

General Description

CLUTCH SYSTEM

1. General Description

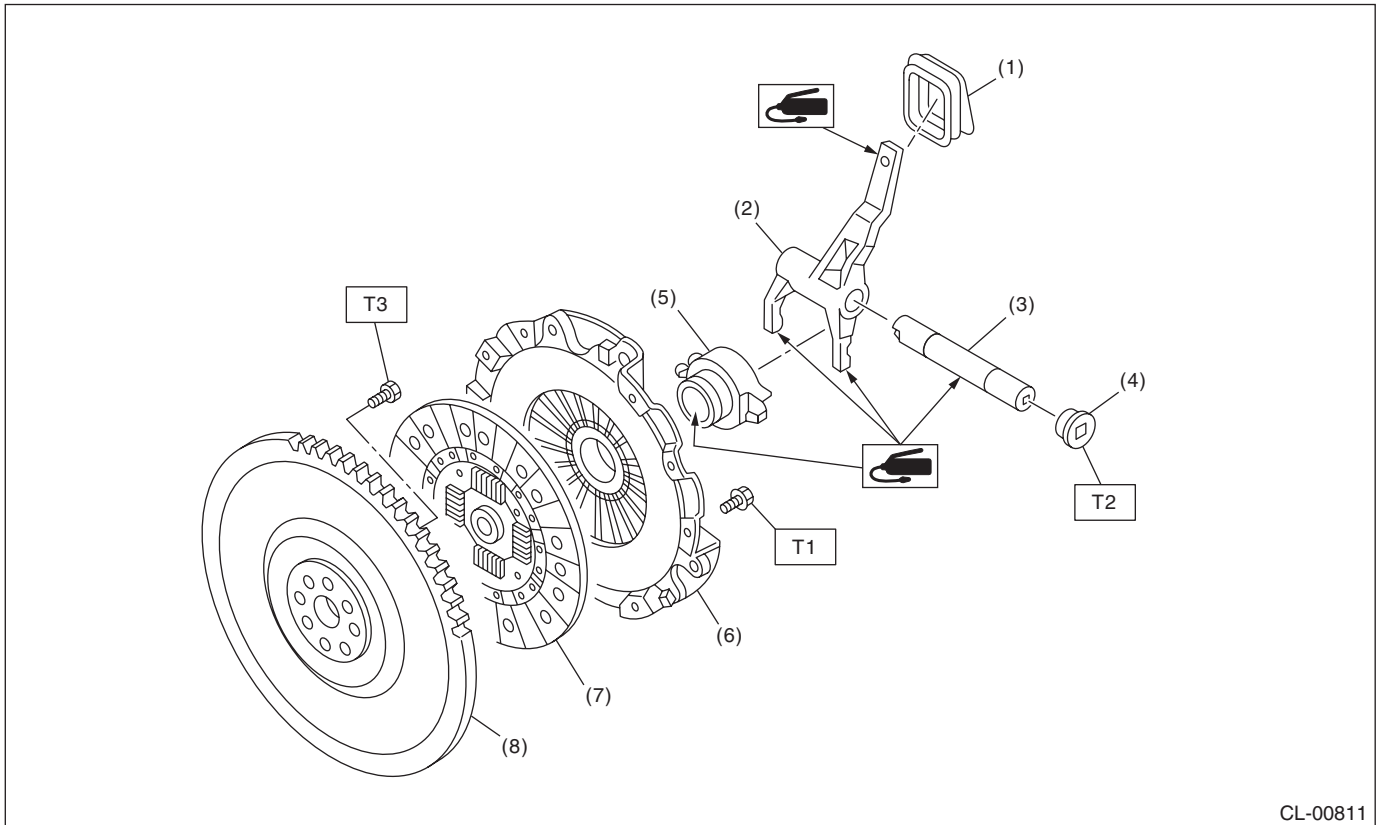
A: SPECIFICATION

Model		STI	Except for STI	
Transmission type		6MT	6MT	
Clutch cover	Type	Pull type	Push type	
	Diaphragm set load N (kgf, lbf)	9,120 (930, 2051)	7,450 (760, 1,675)	
Clutch disc	Facing material		Woven (non-asbestos)	
	O.D. × I.D. × Thickness mm (in)	Clutch cover side	240 × 160 × 3.5 (9.45 × 6.30 × 0.138)	230 × 155 × 3.5 (9.06 × 6.10 × 0.138)
