

# General Description

## CLUTCH SYSTEM

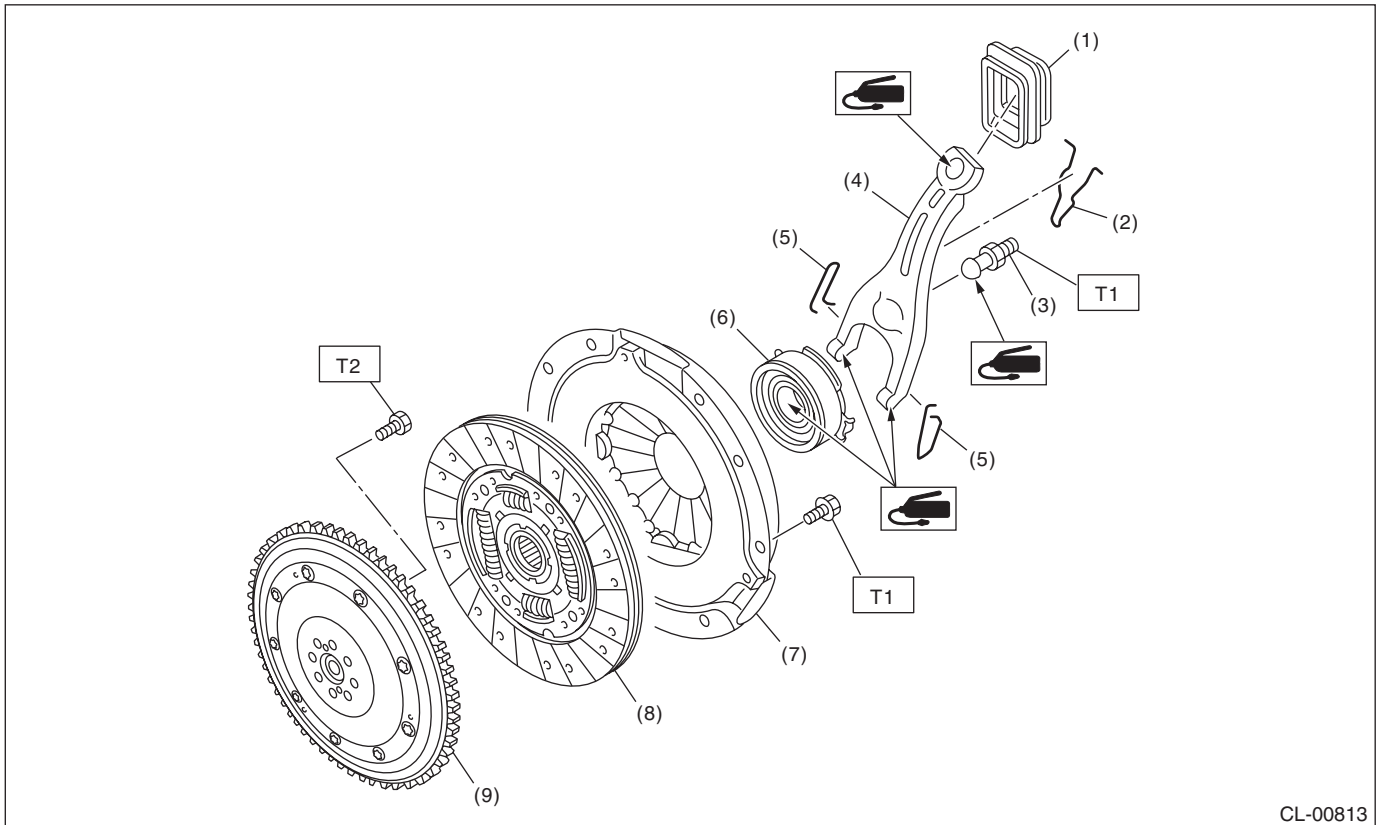
### 1. General Description

#### A: SPECIFICATION

Model		2.0 L	
Transmission type		5MT	
Clutch cover	Type	Push type	
	Diaphragm set load	N (kgf, lbf)	5,688 (580, 1,279)
Clutch disc	Facing material		Woven (Non-asbestos)
	O.D. × I.D. × thickness mm (in)	Flywheel side	225 × 150 × 3.2 (8.86 × 5.9 × 0.126)
		Clutch cover side	225 × 150 × 3.5 (8.86 × 5.9 × 0.138)
	Spline outer diameter		mm (in) 25.2 (0.992), (Number of teeth: 24)
	Depth of rivet head mm (in)	Flywheel side	1.35 — 1.95 (0.053 — 0.077)
		Clutch cover side	1.65 — 2.25 (0.065 — 0.089)
Limit of sinking		0.8 (0.031)	
