1. General Description S504001

A: SPECIFICATIONS S504001E49

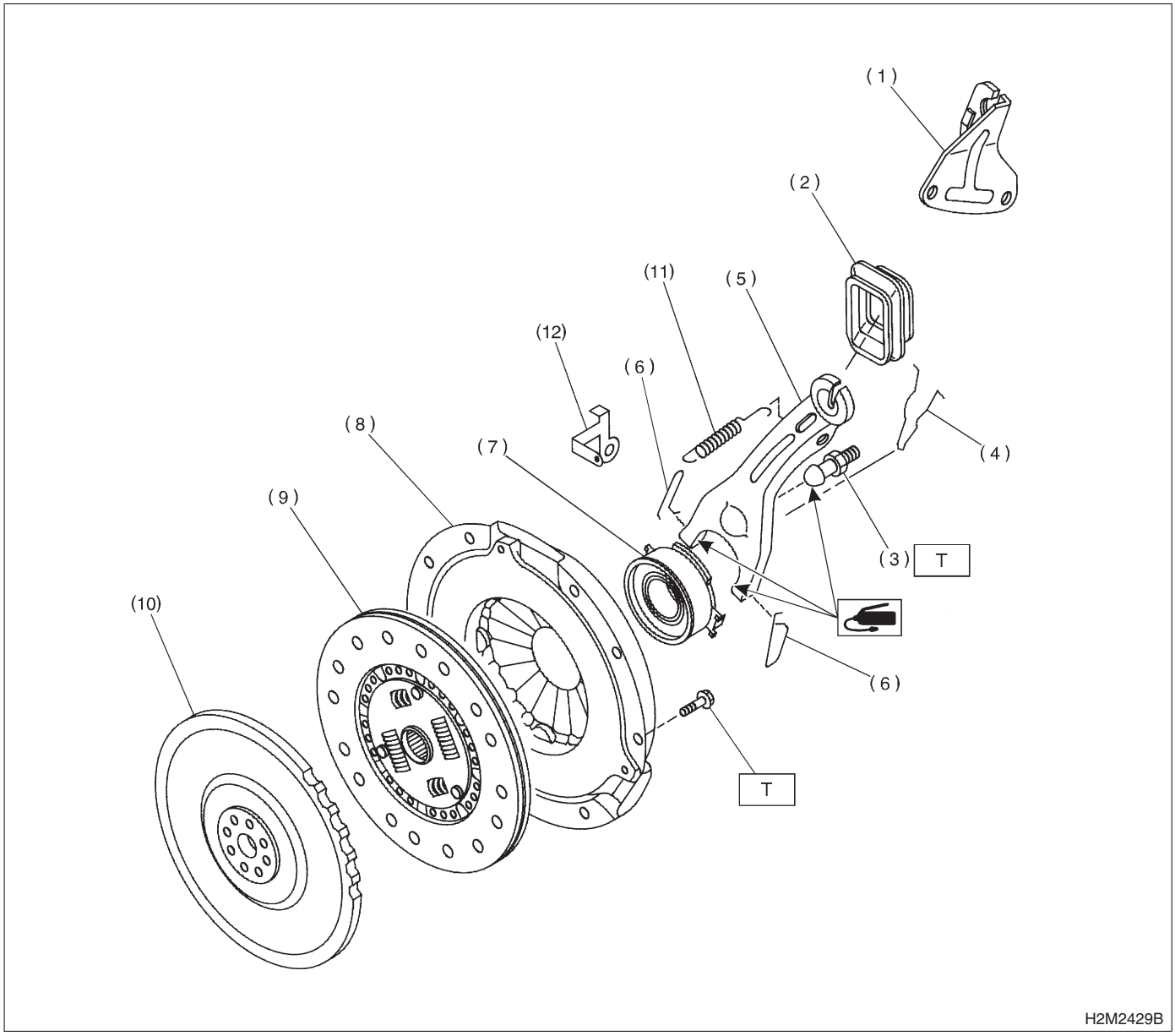
			2200 cc	2500 cc
Clutch cover	Diaphragm set load	kg (lb)	450 (992)	580 (1,279)
Clutch disc	Facing material		Woven	
	O.D. × I.D. × thickness	mm (in)	225 × 150 × 3.5 (8.86 × 5.91 × 0.138)	
	Spline O.D. (No. of teeth)	mm (in)	25.2 (0.992) (24)	
	Depth of rivet head mm (in)	Limit of sinking	0.3 (0.012)	
	Limit for runout	mm (in)	1.0 (0.039) at R = 107 (4.21)	
Clutch release lever ratio			3.0	1.6
Clutch release lever	Stroke	mm (in)	24 — 26 (0.94 — 1.02)	12 — 13.6 (0.472 — 0.535)
	Play at clutch release lever center	mm (in)	3 — 4 (0.12 — 0.16)	—
Clutch release bearing			Grease-packed self-aligning	
Clutch pedal	Full stroke	mm (in)	140 — 145 (5.51 — 5.71)	130 — 135 (5.12 — 5.31)
	Free play	mm (in)	10 — 20 (0.39 - 0.79)	4 — 13 (0.16 - 0.51)