		Flywheel side	240 × 160 × 3.2 (9.45 × 6.30 × 0.126)	230 × 155 × 3.2 (9.06 × 6.10 × 0.126)
	Spline outer diameter mm (in)		25.2 (0.992), (number of teeth: 24)	
	Depth of rivet head mm (in)	Clutch cover side	1.65 — 2.25 (0.065 — 0.089)	
		Flywheel side	1.35 — 1.95 (0.053 — 0.077)	
		Limit of sinking	0.8 (0.031)	
Deflection limit mm (in)		0.7 (0.028) at R = 115 (4.53)	0.7 (0.028) at R = 110 (4.33)	
Release bearing		Grease-packed self-aligning		
Clutch pedal	Full stroke mm (in)	130 — 135 (5.12 — 5.31)	135 — 140 (5.31 — 5.51)	
	Free play mm (in)	5 — 11 (0.20 — 0.43)		
Flywheel	Type	Conventional	Flexible	

B: COMPONENT

1. CLUTCH ASSEMBLY

- STI model



CL-00811

- | | |
|--------------------------------|---------------------------|
| (1) Dust cover | (5) Release bearing |
| (2) Release lever | (6) Clutch cover |
| (3) Clutch release lever shaft | (7) Clutch disc |
| (4) Plug | (8) Conventional flywheel |

Tightening torque: N·m (kgf-m, ft-lb)

T1: 16 (1.6, 11.8)

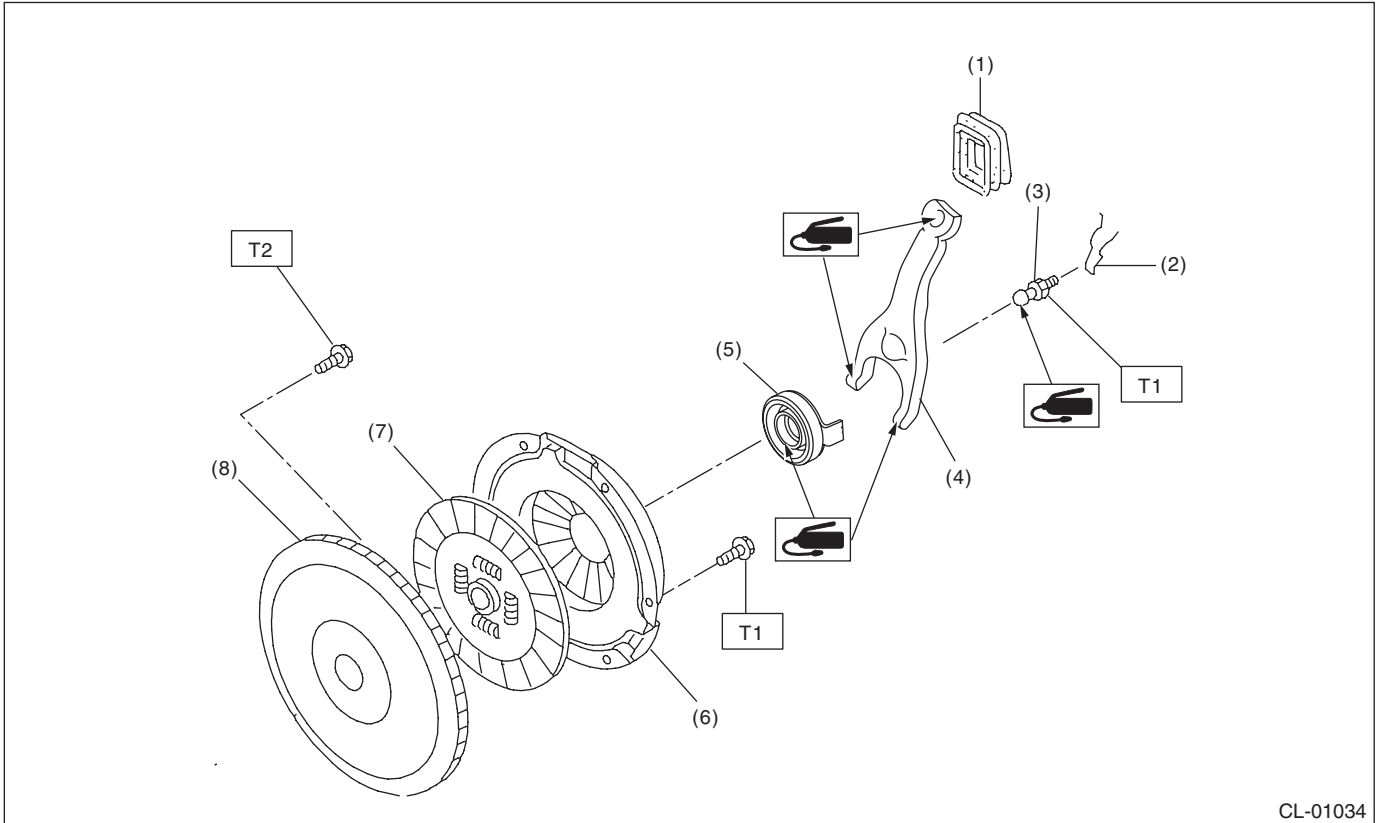
T2: 48 (4.9, 35.4)

