

General Description

CLUTCH SYSTEM

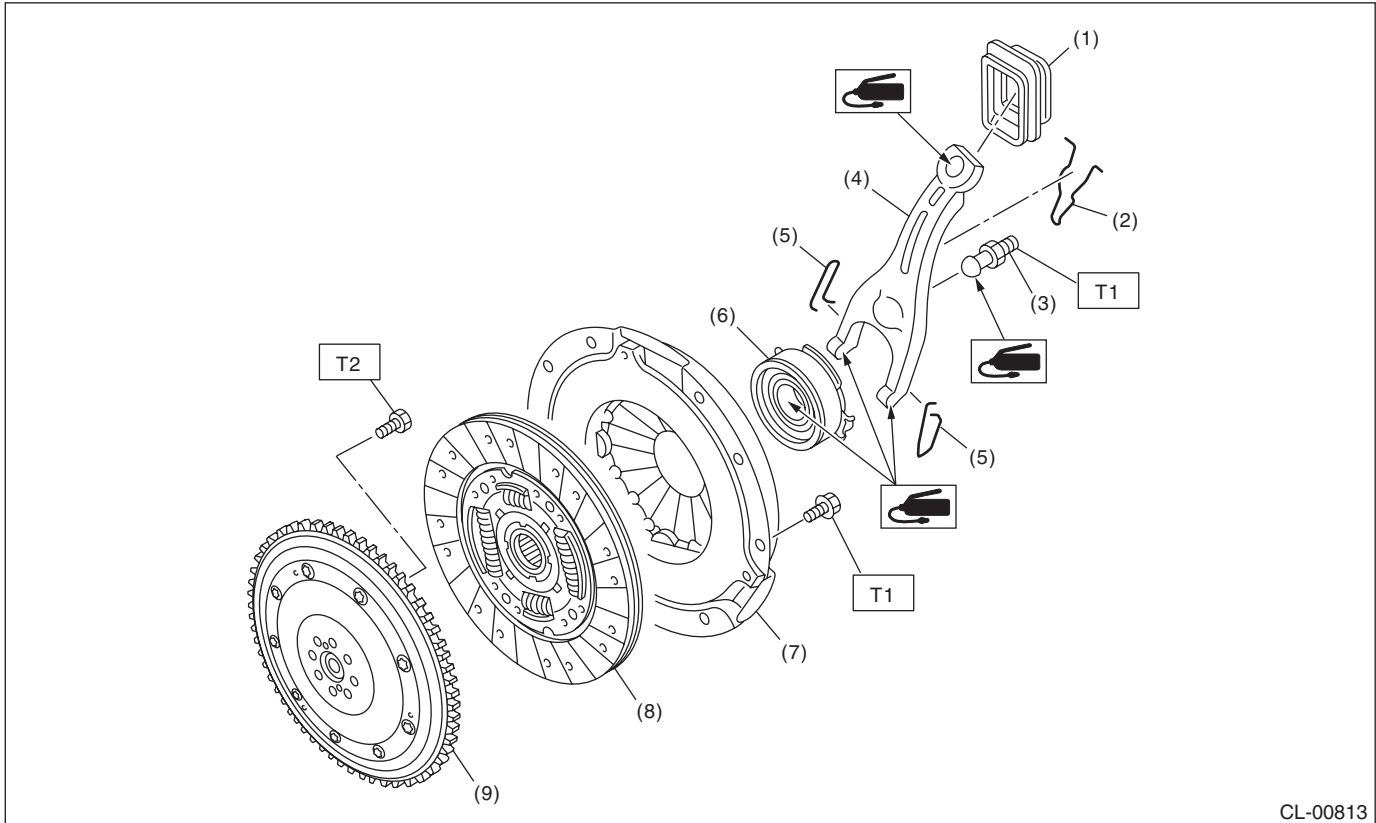
1. General Description

A: SPECIFICATION

Model			2.5 L
Transmission type			6MT
Clutch cover	Type		Push type
	Diaphragm set load N (kgf, lbf)		5,688 (580, 1,279)
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)
		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	0.8 (0.031)
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 — 11 (0.16 — 0.43)	
Flywheel	Type		Flexible

