

General Description

CLUTCH SYSTEM

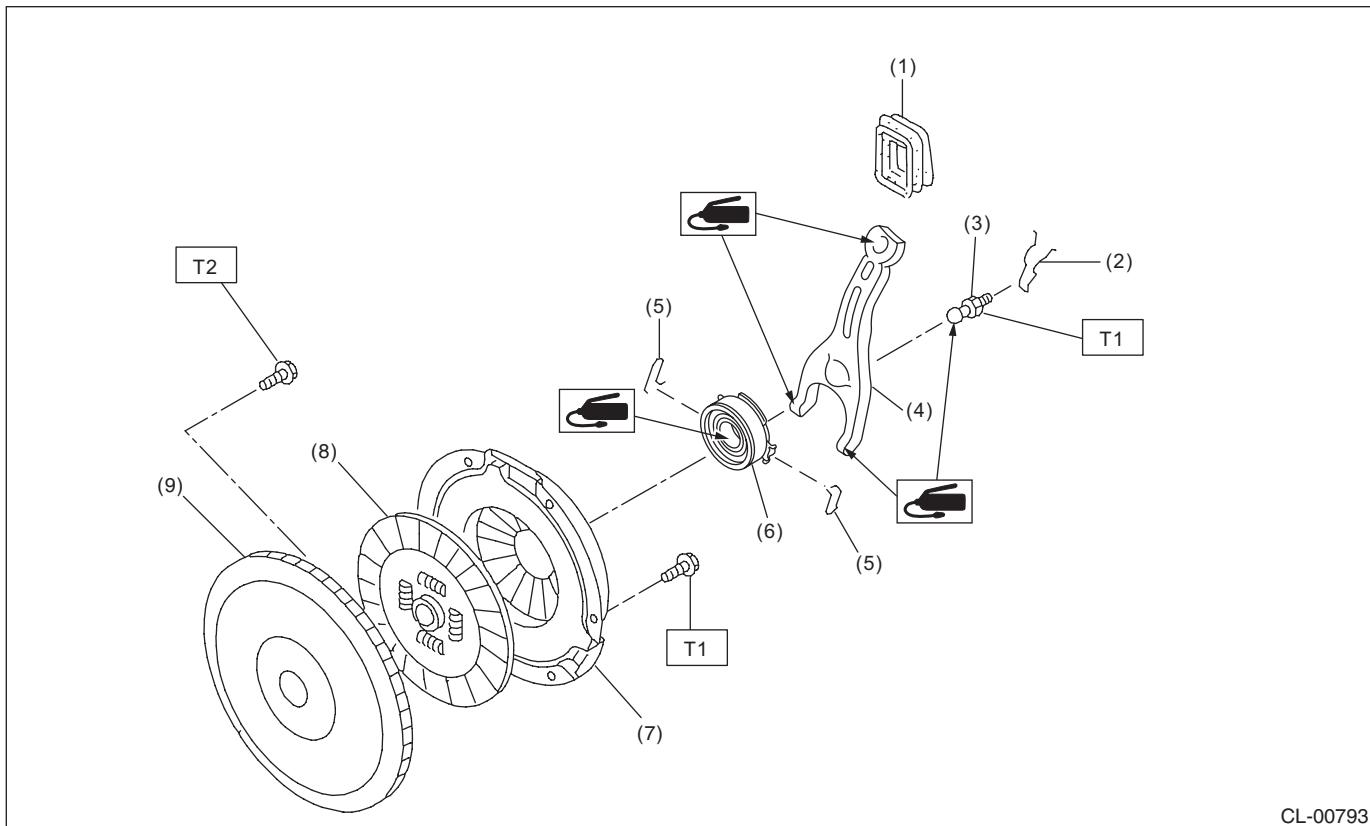
1. General Description

A: SPECIFICATION

Model	2.5 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)
	Depth of rivet head mm (in)	Clutch cover side 1.65 — 2.25 (0.065 — 0.089)
		Flywheel side 1.35 — 1.95 (0.053 — 0.077)
	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)
	Free play mm (in)	4 — 10 (0.16 — 0.39)
Flywheel	Type	Flexible

B: COMPONENT

1. CLUTCH ASSEMBLY



CL-00793

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

Tightening torque:N·m (kgf·m, ft·lb)

