# 1. General Description

# **A: SPECIFICATIONS**

Model			2.0 L TURBO	2.5 L	
Clutch cover	Туре		Pull type	Push type	
	Diaphragm set load kgf (		800 (1,764)	580 (1,279)	
Clutch disc	Facing material		Woven (Non asbestos)		
	$O.D. \times I.D. \times thickness$	mm (in)	230 × 150 × 3.5 (9.06 × 5.91 × 0.138)	225 × 150 × 3.5 (8.86 × 5.91 × 0.138)	
	Spline O.D. mm (in)		25.2 (0.992), (No. of teeth: 24)		
Clutch release lever ratio			1.7	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)		
Release lever	Stroke	mm (in)	13.3 — 14.7 (0.524 — 0.579)	24 — 26 (0.94 — 1.02)	
	Play at release lever center	mm (in)	_	3 — 4 (0.12 — 0.16)	
Clutch disc	Depth of rivet head mm (in)	Standard	1.35 — 1.95 (0.053 — 0.076)		
		Limit of sinking	0.3 (0.012)		
	Limit for deflection	mm (in)	0.7 (0.028) at R = 110 (4.33)		

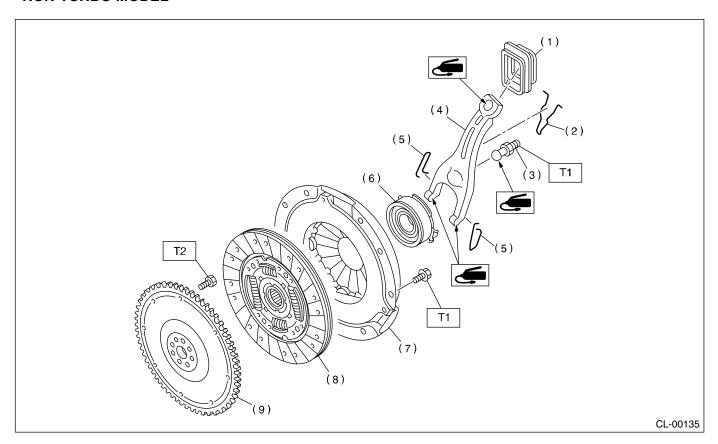
Model			2.5 L TURBO STi	
Clutch cover	Туре		Pull type	
	Diaphragm set load kgf (lb)		930 (2,050)	
Clutch disc	Facing material		Woven (Non asbestos)	
	O.D. × I.D. × thickness mm (in)		Flywheel side: $240 \times 160 \times 3.2$ ( $9.45 \times 6.30 \times 0.126$ ) Clutch cover side: $240 \times 160 \times 3.5$ ( $9.45 \times 6.30 \times 0.138$ )	
	Spline O.D. mm (in)		25.2 (0.992), (No. of teeth: 24)	
Clutch release lever ratio			1.7	
Release bearing			Grease-packed self-aligning	
Clutch pedal	Full stroke mm (in)		130 — 135 (5.12 — 5.31)	
	Free play	mm (in)	3 — 13 (0.12 — 0.51)	
Release lever	Stroke mm (in)		13.3 — 14.7 (0.524 — 0.579)	
	Play at release lever center	mm (in)	_	
Clutch disc	Depth of rivet head mm (in)	Standard	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)	
	Limit for deflection	mm (in)	0.7 (0.028) at R = 115 (4.53)	

I.D.: Inner diameter O.D.: Outer diameter

# **B: COMPONENT**

# 1. CLUTCH ASSEMBLY

## • NON-TURBO MODEL



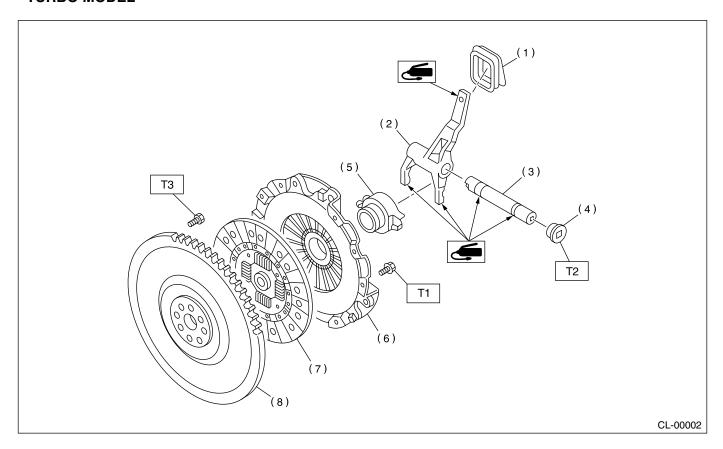
- (1) Clutch release lever sealing
- (2) Retainer spring
- (3) Pivot
- (4) Clutch release lever
- (5) Clip

