

GENERAL DESCRIPTION

CLUTCH SYSTEM

1. General Description

A: SPECIFICATIONS

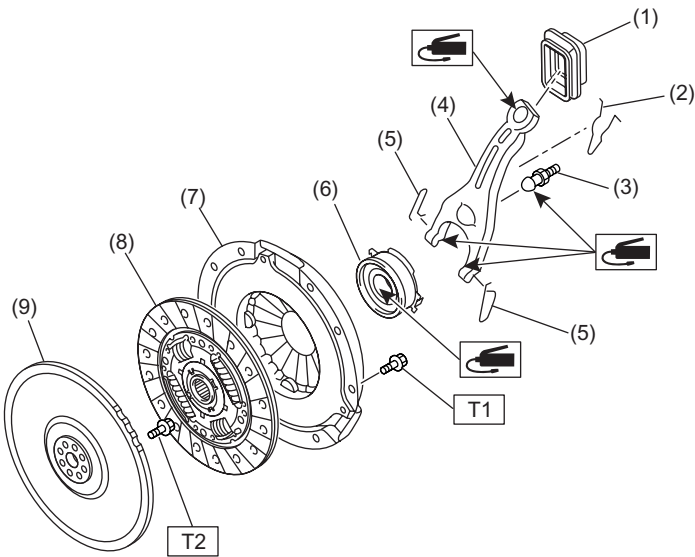
Model			NON-TURBO	TURBO
Clutch cover	Type		Push type	Pull type
	Diaphragm set load kg (lb)		580 (1,279)	830 (1,830)
Clutch disk	Facing material		Woven (Non asbestos)	
	O.D. x I.D. x thickness	mm (in)	225 x 150 x 3.5 (8.86 x 5.91 x 0.138)	230 x 155 x 3.5 (9.06 x 6.10 x 0.138)
	Spline O.D. mm (in)		25.2 (0.992), (No. of teeth: 24)	
Clutch release lever ratio			1.6	1.7
Release bearing			Grease-packed self-aligning	
Clutch pedal	Full stroke mm (in)		130 — 135 (5.12 — 5.31)	
	Free play mm (in)		10 — 20 (0.39 — 0.79)	3 — 13 (0.12 — 0.51)
Clutch disk	Stroke mm (in)		12 — 13.6 (0.473 — 0.535)	13.3 — 14.7 (0.524 — 0.579)
Clutch disk	Depth of rivet head mm (in)	Standard	1.3 — 1.9 (0.051 — 0.075)	
		Limit of sinking	0.3 (0.012)	
	Limit for deflection mm (in)		1.0 (0.039) at R = 107 (4.21)	0.8 (0.031) at R = 110 (4.33)

I.D.: Inner diameter

O.D.: Outer diameter

B: COMPONENT

1. CLUTCH ASSEMBLY FOR NON-TURBO MODEL



CL-00186

- | | |
|----------------------------------|---------------------|
| (1) Clutch release lever sealing | (6) Release bearing |
| (2) Retainer spring | (7) Clutch cover |
| (3) Pivot | (8) Clutch disc |
| (4) Release lever | (9) Flywheel |
| (5) Clip | |

Tightening torque: N·m (kgf-m, ft-lb)