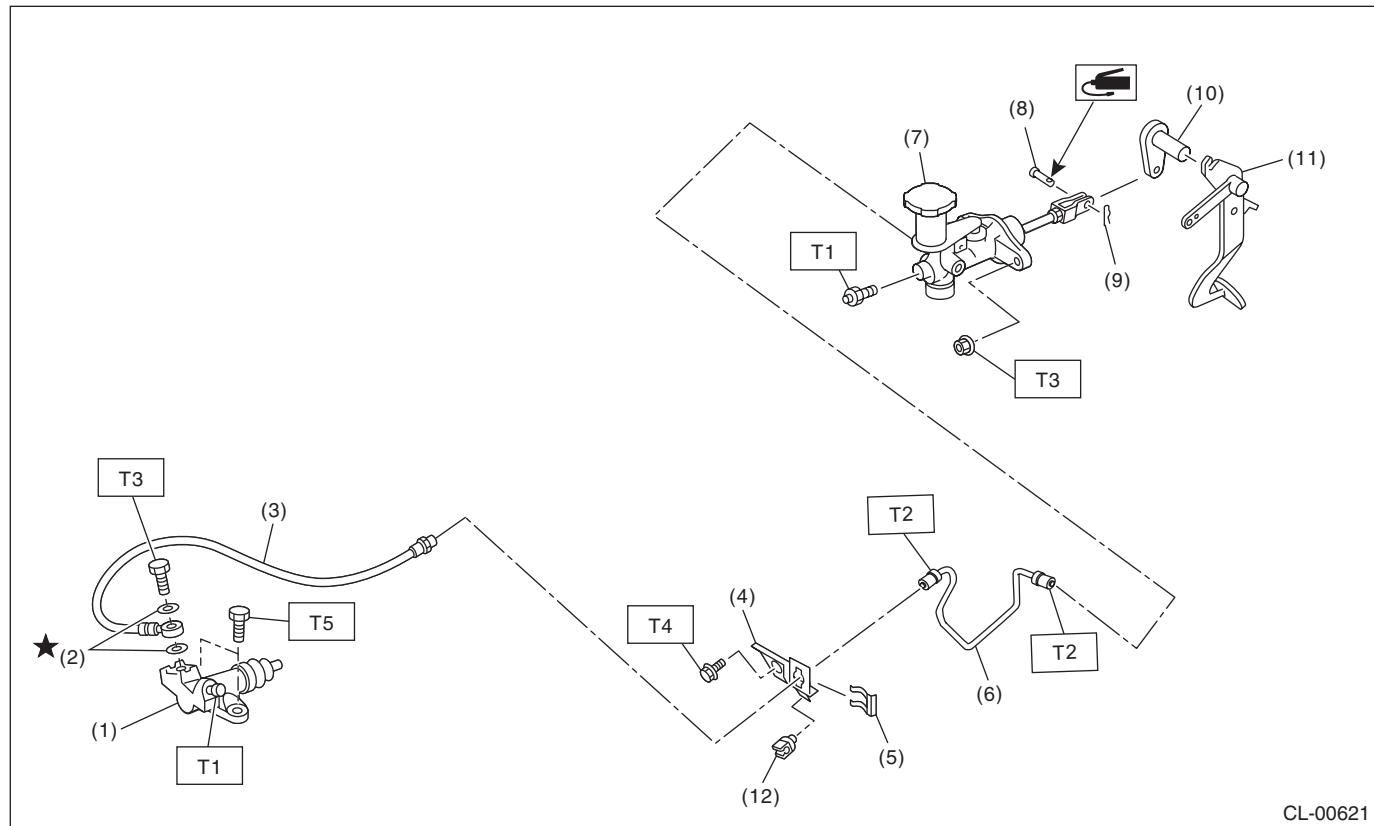
T1: 16 (1.6, 11.8)

T2: 75 (7.6, 55.3)

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2. CLUTCH PIPE AND HOSE



(1) Operating cylinder	(7) Master cylinder ASSY
(2) Washer	(8) Clevis pin
(3) Clutch hose	(9) Snap pin
(4) Bracket	(10) Lever
(5) Clip	(11) Pedal
(6) Clutch pipe	(12) Clip

Tightening torque:N·m (kgf·m, ft-lb)

T1: 7.8 (0.8, 5.8)

