

# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

### 1. General Description

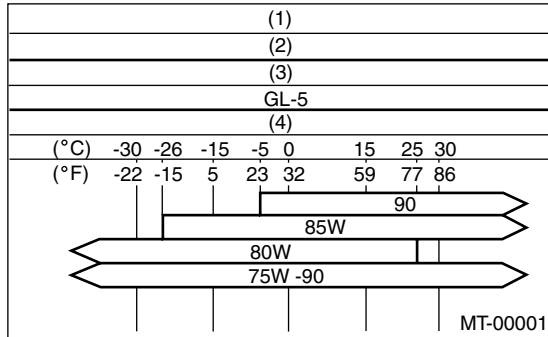
#### A: SPECIFICATION

##### 1. MANUAL TRANSMISSION AND FRONT DIFFERENTIAL

Type		6-forward speeds and 1-reverse	
Transmission gear ratio		1st	3.636
		2nd	2.375
		3rd	1.761
		4th	1.346
		5th	0.971
		6th	0.756
		Reverse	3.545
Front reduction gear	Final	Type of gear	Hypoid
		Gear ratio	3.900
Rear reduction gear	Transfer	Type of gear	Helical
		Gear ratio	1.000
	Final	Type of gear	Hypoid
		Gear ratio	3.900
Front differential	Type and number of gear		AP TRAC
Center differential	Type and number of gear		Planetary gear (Internal gear: 1, Pinion gear: 6, Sun gear: 1 and Electromagnetic floating variable control multiple clutch)
Transmission gear oil		GL-5	
Transmission gear oil capacity		4.1 ℓ (4.3 US qt, 3.6 Imp qt)	

### 2. TRANSMISSION GEAR OIL

#### Recommended oil



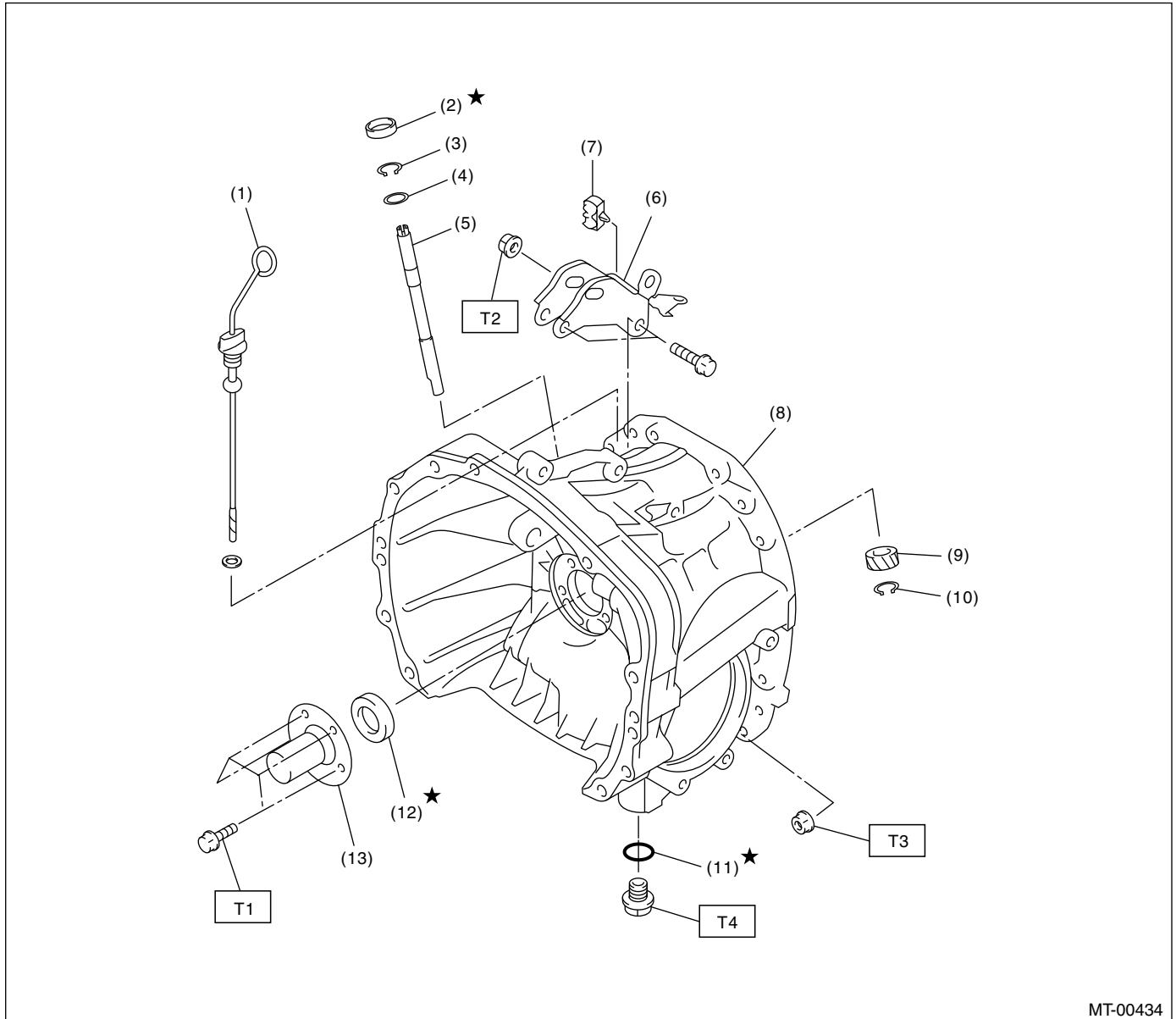
- (1) Item
- (2) Transmission gear oil
- (3) API classification
- (4) SAE viscosity No. and applicable temperature

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## B: COMPONENT

### 1. CLUTCH HOUSING



MT-00434

- |                              |                                   |
|------------------------------|-----------------------------------|
| (1) Oil level gauge          | (8) Clutch housing                |
| (2) Oil seal                 | (9) Speedometer driven gear       |
| (3) Snap ring                | (10) Snap ring                    |
| (4) Washer                   | (11) Gasket                       |
| (5) Speedometer gear shaft   | (12) Oil seal                     |
| (6) Pitching stopper bracket | (13) Clutch release bearing guide |
| (7) Clip                     |                                   |

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

**T1: 6.4 (0.65, 4.7)**

**T2: 41 (4.2, 30.2)**

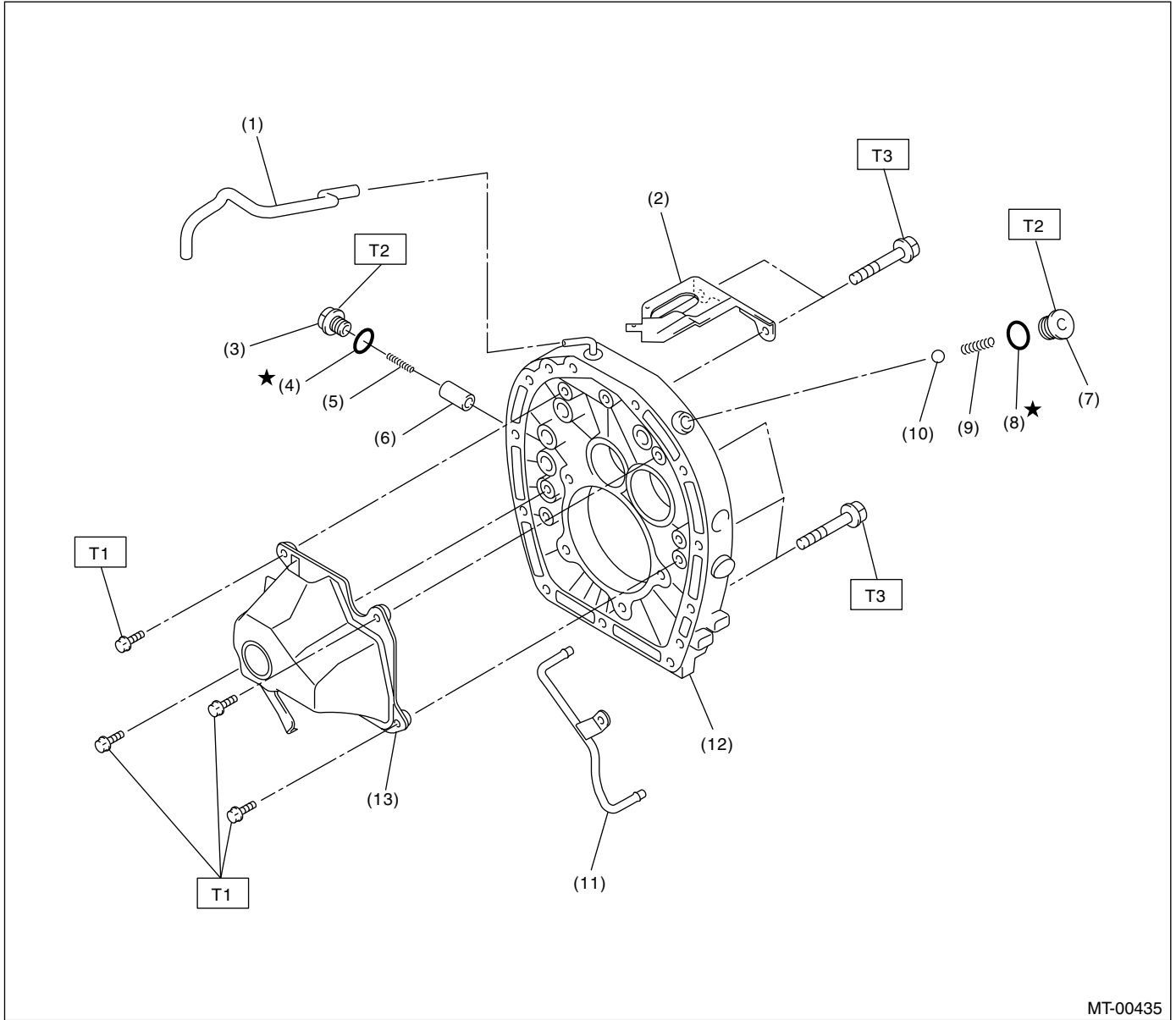
**T3: 50 (5.1, 36.9)**

**T4: 70 (7.1, 51.6)**

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## MANUAL TRANSMISSION AND DIFFERENTIAL

