

General Description

CLUTCH SYSTEM

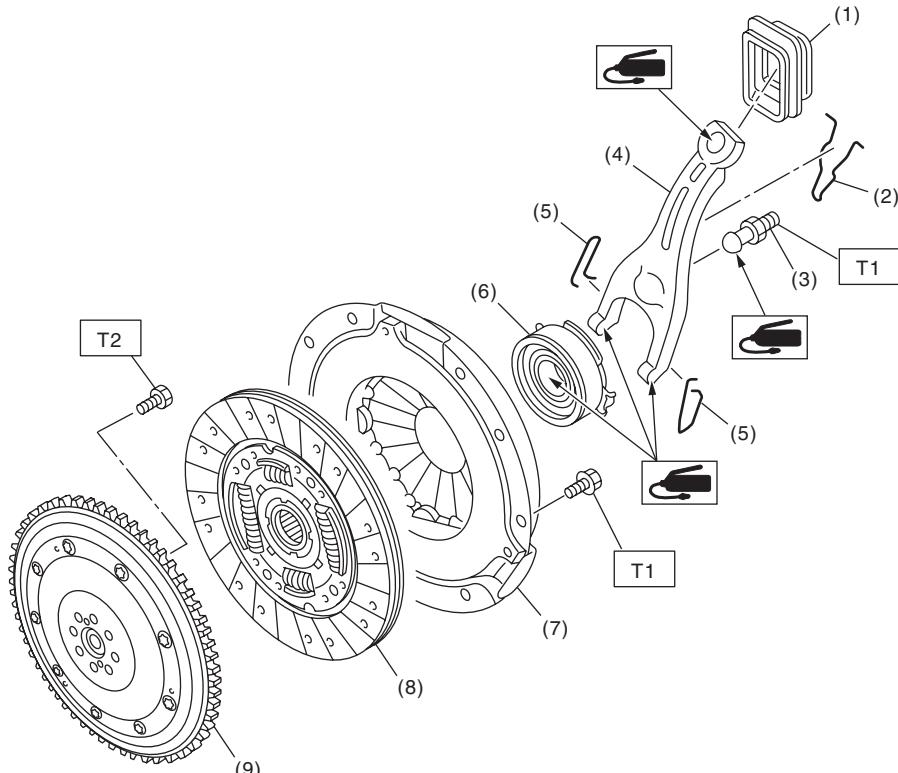
1. General Description

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)	
Facing material		Woven (Non-asbestos)	
Clutch disc	O.D. × I.D. × thickness mm (in)	Clutch cover side 225 × 150 × 3.5 (8.86 × 5.9 × 0.138)	
		Flywheel side	
Spline outer diameter mm (in)		25.2 (0.992), (Number of teeth: 24)	
Clutch release lever ratio	Depth of rivet head mm (in)	Clutch cover side 1.65 — 2.25 (0.065 — 0.089)	
		Flywheel side	
Limit of sinking mm (in)		0.3 (0.012)	
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)