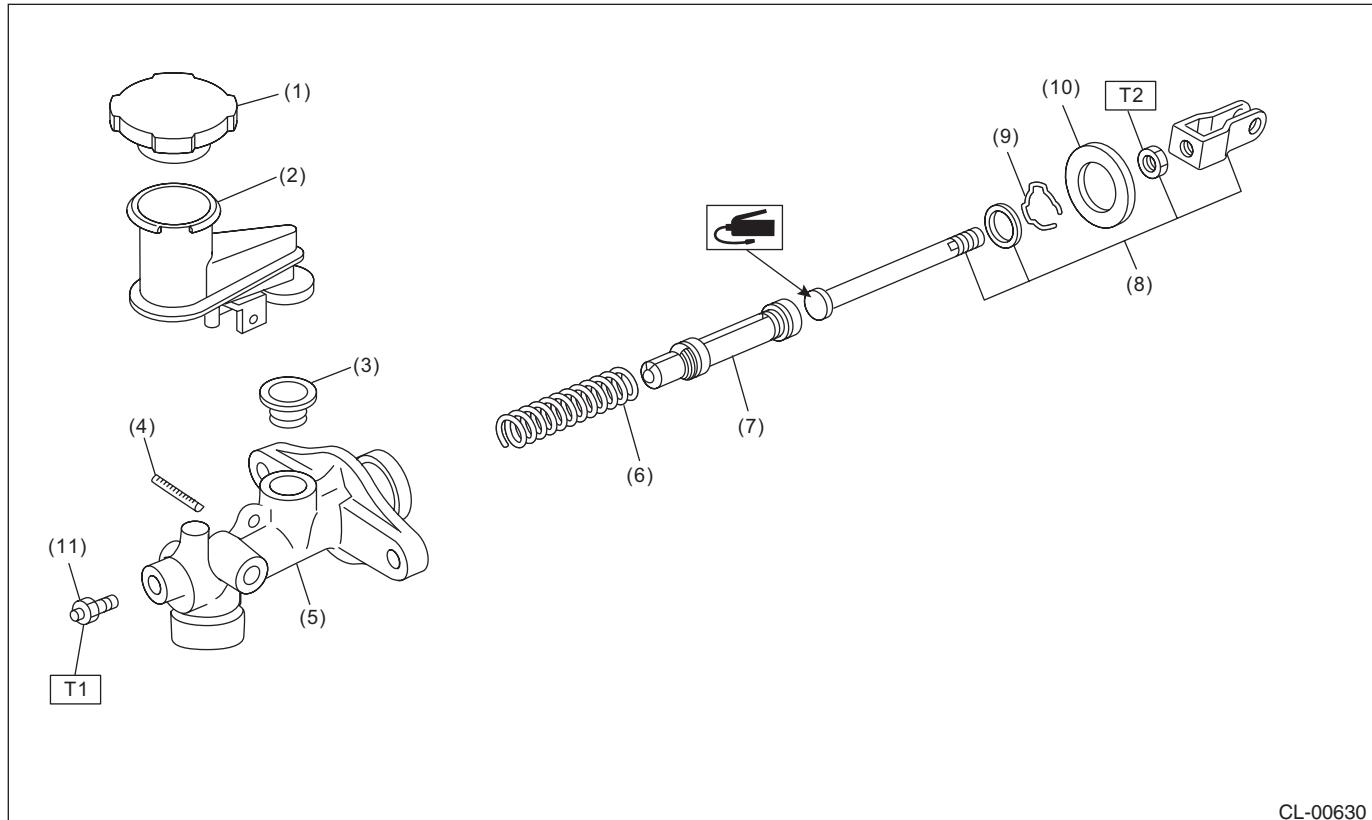
T2: 15 (1.5, 11.1)

T3: 18 (1.8, 13.3)

T4: 25 (2.5, 18.4)

T5: 37 (3.8, 27.3)

3. MASTER CYLINDER



CL-00630

(1) Reservoir cap	(6) Return spring	(11) Bleeder screw
(2) Reservoir tank	(7) Piston	
(3) Oil seal	(8) Push rod ASSY	
(4) Straight pin	(9) Piston stop ring	
(5) Master cylinder	(10) Seat	

Tightening torque: N·m (kgf·m, ft-lb)