B: COMPONENT

1. CLUTCH ASSEMBLY



CL-00813

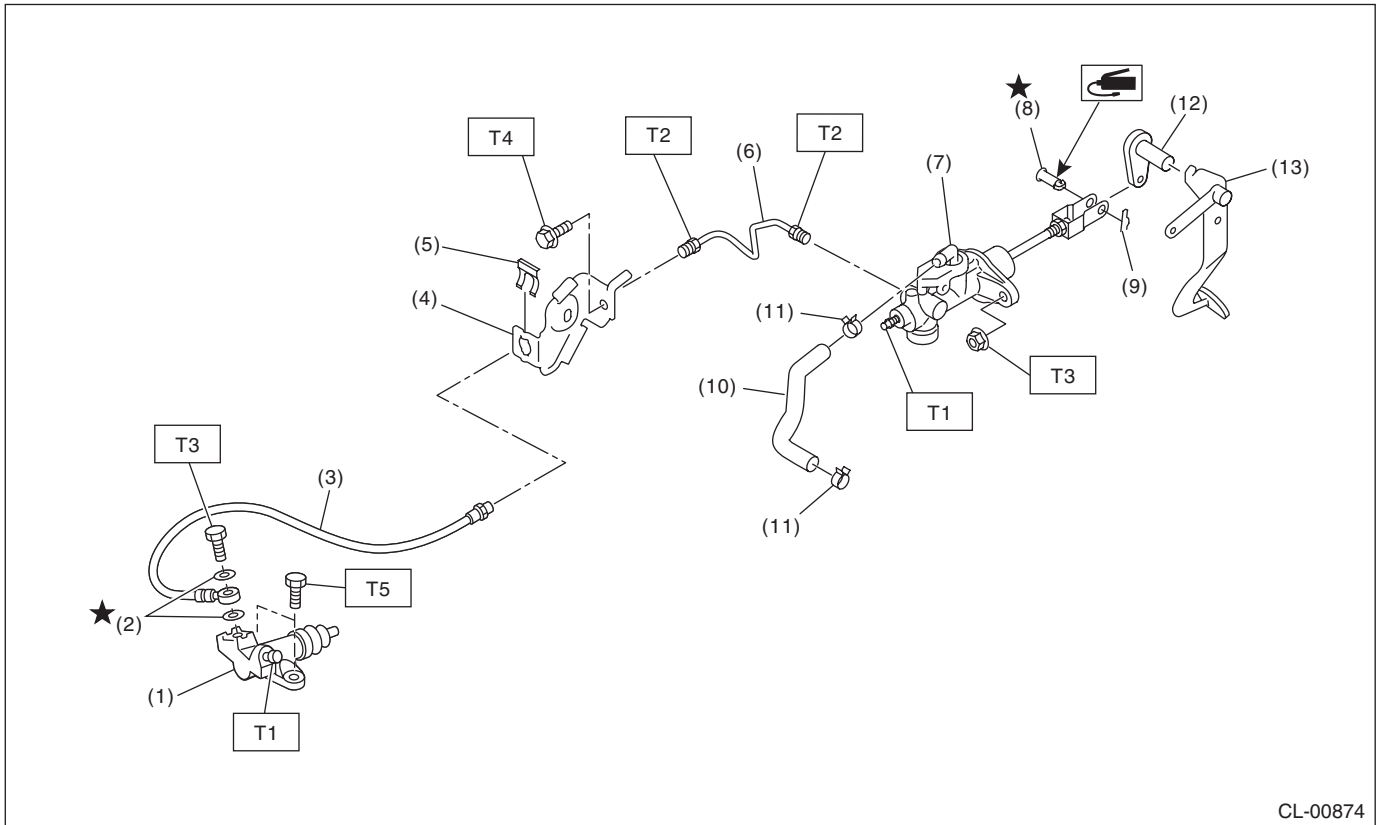
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|-------------------|-----------------------|
| (1) Dust cover | (6) Release bearing |
| (2) Lever spring | (7) Clutch cover |
| (3) Pivot | (8) Clutch disc |
| (4) Release lever | (9) Flexible flywheel |
| (5) Clip | |

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
- (2) Gasket
- (3) Clutch hose
- (4) Bracket
- (5) Clamp
- (6) Clutch pipe
- (7) Master cylinder ASSY