Deflection limit		mm (in) 0.7 (0.028) at R = 110 (4.33)	
Clutch release lever ratio		1.6	
Release bearing		Grease-packed self-aligning	
Clutch pedal	Full stroke	mm (in)	130 — 135 (5.12 — 5.31)
	Free play	mm (in)	4 — 10 (0.16 — 0.39)
Flywheel	Type	Flexible	

## B: COMPONENT

### 1. CLUTCH ASSEMBLY



CL-00813

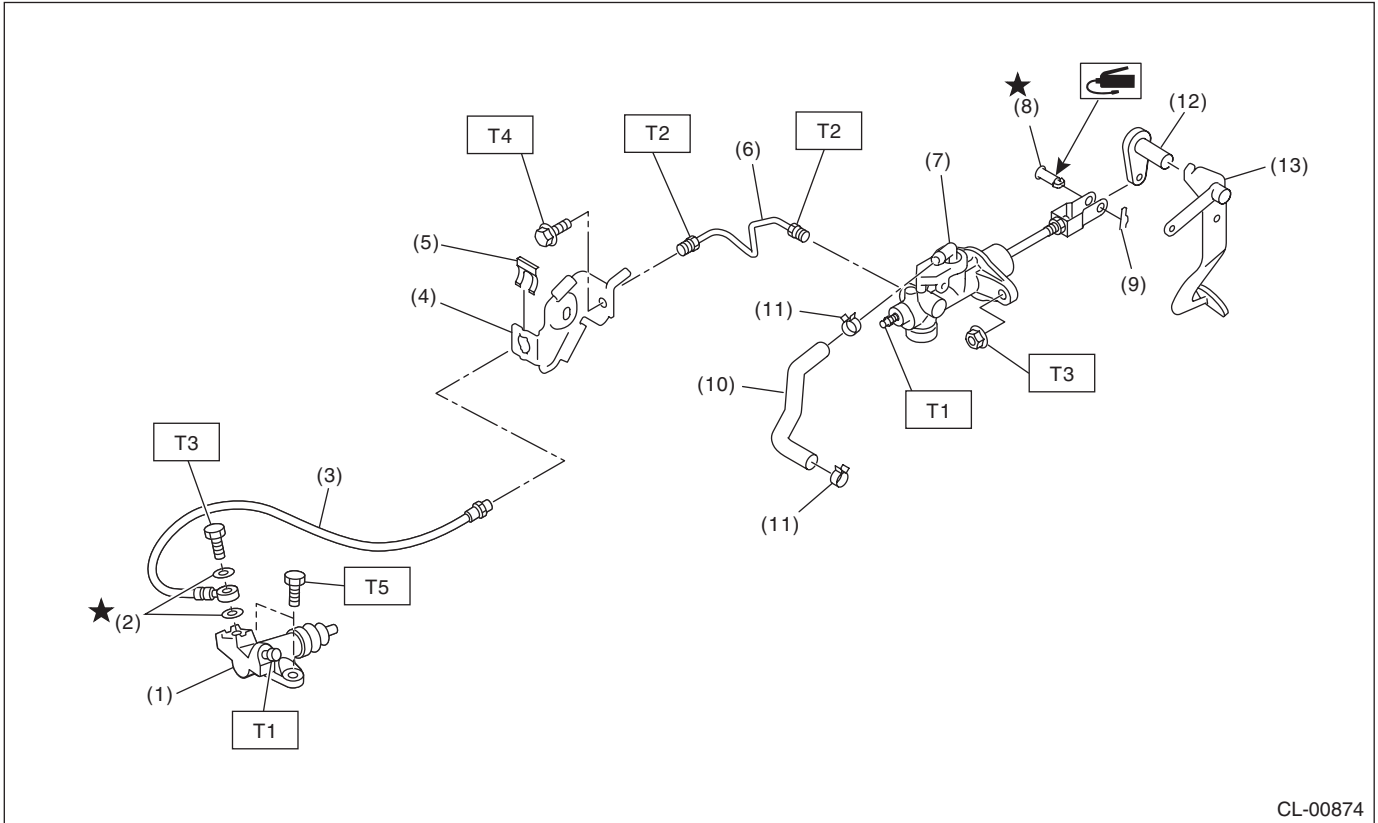
- |                   |                     |
|-------------------|---------------------|
| (1) Dust cover    | (6) Release bearing |
| (2) Lever spring  | (7) Clutch cover    |
| (3) Pivot         | (8) Clutch disc     |
| (4) Release lever | (9) Flywheel        |
| (5) Clip          |                     |

