

General Description

CLUTCH SYSTEM

1. General Description

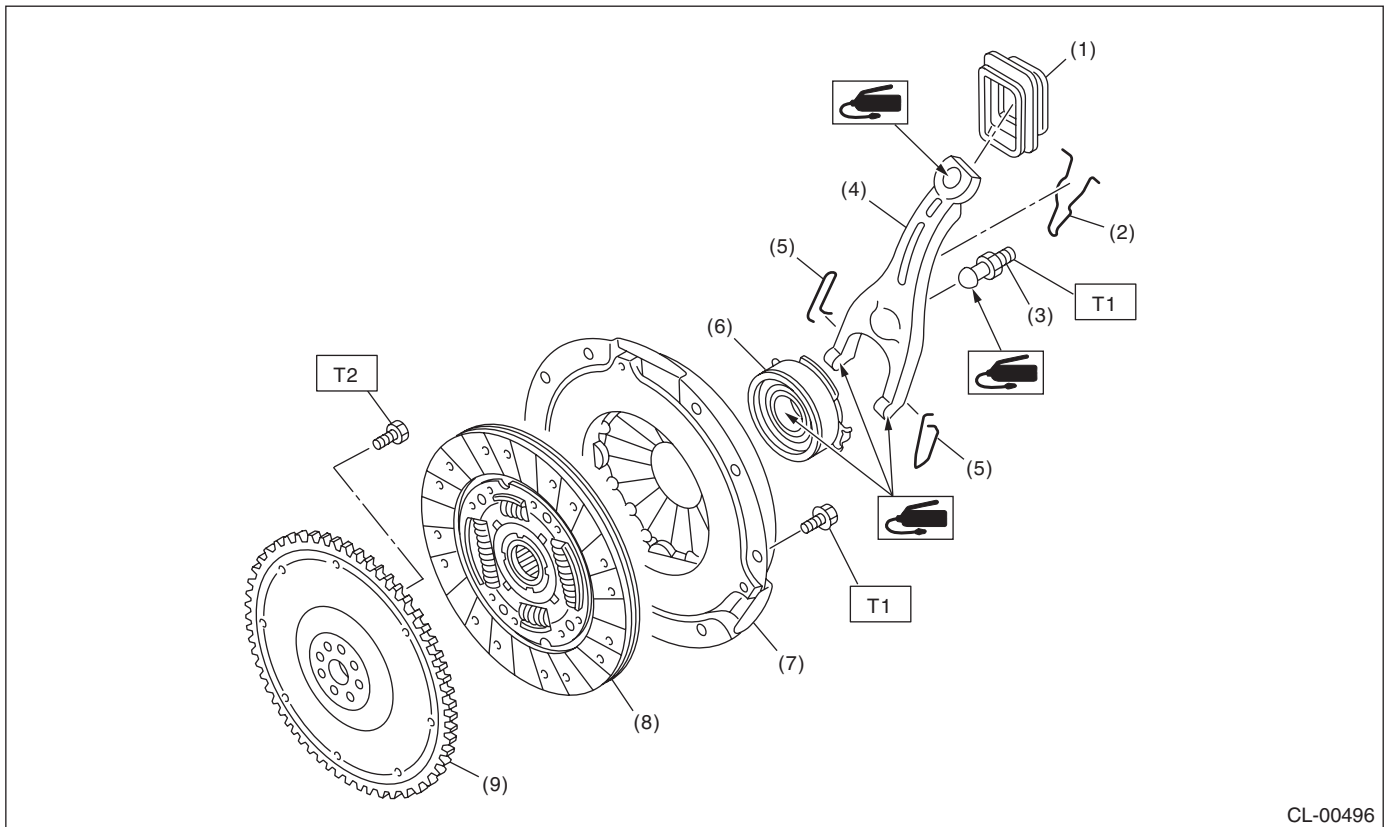
A: SPECIFICATION

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	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)