- (8) Clevis pin
- (9) Snap pin
- (10) Tank hose
- (11) Clamp
- (12) Lever
- (13) Pedal

Tightening torque: N·m (kgf·m, ft·lb)

T1: 7.8 (0.8, 5.8)

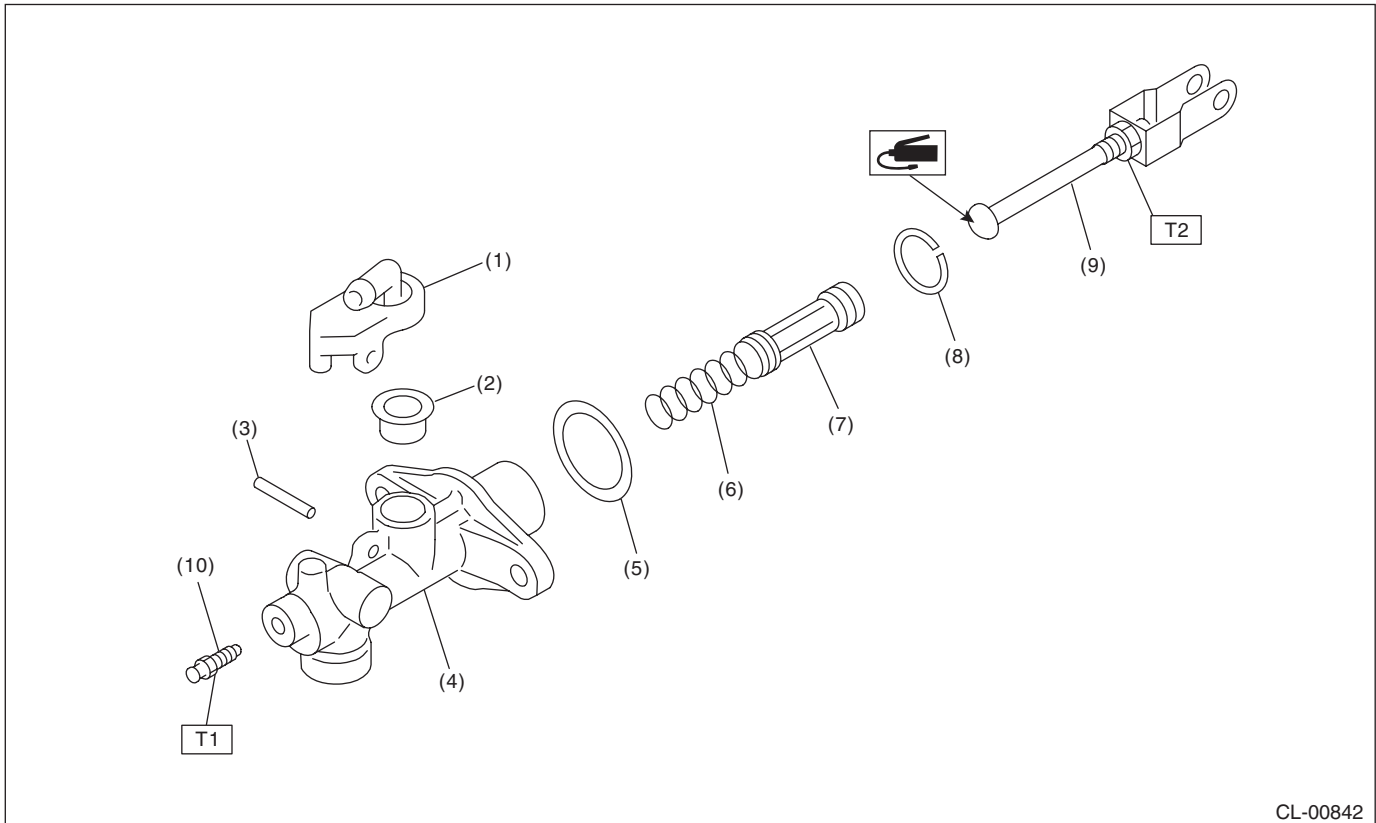
T2: 15 (1.5, 11.1)

T3: 18 (1.8, 13.3)

T4: 25 (2.5, 18.4)

T5: 37 (3.8, 27.3)

