

General Description

CLUTCH SYSTEM

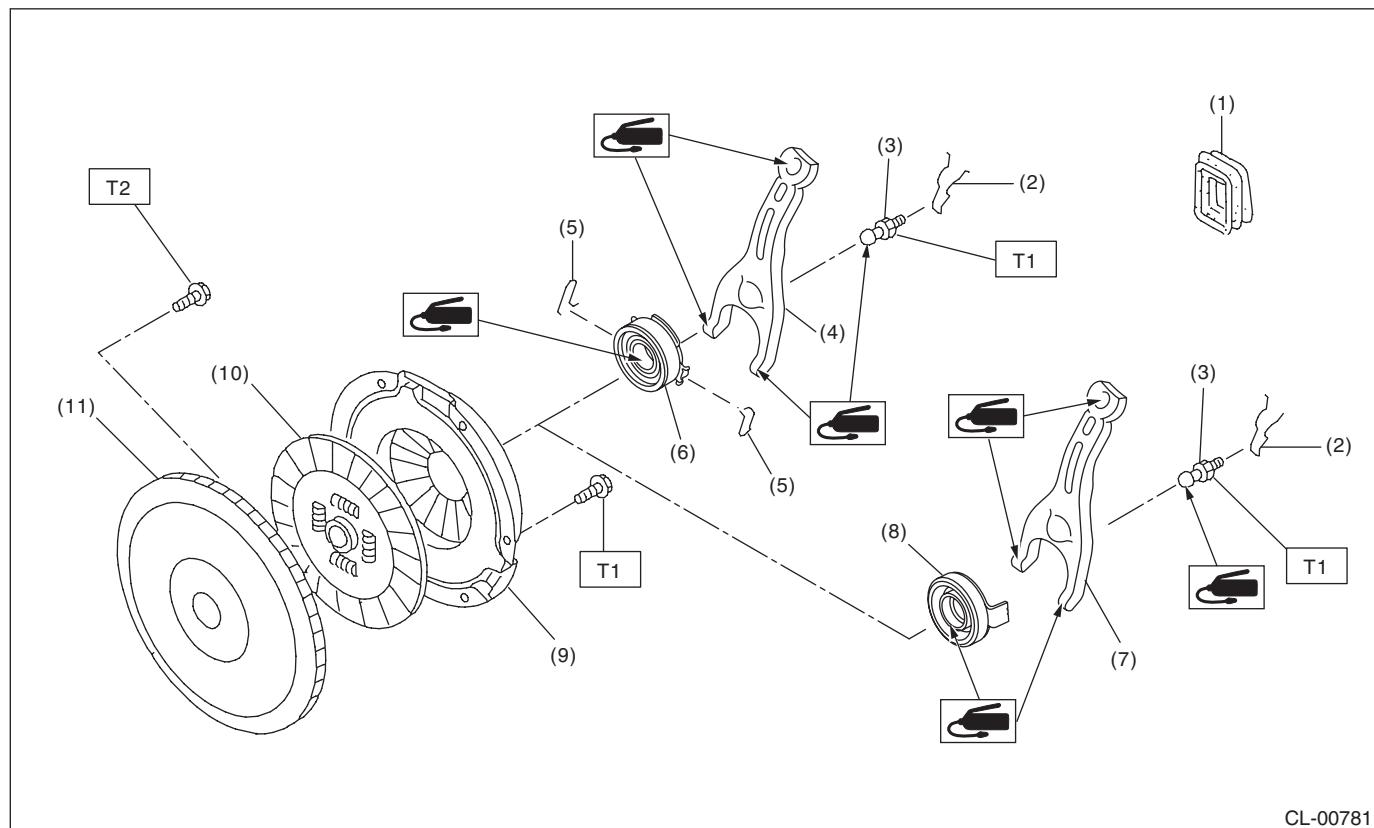
1. General Description

A: SPECIFICATION

Model		2.5 L non-turbo	2.5 L turbo
Transmission type		6MT	
Clutch cover	Type	Push type	
	Diaphragm set load N (kgf, lbf)	5,688 (580, 1,279)	7,450 (760, 1,675)
Facing material		Woven (Non-asbestos)	
Clutch disc	O.D. × I.D. × thickness mm (in)	Flywheel side	230 × 155 × 3.2 (9.06 × 6.10 × 0.126)
		Clutch cover side	230 × 155 × 3.5 (9.06 × 6.10 × 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	0.3 (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)	135 — 140 (5.31 — 5.51)
	Free play mm (in)	4 — 11 (0.16 — 0.43)	
Flywheel	Type	Flexible	

