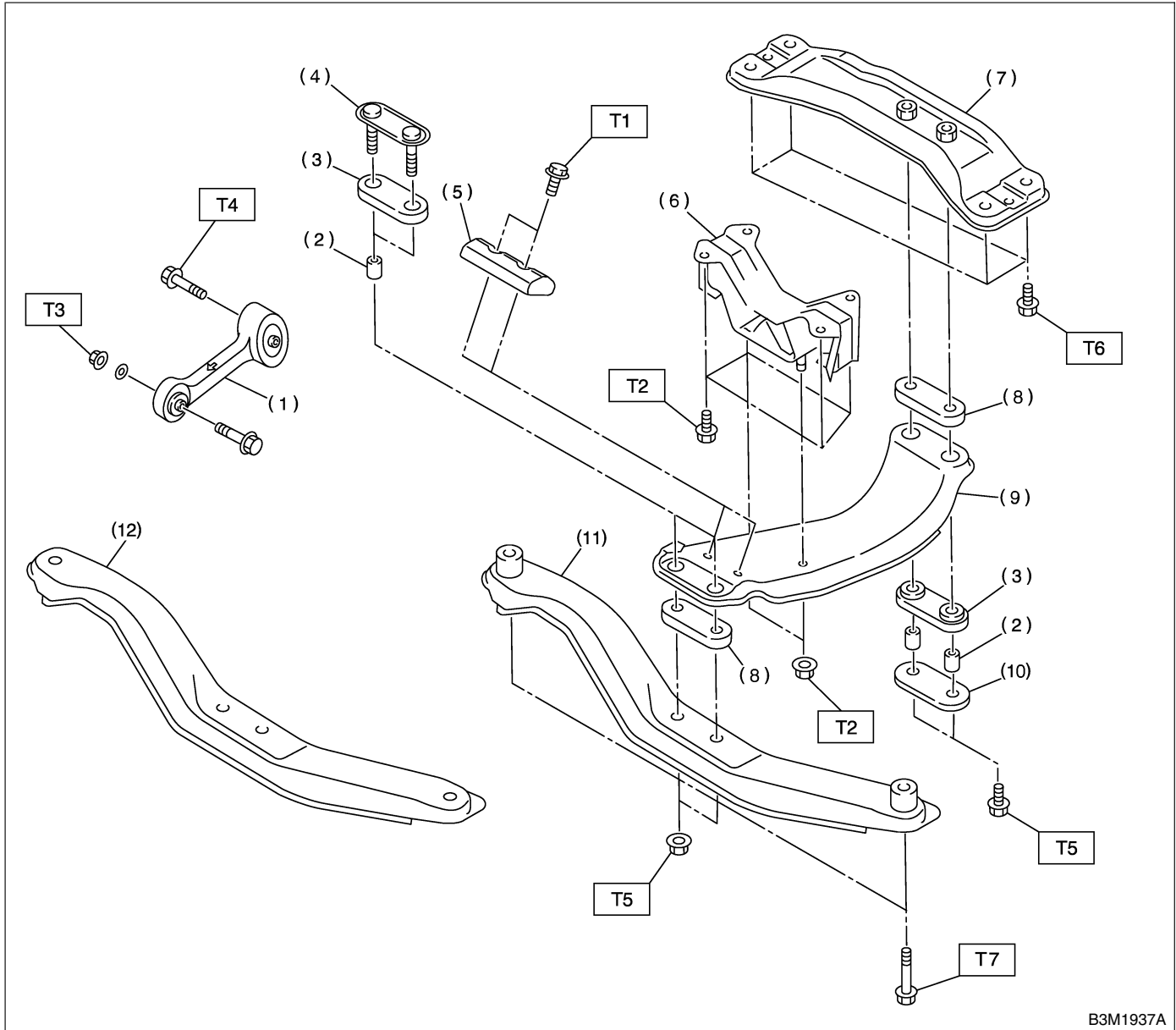
- (15) Retainer lock plate

Tightening torque: N·m (kgf·m, ft·lb)

T1: 25 (2.5, 18.1)

T2: 62 (6.3, 45.6)