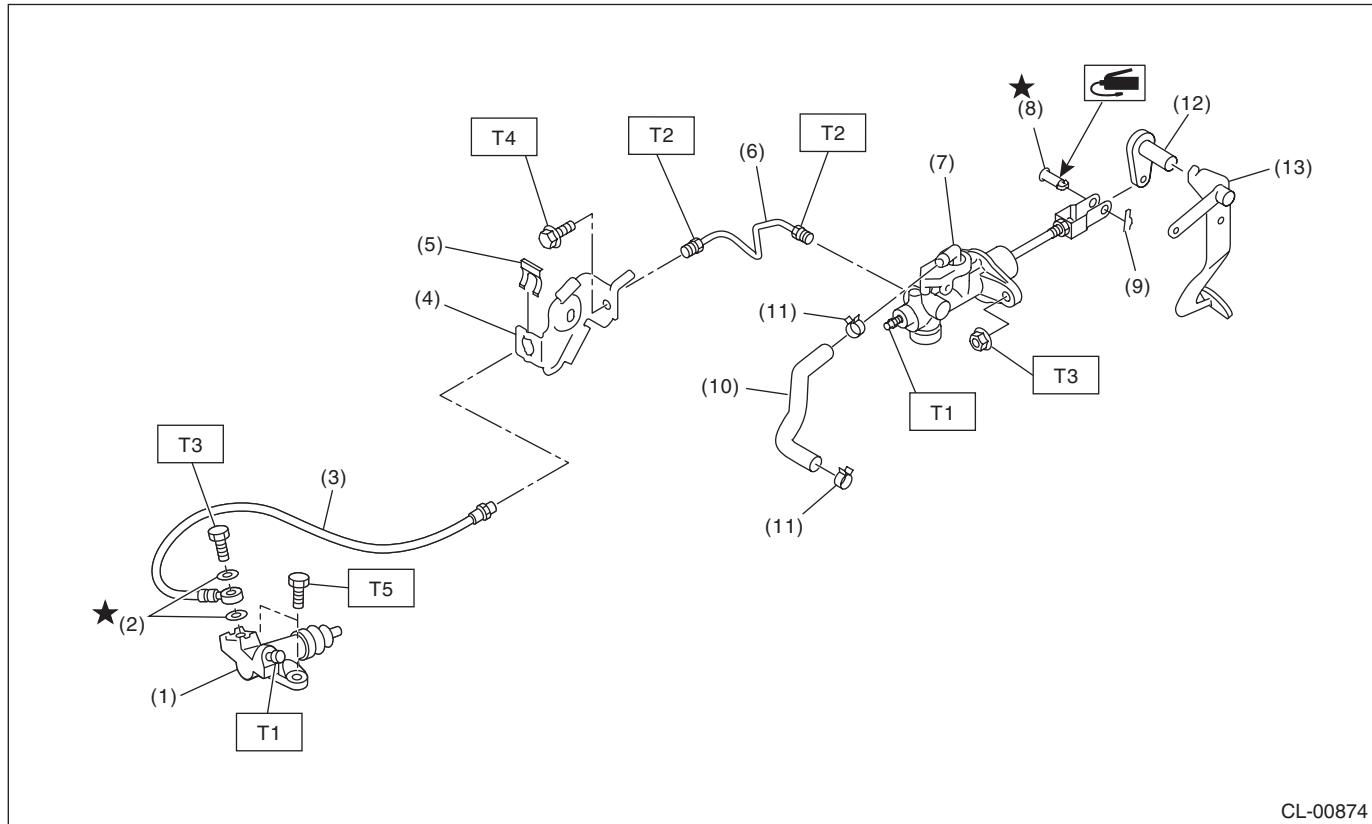
T1: 16 (1.6, 11.8)

T2: <Ref. to CL-13, INSTALLATION, Flywheel.>

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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)