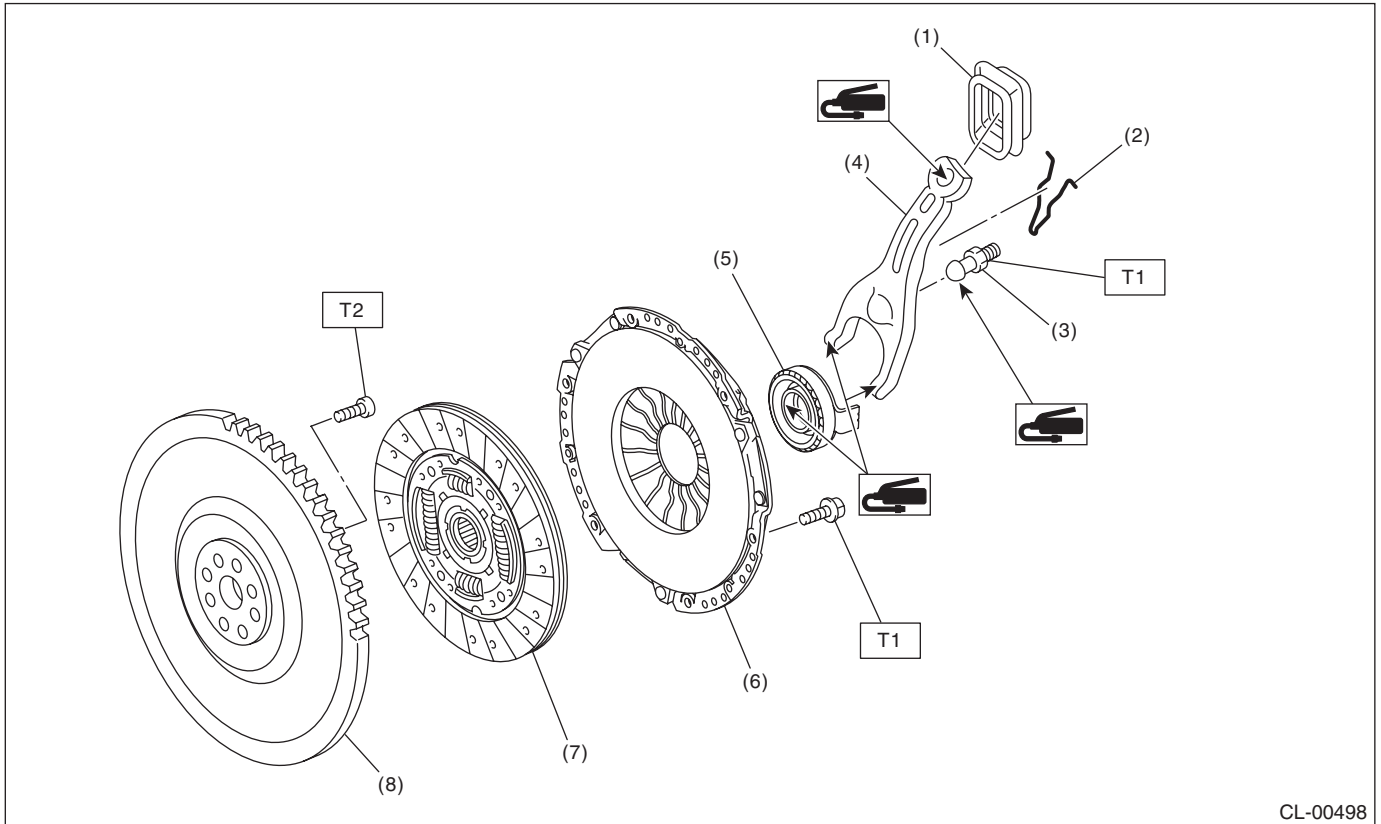
T1: 16 (1.6, 11.6)

T2: 72 (7.3, 52.8)