7. TRANSMISSION MOUNTING S503001A0507



- | | |
|---------------------------------|---|
| (1) Pitching stopper | (9) Center crossmember |
| (2) Spacer | (10) Rear plate |
| (3) Cushion C | (11) Front crossmember (OUTBACK model) |
| (4) Front plate | (12) Front crossmember (Except OUTBACK model) |
| (5) Damper (Outback model only) | |
| (6) Rear cushion rubber | |
| (7) Rear crossmember | |
| (8) Cushion D | |

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: 75 (7.6, 55)

T7: 140 (14.3, 103)

GENERAL DESCRIPTION

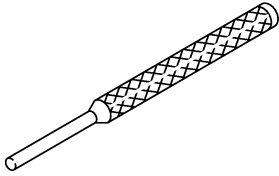
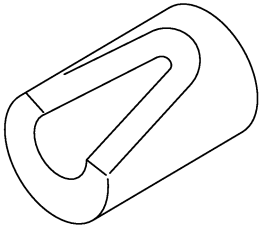
C: CAUTION S503001A03

- 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.

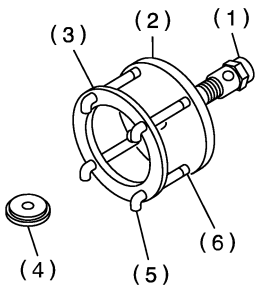
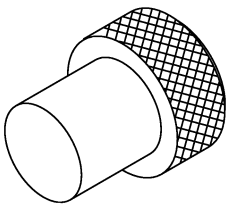
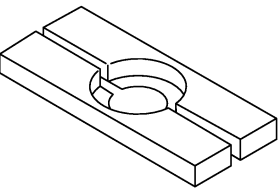
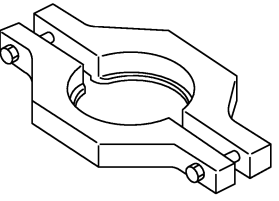
D: PREPARATION TOOL S503001A17

1. SPECIAL TOOLS S503001A1701

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">B3M1938</p>	398791700	REMOVER II	Used for removing and installing spring pin (6 mm).
 <p style="text-align: center;">B3M1939</p>	399411700	ACCENT BALL INSTALLER	Used for installing reverse shifter rail arm.

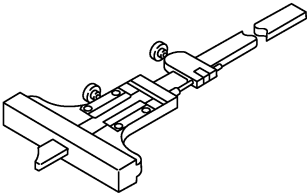
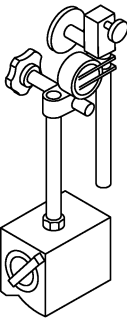
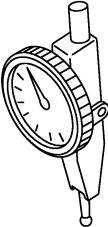
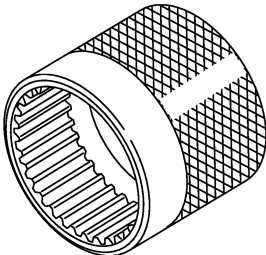
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ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">B3M1940A</p>	399527700	PULLER SET	Used for removing and installing roller bearing (Differential). (1) BOLT (899521412) (2) PULLER (399527702) (3) HOLDER (399527703) (4) ADAPTER (398497701) (5) BOLT (899520107) (6) NUT (021008000)
 <p style="text-align: center;">B3M1941</p>	399780104	WEIGHT	Used for measuring preload on roller bearing.
 <p style="text-align: center;">B3M1942</p>	498077000	5TH DRIVEN GEAR REMOVER	Used for removing roller bearing of drive pinion shaft.
 <p style="text-align: center;">B3M1943</p>	498077300	CENTER DIFFERENTIAL BEARING REMOVER	Used for removing the center differential cover ball bearing.

