

# General Description

## CLUTCH SYSTEM

### 1. General Description

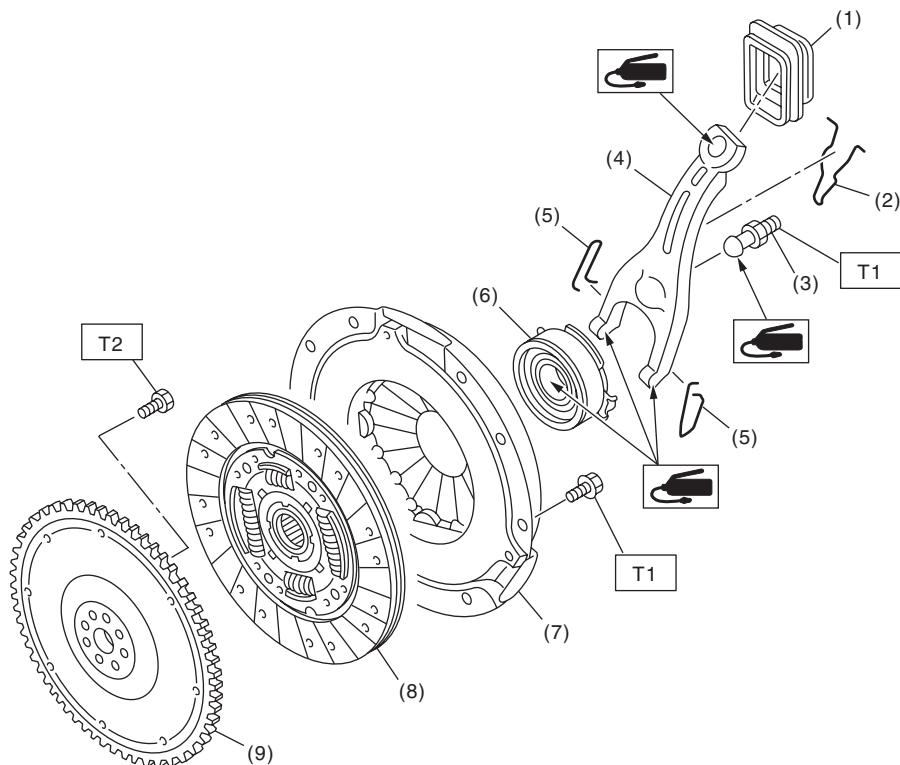
#### A: SPECIFICATION

Model			Non-turbo	Turbo		
Clutch cover	Type	Push type				
	Diaphragm set load kgf (lbf)	580 (1,276)		800 (1,760)		
Clutch disc	Facing material		Woven (Non asbestos)			
	O.D. × I.D. × thickness mm (in)	Flywheel side	225 × 150 × 3.5 (8.86 × 5.9 × 0.138)	230 × 155 × 3.2 (9.06 × 6.10 × 0.126)		
		Pressure plate side		230 × 155 × 3.5 (9.06 × 6.10 × 0.138)		
	Spline outer diameter mm (in)	25.2 (0.992), (Number of teeth: 24)				
Clutch release lever ratio			1.6	1.6		
Release bearing			Grease-packed self-aligning			
Clutch pedal	Full stroke mm (in)	130 — 135 (5.12 — 5.32)				
	Free play mm (in)	4.35 — 11.1 (0.17 — 0.44)				
Clutch disc	Depth of rivet head mm (in)	Standard	Flywheel side: 1.35 — 1.95 (0.053 — 0.077) Clutch cover side: 1.65 — 2.25 (0.065 — 0.089)			
		Limit of sinking	0.3 (0.012)			
	Limit of runout mm (in)	0.7 (0.028) at R = 107.5 (4.23)		0.7 (0.028) at R = 110.0 (4.33)		

## B: COMPONENT

### 1. CLUTCH ASSEMBLY

Non-turbo model



CL-00496

- |                              |                     |
|------------------------------|---------------------|
| (1) Release lever 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)**