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TURBO MODEL



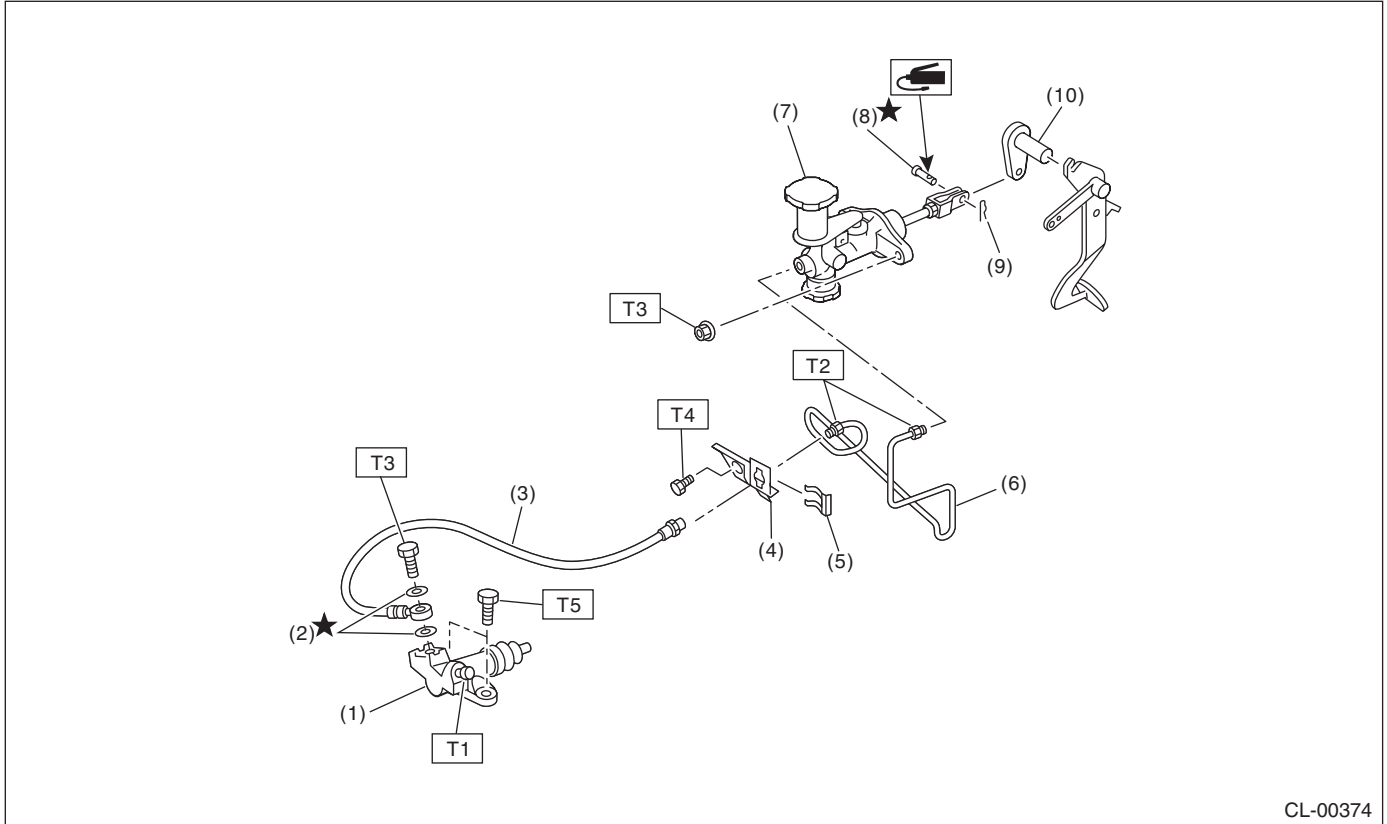
- | | |
|------------------------------|---------------------|
| (1) Release lever dust cover | (5) Release bearing |
| (2) Lever spring | (6) Clutch cover |
| (3) Pivot | (7) Clutch disc |
| (4) Release lever | (8) Flywheel |

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)

