

General Description

CLUTCH SYSTEM

1. General Description

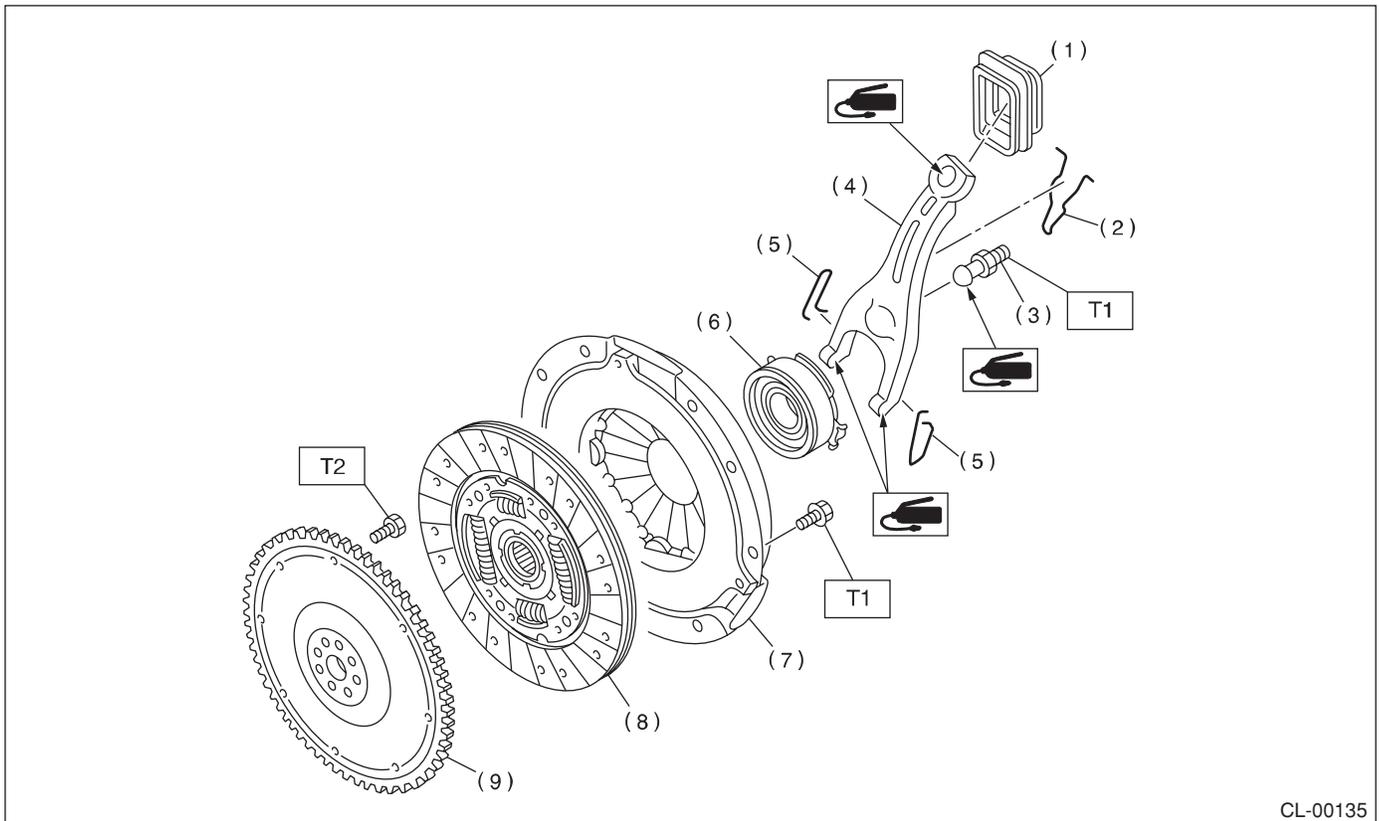
A: SPECIFICATION

Model		2.5 L NON-TURBO	2.5 L TURBO		
Clutch cover	Diaphragm set load	N (kgf, lbf)	5688 (580, 1,279)	8150 (831, 1,832)	
Clutch disc	Facing material	Woven			
	Outer diameter × Inner diameter × Thickness	mm (in)	225 × 150 × 3.5 (8.86 × 5.91 × 0.14)	240 × 155 × 3.2 (9.45 × 6.10 × 0.13)	
	Spline outer diameter	mm (in)	25.2 (0.992)		
	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)	0.7 (0.027) at R = 110 (4.33)	1.0 (0.039) 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 — 13 (0.16 — 0.51)		
Flywheel	Type	Conventional	Dual mass		