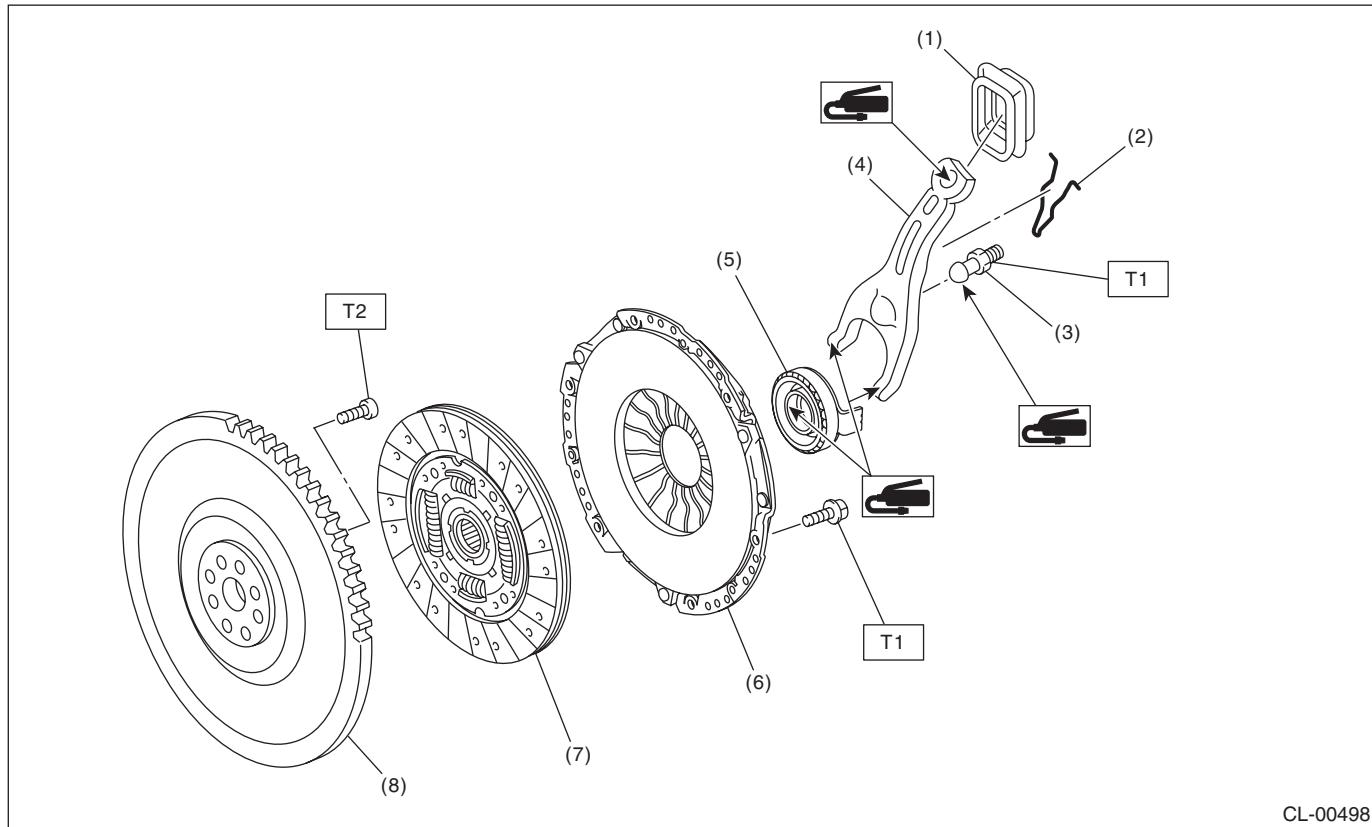
**T1: 16 (1.6, 11.6)**

**T2: 72 (7.3, 52.8)**

# General Description

## CLUTCH SYSTEM

### Turbo model



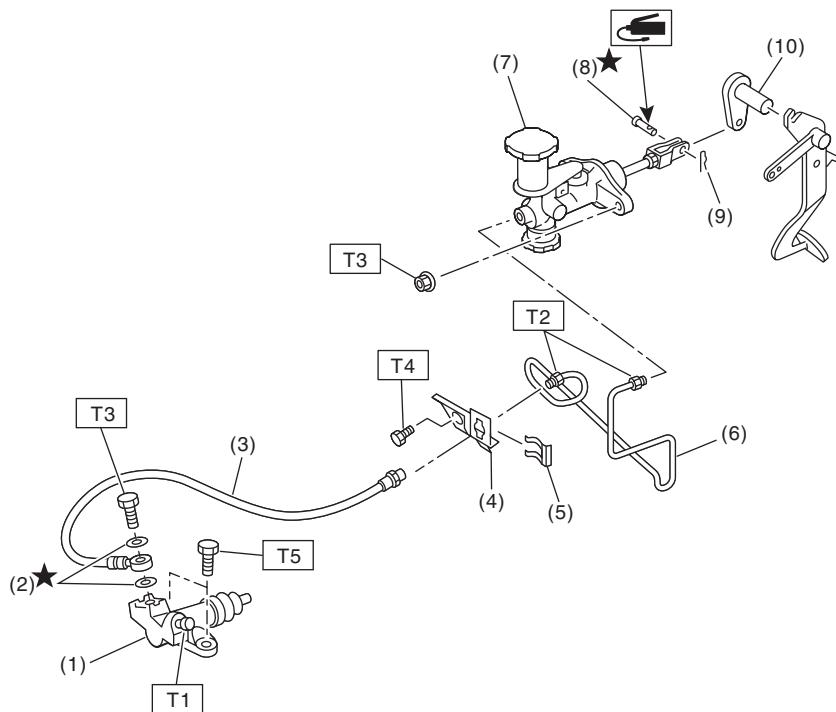
- |     |                          |     |                 |
|-----|--------------------------|-----|-----------------|
| (1) | Release lever dust cover | (5) | Release bearing |
| (2) | Lever spring             | (6) | Clutch cover    |
| (3) | Pivot                    | (7) | Clutch disc     |
| (4)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

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

***T1: 16 (1.6, 11.6)***

***T2: 72 (7.3, 52.8)***

### 2. CLUTCH PIPE AND HOSE (NON-TURBO MODEL)



CL-00374

- |                        |                          |
|------------------------|--------------------------|
| (1) Operating cylinder | (6) Clutch pipe          |
| (2) Washer             | (7) Master cylinder ASSY |
| (3) Clutch hose        | (8) Clevis pin           |
| (4) Bracket            | (9) Snap pin             |
| (5) Clip               | (10) Lever               |