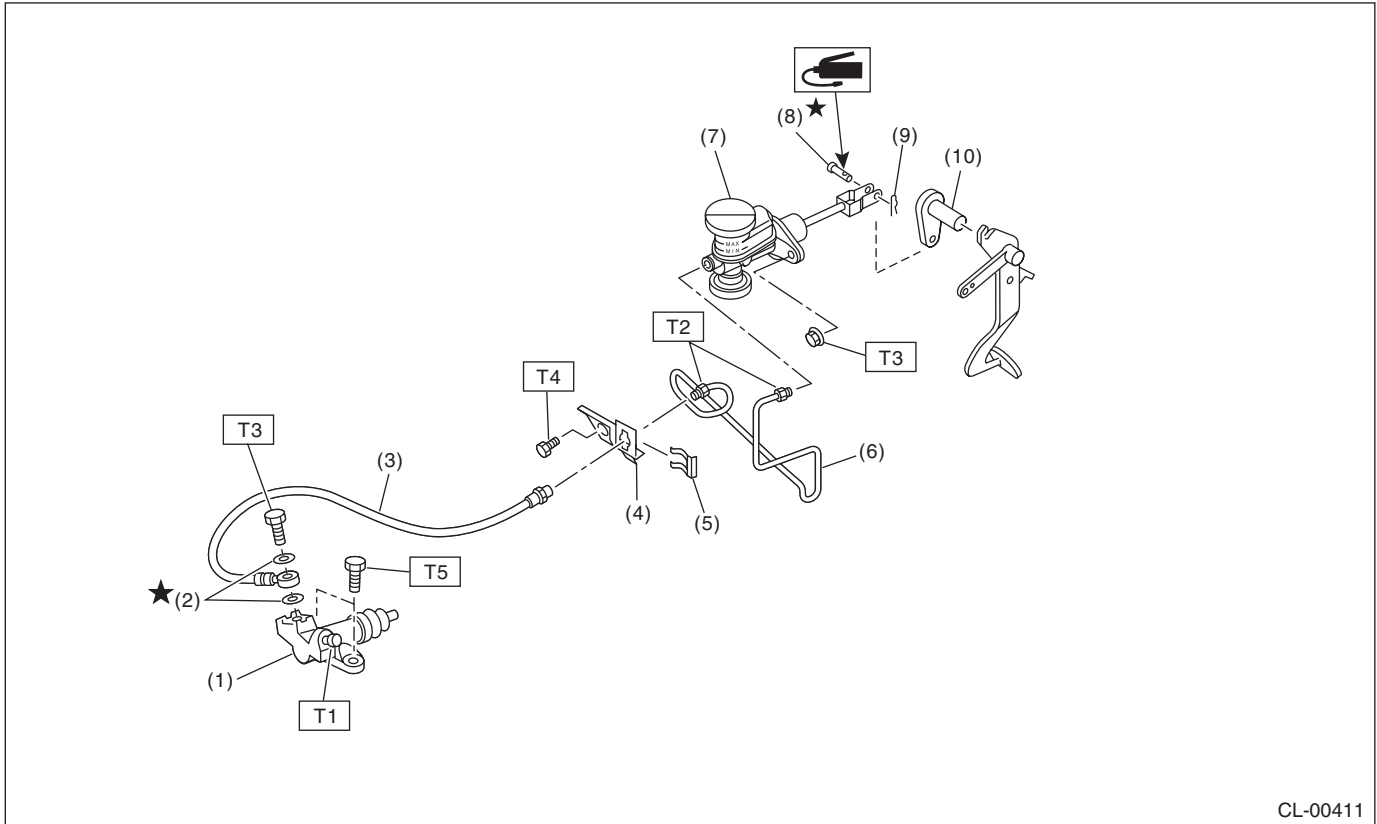
T4: 25 (2.5, 18.1)

T5: 37 (3.8, 27.5)

General Description

CLUTCH SYSTEM

3. CLUTCH PIPE AND HOSE (TURBO MODEL)



- | | |
|------------------------|--------------------------|
| (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)