T3: 75 (7.6, 55.3)

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- Except for STI model



CL-01034

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

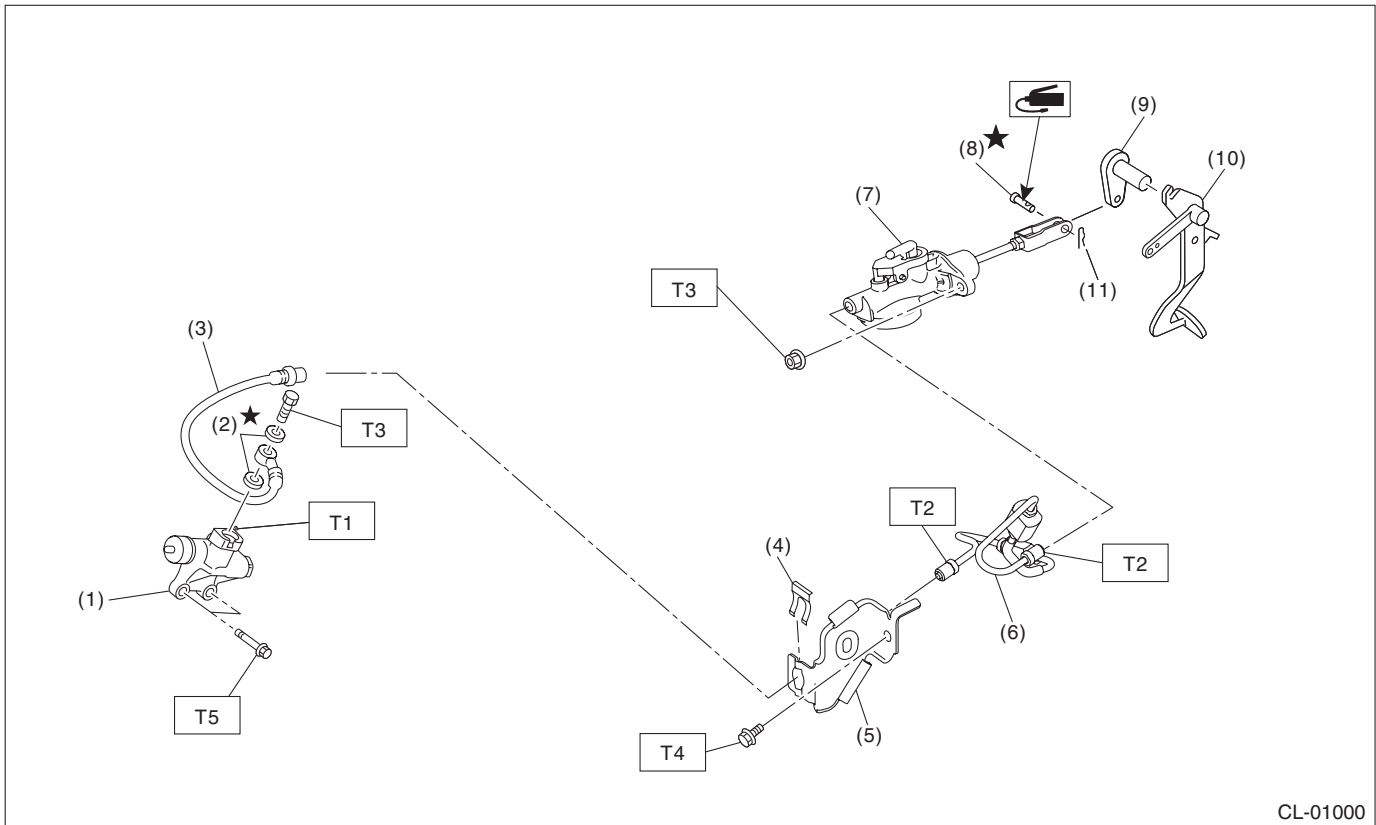
Tightening torque: N-m (kgf-m, ft-lb)