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

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

***T2: 15 (1.5, 10.8)***

***T3: 18 (1.8, 13.0)***

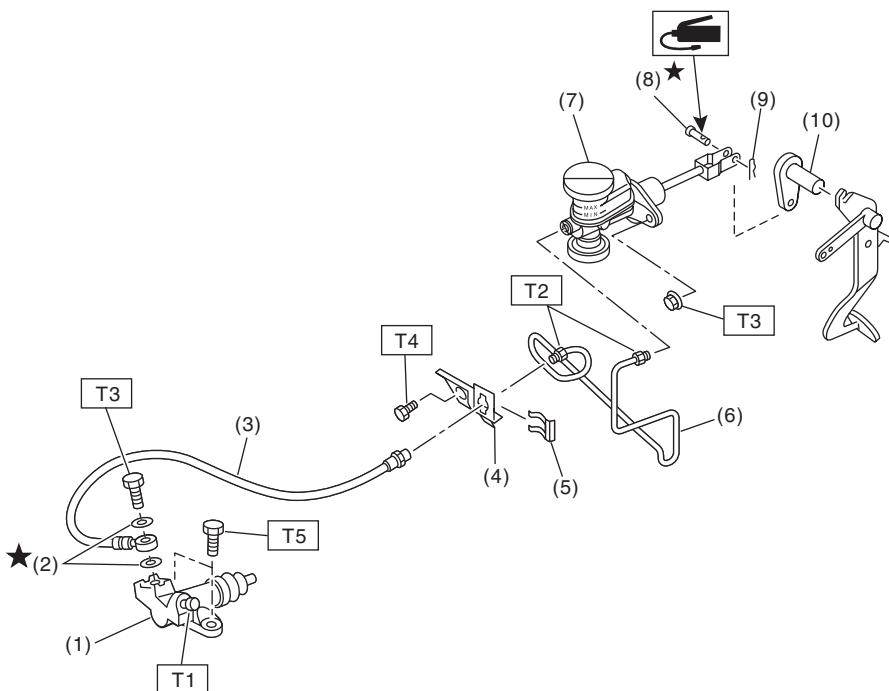
***T4: 25 (2.5, 18.1)***

***T5: 37 (3.8, 27.5)***

# General Description

## CLUTCH SYSTEM

### 3. CLUTCH PIPE AND HOSE (TURBO MODEL)



CL-00411

- |                        |                          |
|------------------------|--------------------------|
| (1) Operating cylinder | (6) Clutch pipe          |
| (2) Washer             | (7) Master cylinder ASSY |
| (3) Clutch hose        | (8) Clevis pin           |
| (4) Bracket            | (9) Snap pin             |
| (5) Clip               | (10) Lever               |