O.D.; Outer Diameter I.D.; Inner Diameter

B: COMPONENT S504001A05

1. CLUTCH SYSTEM S504001A0501

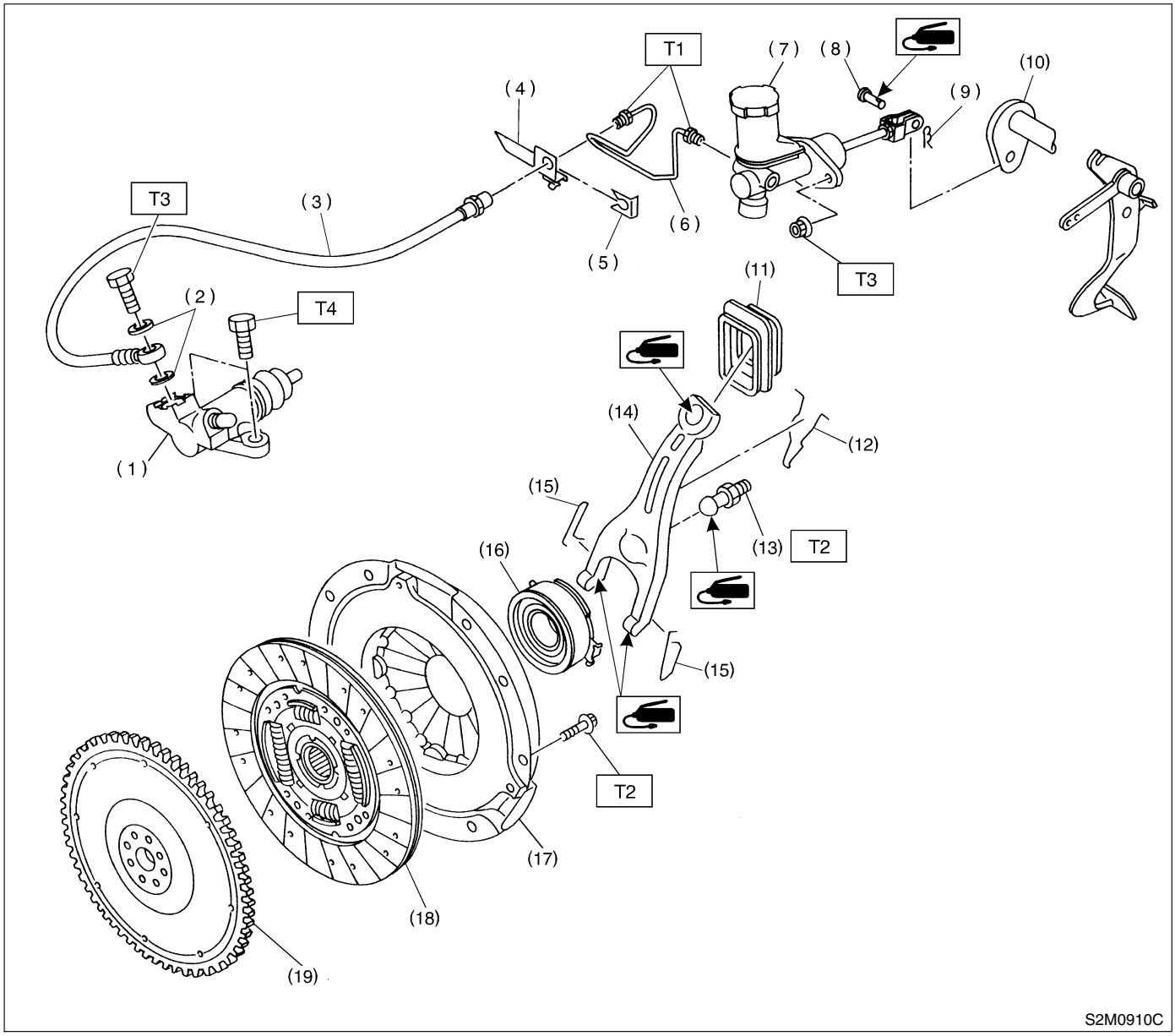
- **Mechanical Application Type**



(1) Clutch cable bracket
(2) Clutch release lever sealing
(3) Pivot
(4) Retainer spring
(5) Clutch release lever
(6) Clip
(7) Clutch release bearing
(8) Clutch cover
(9) Clutch disc
(10) Flywheel
(11) Return spring
(12) Clutch return spring bracket

Tightening torque: N·m (kgf-m, ft-lb)
T: 15.7 (1.6, 11.6)