B: COMPONENT

1. CLUTCH ASSEMBLY



CL-00781

(1) Dust cover	(6) Release bearing (non-turbo model)	(11) Flexible flywheel
(2) Lever spring	(7) Release lever (turbo model)	
(3) Pivot	(8) Release bearing (turbo model)	
(4) Release lever (non-turbo model)	(9) Clutch cover	
(5) Clip (non-turbo model)	(10) Clutch disc	

Tightening torque:N·m (kgf·m, ft·lb)

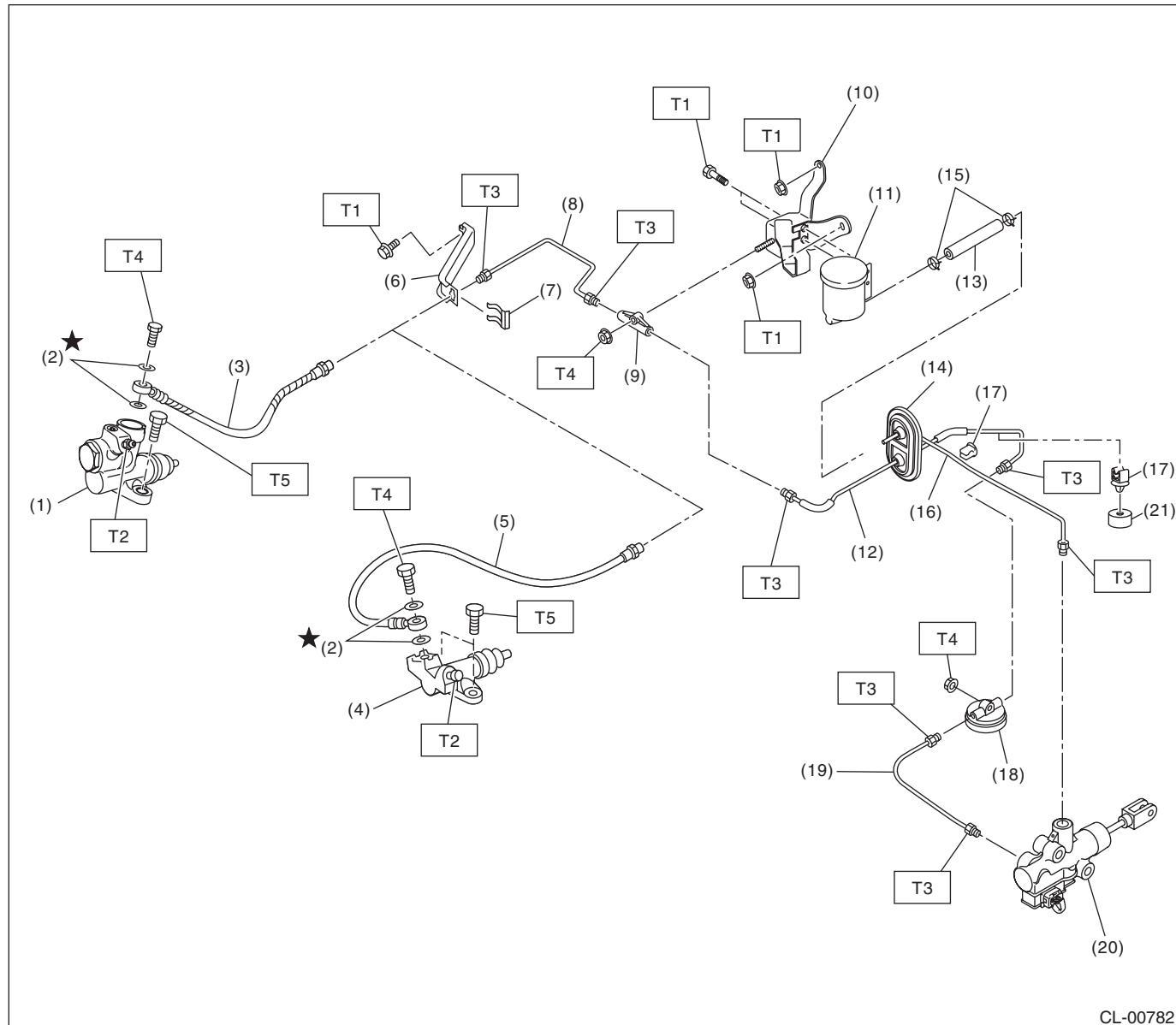
T1: 16 (1.6, 11.8)