T1: 16 (1.6, 11.8)

T2: <Ref. to CL-16, EXCEPT FOR STI MODEL, INSTALLATION, Flywheel.>

2. CLUTCH PIPE AND HOSE

- STI model



CL-01000

- | | |
|------------------------|--------------------------|
| (1) Operating cylinder | (7) Master cylinder ASSY |
| (2) Washer | (8) Clevis pin |
| (3) Clutch hose | (9) Lever |
| (4) Clip | (10) Pedal |
| (5) Clutch bracket | (11) Snap pin |
| (6) Clutch pipe | |

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)

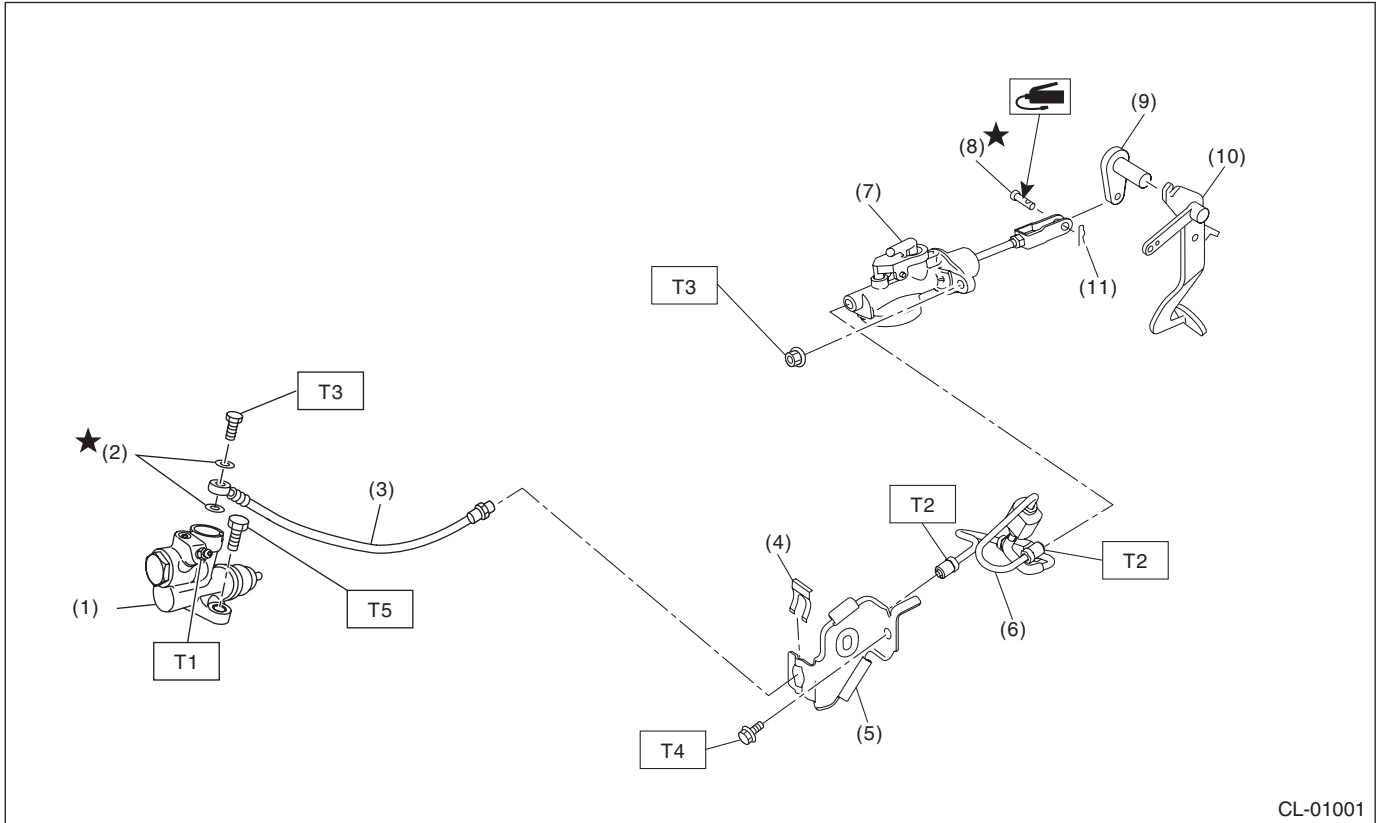
T4: 25 (2.5, 18.4)

T5: 41 (4.2, 30.2)

General Description

CLUTCH SYSTEM

- Except for STI model



CL-01001

- | | |
|------------------------|--------------------------|
| (1) Operating cylinder | (7) Master cylinder ASSY |
| (2) Washer | (8) Clevis pin |
| (3) Clutch hose | (9) Lever |
| (4) Clip | (10) Pedal |
| (5) Clutch bracket | (11) Snap pin |
| (6) Clutch pipe | |

Tightening torque: N·m (kgf·m, ft·lb)

T1: 7.8 (0.8, 5.8)

T2: 15 (1.5, 11.1)