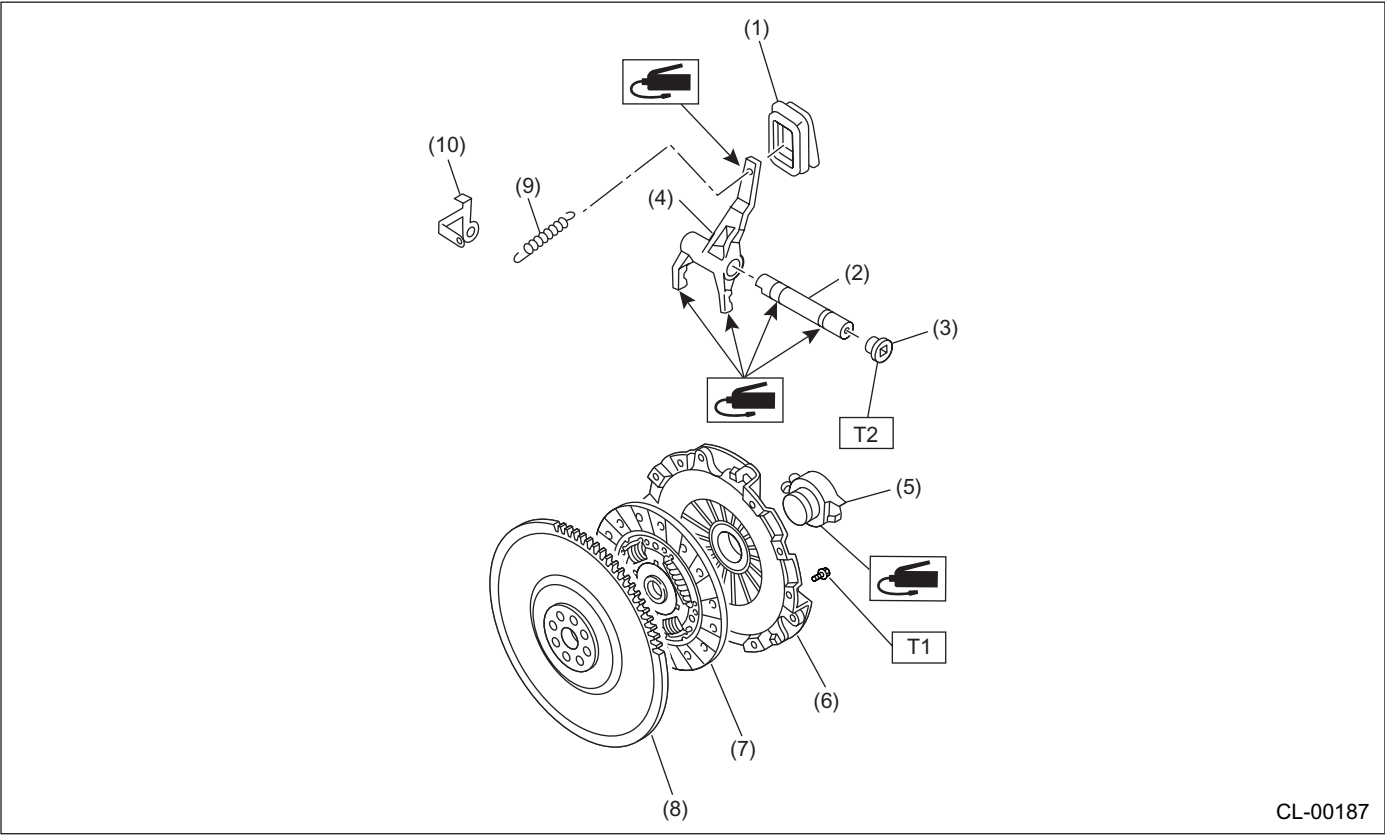
T1: 16 (1.6, 11.6)

T2: 72 (7.3, 52.8)

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2. CLUTCH ASSEMBLY FOR TURBO MODEL