**Tightening torque: N·m (kgf·m, ft·lb)**  
**T1: 16 (1.6, 11.8)**  
**T2: <Ref. to CL-12, INSTALLATION, Flywheel.>**

# General Description

## CLUTCH SYSTEM

### 2. CLUTCH PIPE AND HOSE



CL-00874

- |                          |                |
|--------------------------|----------------|
| (1) Operating cylinder   | (8) Clevis pin |
| (2) Gasket               | (9) Snap pin   |
| (3) Clutch hose          | (10) Tank hose |
| (4) Bracket              | (11) Clamp     |
| (5) Clamp                | (12) Lever     |
| (6) Clutch pipe          | (13) Pedal     |
| (7) Master cylinder ASSY |                |

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

**T1: 7.8 (0.8, 5.8)**

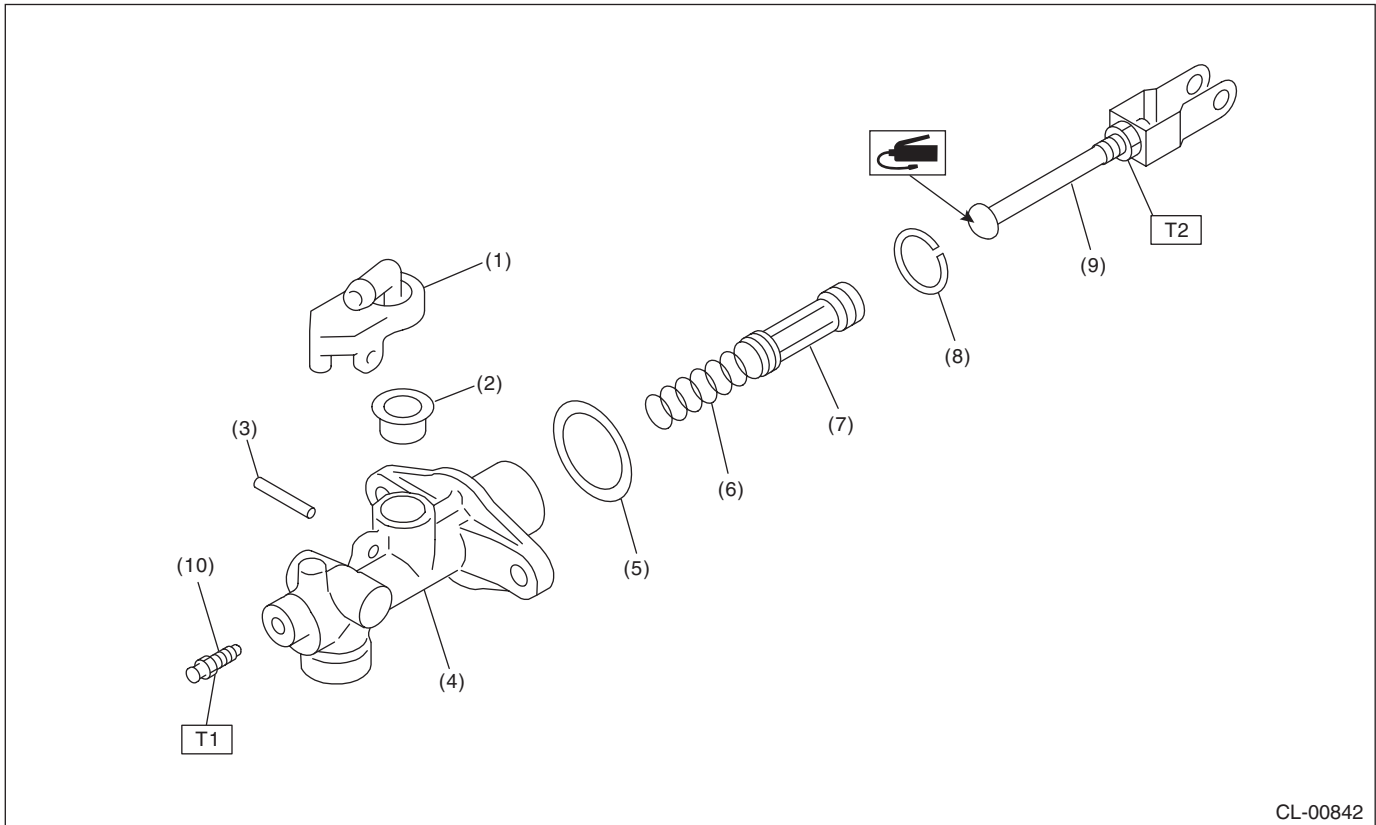
**T2: 15 (1.5, 11.1)**

**T3: 18 (1.8, 13.3)**

**T4: 25 (2.5, 18.4)**

**T5: 37 (3.8, 27.3)**

## 3. MASTER CYLINDER



- |                     |                      |
|---------------------|----------------------|
| (1) Nipple          | (6) Return spring    |
| (2) Oil seal        | (7) Piston           |
| (3) Straight pin    | (8) Piston stop ring |
| (4) Master cylinder | (9) Push rod ASSY    |
| (5) Seat            | (10) Breather screw  |