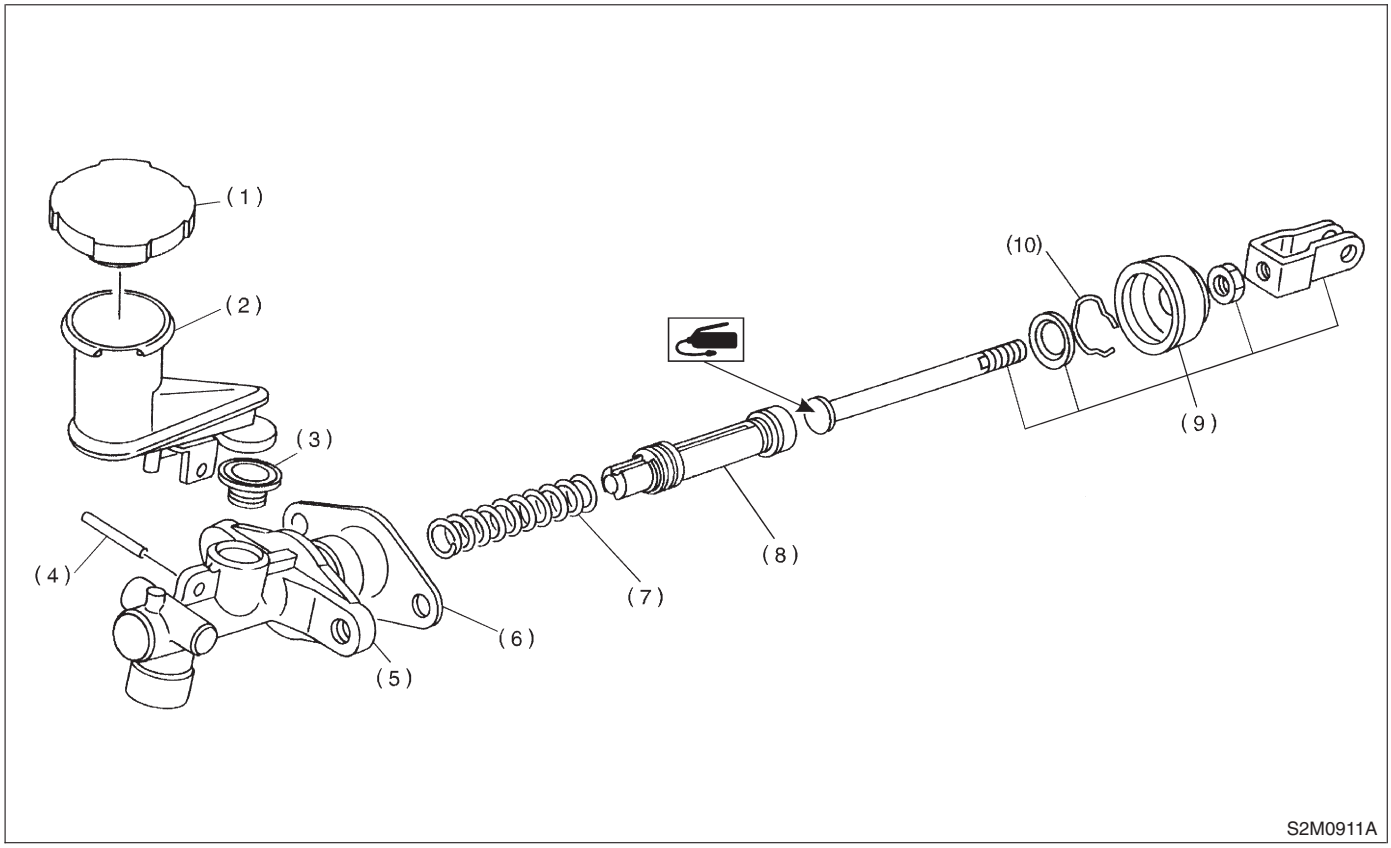
● Hydraulic Application Type



(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
(11) Clutch release lever sealing
(12) Retainer spring
(13) Pivot
(14) Clutch release lever
(15) Clip
(16) Clutch release bearing
(17) Clutch cover
(18) Clutch disc
(19) Flywheel

Tightening torque: N·m (kgf-m, ft-lb)
T1: 15 (1.5, 10.8)
T2: 15.7 (1.6, 11.6)
T3: 18 (1.8, 13.0)
T4: 37 (3.8, 27.5)