### 2. ADAPTER PLATE



- (1) Breather hose
- (2) Transmission harness stay
- (3) Plug
- (4) Gasket
- (5) Spring
- (6) Plunger

- (7) Plug
- (8) Gasket
- (9) Spring
- (10) Ball
- (11) Lubrication pipe
- (12) Adapter plate

- (13) Oil chamber

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

**T1: 6.4 (0.65, 4.7)**

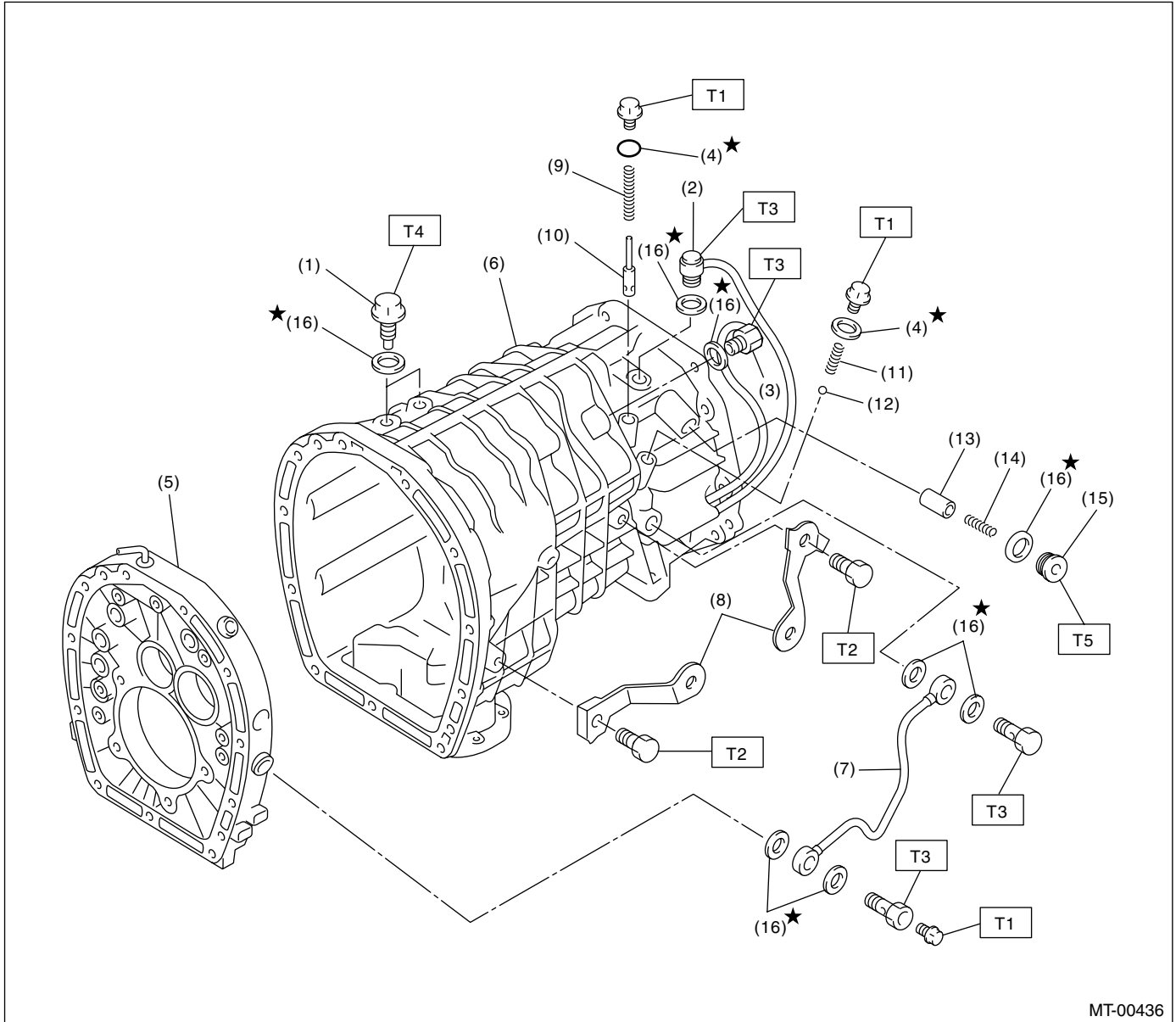
**T2: 37 (3.8, 27.3)**

**T3: 50 (5.1, 36.9)**

# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

### 3. TRANSMISSION CASE



MT-00436

- |                          |                            |
|--------------------------|----------------------------|
| (1) Pilot bolt           | (9) Return spring          |
| (2) Neutral switch       | (10) Pressure relief valve |
| (3) Back-up light switch | (11) Return spring         |
| (4) O-ring               | (12) Ball                  |
| (5) Adapter plate        | (13) Plunger               |
| (6) Transmission case    | (14) Spring                |
| (7) Oil pipe             | (15) Plug                  |
| (8) Harness bracket      | (16) Gasket                |

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

**T1: 13 (1.3, 9.6)**

**T2: 16 (1.6, 11.8)**

**T3: 32 (3.3, 23.6)**

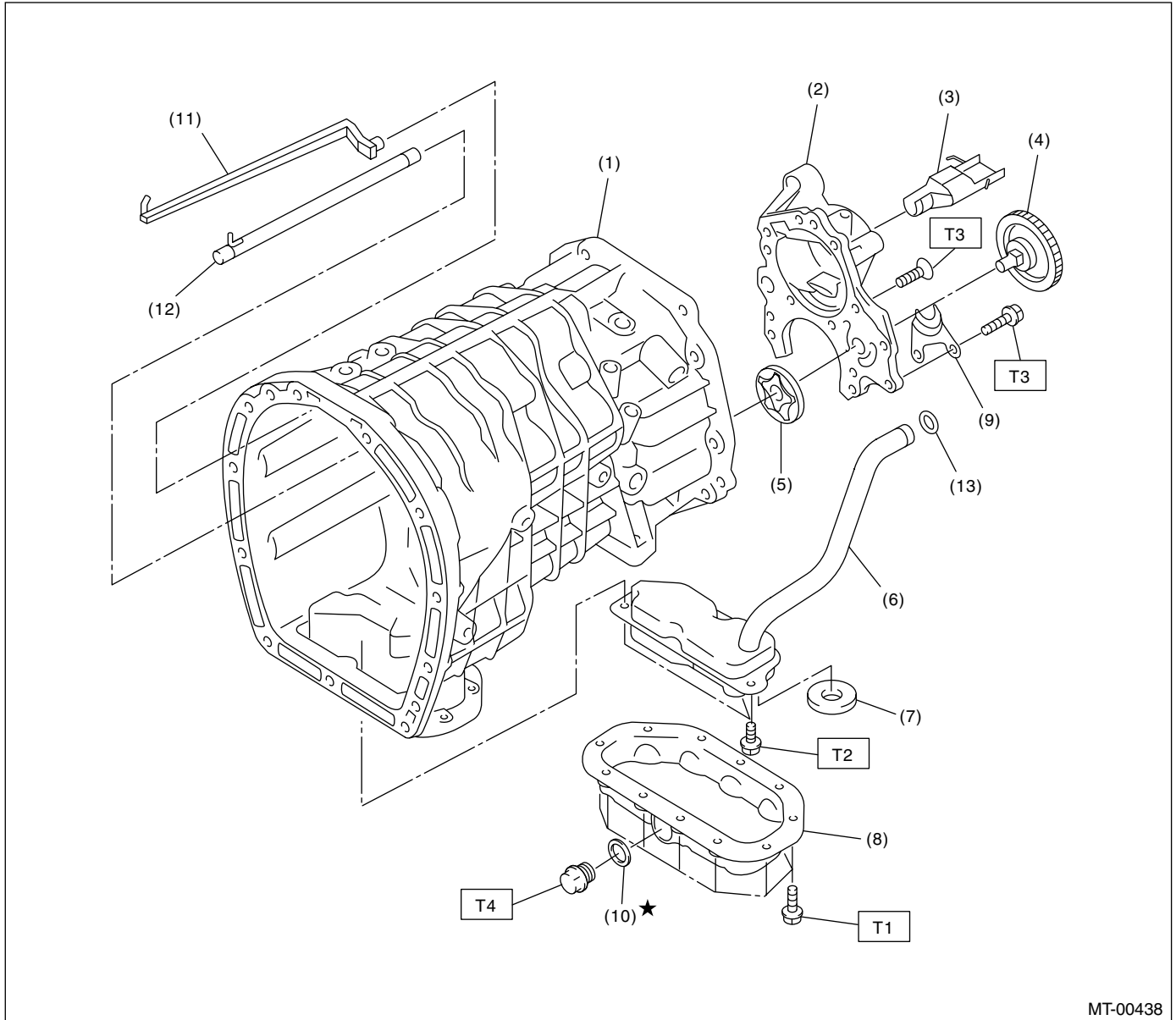
**T4: 34 (3.5, 25.1)**

**T5: 41 (4.2, 30.2)**

# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

### 4. OIL PAN AND OIL PUMP



- |                               |                |
|-------------------------------|----------------|
| (1) Main case                 | (8) Oil pan    |
| (2) Oil pump cover            | (9) Plate      |
| (3) Oil guide                 | (10) Gasket    |
| (4) Oil pump driven gear ASSY | (11) Oil guide |
| (5) Oil pump rotor ASSY       | (12) Oil pipe  |
| (6) Strainer ASSY             | (13) O-ring    |
| (7) Magnet                    |                |