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

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

***T2: 15 (1.5, 10.8)***

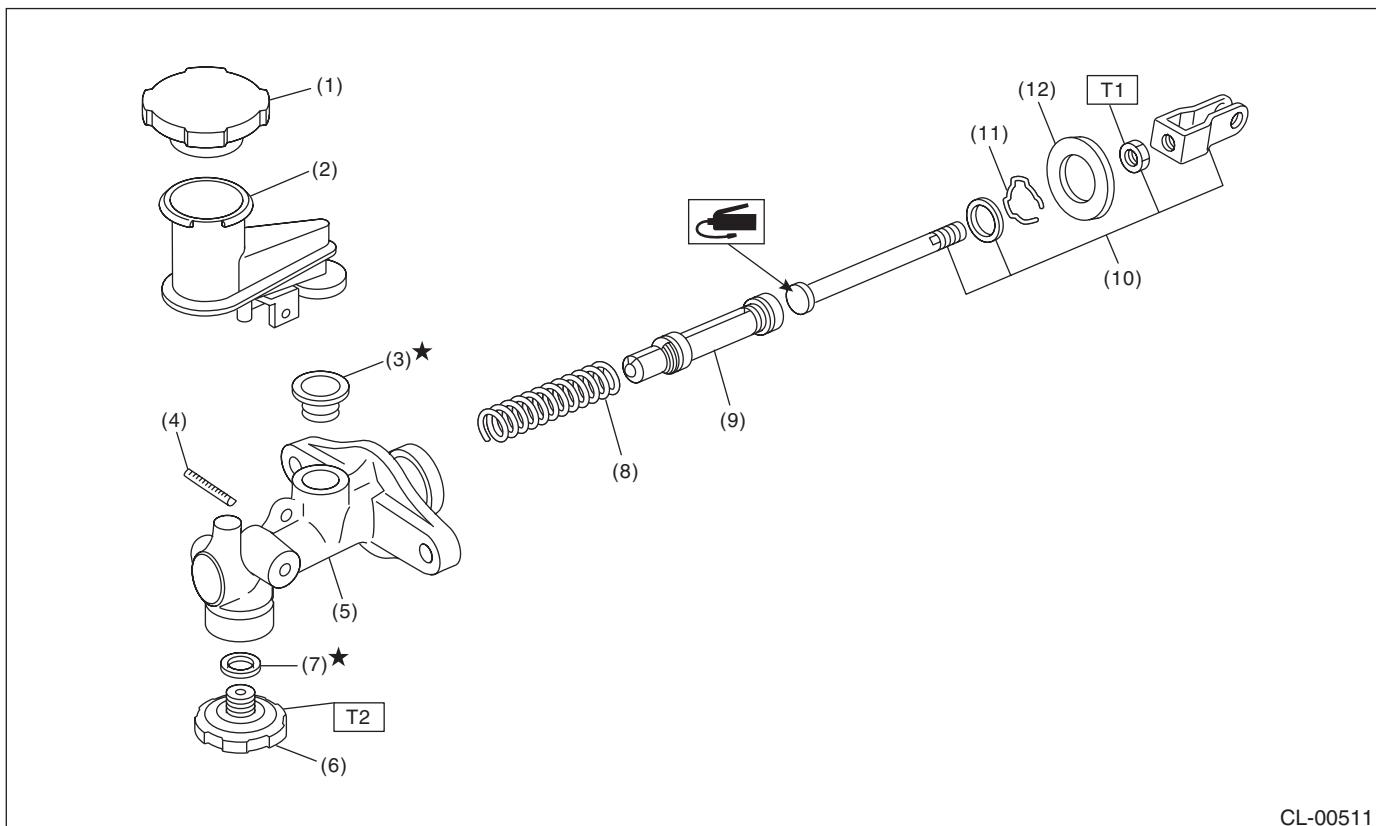
***T3: 18 (1.8, 13.0)***

***T4: 25 (2.5, 18.1)***

***T5: 37 (3.8, 27.5)***

## 4. MASTER CYLINDER

### Non-turbo model



CL-00511

- |                     |                       |           |
|---------------------|-----------------------|-----------|
| (1) Reservoir cap   | (7) Gasket            | (12) Seat |
| (2) Reservoir tank  | (8) Return spring     |           |
| (3) Oil seal        | (9) Piston            |           |
| (4) Straight pin    | (10) Push rod ASSY    |           |
| (5) Master cylinder | (11) Piston stop ring |           |
| (6) Clutch damper   |                       |           |