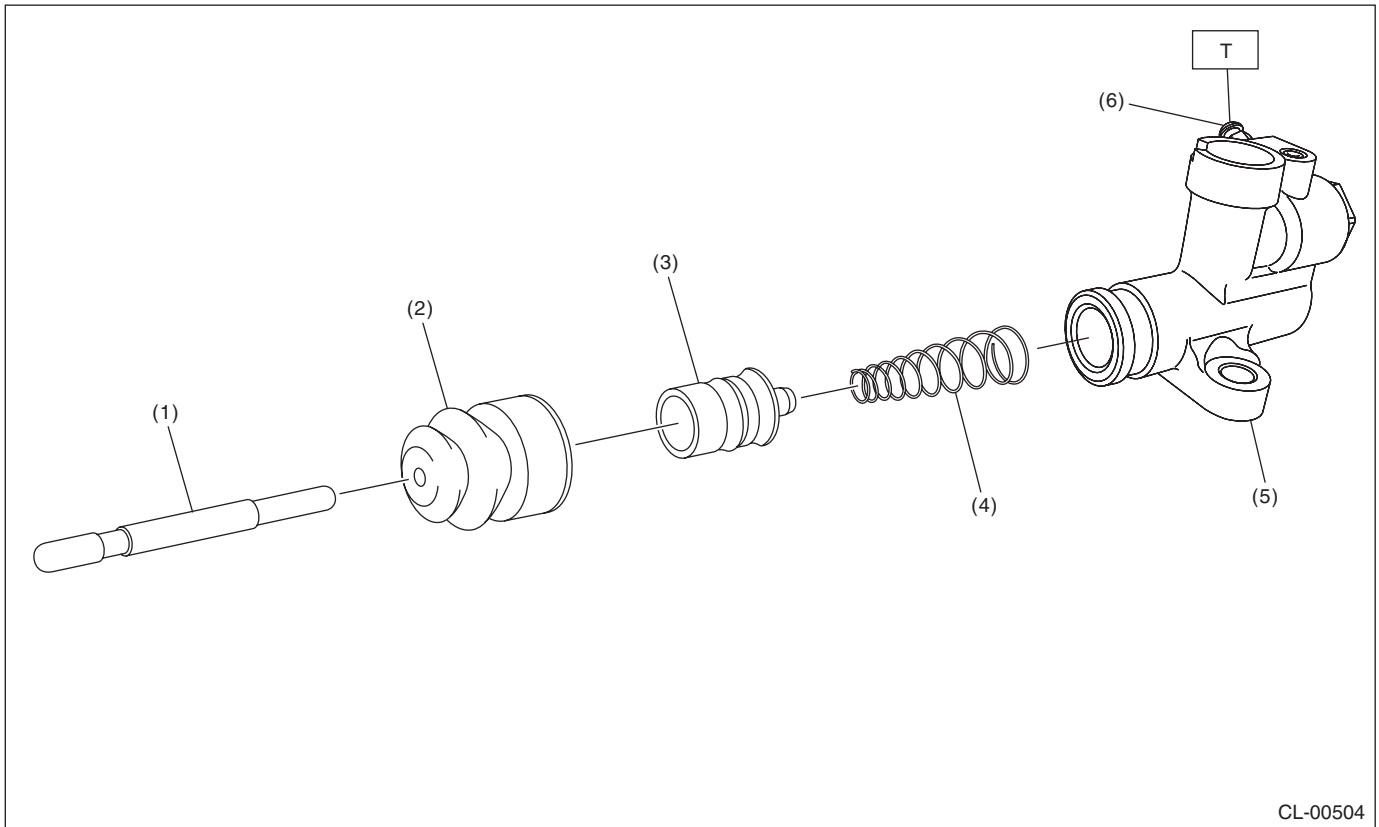
T3: 18 (1.8, 13.3)

T4: 25 (2.5, 18.4)

T5: 37 (3.8, 27.3)