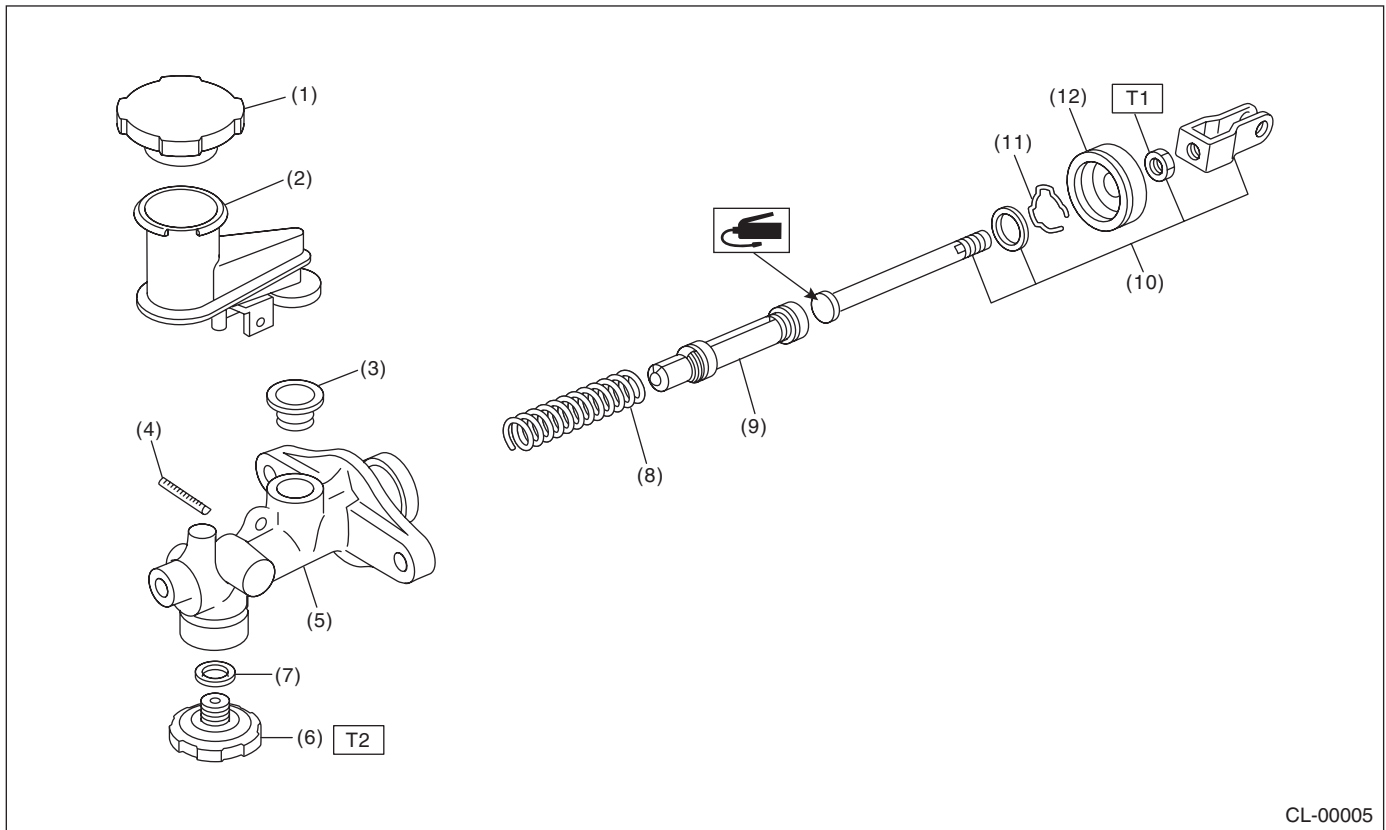
T3: 18 (1.8, 13.0)

T4: 25 (2.5, 18.1)

T5: 37 (3.8, 27.5)