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

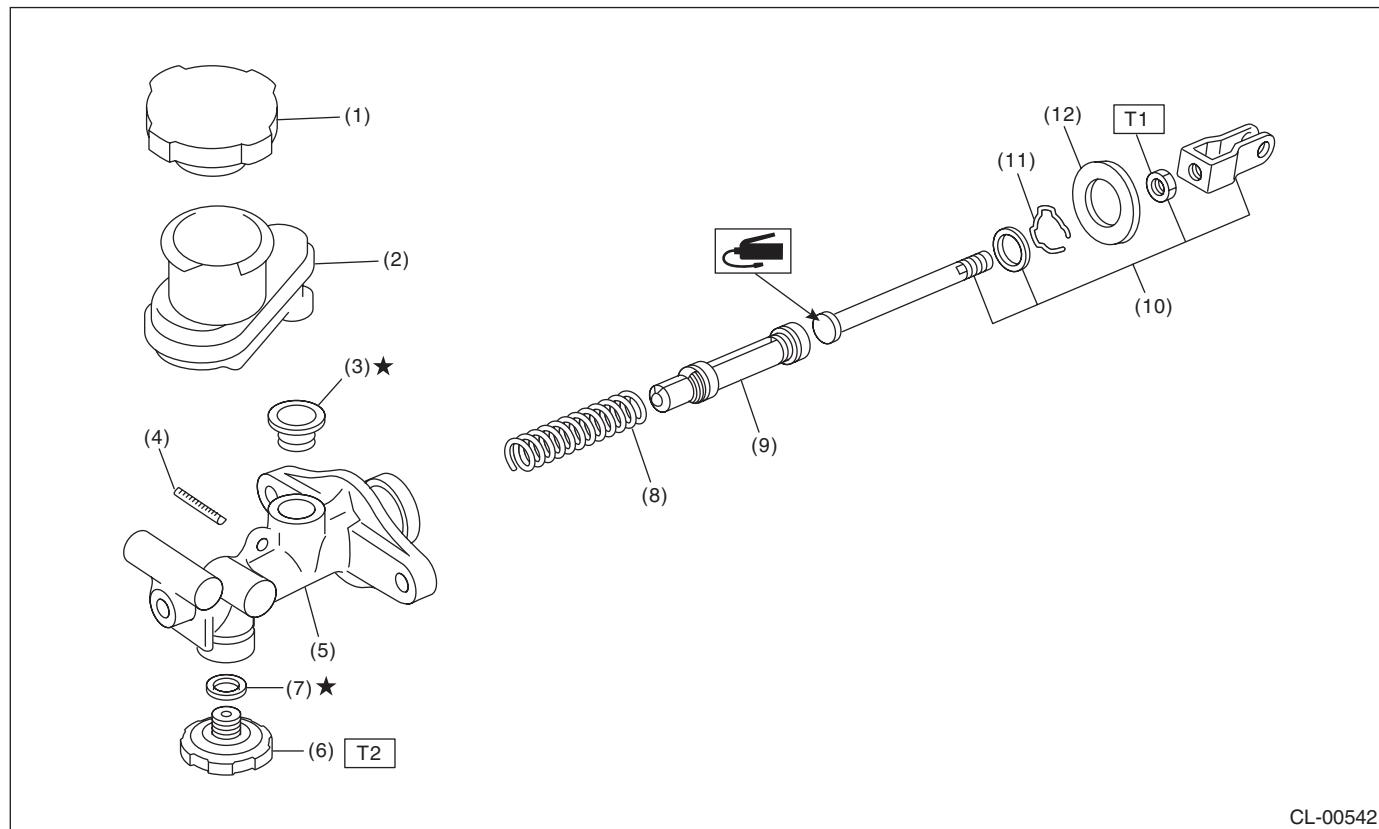
**T1: 10 (1.0, 7)**

**T2: 46.6 (4.75, 34.4)**

# General Description

## CLUTCH SYSTEM

### Turbo model



CL-00542

- |                     |                       |           |
|---------------------|-----------------------|-----------|
| (1) Reservoir cap   | (7) Gasket            | (12) Seat |
| (2) Reservoir tank  | (8) Return spring     |           |
| (3) Oil seal        | (9) Piston            |           |
| (4) Straight pin    | (10) Push rod ASSY    |           |
| (5) Master cylinder | (11) Piston stop ring |           |
| (6) Clutch damper   |                       |           |