T2: 75 (7.6, 55.3)

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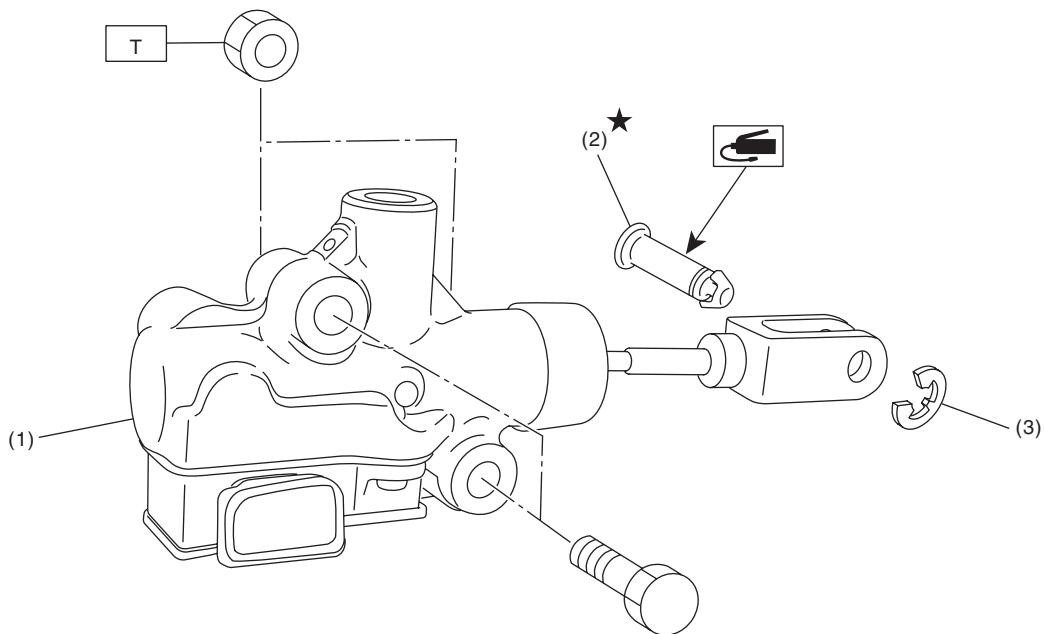
2. CLUTCH PIPE AND HOSE



CL-00782

(1) Operating cylinder (turbo model)	(11) Reservoir tank	(20) Master cylinder ASSY
(2) Washer	(12) Clutch pipe	(21) Mass damper
(3) Clutch hose (turbo model)	(13) Reservoir tank hose	
(4) Operating cylinder (non-turbo model)	(14) Clutch pipe grommet	
(5) Clutch hose (non-turbo model)	(15) Clamp	
(6) Clutch hose bracket	(16) Clutch pipe	Tightening torque:N·m (kgf·m, ft·lb)
(7) Clamp	(17) Clamp	 T1: 7.5 (0.8, 5.5)
(8) Clutch pipe	(18) Clutch damper	T2: 7.8 (0.8, 5.8)
(9) Connector	(19) Clutch pipe	T3: 15 (1.5, 11.1)
(10) Reservoir tank bracket		T4: 18 (1.8, 13.3)
		T5: 37 (3.8, 27.3)