B: COMPONENT

1. CLUTCH ASSEMBLY

- Non-turbo model



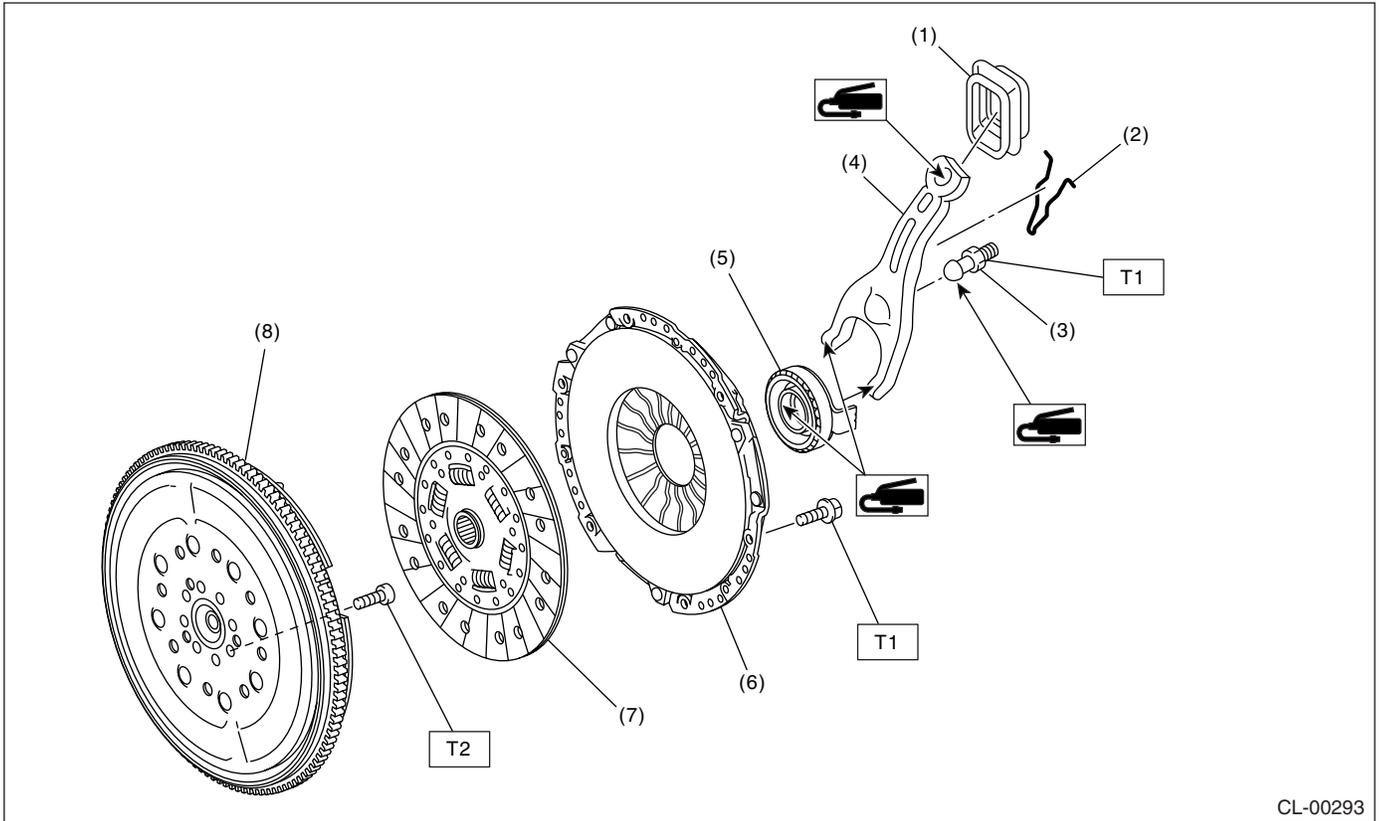
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|-------------------|---------------------------|
| (1) Dust cover | (6) Release bearing |
| (2) Lever spring | (7) Clutch cover |
| (3) Pivot | (8) Clutch disc |
| (4) Release lever | (9) Conventional flywheel |
| (5) Clip | |

Tightening torque: N·m (kgf·m, ft·lb)

T1: 16 (1.6, 11.8)

T2: 72 (7.3, 52.8)

• Turbo model



CL-00293

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

Tightening torque: N·m (kgf·m, ft·lb)