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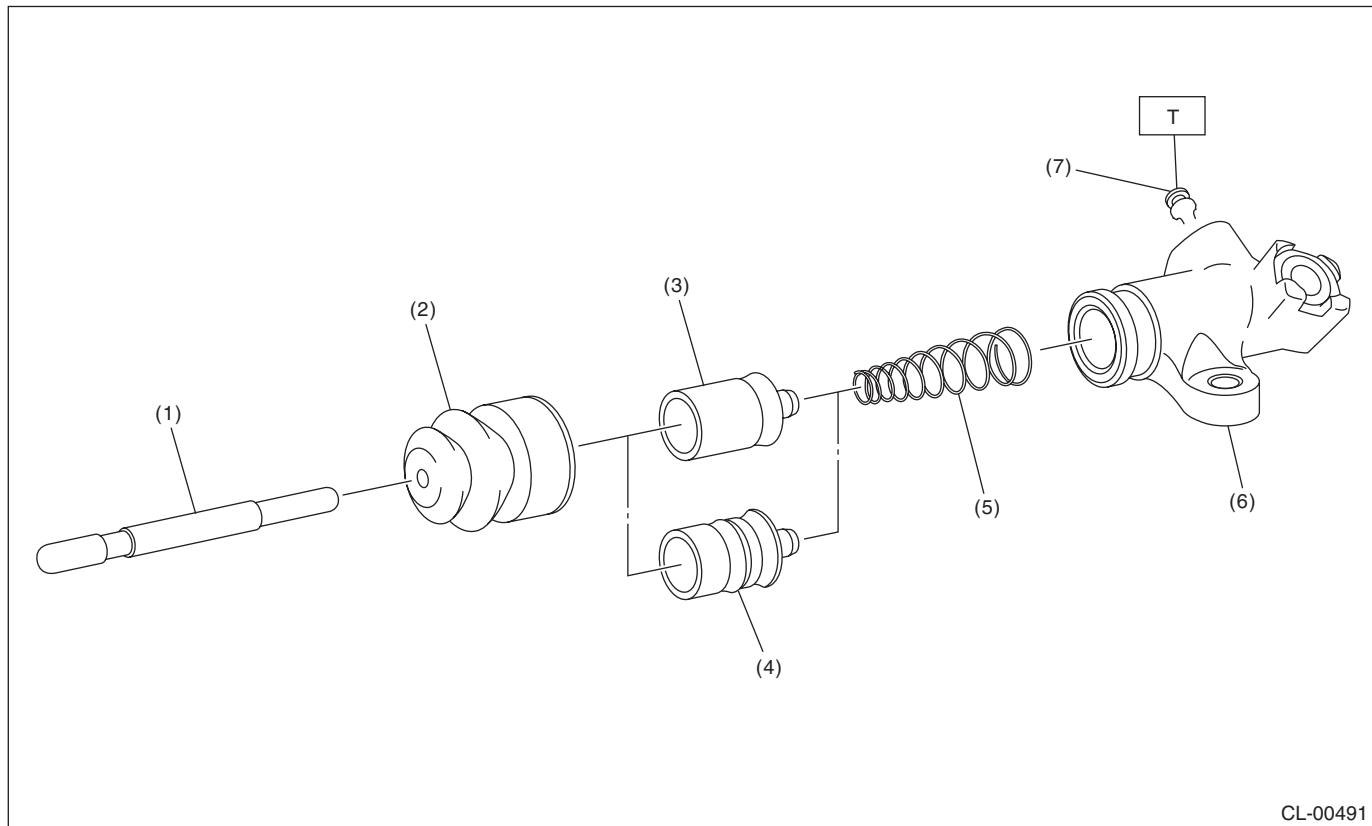
**Tightening torque:N·m (kgf·m, ft-lb)**

**T1: 10 (1.0, 7.2)**

**T2: 46.6 (4.75, 34.4)**

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## 5. OPERATING CYLINDER



CL-00491

- |                              |                        |
|------------------------------|------------------------|
| (1) Push rod                 | (5) Piston spring      |
| (2) Boot                     | (6) Operating cylinder |
| (3) Piston (Non-turbo model) | (7) Bleeder screw      |
| (4) Piston (Turbo model)     |                        |