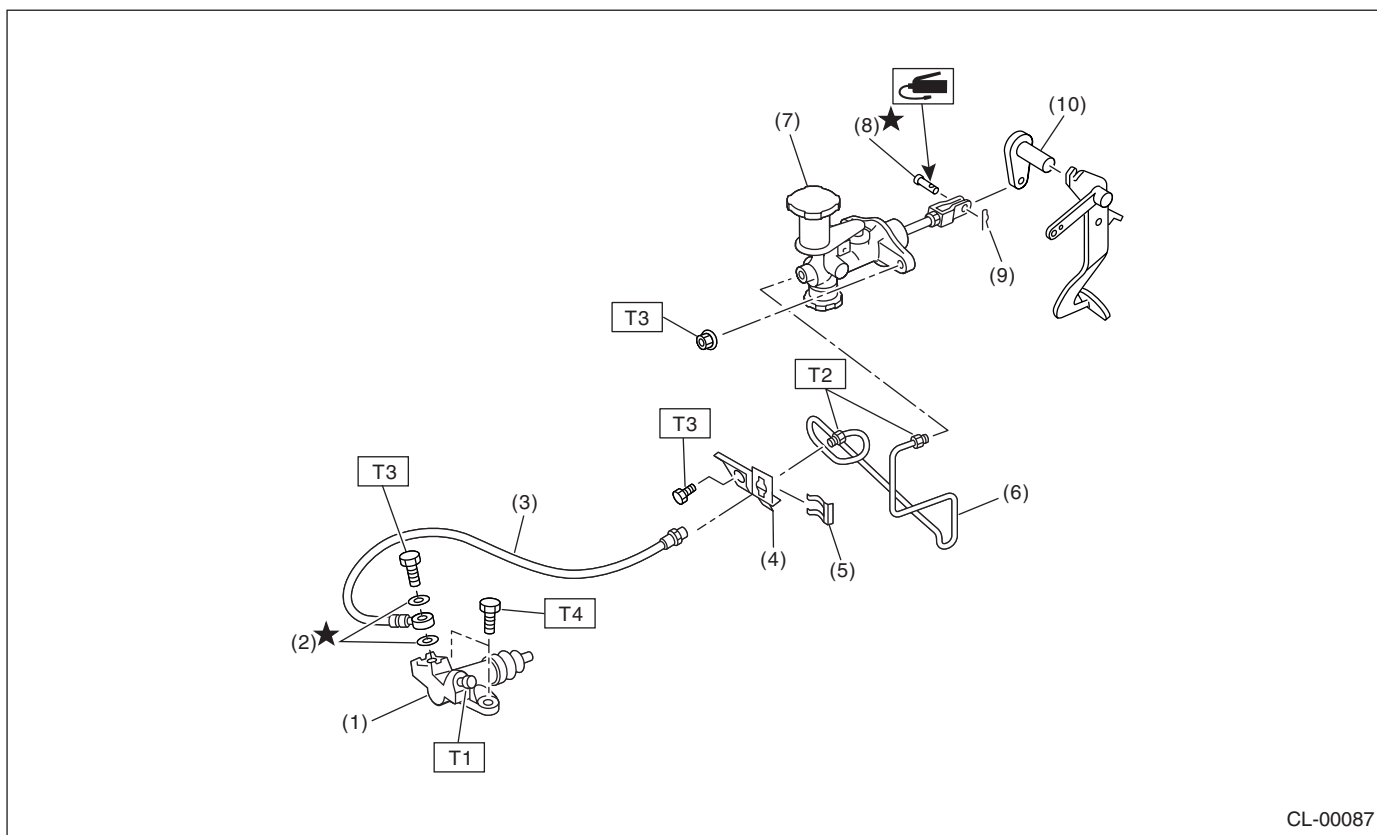
- | | |
|----------------------------------|------------------|
| (1) Clutch release lever sealing | (6) Clutch cover |
| (2) Release lever shaft | (7) Clutch disc |
| (3) Plug | (8) Flywheel |
| (4) Release lever | (9) Spring |
| (5) Release bearing | (10) Bracket |

Tightening torque: N·m (kgf-m, ft-lb)

T1: 15.7 (1.6, 11.6)

T2: 44 (4.5, 32.5)

3. CLUTCH PIPE AND HOSE FOR NON-TURBO MODEL



CL-00087

- | | |
|------------------------|--------------------------|
| (1) Operating cylinder | (6) 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: 8 (0.8, 5.8)

T2: 15 (1.5, 11)