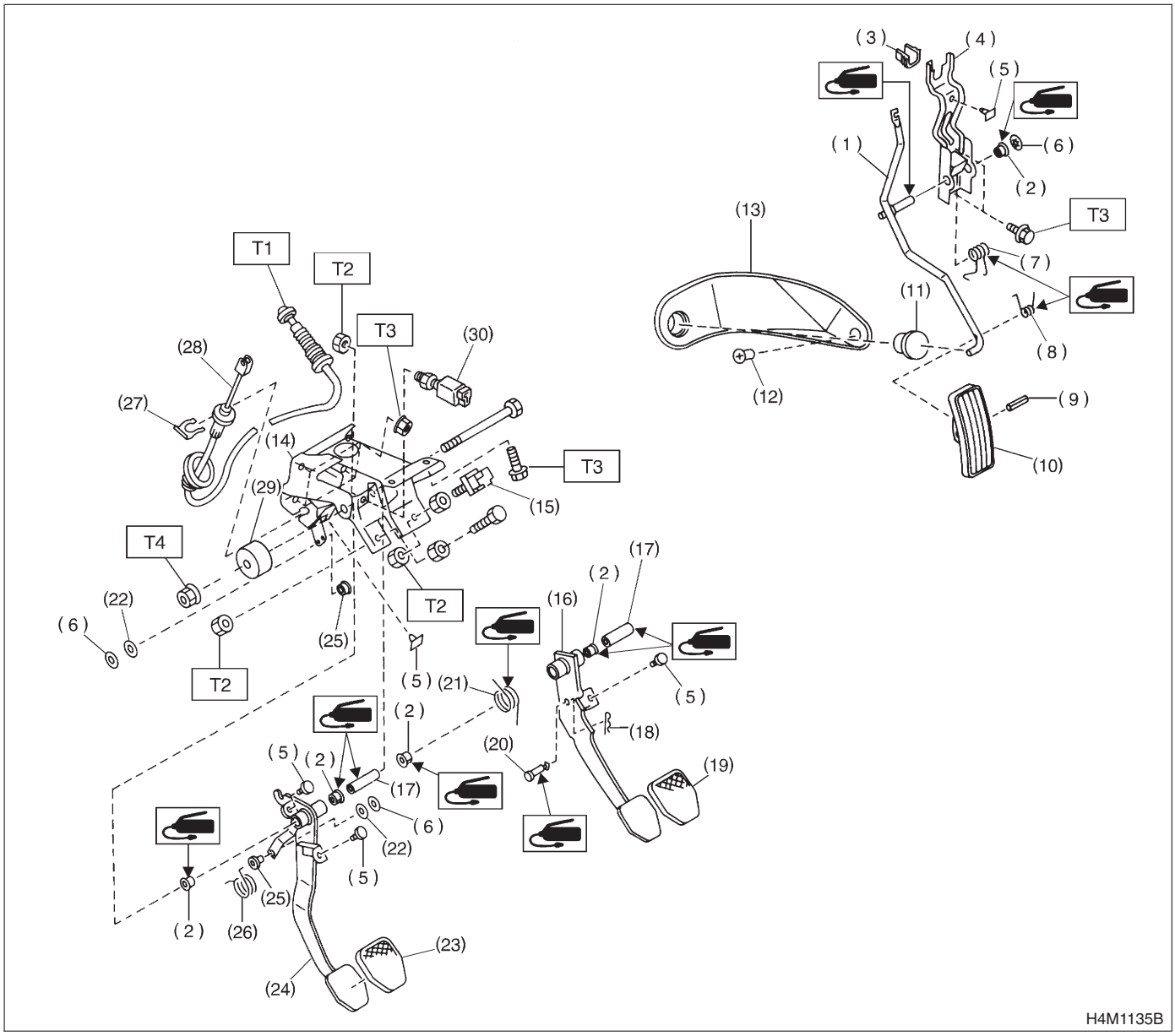
2. MASTER CYLINDER S504001A0502



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

3. CLUTCH PEDAL S504001A0503

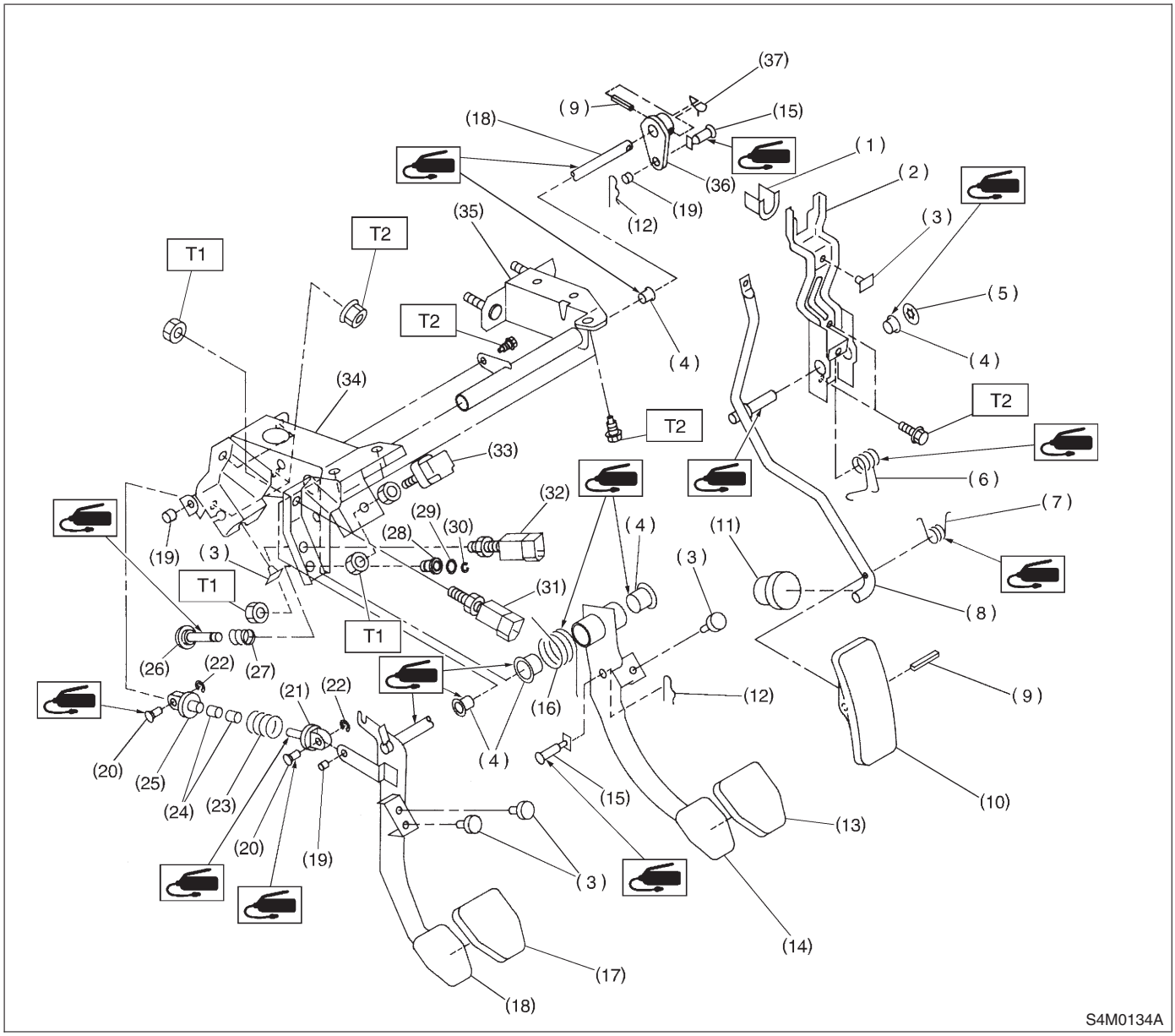
- **2200 cc Model**



(1) Accelerator pedal
(2) Bushing
(3) Holder
(4) Accelerator bracket
(5) Stopper
(6) Clip
(7) Accelerator spring
(8) Accelerator pedal spring