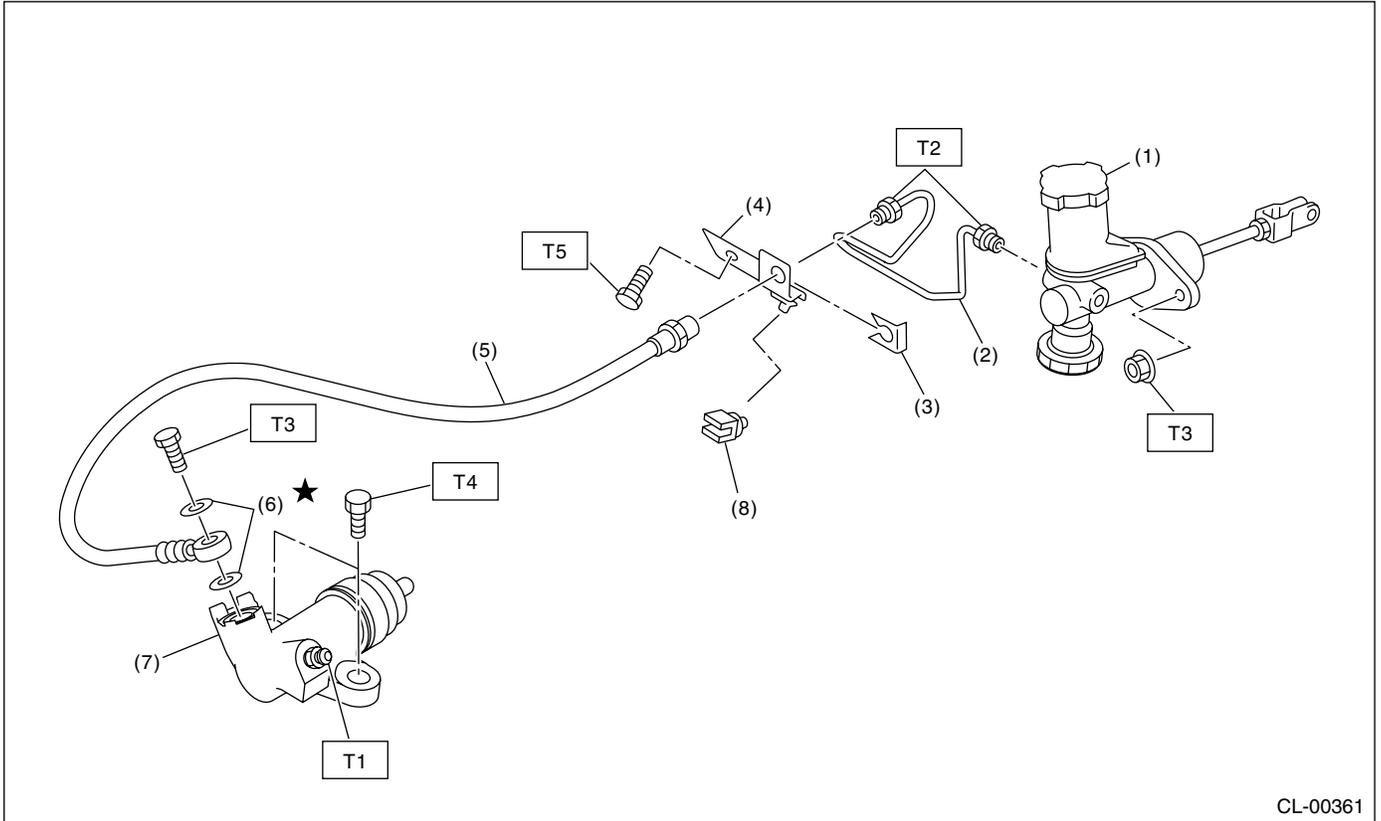
T1: 16 (1.6, 11.8)

T2: 72 (7.3, 52.8)

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2. CLUTCH PIPE AND HOSE



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|--------------------------|------------------------|
| (1) Master cylinder ASSY | (7) Operating cylinder |
| (2) Clutch pipe | (8) Clip |
| (3) Clamp | |
| (4) Bracket | |
| (5) Clutch hose | |
| (6) Washer | |

Tightening torque: N·m (kgf·m, ft·lb)

T1: 8 (0.8, 5.8)