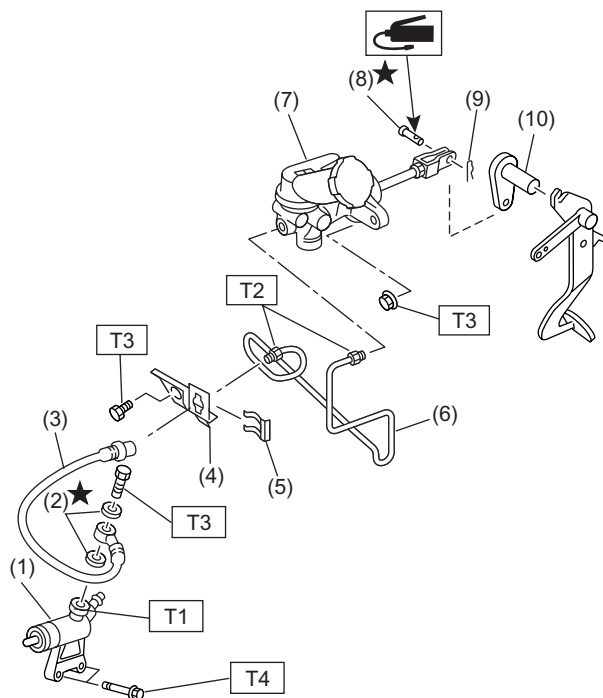
T3: 18 (1.8, 13.0)

T4: 37 (3.8, 27.5)

GENERAL DESCRIPTION

CLUTCH SYSTEM

4. CLUTCH PIPE AND HOSE FOR TURBO MODEL



CL-00188

- | | |
|------------------------|--------------------------|
| (1) Operating cylinder | (6) 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: 8 (0.8, 5.8)

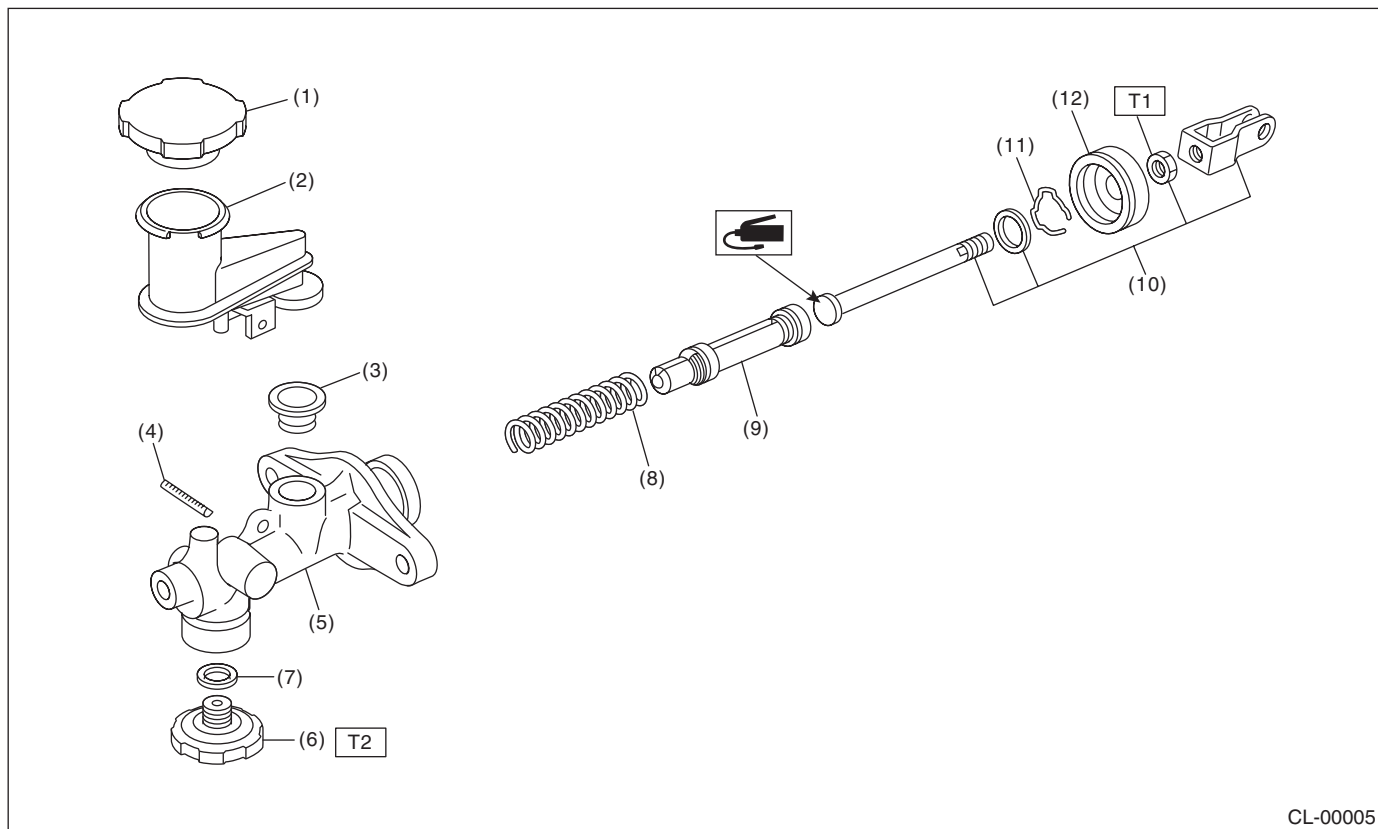
T2: 15 (1.5, 11)