4. MASTER CYLINDER

Non-turbo model



CL-00005

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

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

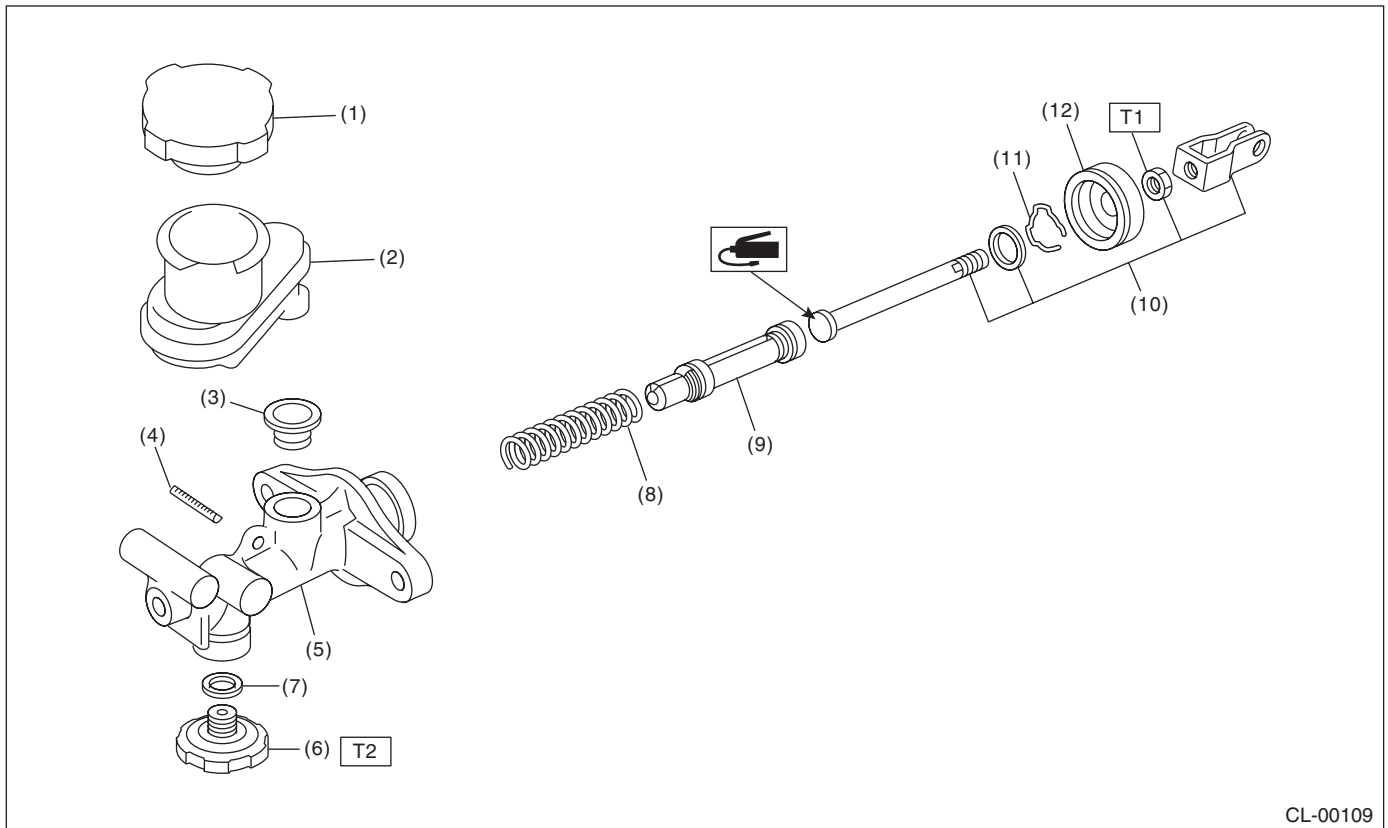
T1: 10 (1.0, 7)

T2: 46.6 (4.75, 34.4)