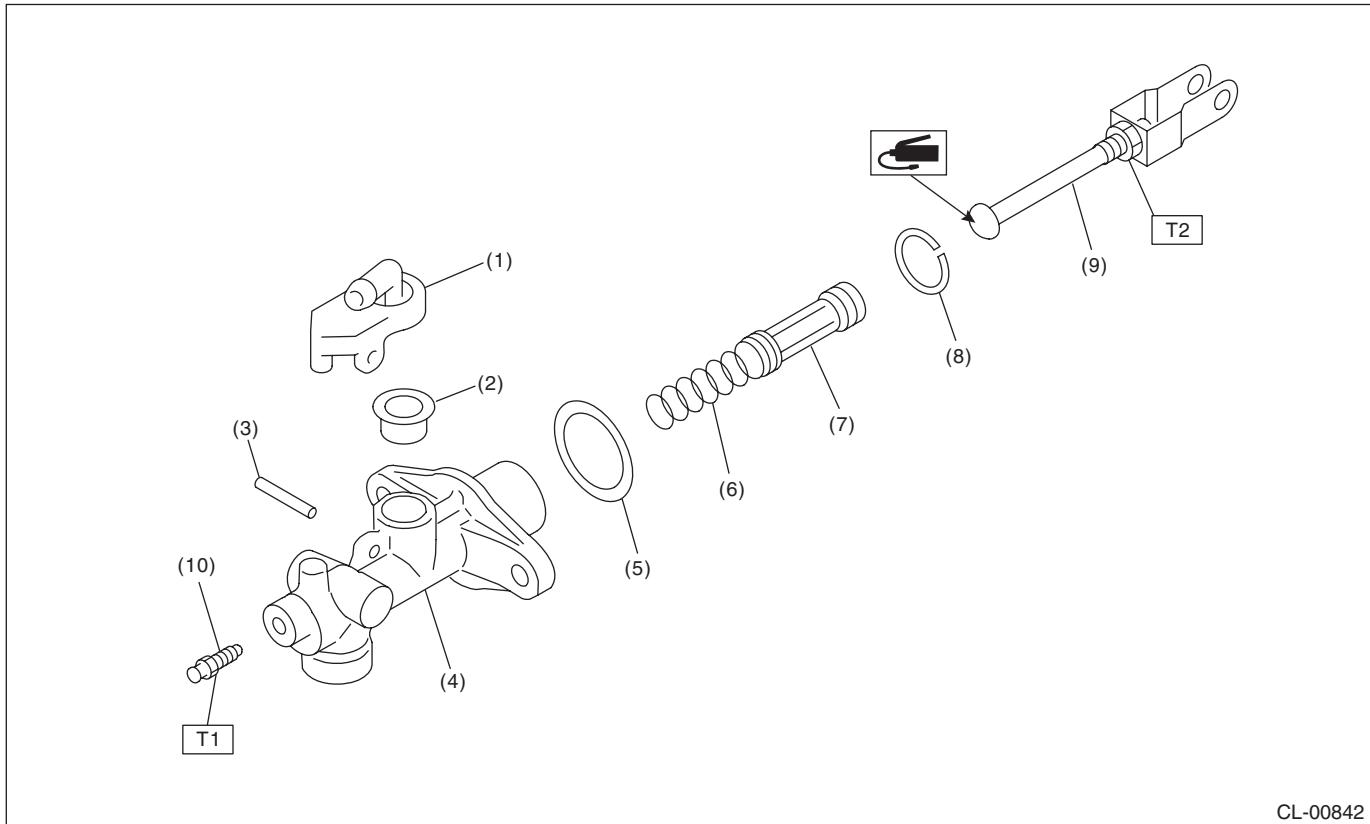
T2: 15 (1.5, 11.1)

T3: 18 (1.8, 13.3)

T4: 25 (2.5, 18.4)

T5: 37 (3.8, 27.3)

3. MASTER CYLINDER



CL-00842

(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)