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

**T1: 6.4 (0.65, 4.7)**

**T2: 10 (1.0, 7.4)**

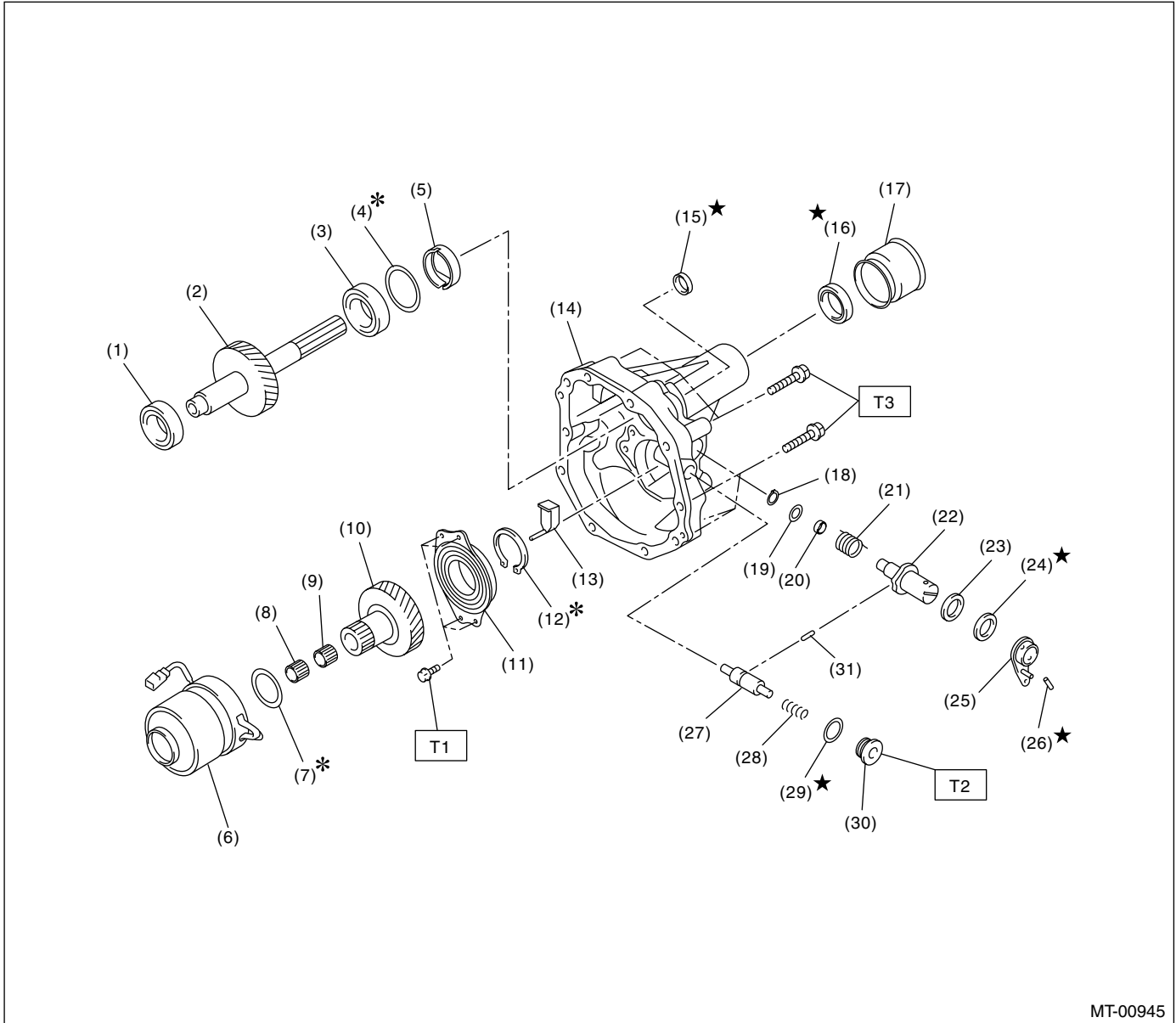
**T3: 25 (2.5, 18.1)**

**T4: 44 (4.5, 32.5)**

# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

### 5. EXTENSION CASE AND CENTER DIFFERENTIAL



MT-00945

(1) Taper roller bearing	(13) Extension guide	(25) Reverse check lever COMPL
(2) Transfer driven gear	(14) Extension case	(26) Straight pin
(3) Taper roller bearing	(15) Oil seal	(27) Reverse check plug
(4) Shim	(16) Oil seal	(28) Spring
(5) Oil plate	(17) Dust cover	(29) Gasket
(6) Center differential	(18) Snap ring	(30) Plug
(7) Shim	(19) Washer	(31) Plunger
(8) Needle bearing	(20) Bush	
(9) Needle bearing	(21) Spring	
(10) Transfer drive gear	(22) Reverse check shaft	
(11) Ball bearing (with flange)	(23) Ball bearing	
(12) Snap ring	(24) Oil seal	

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

**T1: 25 (2.5, 18.1)**

**T2: 41 (4.2, 30.2)**

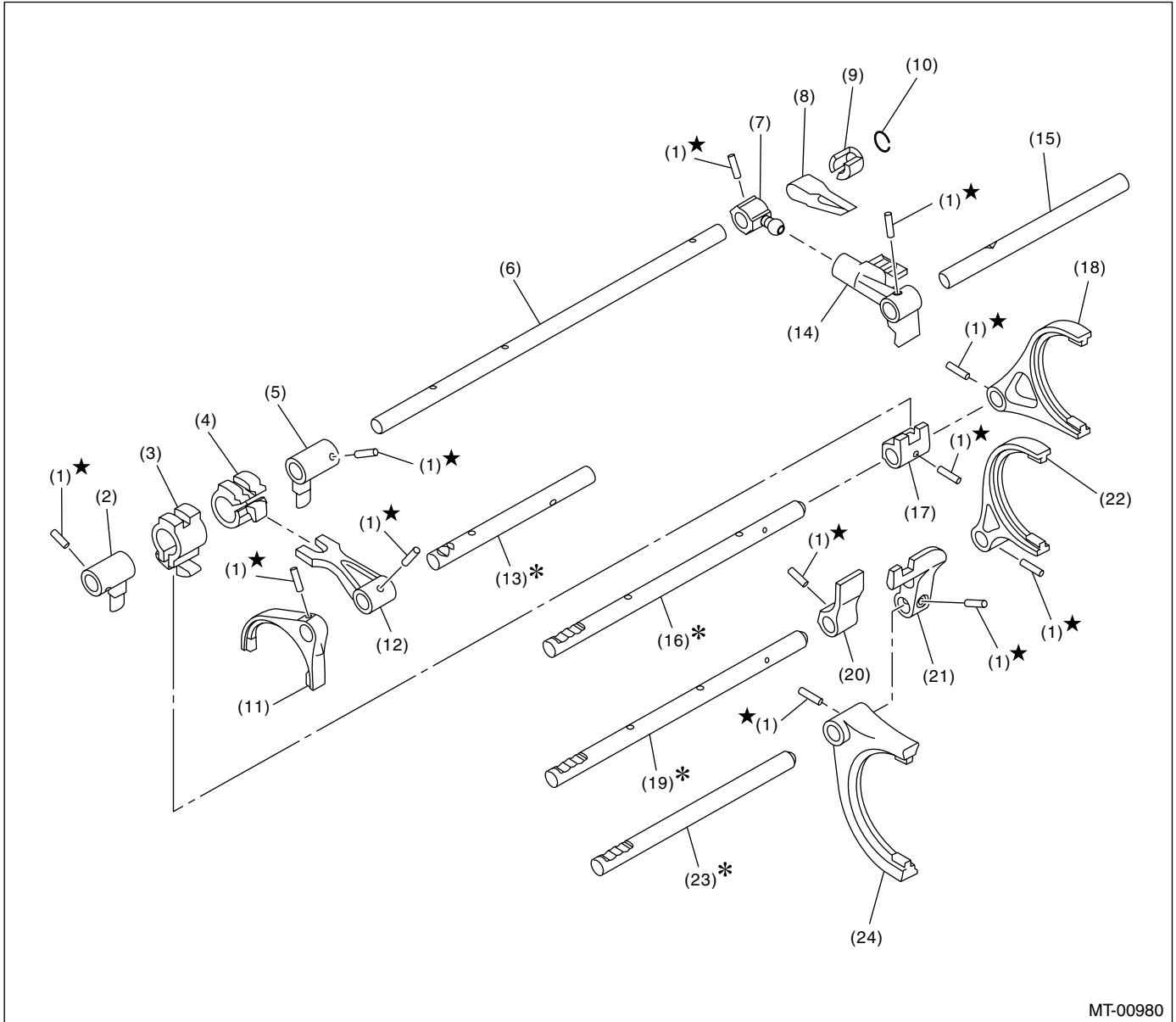
**T3: 48 (4.9, 35.4)**

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# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