3. MASTER CYLINDER



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

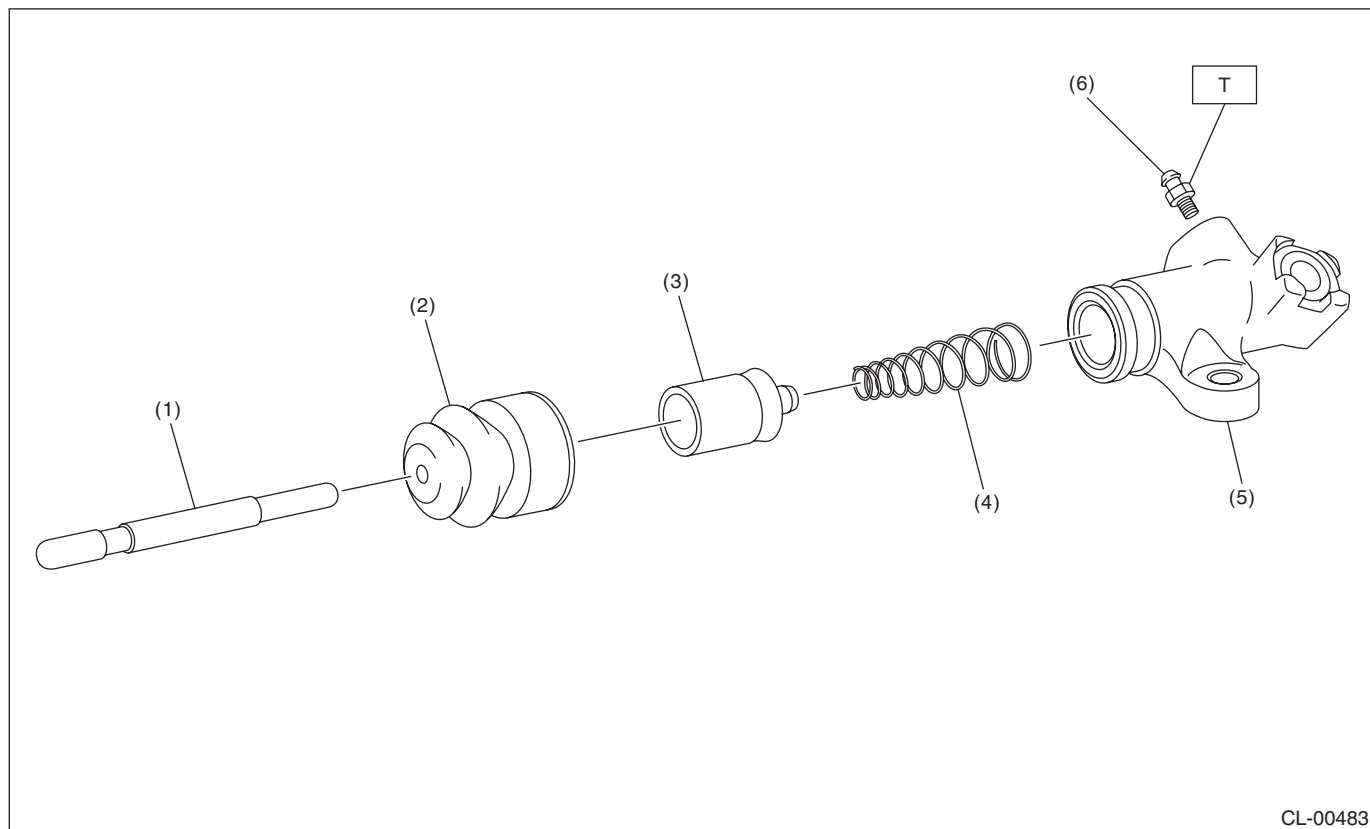
T1: 7.8 (0.8, 5.8)

T2: 10 (1.0, 7.4)