3. MASTER CYLINDER



CL-00750

(1) Master cylinder ASSY
(2) Clevis pin

(3) Clip

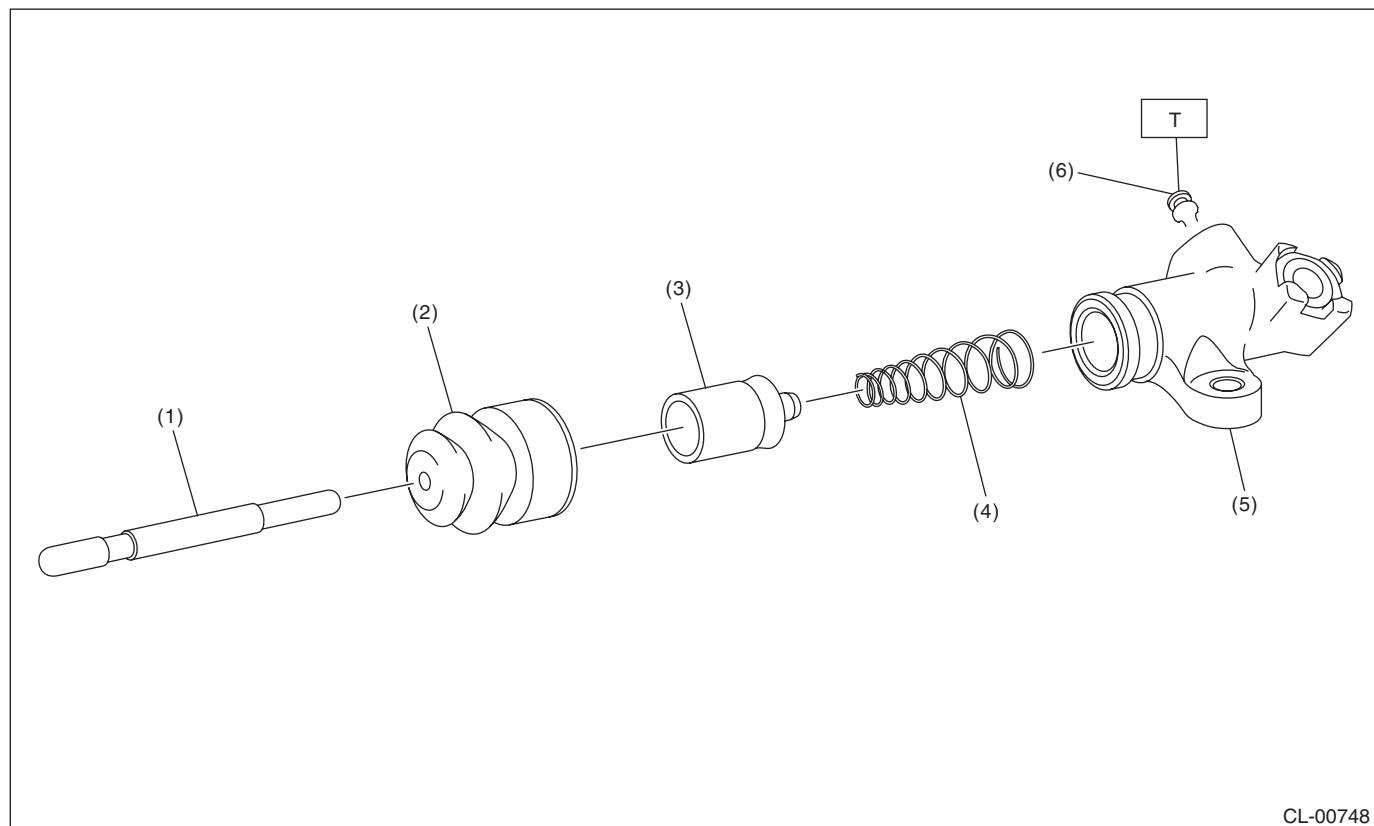
Tightening torque:N·m (kgf·m, ft-lb)
T: 18 (1.8, 13.3)