### 6. SHIFTER FORK AND FORK ROD



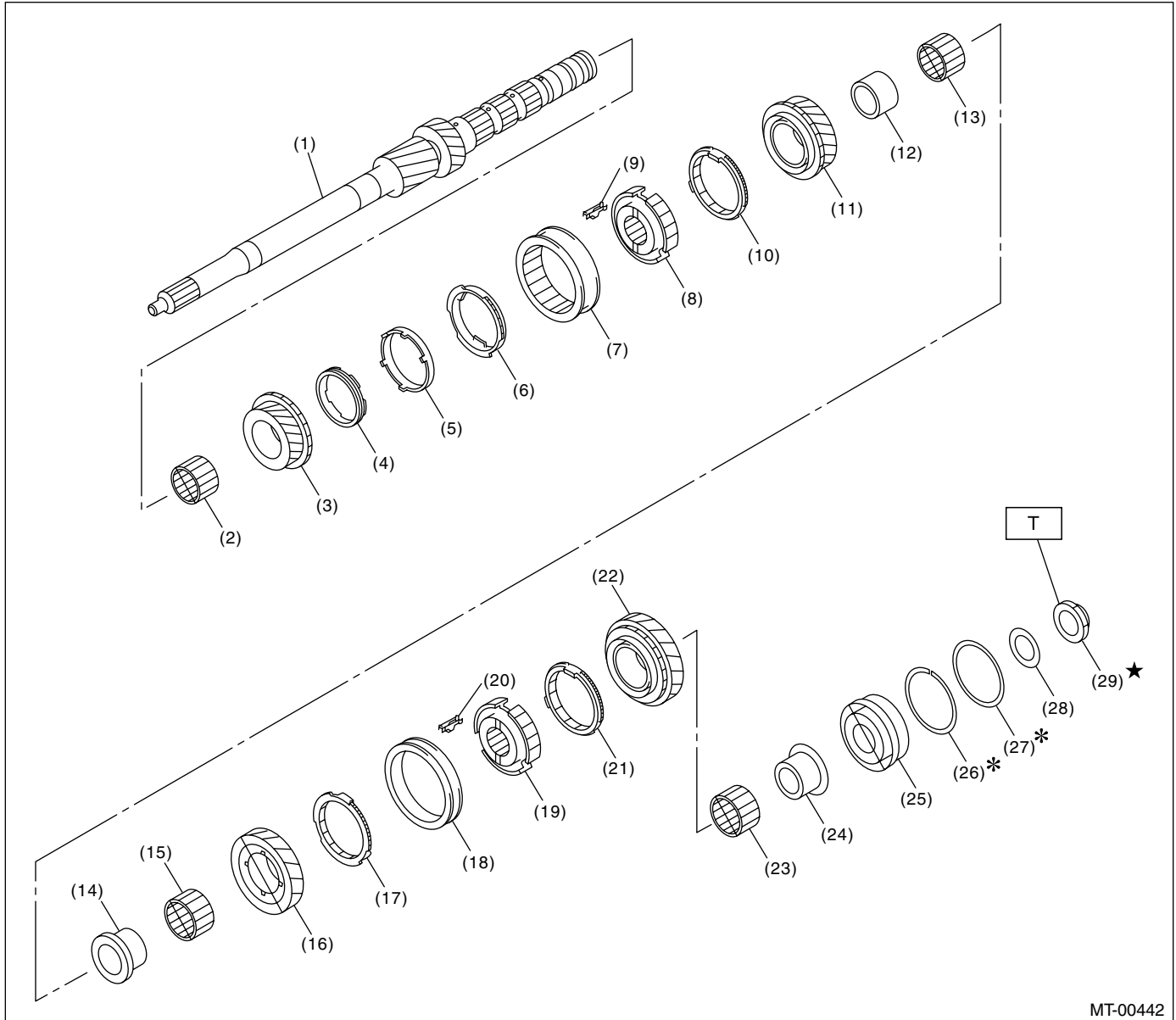
MT-00980

- |                             |                          |                          |
|-----------------------------|--------------------------|--------------------------|
| (1) Spring pin              | (9) Support              | (17) 5th-6th shifter arm |
| (2) Interlock arm           | (10) Snap ring           | (18) 5th-6th fork COMPL  |
| (3) Interlock block         | (11) Reverse fork COMPL  | (19) 3rd-4th fork rod    |
| (4) Reverse interlock block | (12) Reverse shifter arm | (20) 3rd-4th shifter arm |
| (5) Interlock arm           | (13) Reverse fork rod    | (21) 1st-2nd shifter arm |
| (6) Striking rod            | (14) Selector arm COMPL  | (22) 3rd-4th fork COMPL  |
| (7) Selector arm No. 2      | (15) Shifter arm shaft   | (23) 1st-2nd fork rod    |
| (8) Neutral set spring      | (16) 5th-6th fork rod    | (24) 1st-2nd fork COMPL  |

# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

### 7. MAIN SHAFT ASSY



MT-00442

- |                      |                      |                           |
|----------------------|----------------------|---------------------------|
| (1) Main shaft       | (12) 4th bush        | (23) Needle bearing       |
| (2) Needle bearing   | (13) Needle bearing  | (24) 6th bush             |
| (3) 3rd drive gear   | (14) 5th bush        | (25) Taper roller bearing |
| (4) Inner baulk ring | (15) Needle bearing  | (26) Snap ring            |
| (5) Synchro cone     | (16) 5th drive gear  | (27) Washer               |
| (6) Outer baulk ring | (17) 5th baulk ring  | (28) Washer               |
| (7) 3rd-4th sleeve   | (18) 5th-6th sleeve  | (29) Lock nut             |
| (8) 3rd-4th hub      | (19) 5th-6th hub     |                           |
| (9) Shifting insert  | (20) Shifting sleeve |                           |
| (10) 4th baulk ring  | (21) 6th baulk ring  |                           |
| (11) 4th gear        | (22) 6th drive gear  |                           |