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4. OPERATING CYLINDER



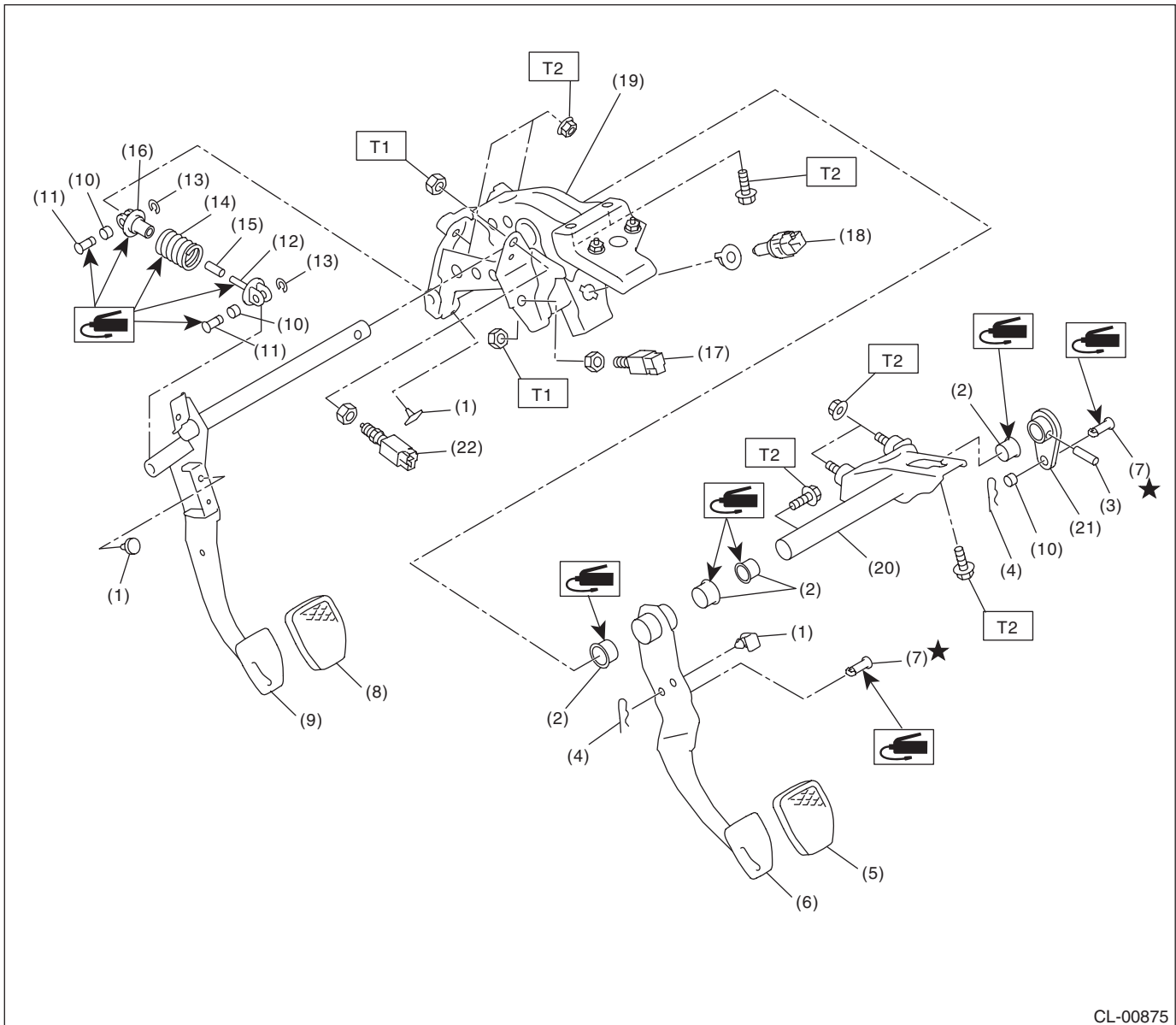
CL-00483

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

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 (model with push button start) |
| (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)

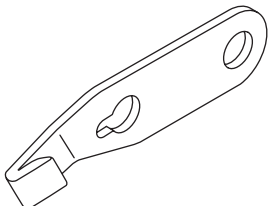
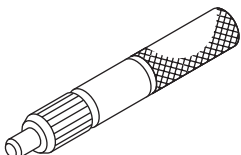
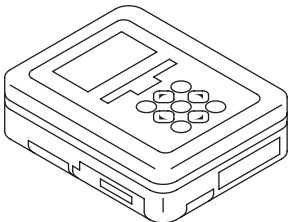
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C: CAUTION

- 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	<ul style="list-style-type: none"> Used for stopping rotation of the flywheel. Used for flexible flywheel model.
 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.

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 tightening the flywheel.