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4. OPERATING CYLINDER

- Non-turbo model



CL-00748

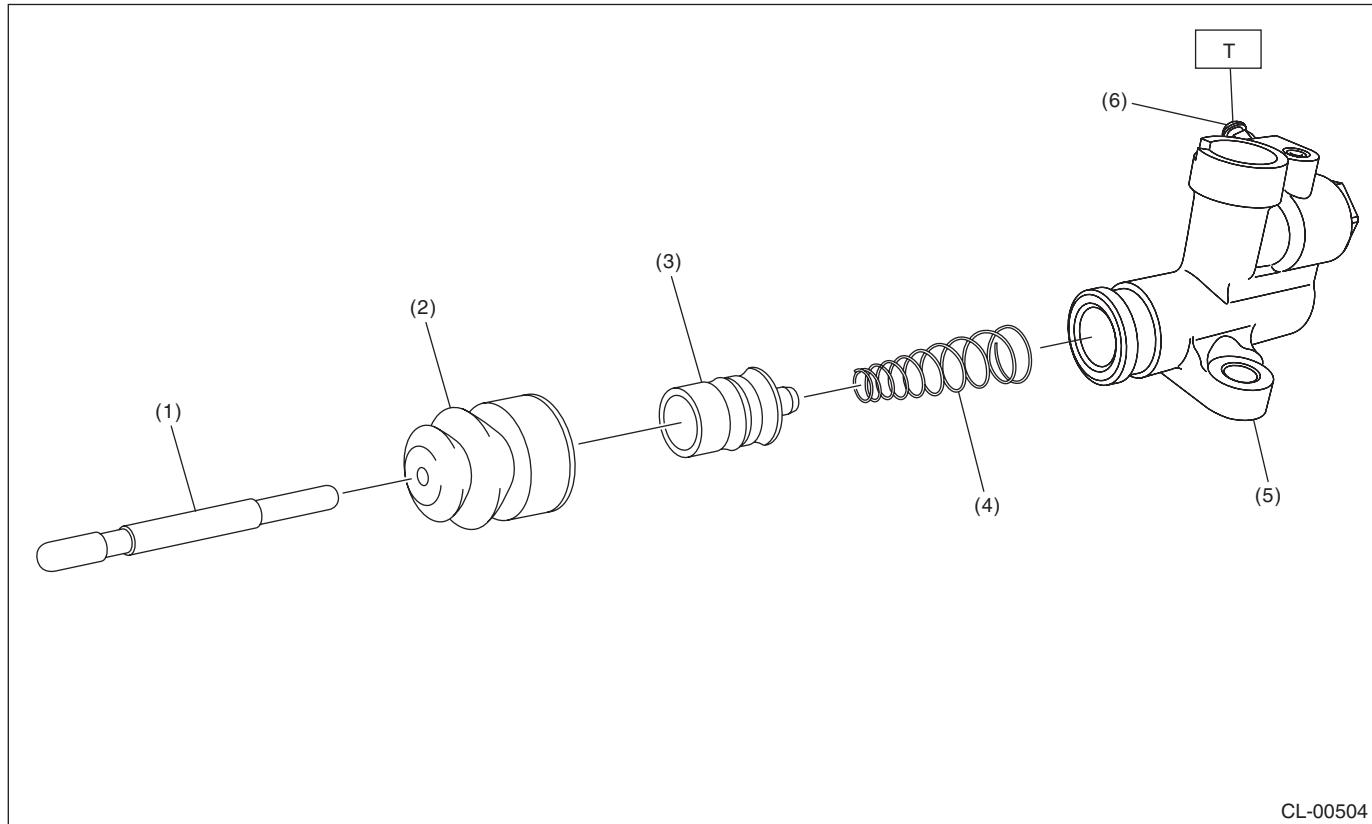
(1)	Push rod	(4)	Piston spring
(2)	Boot	(5)	Operating cylinder
(3)	Piston	(6)	Breather screw