T3: 18 (1.8, 13.0)

T4: 37 (3.8, 27.5)

5. MASTER CYLINDER

• NON-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)

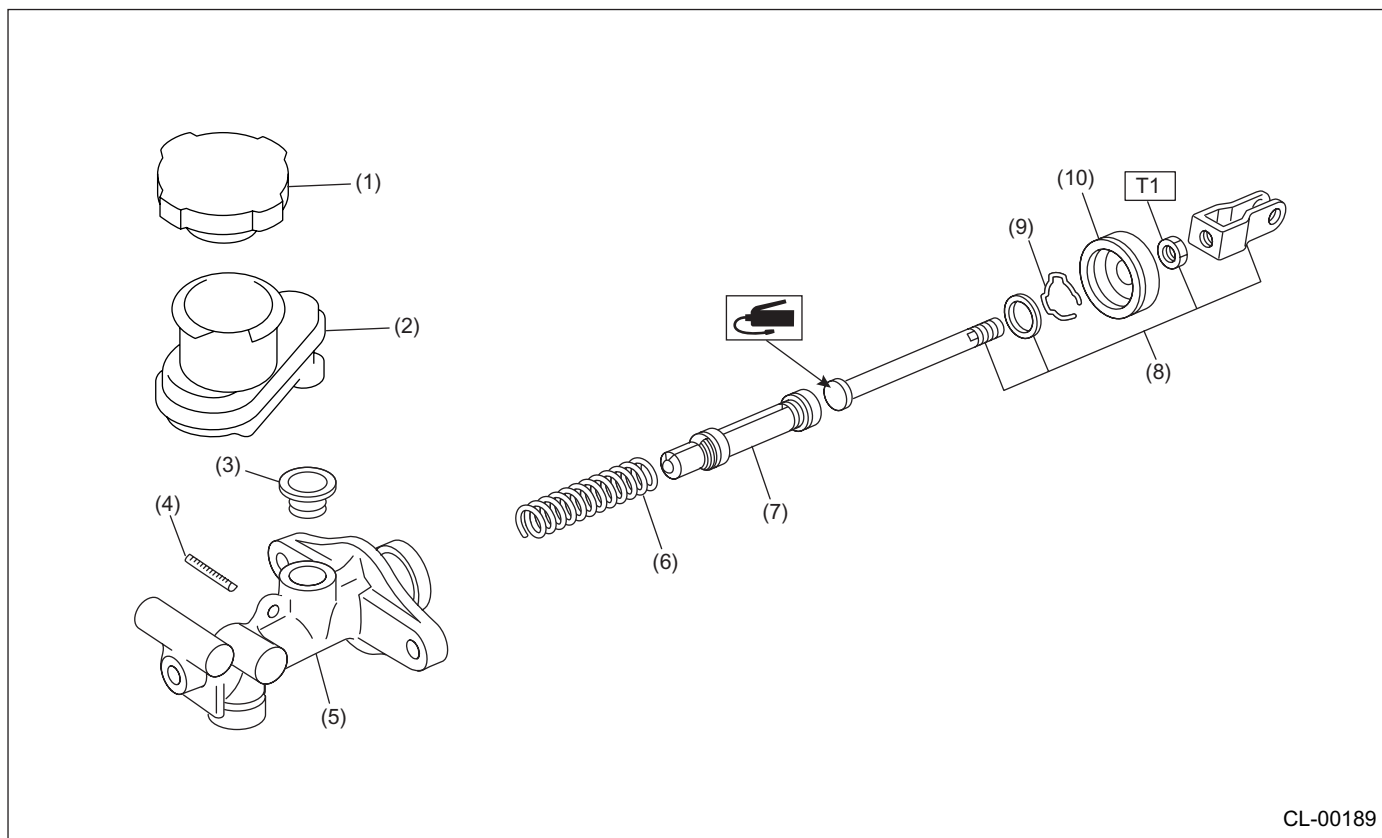
T1: 10 (1.0, 7)