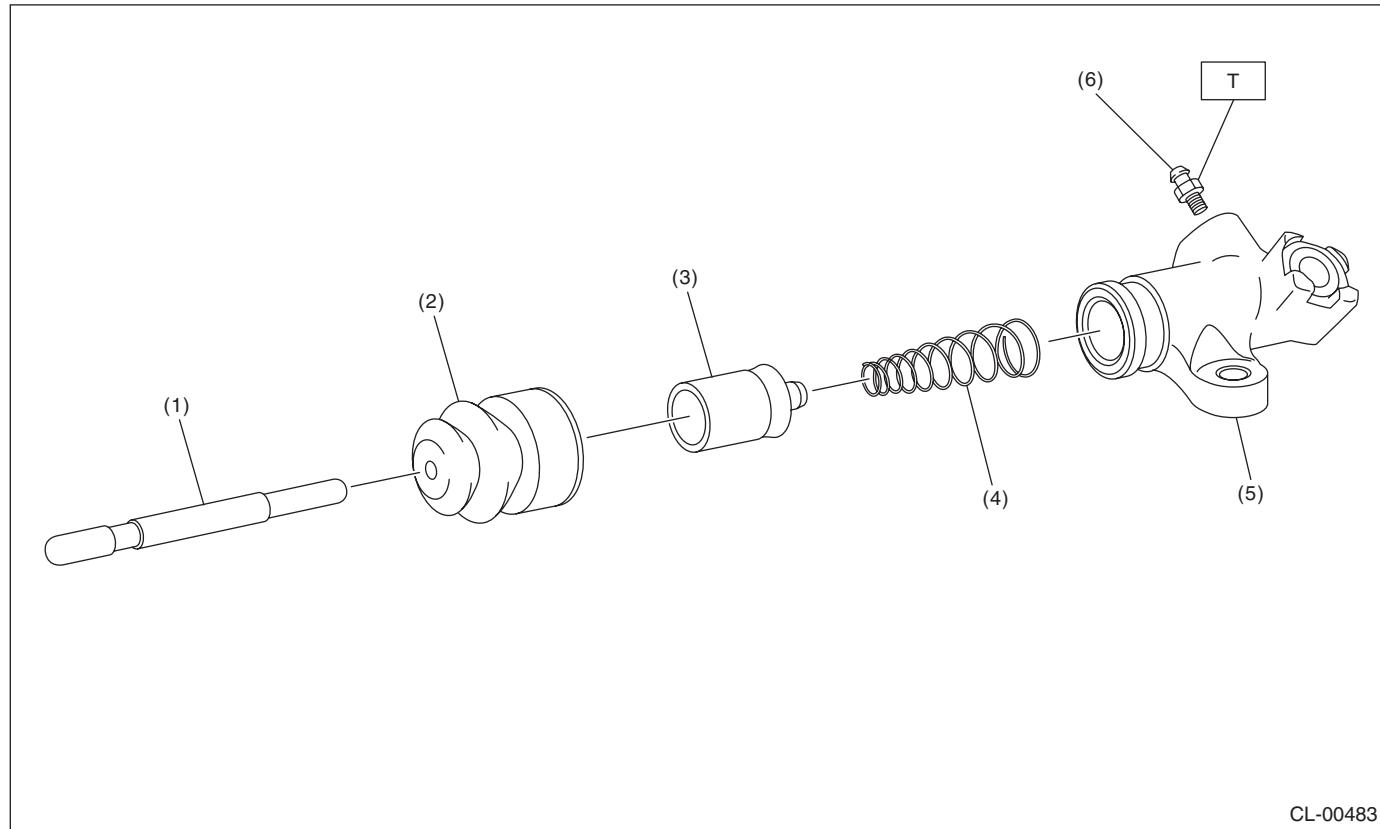
T1: 7.8 (0.8, 5.8)

T2: 10 (1.0, 7.4)