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

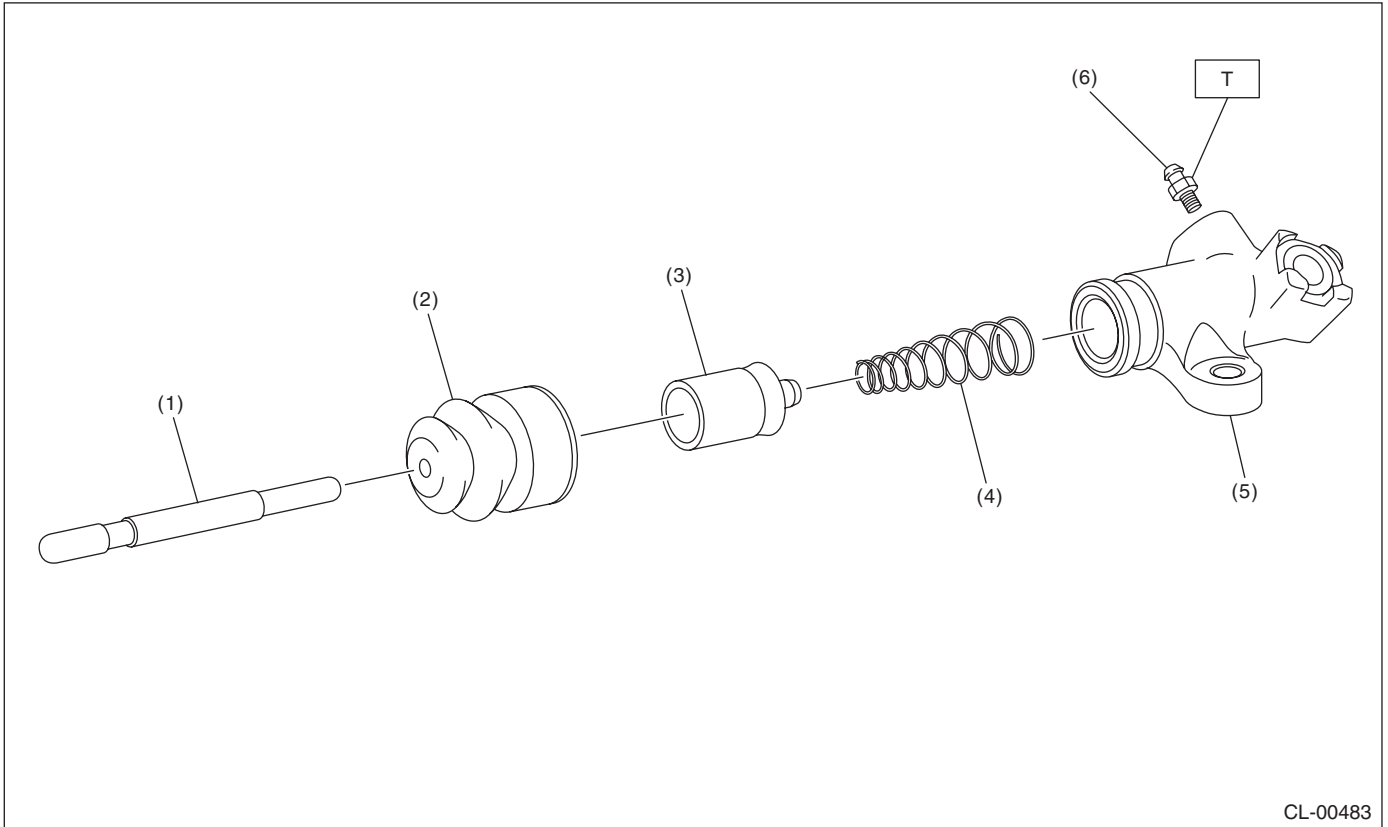
**T1: 7.8 (0.8, 5.8)**

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

# General Description

## CLUTCH SYSTEM

### 4. OPERATING CYLINDER

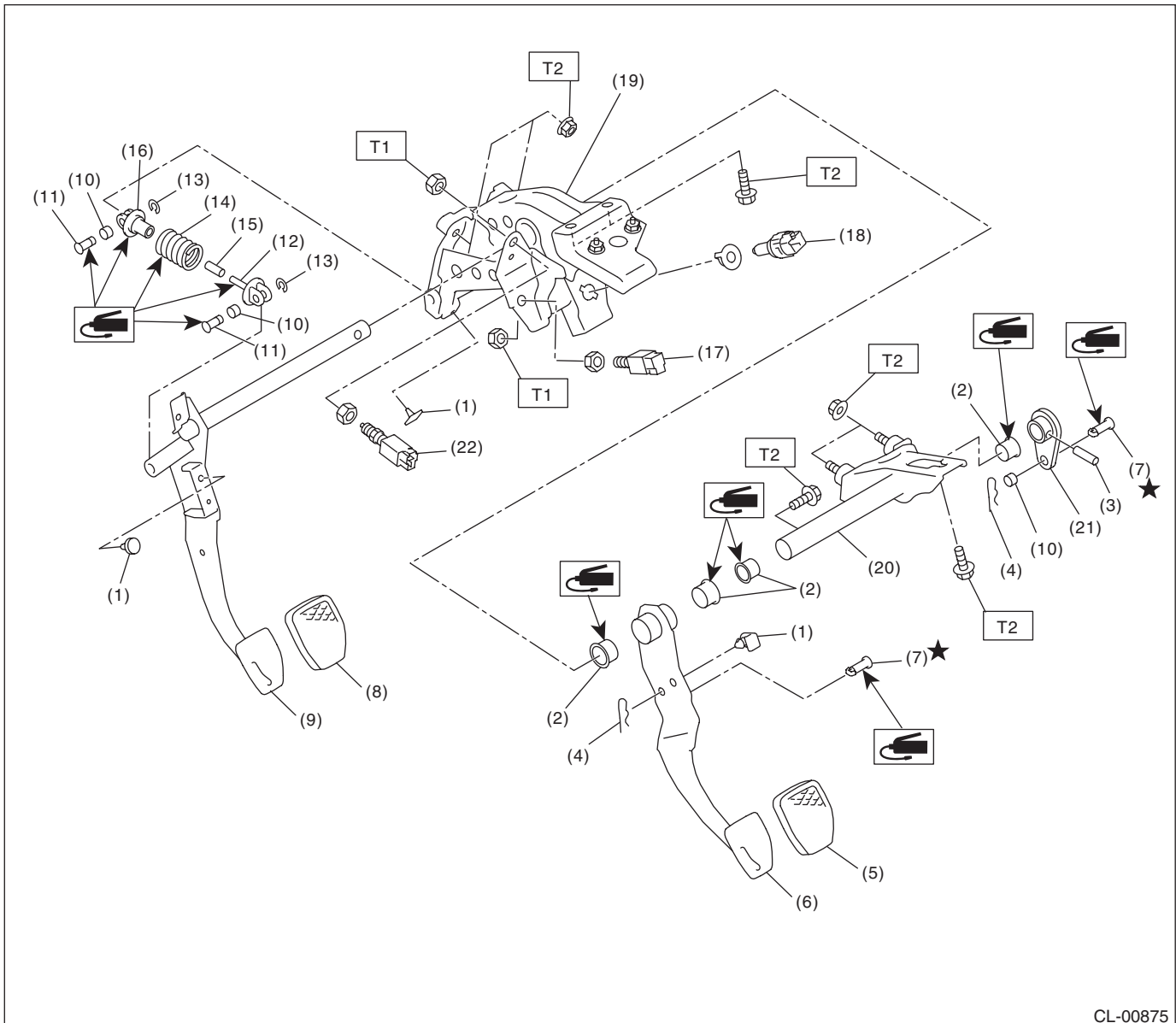


CL-00483

- |              |                        |
|--------------|------------------------|
| (1) Push rod | (4) Piston spring      |
| (2) Boot     | (5) Operating cylinder |
| (3) Piston   | (6) Breather screw     |

**Tightening torque: N·m (kgf·m, ft·lb)**  
**T: 7.8 (0.8, 5.8)**

### 5. CLUTCH PEDAL



CL-00875

- |                      |                        |                                     |
|----------------------|------------------------|-------------------------------------|
| (1) Stopper          | (10) Bushing C         | (19) Pedal bracket                  |
| (2) Bushing          | (11) Clutch clevis pin | (20) Clutch master cylinder bracket |
| (3) Spring pin       | (12) Assist rod A      | (21) Lever                          |
| (4) Snap pin         | (13) Clip              | (22) Clutch start switch            |