- (6) Clutch 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: 72 (7.3, 52.8)

## • TURBO MODEL



- (1) Clutch release lever sealing
- (2) Clutch release lever
- (3) Clutch release lever shaft
- (4) Plug

- (5) Clutch release bearing
- (6) Clutch cover
- (7) Clutch disc
- (8) Flywheel

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 16 (1.6, 11.8)

T2: 44 (4.5, 32.5)

T3: Except STi model

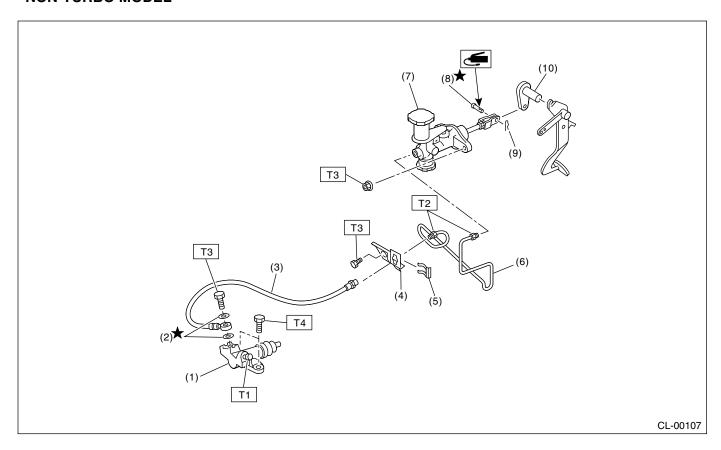
72 (7.3, 52.8)

STi model

75 (7.6, 55.3)

# 2. CLUTCH PIPE AND HOSE

# • NON-TURBO MODEL



- (1) Operating cylinder
- (2) Washer
- (3) Clutch hose
- (4) Bracket
- (5) Clip

- (6) Pipe
- (7) Master cylinder ASSY
- (8) Clevis pin
- (9) Snap pin
- (10) Lever

Tightening torque: N⋅m (kgf-m, ft-lb)

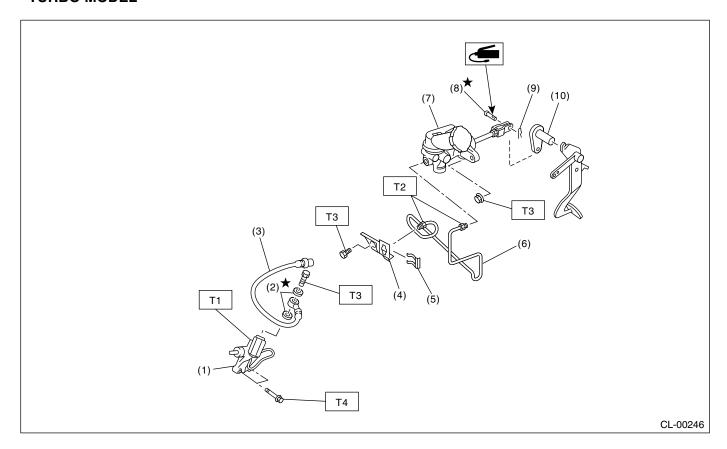
T1: 8 (0.8, 5.8)

T2: 15 (1.5, 10.8)

T3: 18 (1.8, 13.0)

T4: 37 (3.8, 27.5)

## • TURBO MODEL



- (1) Operating cylinder
- (2) Washer
- (3) Clutch hose
- (4) Bracket
- (5) Clip

- (6) Pipe
- (7) Master cylinder ASSY
- (8) Clevis pin
- (9) Snap pin
- (10) Lever

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: Except STi model

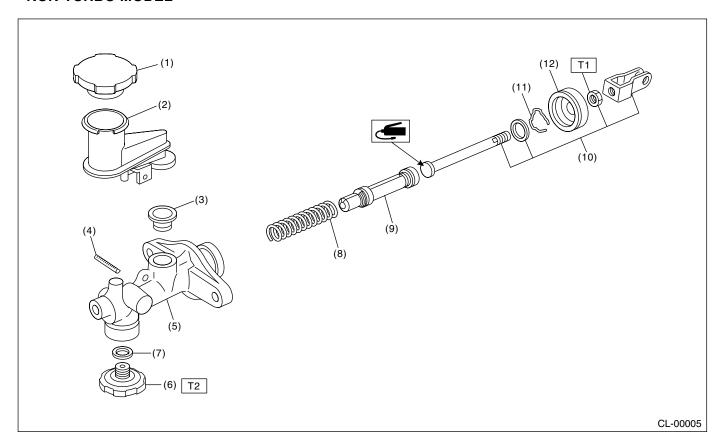
37 (3.8, 27.5)