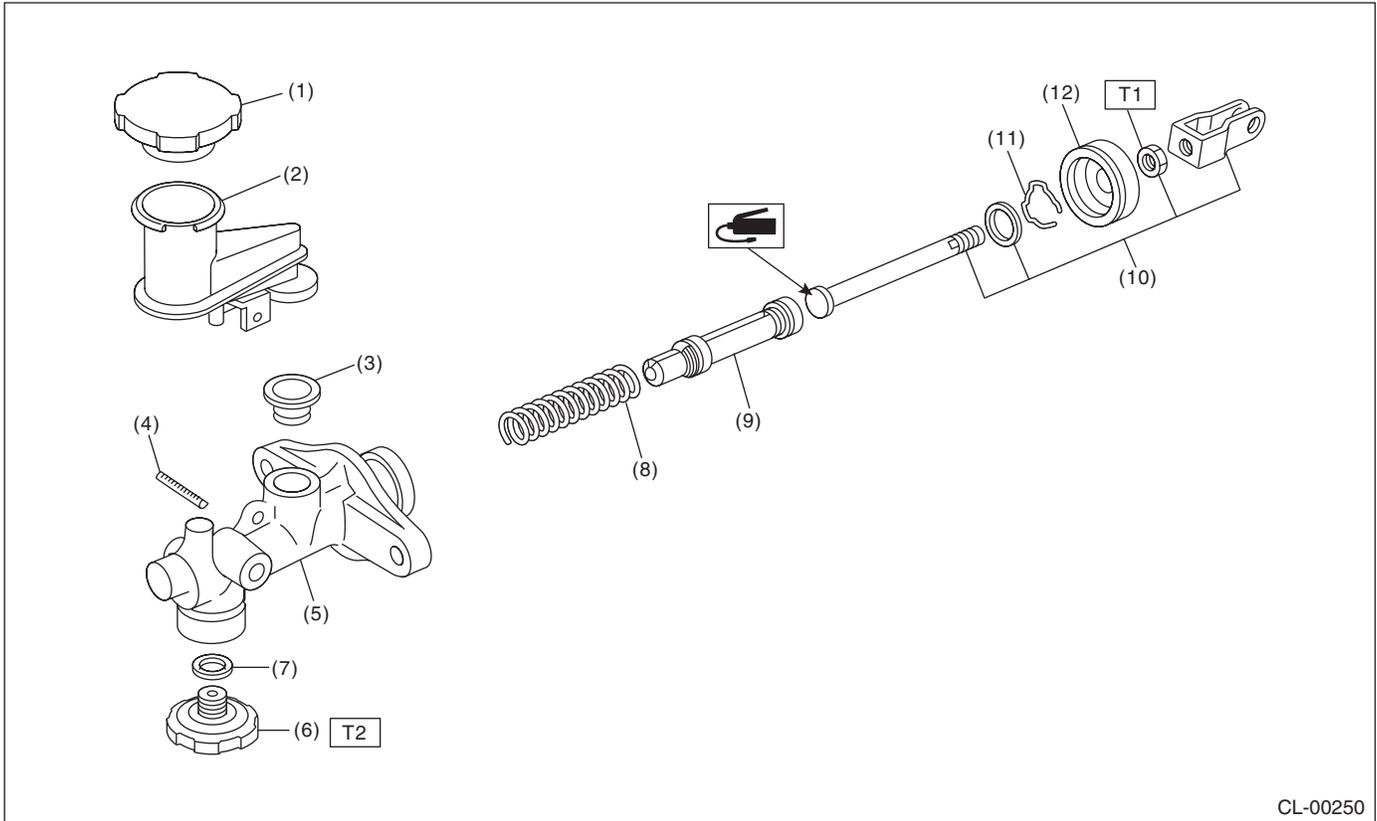
T2: 15 (1.5, 10.8)

T3: 18 (1.8, 13.0)

T4: 37 (3.8, 27.5)

T5: 25 (2.5, 18.4)

3. MASTER CYLINDER



CL-00250

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|---------------------|-----------------------|
| (1) Reservoir cap | (7) Gasket |
| (2) Reservoir tank | (8) Return spring |
| (3) Oil seal | (9) Piston |
| (4) Straight pin | (10) Push rod ASSY |
| (5) Master cylinder | (11) Piston stop ring |
| (6) Clutch damper | (12) Cylinder boot |

Tightening torque: N-m (kgf-m, ft-lb)