| (5) Brake pedal pad  | (14) Assist spring     |                                     |
| (6) Brake pedal      | (15) Assist bushing    |                                     |
| (7) Clevis pin       | (16) Assist rod B      |                                     |
| (8) Clutch pedal pad | (17) Clutch switch     |                                     |
| (9) Clutch pedal     | (18) Stop light switch |                                     |

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

**T1: 8 (0.8, 5.9)**

**T2: 18 (1.8, 13.3)**

# General Description

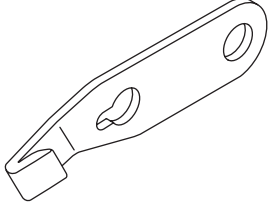
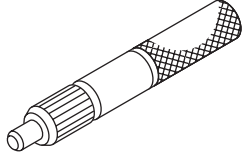
## CLUTCH SYSTEM

### C: CAUTION

- Wear appropriate work clothing, including a cap, protective goggles and protective shoes when performing any work.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust and dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly and replacement.
- Vehicle components are extremely hot after driving. Be wary of receiving burns from heated parts.
- Use SUBARU genuine fluid, grease etc. or equivalent. Do not mix fluid, grease, etc. of different grades or manufacturers.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or rigid racks at the specified points.
- Apply grease onto sliding or revolving surfaces before installation.
- Before installing O-rings or snap rings, apply sufficient amount of fluid to avoid damage and deformation.
- Before securing a part in a vise, place cushioning material such as wood blocks, aluminum plate or cloth between the part and the vise.
- Keep fluid away from the vehicle body. If any fluid contacts the vehicle body, immediately flush the area with water.

### D: PREPARATION TOOL

#### 1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p>ST-498497100</p>	498497100	CRANKSHAFT STOPPER	Used for stopping rotation of the flywheel when loosening/tightening bolts, etc.
 <p>ST-499747100</p>	499747100	CLUTCH DISC GUIDE	Used for installing the clutch disc to the flywheel.

#### 2. GENERAL TOOL

TOOL NAME	REMARKS
Circuit tester	Used for measuring resistance, voltage and current.
Dial gauge	Used for measuring clutch disc run-out.
Depth gauge	Used for measuring clutch disc wear.
Angle gauge	Used for tightening the flywheel.