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

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- Turbo model



CL-00504

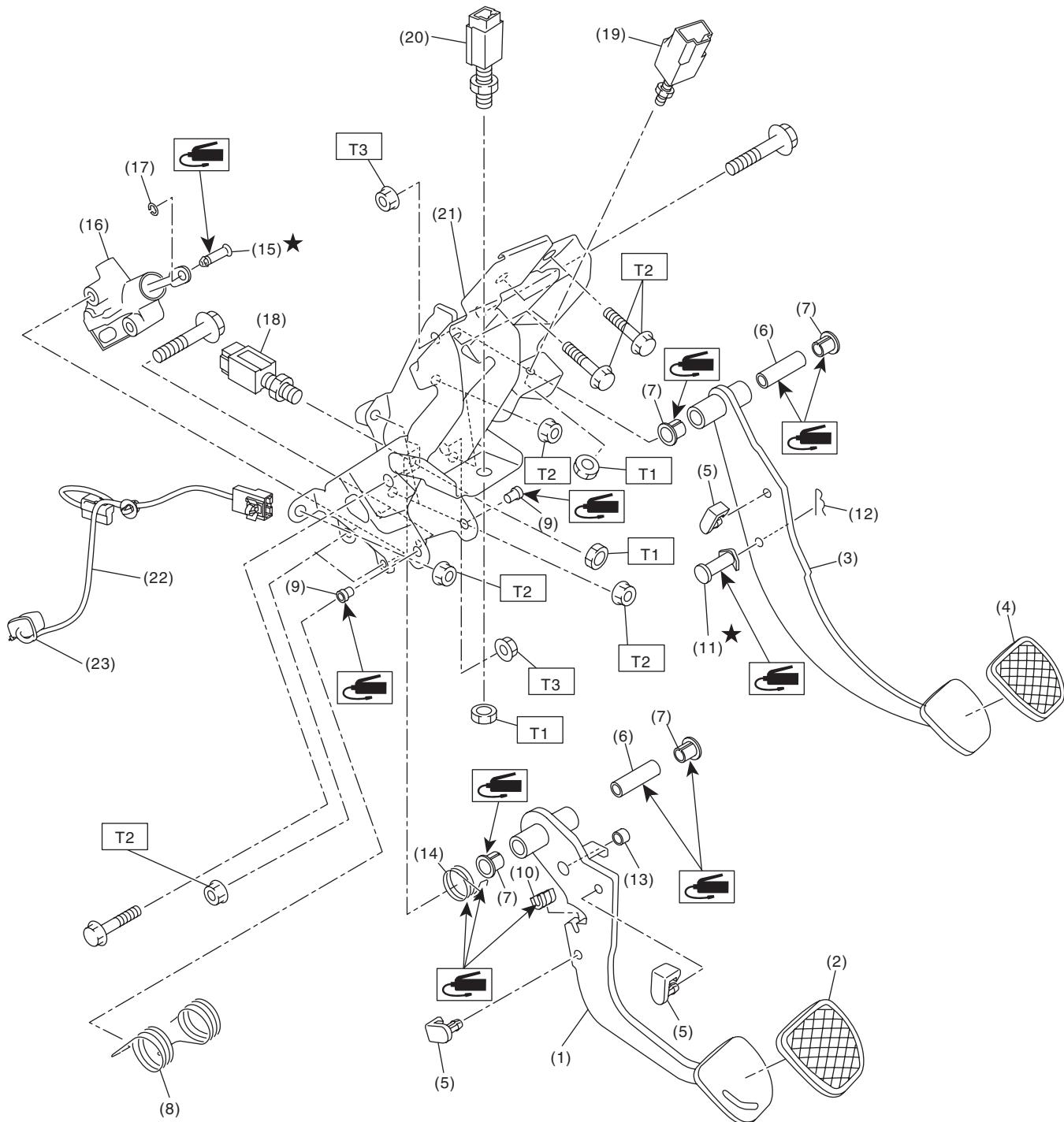
(1) Push rod	(4) Piston spring
(2) Boot	(5) Operating cylinder
(3) Piston	(6) Breather screw

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

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5. CLUTCH PEDAL ASSEMBLY



CL-00760

(1) Clutch pedal	(11) Clevis pin	(21) Pedal bracket
(2) Clutch pedal pad	(12) Snap pin	(22) Sensor harness
(3) Brake pedal	(13) Bushing A	(23) Band
(4) Brake pedal pad	(14) Assist spring (turbo model)	
(5) STOPPER	(15) Clevis pin	
(6) SPACER	(16) Master cylinder ASSY	
(7) Bushing	(17) Clip	
(8) Torsion spring	(18) Clutch start switch	
(9) Assist bushing	(19) Stop & brake switch	
(10) Torsion spring bushing	(20) Clutch switch	

Tightening torque:N·m (kgf·m, ft·lb)

T1: 8 (0.8, 5.9)

T2: 18 (1.8, 13.3)

T3: 30 (3.1, 22.1)

C: CAUTION

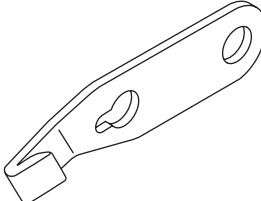
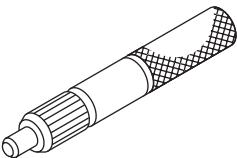
- Wear appropriate work clothing, including a cap, protective goggles and protective shoes when performing any work.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust and dirt.
- Before removal, 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 fluids away from the vehicle body. If any fluid contacts the vehicle body, immediately flush the area with water.

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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.

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.