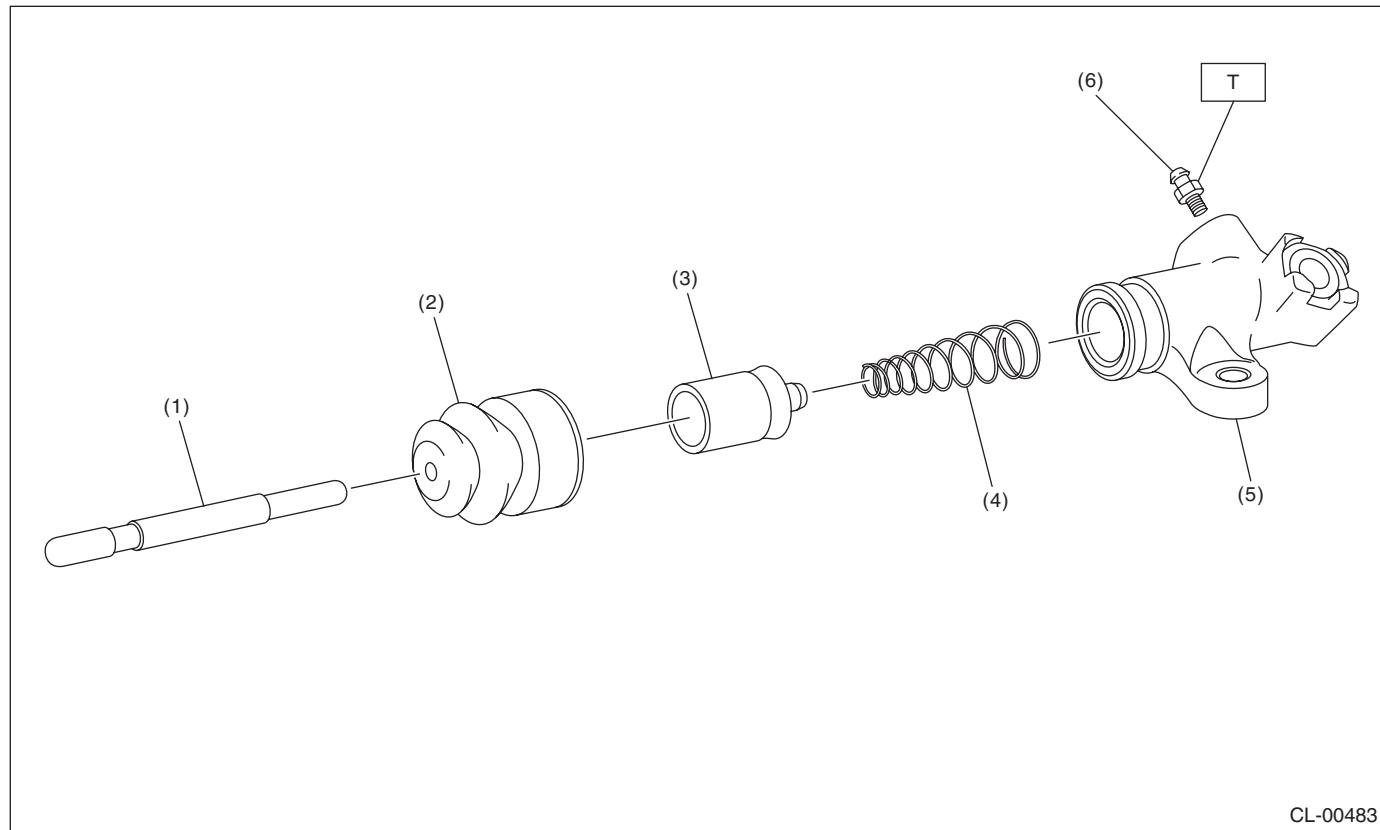
T1: 7.8 (0.8, 5.8)