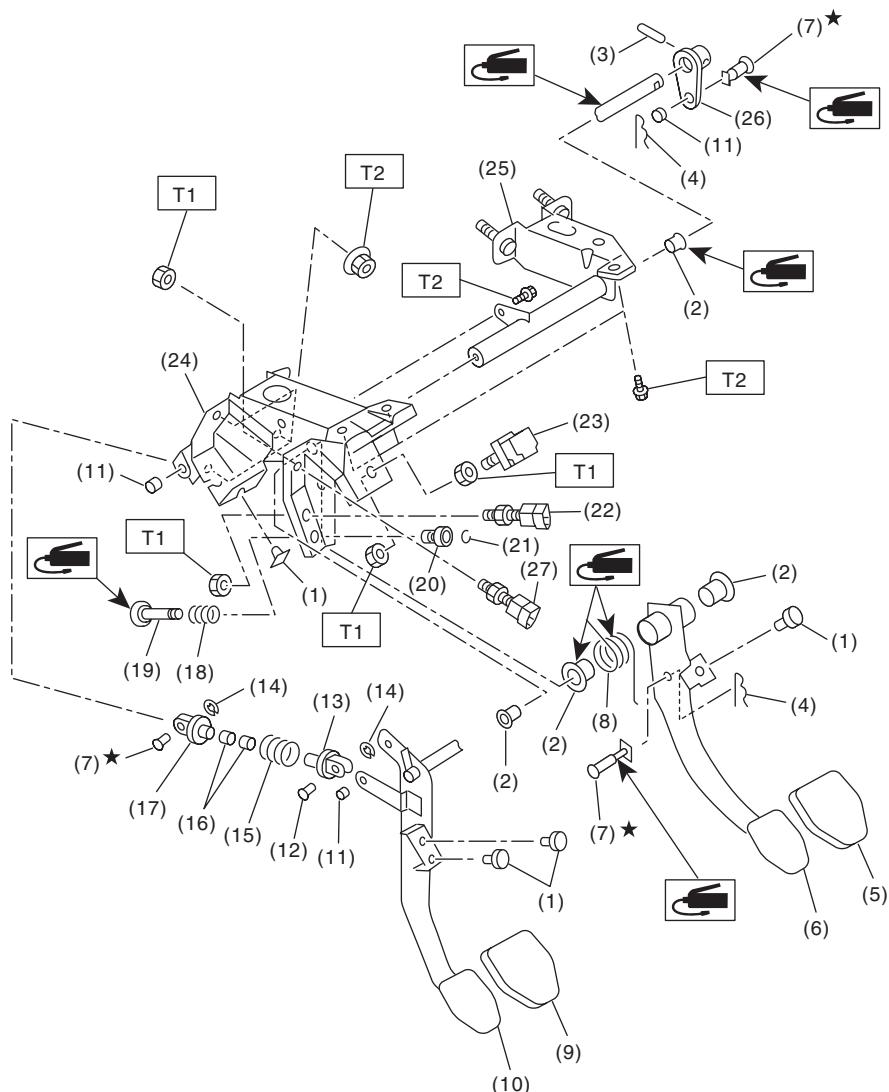
***Tightening torque:N·m (kgf·m, ft-lb)***

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

# General Description

## CLUTCH SYSTEM

### 6. CLUTCH PEDAL



CL-00088

- |                        |                        |                                     |
|------------------------|------------------------|-------------------------------------|
| (1) Stopper            | (12) Clutch clevis pin | (22) Clutch switch                  |
| (2) Bushing            | (13) Assist rod A      | (23) Stop light switch              |
| (3) Spring pin         | (14) Clip              | (24) Pedal bracket                  |
| (4) Snap pin           | (15) Assist spring     | (25) Clutch master cylinder bracket |
| (5) Brake pedal pad    | (16) Assist bushing    | (26) Lever                          |
| (6) Brake pedal        | (17) Assist rod B      | (27) Clutch switch (Clutch start)   |
| (7) Clevis pin         | (18) Spring S          |                                     |
| (8) Brake pedal spring | (19) Rod S             |                                     |
| (9) Clutch pedal pad   | (20) Bushing S         |                                     |
| (10) Clutch pedal      | (21) Clip              |                                     |
| (11) Bushing C         |                        |                                     |

**Tightening torque:N·m (kgf·m, ft·lb)**  
**T1: 8 (0.8, 5.8)**  
**T2: 18 (1.8, 13.0)**

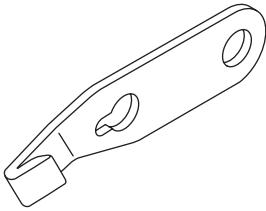
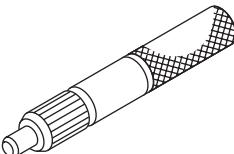
### C: CAUTION

- 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 problem. 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 on a vise, set cushioning material such as wood blocks, aluminum plate, or shop cloth between the part and the vise.
- Keep fluids 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
 ST-498497100	498497100	CRANKSHAFT STOPPER	Used for stopping rotation of the flywheel when loosening/tightening bolts, etc.
 ST-499747100	499747100	CLUTCH DISC GUIDE	Used when installing the clutch disc to the flywheel.

#### 2. GENERAL TOOL

TOOL NAME	REMARKS
Circuit tester	Used for measuring resistance, voltage and ampere.
Dial gauge	Used for measuring clutch disc run-out.
Depth gauge	Used for measuring clutch disc wear.