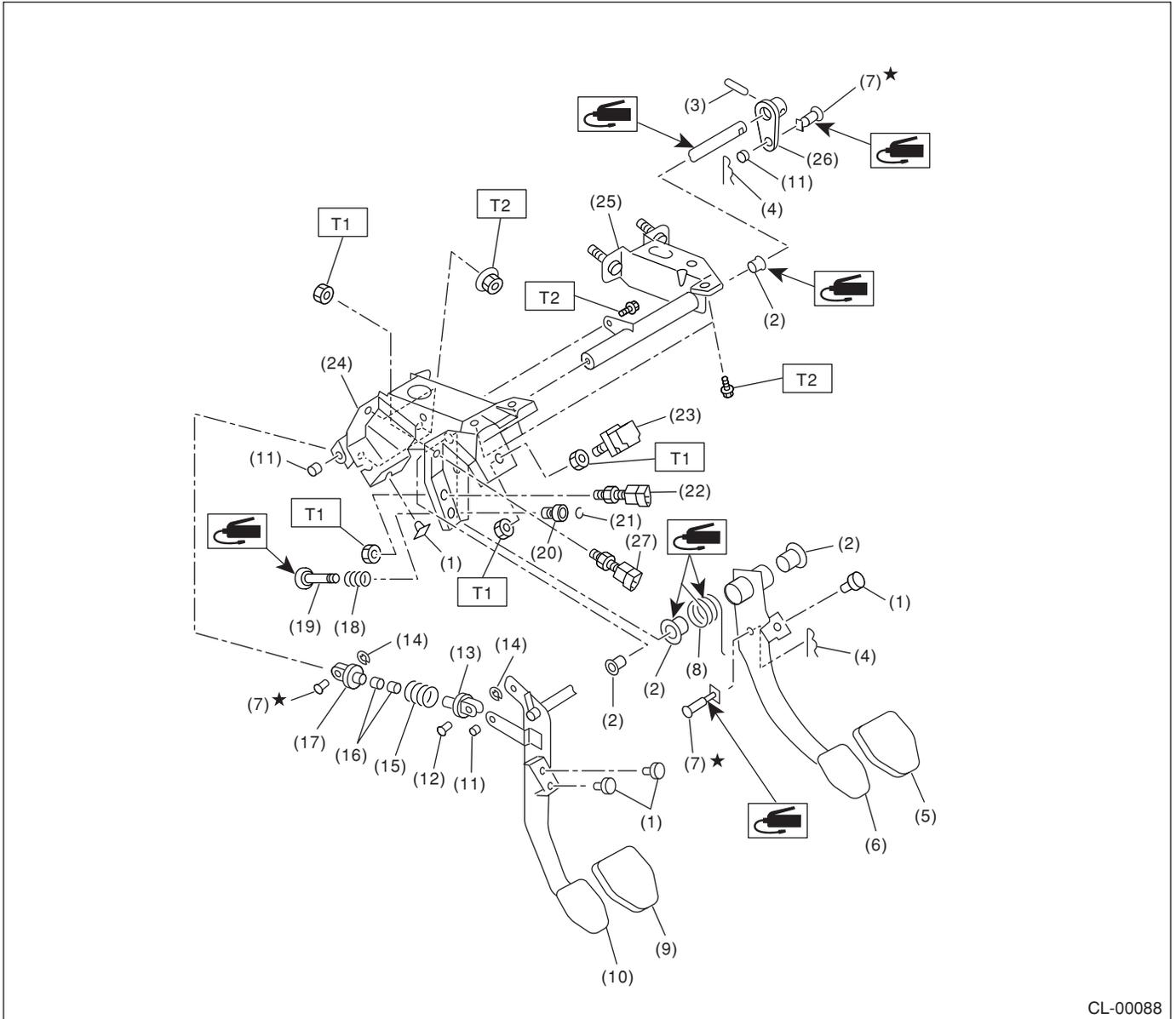
T1: 10 (1.0, 7)

T2: 46.6 (4.75, 34.4)

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4. CLUTCH PEDAL



CL-00088

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

Tightening torque: N·m (kgf·m, ft·lb)

T1: 8 (0.8, 5.8)

T2: 18 (1.8, 13.0)

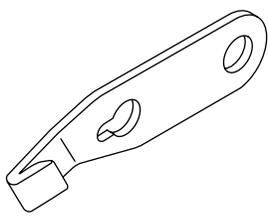
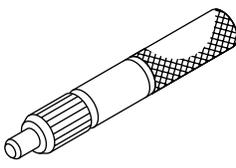
C: CAUTION

- Wear work 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 and dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly and replacement.
- Be careful not to burn yourself, because each part on the vehicle is hot after running.
- Use SUBARU genuine fluid, grease etc. or 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 rigid racks 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 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.

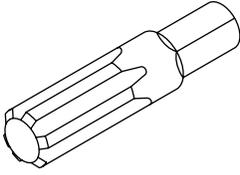
D: PREPARATION TOOL

1. SPECIAL TOOL

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 for installing clutch disc to flywheel.

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ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-499057000	499057000	TORX® PLUS	Used for removing flywheel (dual mass flywheel type).

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 wear of clutch disc.