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

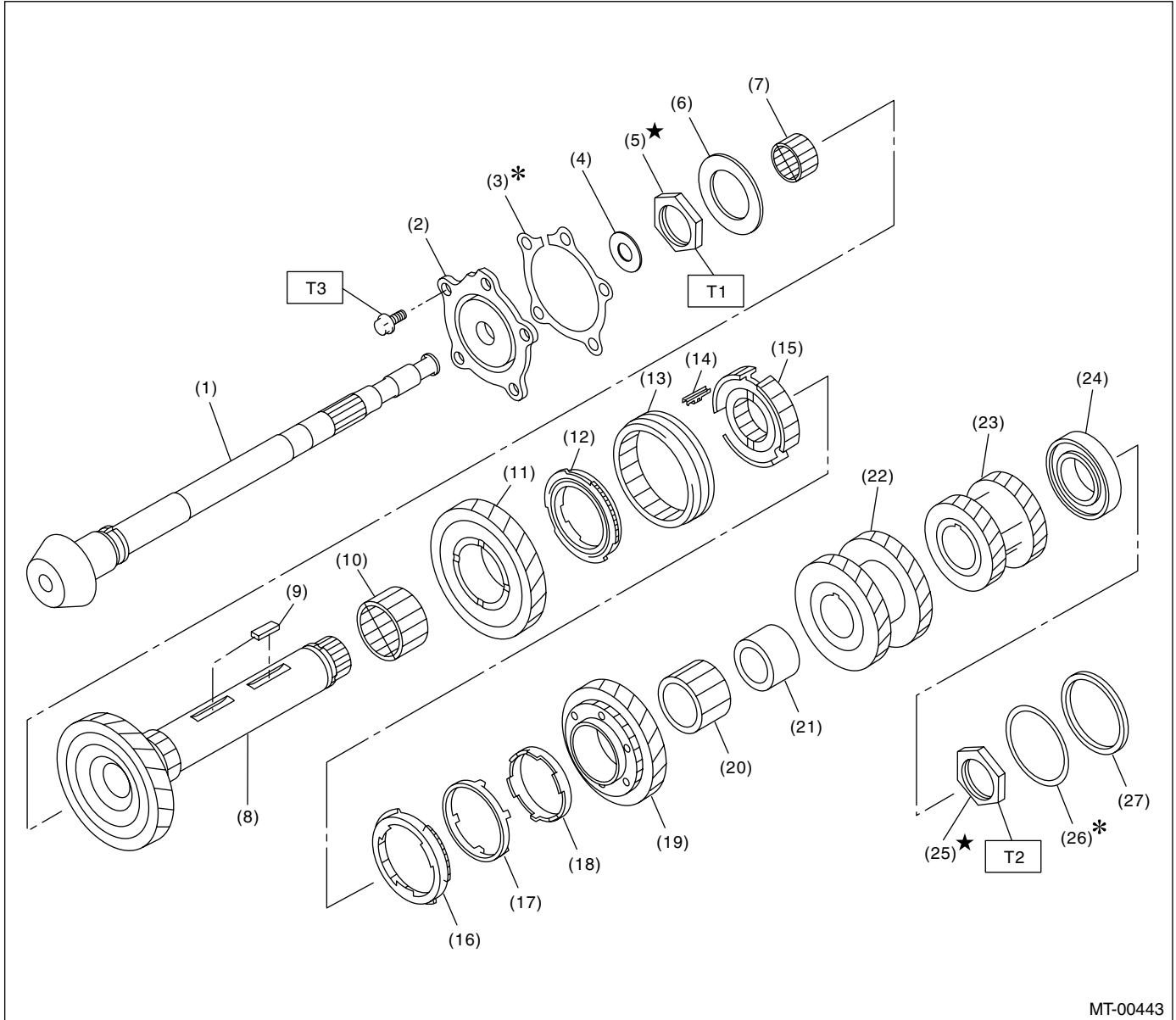
**T: 392 (40.0, 289)**



# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

### 8. DRIVE PINION AND DRIVEN SHAFT ASSY



MT-00443

- |                            |                          |
|----------------------------|--------------------------|
| (1) Drive pinion shaft     | (13) 1st-2nd sleeve      |
| (2) Taper roller bearing   | (14) Shifting insert     |
| (3) Shim                   | (15) 1st-2nd hub         |
| (4) Washer                 | (16) Outer baulk ring    |
| (5) Lock nut               | (17) Synchro cone        |
| (6) Thrust bearing         | (18) Inner baulk ring    |
| (7) Needle bearing         | (19) 2nd driven gear     |
| (8) Driven shaft           | (20) Needle bearing      |
| (9) Key                    | (21) 2nd bush            |
| (10) Needle bearing        | (22) 3rd-4th driven gear |
| (11) 1st driven gear       | (23) 5th-6th driven gear |
| (12) 1st synchro ring ASSY | (24) Ball bearing        |

- |               |
|---------------|
| (25) Lock nut |
| (26) Shim     |
| (27) Collar   |

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

**T1: 285 (29.1, 210)**

**\* 265 (27.0, 195)**

**T2: 570 (58.1, 420)**

**\* 530 (54.0, 391)**

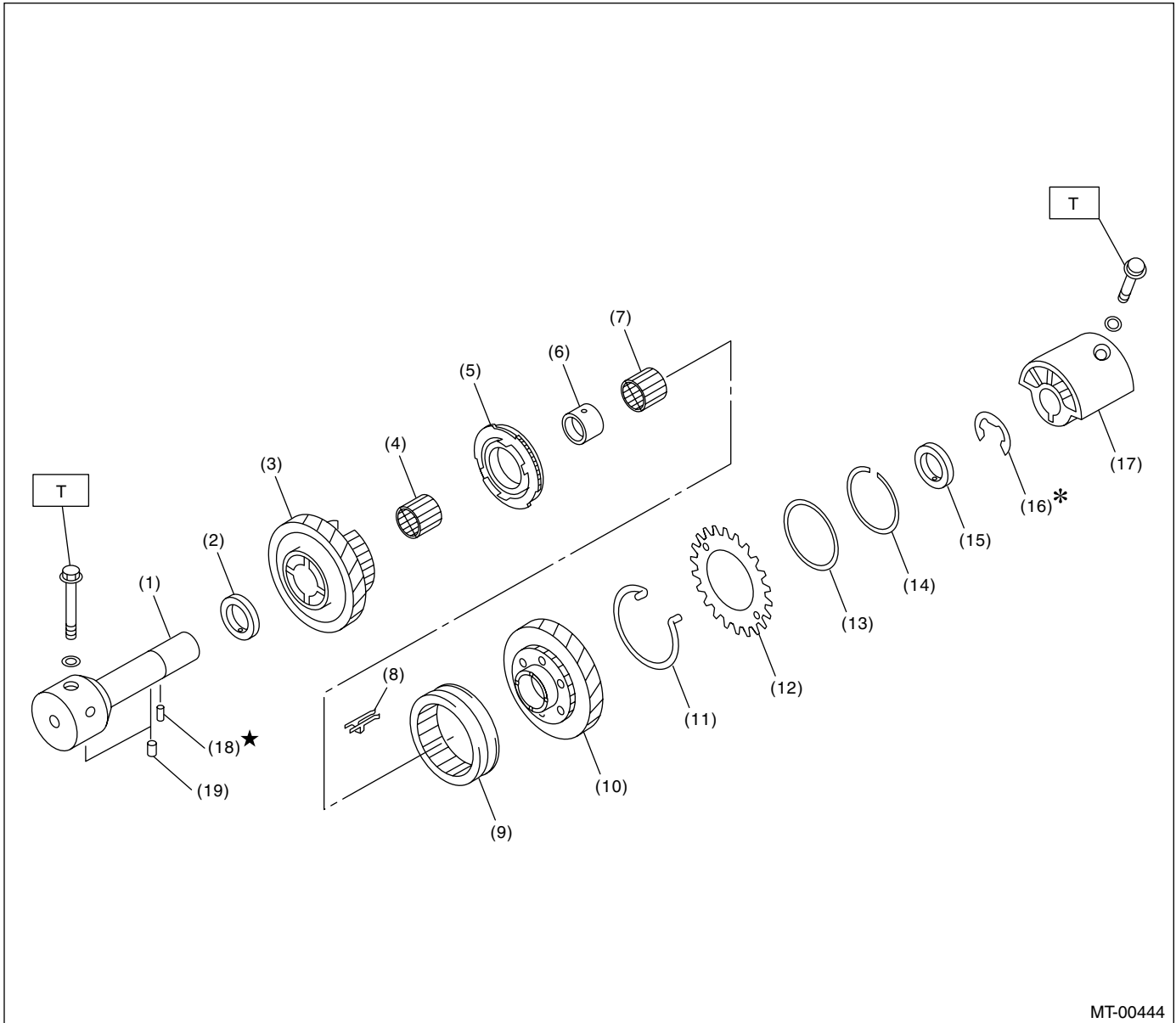
**T3: 54 (5.5, 39.8)**

\* Tightening torque when using ST.

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## MANUAL TRANSMISSION AND DIFFERENTIAL

### 9. REVERSE IDLER GEAR ASSY



MT-00444

- |                               |                             |                           |
|-------------------------------|-----------------------------|---------------------------|
| (1) Base                      | (9) Reverse coupling sleeve | (17) Reverse idler holder |
| (2) Washer                    | (10) Reverse idler gear     | (18) Spring pin           |
| (3) Reverse idler gear No. 2  | (11) Spring                 | (19) Knock pin            |
| (4) Needle bearing            | (12) Sub gear               |                           |
| (5) Reverse idler synchro set | (13) Friction plate         |                           |
| (6) Reverse idler gear bush   | (14) Snap ring              |                           |
| (7) Needle bearing            | (15) Washer                 |                           |
| (8) Shifting insert           | (16) Snap ring              |                           |

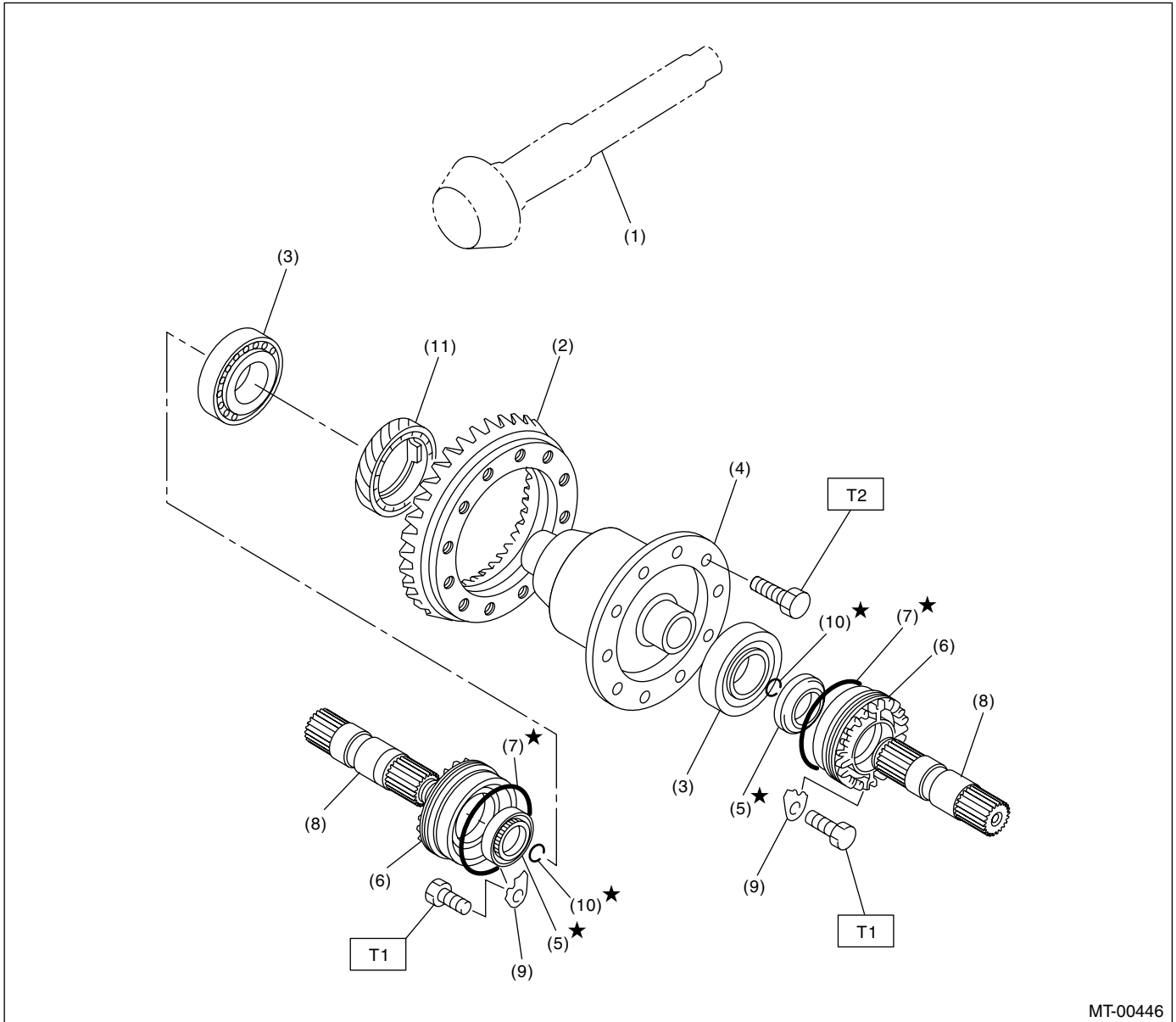
**Tightening torque: N·m (kgf·m, ft·lb)**