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4. OPERATING CYLINDER



CL-00483

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

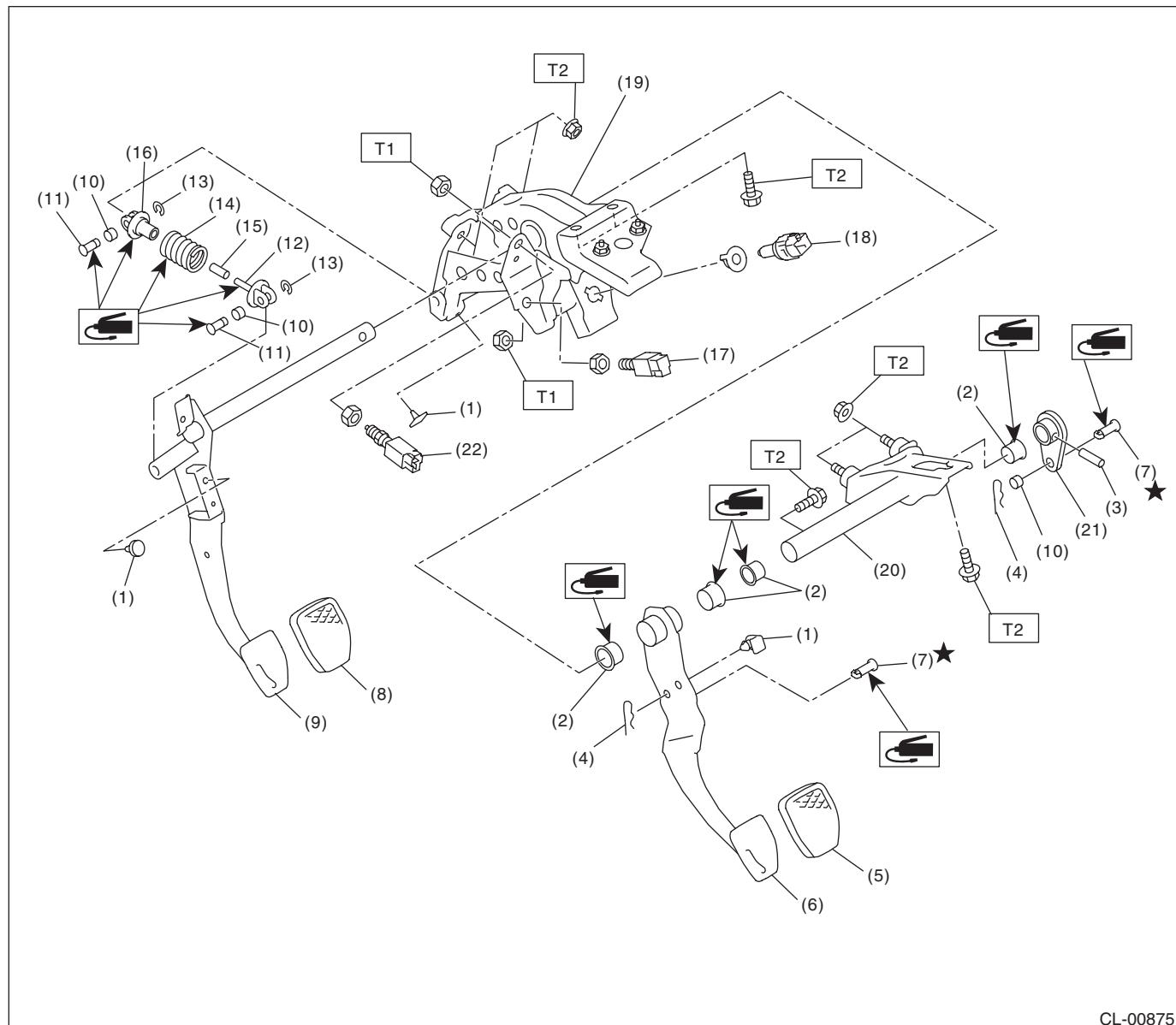
Tightening torque:N·m (kgf·m, ft-lb)

T: 7.8 (0.8, 5.8)

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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)

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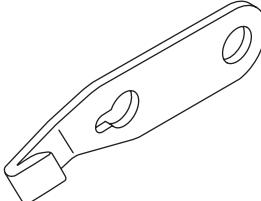
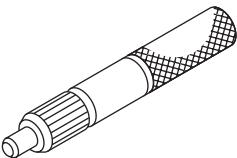
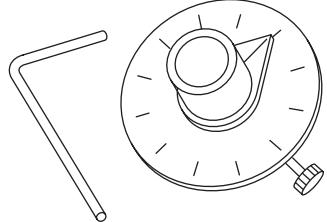
CLUTCH SYSTEM

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
 ST-498497100	498497100	CRANKSHAFT STOPPER	Used for stopping rotation of the flywheel when loosening/tightening bolts, etc.
 ST-499747100	499747100	CLUTCH DISC GUIDE	Used for installing the clutch disc to the flywheel.
 ST18854AA000	18854AA000	ANGLE GAUGE	Used for tightening 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.