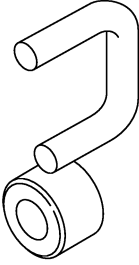
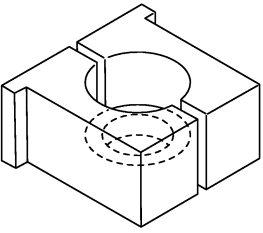
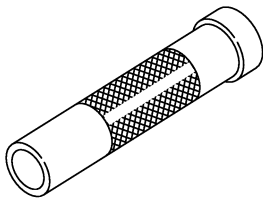
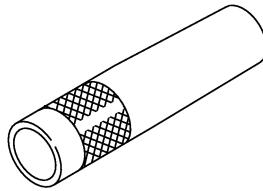
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ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">B3M1944</p>	498147000	DEPTH GAUGE	Used for adjusting main shaft axial end play.
 <p style="text-align: center;">B3M1945</p>	498247001	MAGNET BASE	<ul style="list-style-type: none"> ● Used for measuring backlash between side gear and pinion, and hypoid gear. ● Used with DIAL GAUGE (498247100).
 <p style="text-align: center;">B3M1946</p>	498247100	DIAL GAUGE	<ul style="list-style-type: none"> ● Used for measuring backlash between side gear and pinion, and hypoid gear. ● Used with MAGNET BASE (498247001).
 <p style="text-align: center;">B3M1947</p>	498427100	STOPPER	Used for securing the drive pinion shaft assembly and driven gear assembly when removing the drive pinion shaft assembly lock nut.

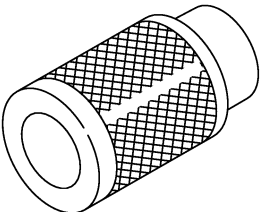
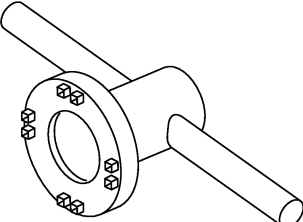
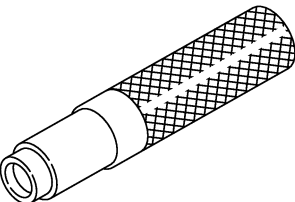
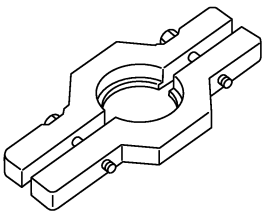
GENERAL DESCRIPTION

Manual Transmission and Differential

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">B3M1948</p>	498787100	MAIN SHAFT STOPPER	Used for removing and installing transmission main shaft lock nut.
 <p style="text-align: center;">B3M1949</p>	498937000	TRANSMISSION HOLDER	Used for removing and installing transmission main shaft lock nut.
 <p style="text-align: center;">B3M1950</p>	499277100	BUSHING 1-2 INSTALLER	<ul style="list-style-type: none"> ● Used for installing 1st driven gear thrust plate and 1st-2nd driven gear bushing. ● Used for installing roller bearing outer races to differential case.
 <p style="text-align: center;">B3M1951</p>	499277200	INSTALLER	Used for press-fitting the 2nd driven gear, roller bearings, and 5th driven gear onto the driven shaft.

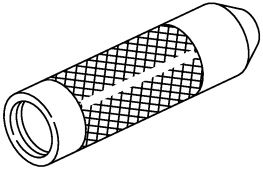
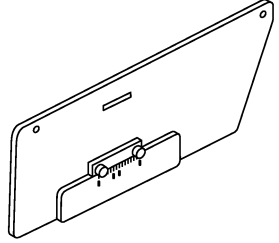
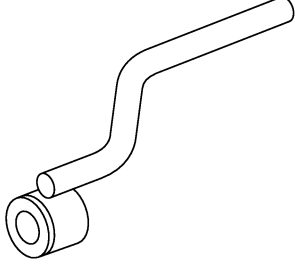
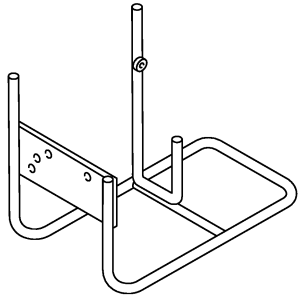
GENERAL DESCRIPTION

Manual Transmission and Differential

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">B3M1952</p>	499757002	SNAP RING PRESS	Used for installing snap ring (OUT 25), and ball bearing (25 x 26 x 17).
 <p style="text-align: center;">B3M1953</p>	499787000	WRENCH ASSY	Used for removing and installing differential side retainer.
 <p style="text-align: center;">B3M1954</p>	499827000	PRESS	Used for installing speedometer oil seal when installing speedometer cable to transmission.
 <p style="text-align: center;">B3M1955</p>	499857000	5TH DRIVEN GEAR REMOVER	Used for removing 5th driven gear.