STi model

41 (4.2, 30.2)

# 3. MASTER CYLINDER

# • NON-TURBO MODEL



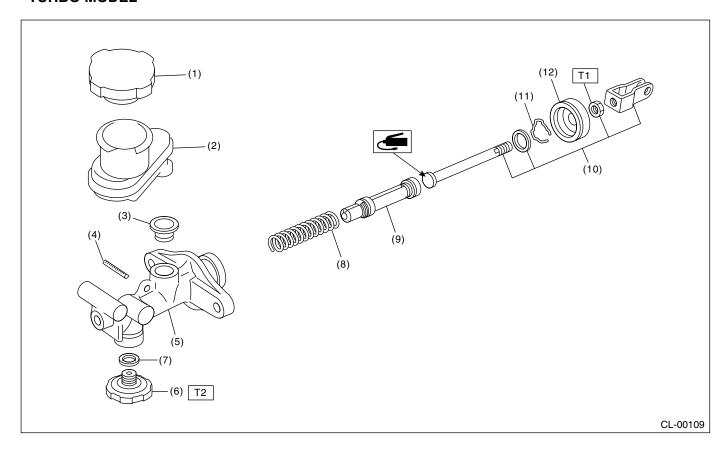
- (1) Reservoir cap
- (2) Reservoir tank
- (3) Oil seal
- (4) Straight pin
- (5) Master cylinder
- (6) Clutch damper

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

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 10 (1.0, 7) T2: 46.6 (4.75, 34.4)

## • TURBO MODEL



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

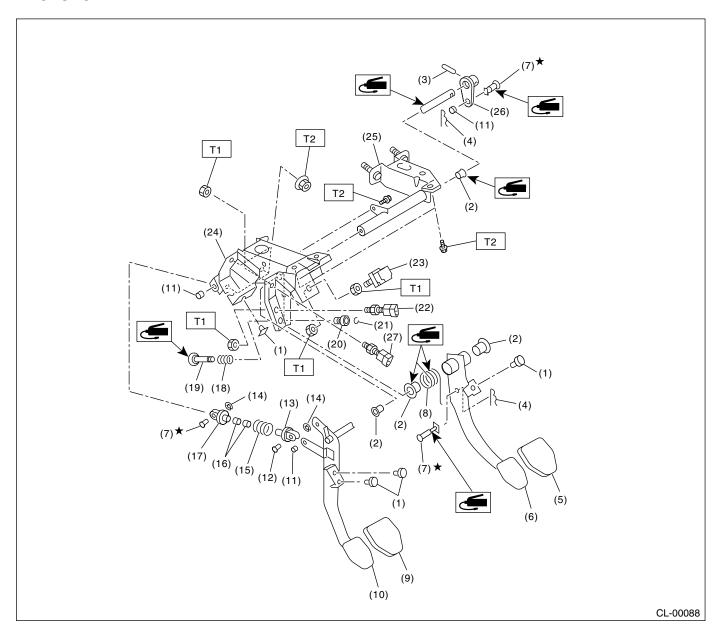
- (7) Gasket
- (8) Return spring
- (9) Piston
- (10) Push rod
- (11) Piston stop ring
- (12) Cylinder boot

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 10 (1.0, 7)

T2: 46.6 (4.75, 34.4)

# 4. CLUTCH PEDAL



- (1) Stopper
- (2) Bushing
- (3) Spring pin
- (4) Snap pin
- (5) Brake pedal pad
- (6) Brake pedal
- (7) Clevis pin
- (8) Brake pedal spring
- (9) Clutch pedal pad
- (10) Clutch pedal
- (11) Bushing C

- (12) Clutch clevis pin
- (13) Assist rod A
- (14) Clip
- (15) Assist spring
- (16) Assist bushing
- (17) Assist rod B
- (18) Spring S
- (19) Rod S
- (20) Bushing S
- (21) Clip
- (22) Clutch switch (Cruise control)

- (23) Stop light switch
- (24) Pedal bracket
- (25) Clutch master cylinder bracket
- (26) Lever
- (27) Clutch switch (Starter interlock)

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 8 (0.8, 5.8)

T2: 18 (1.8, 13.0)

## 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 vise, place cushioning material such as wood blocks, aluminum plate, or shop 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 TOOLS

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

#### 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.		