**T: 25 (2.5, 18.1)**

# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

### 10.FRONT DIFFERENTIAL



- |                        |                                |                             |
|------------------------|--------------------------------|-----------------------------|
| (1) Drive pinion shaft | (6) Differential side retainer | (11) Speedometer drive gear |
| (2) Hypoid driven gear | (7) O-ring                     |                             |
| (3) Roller bearing     | (8) Axle drive shaft           |                             |
| (4) Differential ASSY  | (9) Retainer lock plate        |                             |
| (5) Oil seal           | (10) Circlip                   |                             |

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

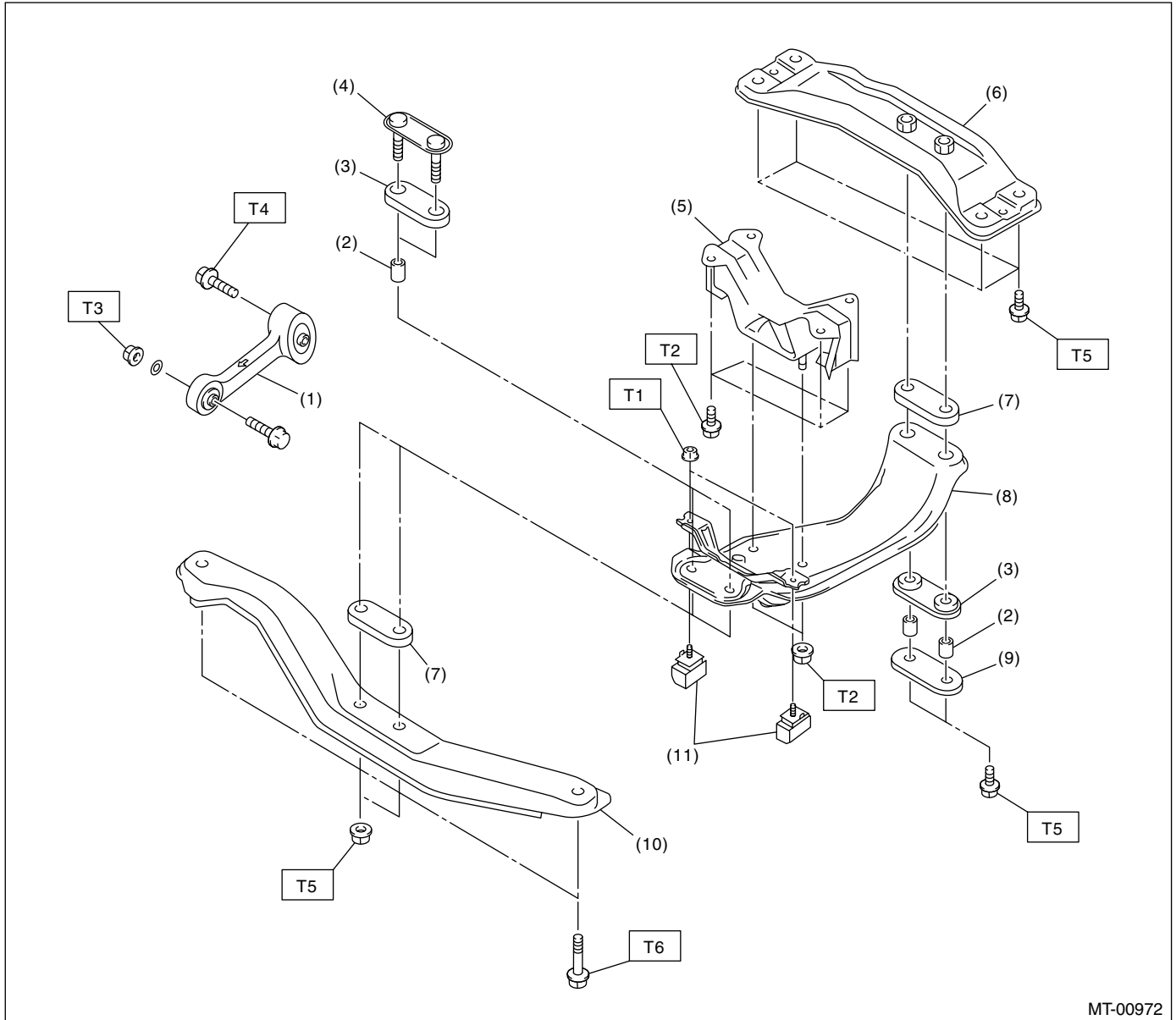
**T1: 25 (2.5, 18.1)**

**T2: 69 (7.0, 50.9)**

# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

### 11. TRANSMISSION MOUNTING



MT-00972

- |                         |                        |
|-------------------------|------------------------|
| (1) Pitching stopper    | (7) Cushion D          |
| (2) Spacer              | (8) Center crossmember |
| (3) Cushion C           | (9) Rear plate         |
| (4) Front plate         | (10) Front crossmember |
| (5) Rear cushion rubber | (11) Dynamic dumper    |
| (6) Rear crossmember    |                        |

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

**T1: 7.5 (0.76, 5.5)**

**T2: 35 (3.6, 25.8)**

**T3: 50 (5.1, 36.9)**

**T4: 58 (5.9, 42.8)**

**T5: 70 (7.1, 51.6)**

**T6: 140 (14.3, 103)**

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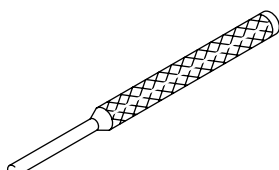
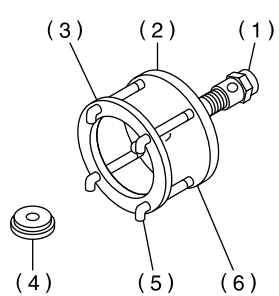
### C: CAUTION

- 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.

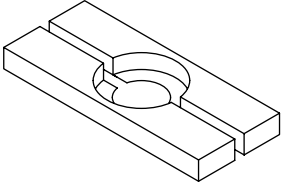
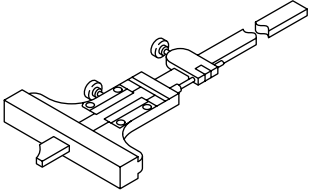
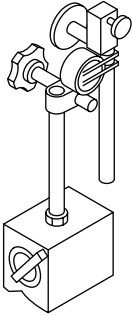
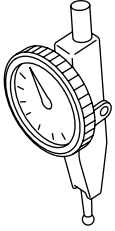
### D: PREPARATION TOOL

#### 1. SPECIAL TOOLS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p>ST-398791700</p>	398791700	REMOVER	Used for removing and installing spring pin (6 mm).
 <p>ST-399527700</p>	399527700	PULLER SET	Used for removing and installing roller bearing (Differential). (1) BOLT (2) PULLER (3) HOLDER (4) ADAPTER (5) BOLT (6) NUT

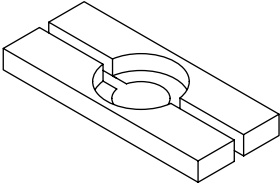
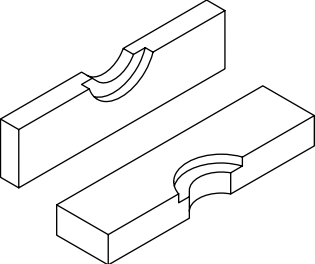
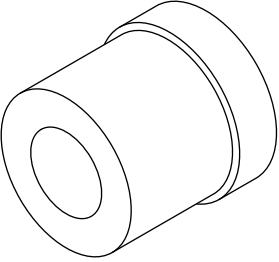
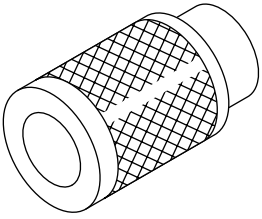
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ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST-498515700</p>	498515700	REMOVER	Used for removing roller bearing of drive pinion shaft.
 <p style="text-align: center;">ST-49814700</p>	498147000	DEPTH GAUGE	Used for adjusting main shaft axial end play.
 <p style="text-align: center;">ST-498247001</p>	498247001	MAGNET BASE	<ul style="list-style-type: none"> <li>• Used for measuring backlash between side gear and pinion, and hypoid gear.</li> <li>• Used with DIAL GAUGE (498247100).</li> </ul>
 <p style="text-align: center;">ST-498247100</p>	498247100	DIAL GAUGE	<ul style="list-style-type: none"> <li>• Used for measuring backlash between side gear and pinion, and hypoid gear.</li> <li>• Used with MAGNET BASE (498247001).</li> </ul>