3. OPERATING CYLINDER

- Except for STI model



CL-00504

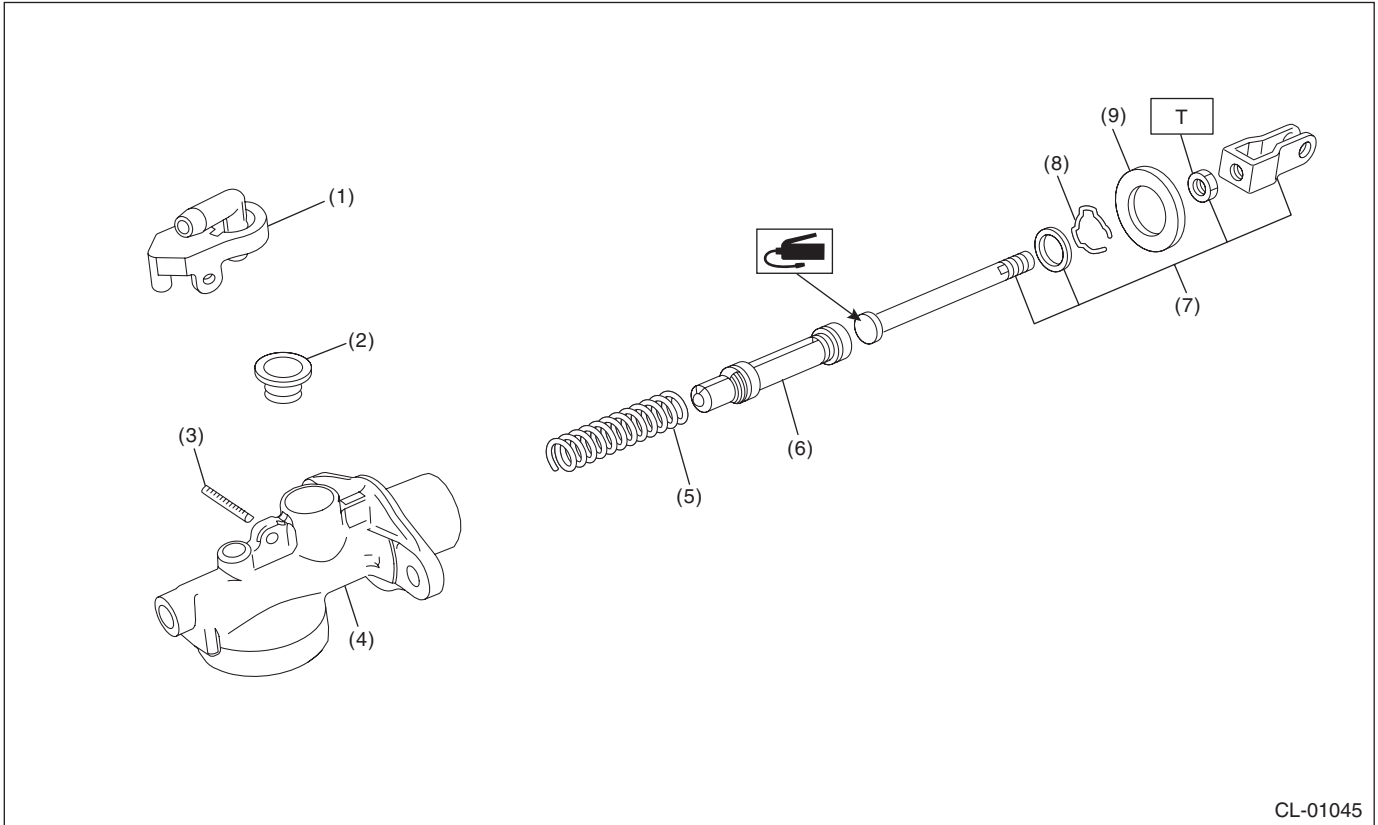
- | | |
|--------------|------------------------|
| (1) Push rod | (4) Piston spring |
| (2) Boot | (5) Operating cylinder |
| (3) Piston | (6) Breather screw |