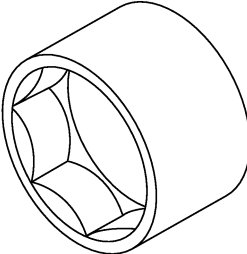
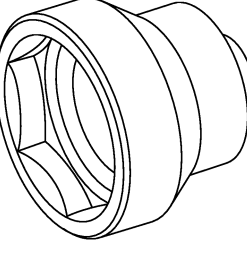
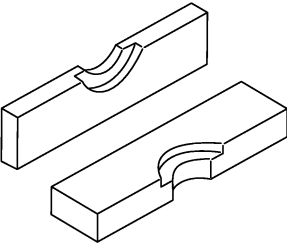
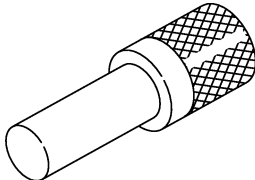
GENERAL DESCRIPTION

Manual Transmission and Differential

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p>B3M1956</p>	499877000	RACE 4-5 INSTALLER	<ul style="list-style-type: none"> • Used for installing 4th needle bearing race and ball bearing onto transmission main shaft. • Used with REMOVER (899714110).
 <p>B3M1957</p>	499917500	DRIVE PINION GAUGE ASSY	Used for adjusting drive pinion shim.
 <p>B3M1958</p>	499927100	HANDLE	Used for fitting transmission main shaft.
 <p>B3M1959</p>	499937100	TRANSMISSION STAND SET	Stand used for transmission disassembly and assembly.

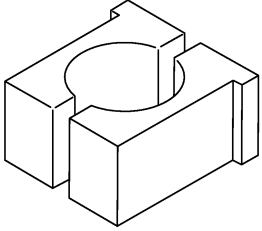
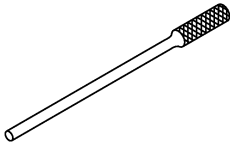
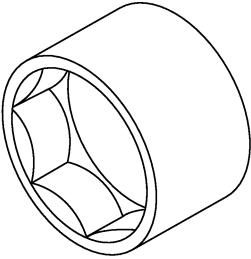
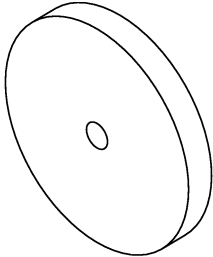
GENERAL DESCRIPTION

Manual Transmission and Differential

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">B3M1960</p>	499987003	SOCKET WRENCH (35)	Used for removing and installing driven pinion lock nut and main shaft lock nut.
 <p style="text-align: center;">B3M1961</p>	499987300	SOCKET WRENCH (50)	Used for removing and installing driven gear assembly lock nut.
 <p style="text-align: center;">B3M1962</p>	899714110	REMOVER	Used for fixing transmission main shaft, drive pinion, rear drive shaft.
 <p style="text-align: center;">B3M1963</p>	899864100	REMOVER	Used for removing parts on transmission main shaft and drive pinion.

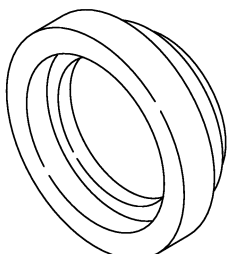
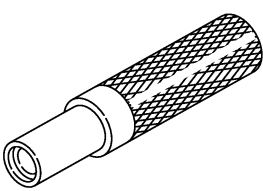
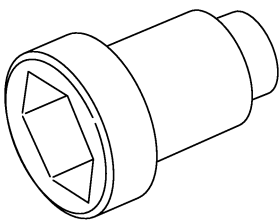
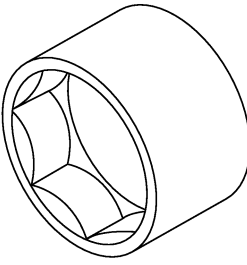
GENERAL DESCRIPTION

Manual Transmission and Differential

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">B3M1964</p>	899884100	HOLDER	Used for tightening lock nut on sleeve.
 <p style="text-align: center;">B3M1965</p>	899904100	REMOVER	Used for removing and installing straight pin.
 <p style="text-align: center;">B3M1966</p>	899988608	SOCKET WRENCH (27)	Used for removing and installing drive pinion lock nut.
 <p style="text-align: center;">B3M1967</p>	398497701	ADAPTER	<ul style="list-style-type: none"> ● Used for installing roller bearing onto differential case. ● Used with INSTALLER (499277100).