General Description

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Turbo model



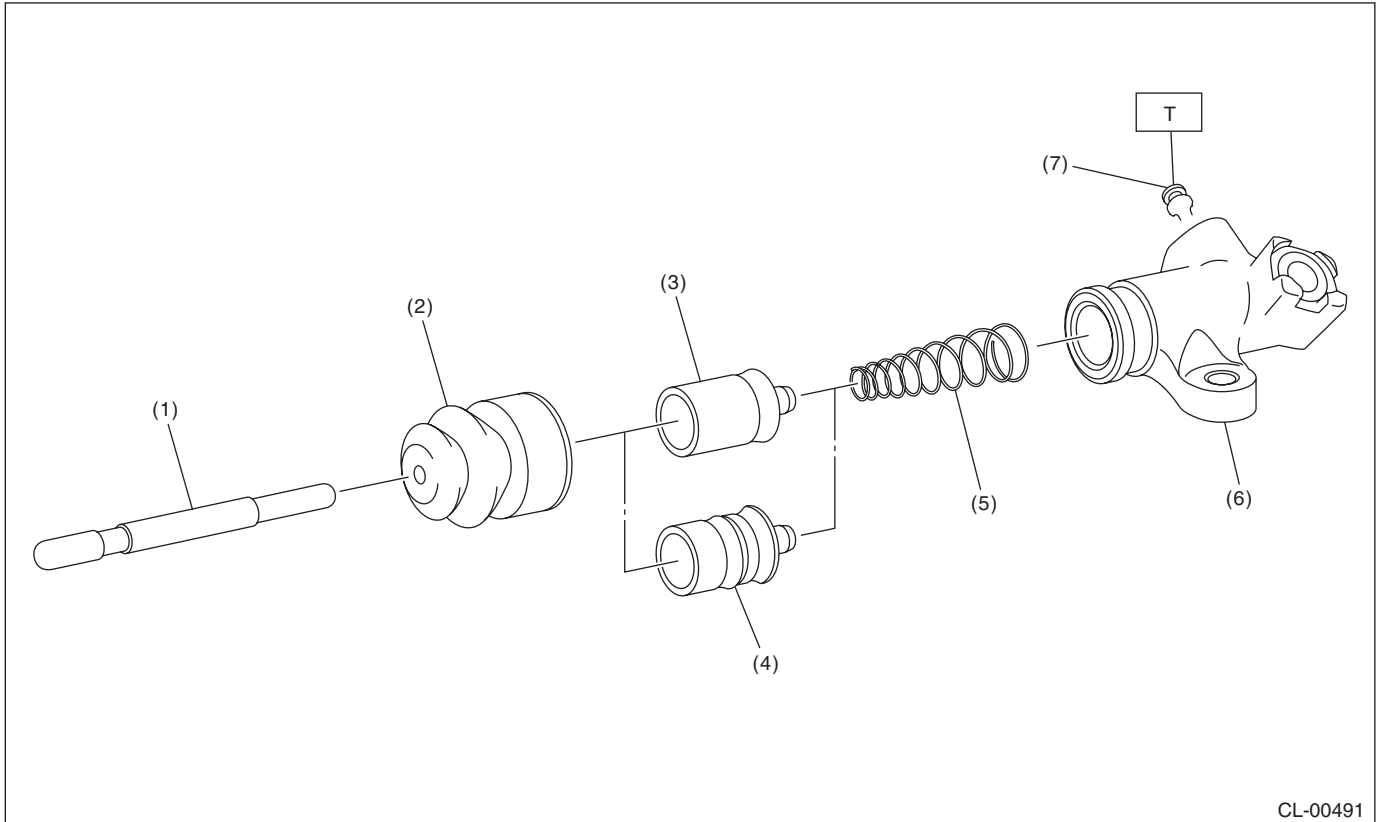
- | | |
|---------------------|-----------------------|
| (1) Reservoir cap | (7) Gasket |
| (2) Reservoir tank | (8) Return spring |
| (3) Oil seal | (9) Piston |
| (4) Straight pin | (10) Push rod |
| (5) Master cylinder | (11) Piston stop ring |
| (6) Clutch damper | (12) Cylinder boot |

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

T1: 10 (1.0, 7.2)

T2: 46.6 (4.75, 34.4)