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) Bleeder screw

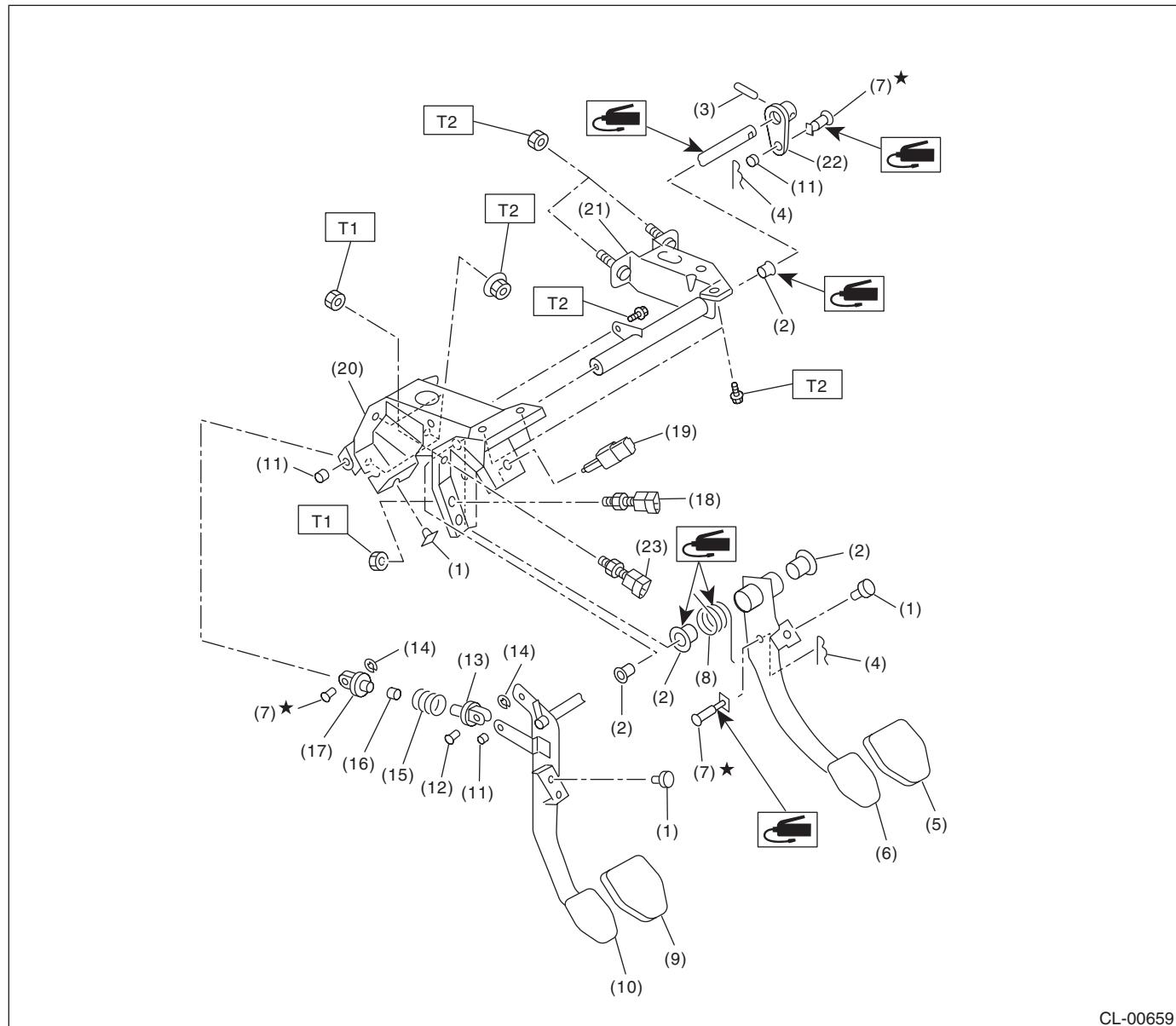
Tightening torque:N·m (kgf·m, ft-lb)

T: 7.8 (0.8, 5.8)

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5. CLUTCH PEDAL



CL-00659

(1) Stopper	(10) Clutch pedal	(19) Stop light switch
(2) Bushing	(11) Bushing C	(20) Pedal bracket
(3) Spring pin	(12) Clutch clevis pin	(21) Clutch master cylinder bracket
(4) Snap pin	(13) Assist rod A	(22) Lever
(5) Brake pedal pad	(14) Clip	(23) Clutch start switch
(6) Brake pedal	(15) Assist spring	
(7) Clevis pin	(16) Assist bushing	
(8) Brake pedal spring	(17) Assist rod B	
(9) Clutch pedal pad	(18) Clutch 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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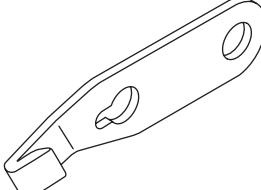
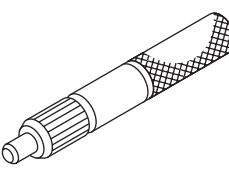
CLUTCH SYSTEM

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.

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.