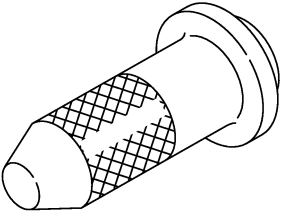
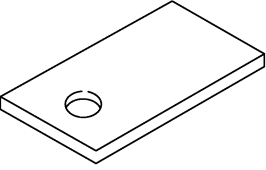
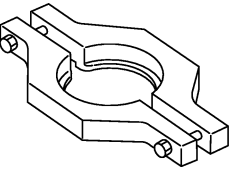
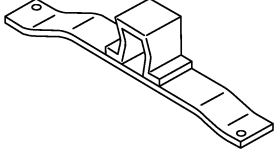
GENERAL DESCRIPTION

Manual Transmission and Differential

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">B3M1968</p>	499587000	INSTALLER	Used for installing driven gears to driven shaft.
 <p style="text-align: center;">B3M1969</p>	899824100	PRESS	Used for installing speedometer shaft oil seal.
 <p style="text-align: center;">B3M1970</p>	499987100	SOCKET WRENCH (35)	Used for removing and installing drive pinion lock nut.
 <p style="text-align: center;">B3M1971</p>	899984103	SOCKET WRENCH (35)	Used for removing and installing drive pinion lock nut.

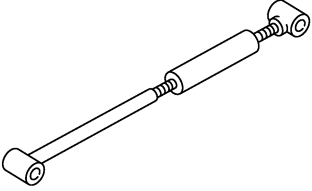
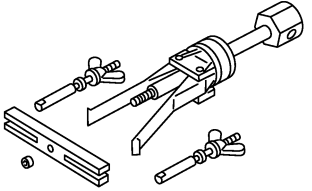
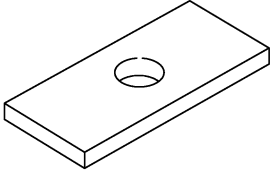
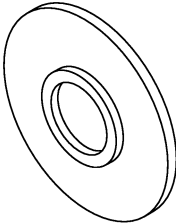
GENERAL DESCRIPTION

Manual Transmission and Differential

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">B3M1972</p>	498057300	INSTALLER	Used for installing extension oil seal.
 <p style="text-align: center;">B3M1973</p>	498255400	PLATE	Used for measuring backlash.
 <p style="text-align: center;">B3M1974</p>	498077400	REMOVER	<ul style="list-style-type: none"> ● Used for removing synchronizer cone of main shaft. ● Used for removing 5th driven gear of drive pinion shaft.
 <p style="text-align: center;">B3M1975</p>	41099AA010	ENGINE SUPPORT BRACKET	Used for supporting engine.

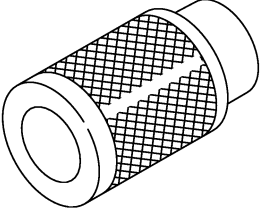
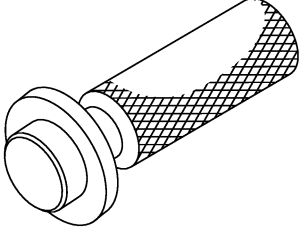
GENERAL DESCRIPTION

Manual Transmission and Differential

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: right;">B3M1976</p>	41099AA020	ENGINE SUPPORT	Used for supporting engine.
 <p style="text-align: right;">B3M1977</p>	398527700	PULLER ASSY	<ul style="list-style-type: none"> ● Used for removing and installing extension case roller bearing. ● Used for removing front differential side retainer bearing cup.
 <p style="text-align: right;">B3M1978</p>	398643600	GAUGE	Used for measuring total end play, extension end play and drive pinion height.
 <p style="text-align: right;">B3M1905</p>	38177700	INSTALLER	Used for installing bearing cone of transfer driven gear (transfer case side).

GENERAL DESCRIPTION

Manual Transmission and Differential

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p data-bbox="363 541 444 562">B3M1952</p>	499757002	INSTALLER	Used for installing bearing cone of transfer driven gear (extension case side).
 <p data-bbox="363 898 444 919">B3M2197</p>	499797000	INSTALLER	Used for installing differential side retainer oil seal.

2. GENERAL PURPOSE TOOLS S503001A1702

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