5. OPERATING CYLINDER



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

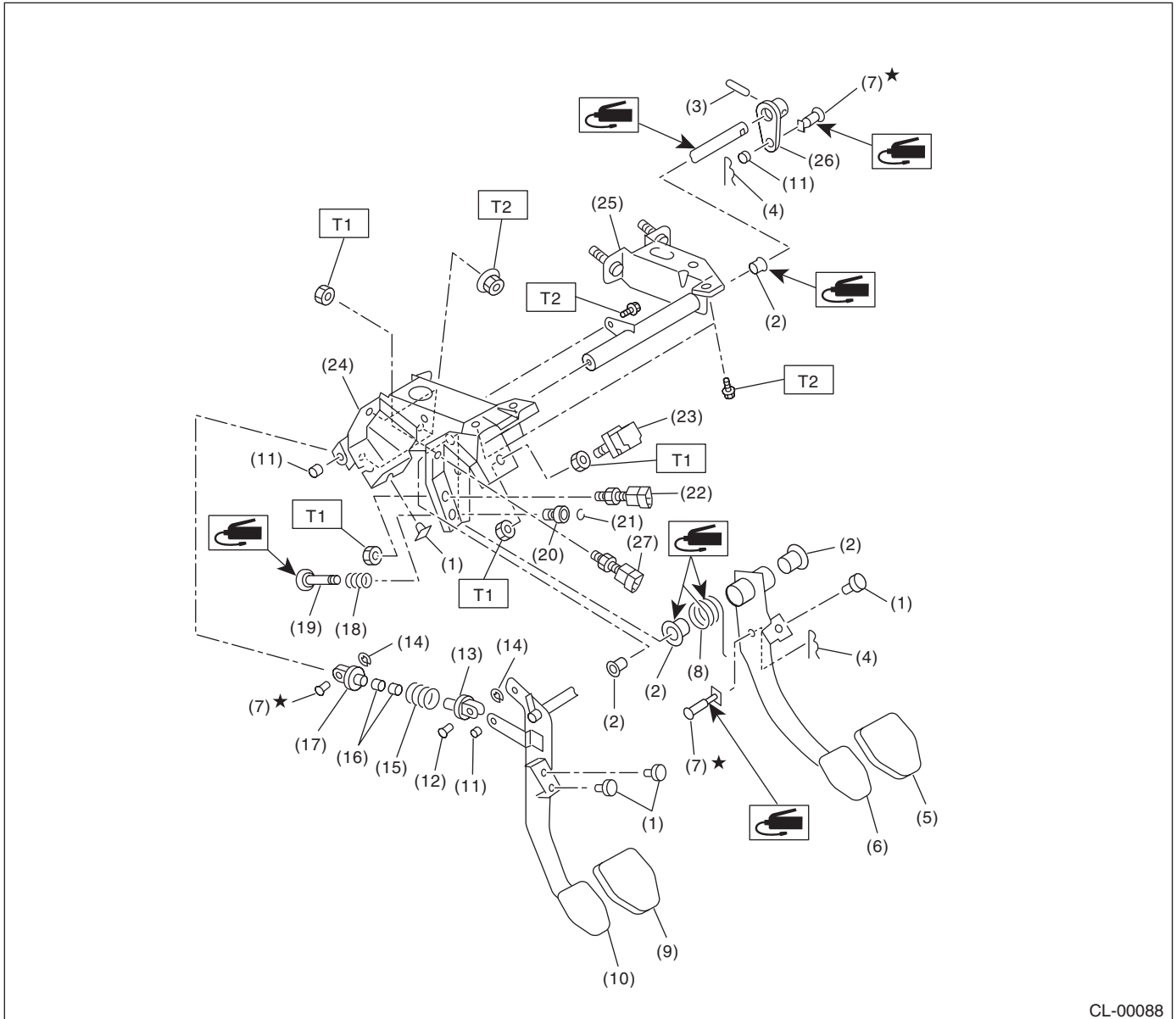
Tightening torque: N·m (kgf·m, ft·lb)

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)

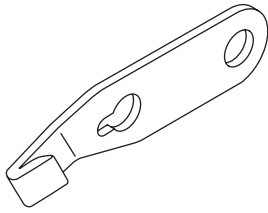
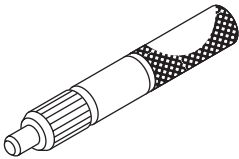
C: CAUTION

- 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.