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

General Description

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4. MASTER CYLINDER



CL-01045

- (1) Nipple
- (2) Oil seal
- (3) Straight pin
- (4) Master cylinder

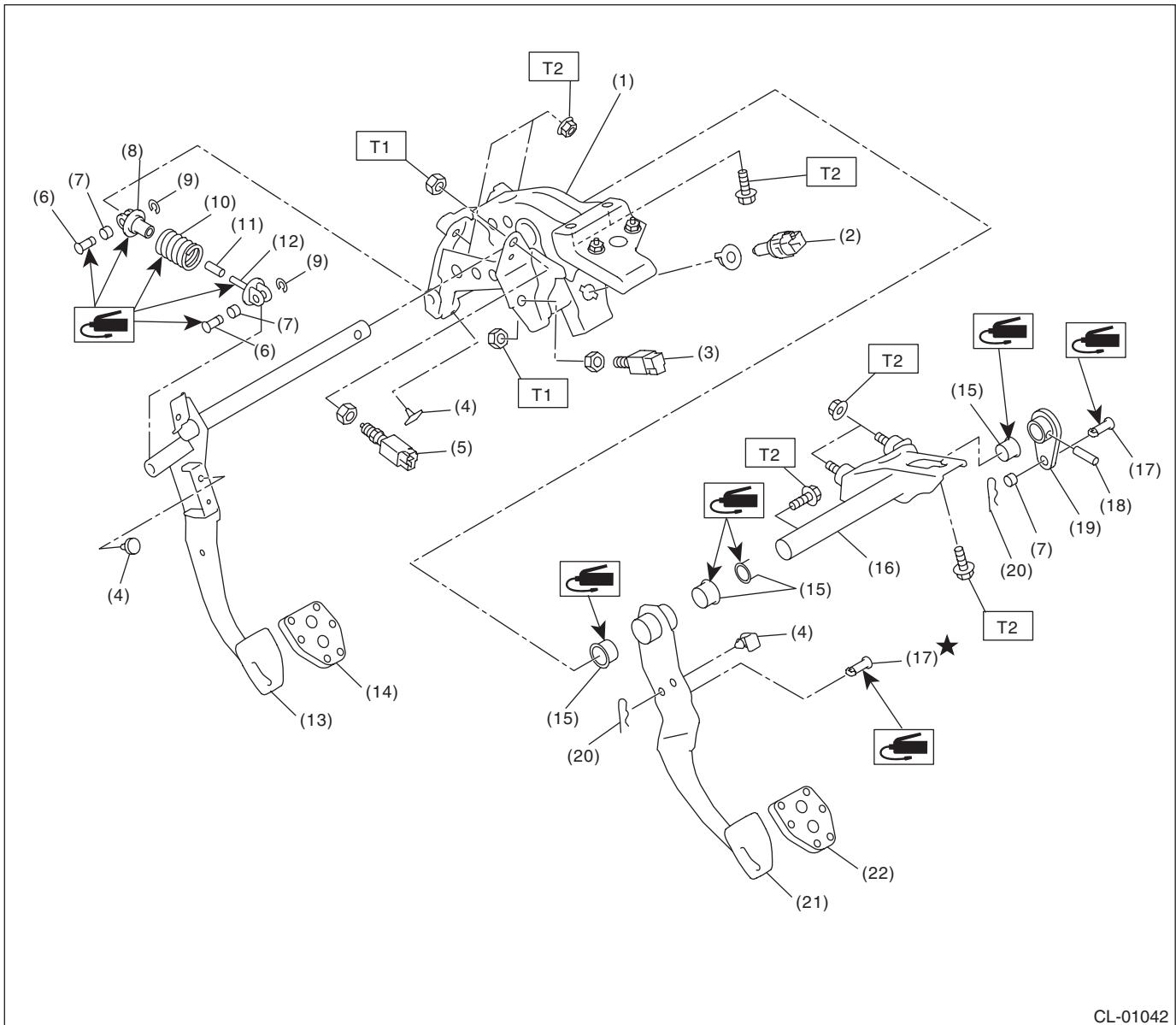
- (5) Return spring
- (6) Piston
- (7) Push rod ASSY
- (8) Piston stop ring

- (9) Seat

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

T: 10 (1.0, 7.4)

5. CLUTCH PEDAL



CL-01042

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

Tightening torque: N·m (kgf·m, ft·lb)

T1: 8 (0.8, 5.9)

T2: 18 (1.8, 13.3)

General Description

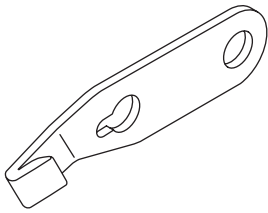
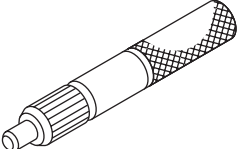
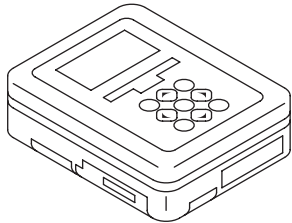
CLUTCH SYSTEM

C: CAUTION

- 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.
- 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
 ST-498497100	498497100	CRANKSHAFT STOPPER	Used for stopping rotation of the flywheel.
 ST-499747100	499747100	CLUTCH DISC GUIDE	Used for installing the clutch disc to the flywheel.
 ST1B022XU0	1B022XU0	SUBARU SELECT MONITOR III KIT	Used for installing and adjusting the clutch start switch.

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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 installing the flywheel.