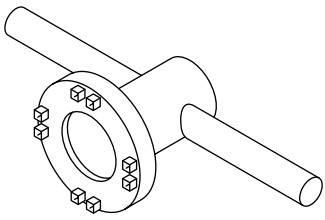
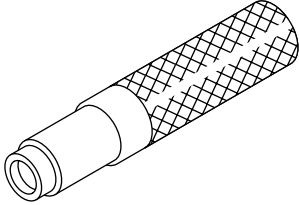
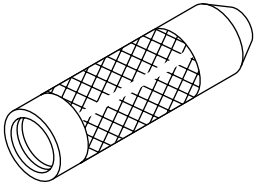
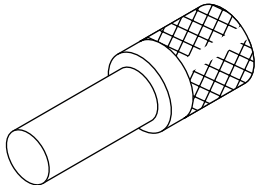
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ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST-498077000</p>	498077000	REMOVER	Used for removing differential taper roller bearing.
 <p style="text-align: center;">ST-899858600</p>	899858600	REMOVER	Used for removing roller bearing.
 <p style="text-align: center;">ST-399513600</p>	399513600	INSTALLER	Used for installing oil seal.
 <p style="text-align: center;">ST-499757002</p>	499757002	INSTALLER	Used for installing bearing cone of transfer driven gear (extension core side).

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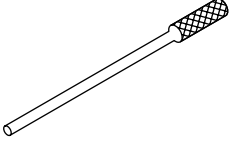
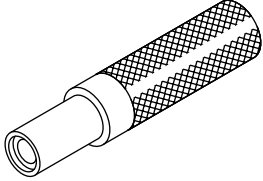
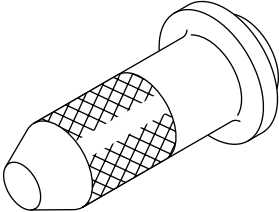
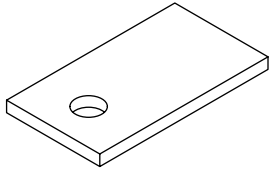
## MANUAL TRANSMISSION AND DIFFERENTIAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST-499787000</p>	499787000	WRENCH ASSY	Used for removing and installing differential side retainer.
 <p style="text-align: center;">ST-499827000</p>	499827000	PRESS	Used for installing speedometer oil seal when installing speedometer cable to transmission.
 <p style="text-align: center;">ST-499877000</p>	499877000	RACE 4-5 INSTALLER	Used for disassembling driven shaft and transfer driven gear.
 <p style="text-align: center;">ST-899864100</p>	899864100	REMOVER	Used for removing parts on transmission main shaft and drive pinion.



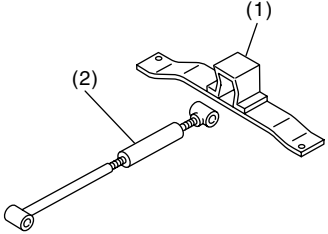
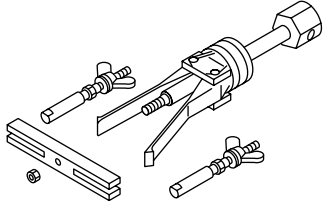
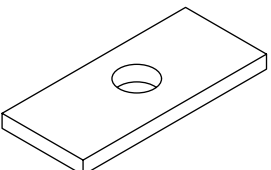
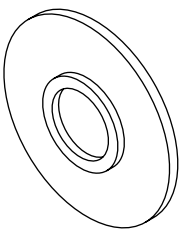
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ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST-899904100</p>	899904100	REMOVER	Used for removing and installing straight pin.
 <p style="text-align: center;">ST-899824100</p>	899824100	PRESS	Used for installing speedometer shaft oil seal.
 <p style="text-align: center;">ST-498057300</p>	498057300	INSTALLER	Used for installing extension oil seal.
 <p style="text-align: center;">ST-498255400</p>	498255400	PLATE	Used for measuring backlash.

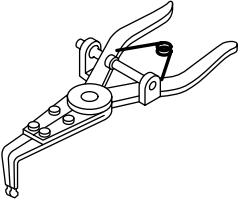
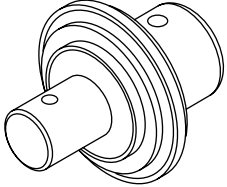
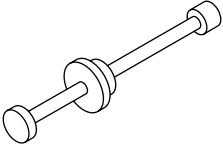
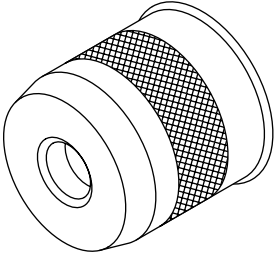
# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p data-bbox="332 577 472 604">ST41099AA000</p>	41099AA000	ENGINE SUPPORT BRACKET	Used for supporting engine. (1) ENGINE SUPPORT BRACKET (41099AA010) (2) ENGINE SUPPORT (41099AA020)
 <p data-bbox="332 997 472 1024">ST-398527700</p>	398527700	PULLER ASSY	Used for removing extension case oil seal and clutch housing oil seal.
 <p data-bbox="332 1417 472 1444">ST-499575500</p>	499575500	GAUGE	Used for measuring total end play, extension end play and drive pinion height.
 <p data-bbox="332 1837 472 1864">ST-398177700</p>	398177700	INSTALLER	Used for assembling main shaft.

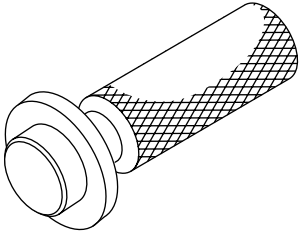
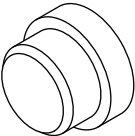
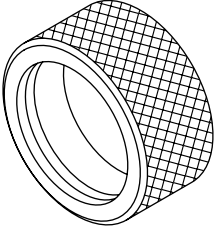
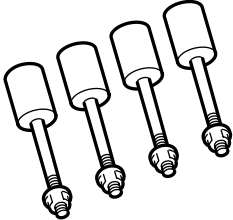
# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST-399893600</p>	399893600	PLIERS	<ul style="list-style-type: none"> <li>• Used for removing and installing neutral set spring.</li> <li>• Used with CLAW (18756AA000).</li> </ul>
 <p style="text-align: center;">ST-499247300</p>	499247300	INSTALLER	<ul style="list-style-type: none"> <li>• Used for removing axle shaft.</li> <li>• Used with REMOVER ASSY (499095500).</li> </ul>
 <p style="text-align: center;">ST-499095500</p>	499095500	REMOVER ASSY	<ul style="list-style-type: none"> <li>• Used for removing axle shaft.</li> <li>• Used with INSTALLER (499247300).</li> </ul>
 <p style="text-align: center;">ST-499247400</p>	499247400	INSTALLER	Used for installing transfer drive gear ball bearing.


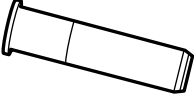
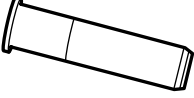
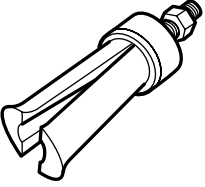
# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p data-bbox="337 579 472 604">ST-499797000</p>	499797000	OIL SEAL INSTALLER	Used for installing differential side retainer oil seal.
 <p data-bbox="337 999 472 1024">ST-398497701</p>	398497701	SEAT	Used for installing transfer drive gear ball bearing.
 <p data-bbox="337 1419 472 1444">ST-398437700</p>	398437700	INSTALLER	Used for installing front differential side bearing.
 <p data-bbox="331 1839 472 1864">ST18632AA000</p>	18632AA000 (Newly adopted tool)	STAND ASSY	Used for disassembling and assembling transmission.