T2: 46.6 (4.75, 34.4)

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• TURBO MODEL

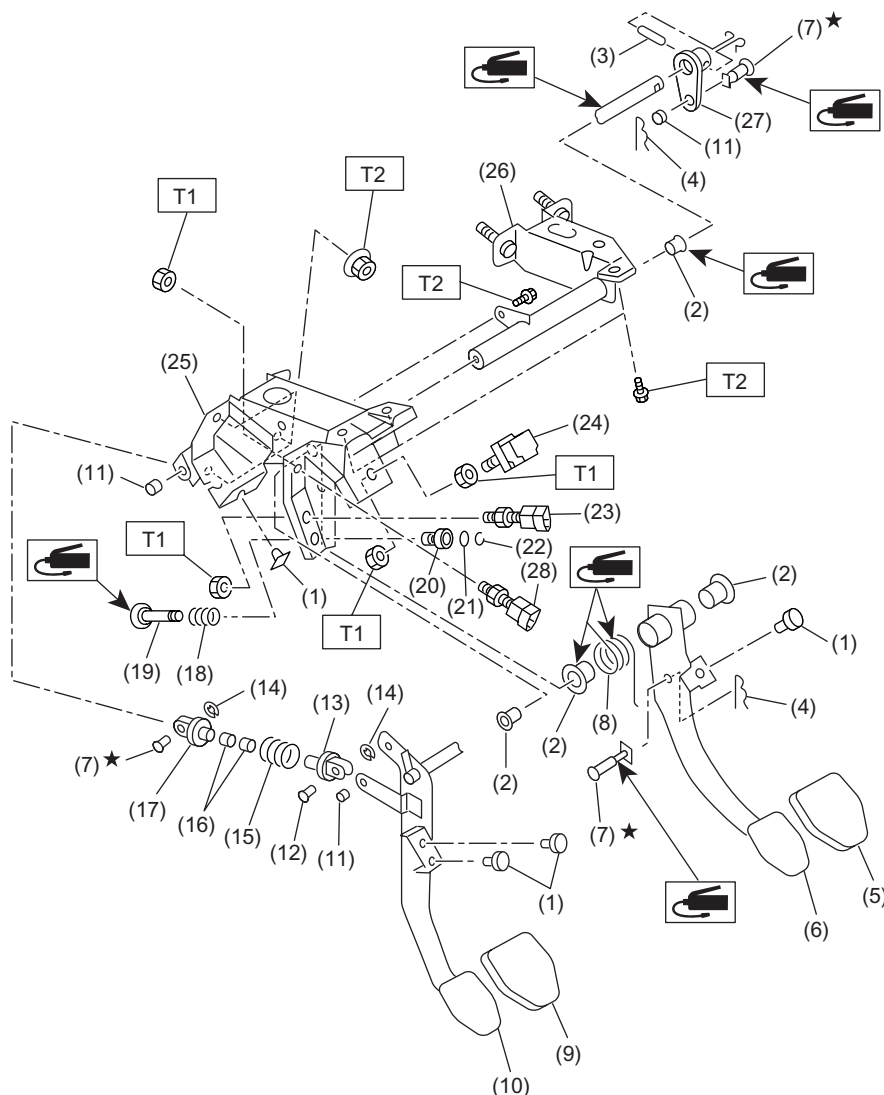


- (1) Reservoir cap
- (2) Reservoir tank
- (3) Oil seal
- (4) Straight pin
- (5) Master cylinder

- (6) Return spring
- (7) Piston
- (8) Push rod
- (9) Piston stop ring
- (10) Cylinder boot

Tightening torque: N·m (kgf-m, ft-lb)
T1: 10 (1.0, 7)

6. CLUTCH PEDAL



CL-00190

(1) Stopper	(12) Clutch clevis pin	(23) Clutch switch (With cruise control)
(2) Bushing	(13) Assist rod A	(24) Stop light switch
(3) Spring pin	(14) Clip	(25) Pedal bracket
(4) Snap pin	(15) Assist spring	(26) Clutch master cylinder bracket
(5) Brake pedal pad	(16) Assist bushing	(27) Lever
(6) Brake pedal	(17) Assist rod B	(28) Clutch switch (Starter interlock)
(7) Clevis pin	(18) Spring S	
(8) Brake pedal spring	(19) Rod S	
(9) Clutch pedal pad	(20) Bushing S	
(10) Clutch pedal	(21) O-ring	
(11) Bushing C	(22) Clip	

Tightening torque: N·m (kgf-m, ft-lb)

T1: 8 (0.8, 5.8)

T2: 18 (1.8, 13.0)

T3: 30 (3.1, 22.4)

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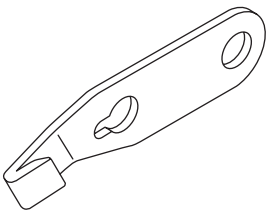
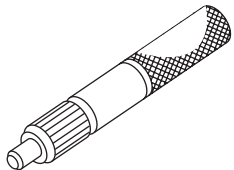
C: CAUTION

- Wear working clothing, including a cap, protective goggles, and protective shoes during operation.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust or dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly, and replacement.
- Be careful not to burn your hands, because each part on the vehicle is hot after running.
- Use SUBARU genuine fluid, grease etc. or the equivalent. Do not mix fluid, grease etc. with that of another grade or from other manufacturers.

- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or safety stands at the specified points.
- Apply grease onto sliding or revolution 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 vice, place cushioning material such as wood blocks, aluminum plate, or shop cloth between the part and the vice.
- 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 TOOLS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-498497100	498497100	CRANKSHAFT STOPPER	Used for stopping rotation of flywheel when loosening/tightening bolt, etc.
 ST-499747100	499747100	CLUTCH DISC GUIDE	Used when installing clutch disc to flywheel.

2. GENERAL PURPOSE TOOLS

TOOL NAME	REMARKS
Circuit Tester	Used for measuring resistance, voltage and ampere.
Dial Gauge	Used for measuring clutch disk run-out.