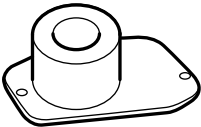

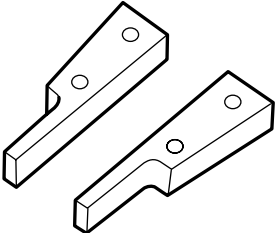
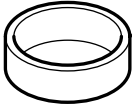
# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST18671AA000</p>	<p style="text-align: center;">18671AA000 (Newly adopted tool)</p>	<p>OIL SEAL GUIDE</p>	<ul style="list-style-type: none"> <li>• Used for installing oil seal to reverse check.</li> <li>• Used with INSTALLER (18657AA010).</li> </ul>
 <p style="text-align: center;">ST18657AA010</p>	<p style="text-align: center;">18657AA010 (Newly adopted tool)</p>	<p>INSTALLER</p>	<ul style="list-style-type: none"> <li>• Used for installing oil seal to reverse check.</li> <li>• Used with OIL SEAL GUIDE (18671AA000).</li> </ul>
 <p style="text-align: center;">ST18657AA000</p>	<p style="text-align: center;">18657AA000 (Newly adopted tool)</p>	<p>INSTALLER</p>	<p>Used for installing oil seal to shift rod.</p>
 <p style="text-align: center;">ST18758AA000</p>	<p style="text-align: center;">18758AA000 (Newly adopted tool)</p>	<p>PULLER</p>	<p>Used for removing extension taper roller bearing outer race.</p>


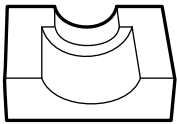
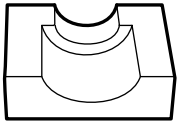
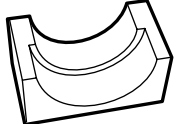
# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST18831AA000</p>	<p style="text-align: center;">18831AA000 (Newly adopted tool)</p>	<p style="text-align: center;">GAUGE</p>	<p>Used for measuring extension taper roller bearing.</p>
 <p style="text-align: center;">ST18631AA000</p>	<p style="text-align: center;">18631AA000 (Newly adopted tool)</p>	<p style="text-align: center;">HANDLE</p>	<p>Used for measuring front differential backlash.</p>
 <p style="text-align: center;">ST18756AA000</p>	<p style="text-align: center;">18756AA000 (Newly adopted tool)</p>	<p style="text-align: center;">CLAW</p>	<ul style="list-style-type: none"> <li>• Used for installing and removing neutral set spring.</li> <li>• Used with PLIERS (399893600).</li> </ul>
 <p style="text-align: center;">ST18754AA000</p>	<p style="text-align: center;">18754AA000 (Newly adopted tool)</p>	<p style="text-align: center;">REMOVER</p>	<p>Used for removing each parts of driven gear.</p>

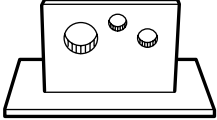

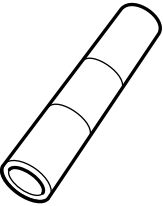
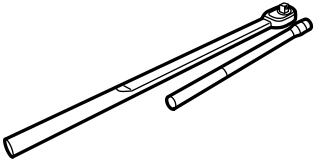
# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST18757AA000</p>	<p style="text-align: center;">18757AA000 (Newly adopted tool)</p>	<p>STRAIGHT PIN REMOVER</p>	<p>Used for installing reverse idler gear.</p>
 <p style="text-align: center;">ST18665AA000</p>	<p style="text-align: center;">18665AA000 (Newly adopted tool)</p>	<p>HOLDER</p>	<ul style="list-style-type: none"> <li>• Used for installing and removing main shaft lock nut.</li> <li>• Used with BASE (18664AA000).</li> </ul>
 <p style="text-align: center;">ST18666AA000</p>	<p style="text-align: center;">18666AA000 (Newly adopted tool)</p>	<p>HOLDER</p>	<ul style="list-style-type: none"> <li>• Used for installing and removing driven shaft lock nut.</li> <li>• Used with BASE (18664AA000).</li> </ul>
 <p style="text-align: center;">ST18667AA000</p>	<p style="text-align: center;">18667AA000 (Newly adopted tool)</p>	<p>HOLDER</p>	<ul style="list-style-type: none"> <li>• Used for installing and removing drive pinion shaft lock nut.</li> <li>• Used with BASE (18664AA000).</li> </ul>

# GENERAL DESCRIPTION




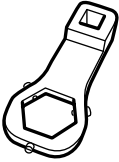
## MANUAL TRANSMISSION AND DIFFERENTIAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST18664AA000</p>	<p style="text-align: center;">18664AA000 (Newly adopted tool)</p>	<p style="text-align: center;">BASE</p>	<ul style="list-style-type: none"> <li>• Used for installing and removing main shaft lock nut.</li> <li>• Used for installing and removing drive pinion shaft lock nut.</li> <li>• Used for installing and removing driven shaft lock nut.</li> </ul>
 <p style="text-align: center;">ST18722AA010</p>	<p style="text-align: center;">18722AA010 (Newly adopted tool)</p>	<p style="text-align: center;">REMOVER</p>	<p>Used for disassembling main shaft.</p>
 <p style="text-align: center;">ST18651AA000</p>	<p style="text-align: center;">18651AA000 (Newly adopted tool)</p>	<p style="text-align: center;">INSTALLER</p>	<p>Used for assembling main shaft.</p>
 <p style="text-align: center;">ST18852AA000</p>	<p style="text-align: center;">18852AA000 (Newly adopted tool)</p>	<p style="text-align: center;">TORQUE WRENCH</p>	<ul style="list-style-type: none"> <li>• Used for tightening main shaft lock nut.</li> <li>• Used for tightening drive pinion shaft lock nut.</li> <li>• Used for tightening driven shaft lock nut.</li> </ul>



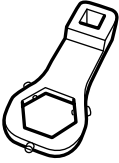
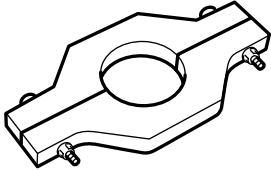
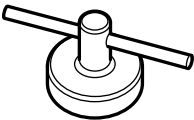
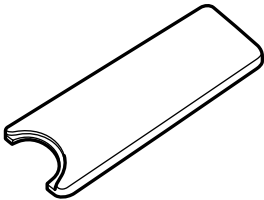
# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST18668AA000</p>	<p style="text-align: center;">18668AA000 (Newly adopted tool)</p>	<p style="text-align: center;">PUNCH</p>	<p>Used for caulking main shaft lock nut.</p>
 <p style="text-align: center;">ST18669AA000</p>	<p style="text-align: center;">18669AA000 (Newly adopted tool)</p>	<p style="text-align: center;">PUNCH</p>	<p>Used for caulking driven shaft lock nut.</p>
 <p style="text-align: center;">ST18670AA000</p>	<p style="text-align: center;">18670AA000 (Newly adopted tool)</p>	<p style="text-align: center;">PUNCH</p>	<p>Used for caulking drive pinion shaft lock nut.</p>
 <p style="text-align: center;">ST18620AA000</p>	<p style="text-align: center;">18620AA000 (Newly adopted tool)</p>	<p style="text-align: center;">ADAPTER WRENCH</p>	<p>Used for installing and removing driven gear shaft lock nut.</p>

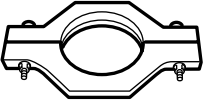
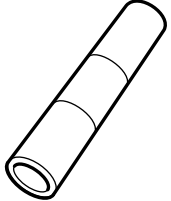
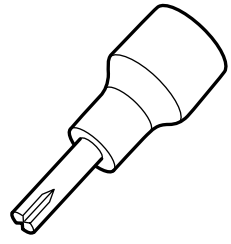
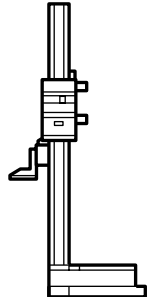
# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST18621AA000</p>	<p style="text-align: center;">18621AA000 (Newly adopted tool)</p>	<p>ADAPTER WRENCH</p>	<p>Used for installing and removing drive pinion shaft lock nut.</p>
 <p style="text-align: center;">ST18723AA000</p>	<p style="text-align: center;">18723AA000 (Newly adopted tool)</p>	<p>REMOVER</p>	<p>Used for disassembling the driven shaft.</p>
 <p style="text-align: center;">ST18630AA000</p>	<p style="text-align: center;">18630AA000 (Newly adopted tool)</p>	<p>WRENCH ASSY</p>	<p>Used for removing and installing differential side retainer (left side).</p>
 <p style="text-align: center;">ST18672AA000</p>	<p style="text-align: center;">18672AA000 (Newly adopted tool)</p>	<p>GUIDE CLIP</p>	<p>Used for installing reverse idler gear snap ring.</p>

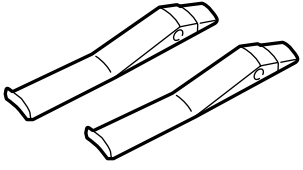
# GENERAL DESCRIPTION

## MANUAL TRANSMISSION AND DIFFERENTIAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST18720AA000</p>	<p style="text-align: center;">18720AA000 (Newly adopted tool)</p>	<p style="text-align: center;">REMOVER</p>	<p>Used for disassembling main shaft.</p>
 <p style="text-align: center;">ST18654AA000</p>	<p style="text-align: center;">18654AA000 (Newly adopted tool)</p>	<p style="text-align: center;">INSTALLER</p>	<p>Used for assembling driven shaft.</p>
 <p style="text-align: center;">ST18663AA000</p>	<p style="text-align: center;">18663AA000 (Newly adopted tool)</p>	<p style="text-align: center;">SOCKET</p>	<p>Used for installing and removing oil pump cover.</p>
 <p style="text-align: center;">ST18853AA000</p>	<p style="text-align: center;">18853AA000 (Newly adopted tool)</p>	<p style="text-align: center;">HEIGHT GAUGE</p>	<p>Used for selecting shift rod.</p>

# GENERAL DESCRIPTION

MANUAL TRANSMISSION AND DIFFERENTIAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center; margin-top: 10px;">ST18760AA000</p>	<p>18760AA000 (Newly adopted tool)</p>	<p>CLAW</p>	<ul style="list-style-type: none"> <li>Used for removing front side retainer bearing outer race.</li> <li>Used with PULLER ASSEMBLY (398527700).</li> </ul>

## 2. GENERAL PURPOSE TOOLS

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