(9) Spring pin
(10) Accelerator pedal pad
(11) Accelerator stopper
(12) Clip
(13) Accelerator plate
(14) Pedal bracket
(15) Stop light switch
(16) Brake pedal
(17) Spacer
(18) Snap pin
(19) Brake pedal pad
(20) Clevis pin
(21) Brake pedal spring
(22) Washer
(23) Clutch pedal pad
(24) Clutch pedal
(25) Bushing assist
(26) Spring assist
(27) Clutch cable clamp
(28) Clutch cable
(29) Mass damper
(30) Clutch switch (Starter interlock)

Tightening torque: N·m (kgf-m, ft-lb)
T1: 5.9 (0.60, 4.3)
T2: 8 (0.8, 5.8)
T3: 18 (1.8, 13.0)
T4: 29 (3.0, 21.7)

● 2500 cc Model



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

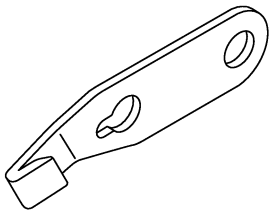
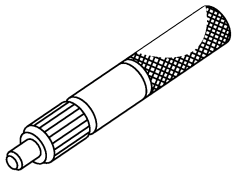
Tightening torque: N·m (kgf-m, ft-lb)
T1: 8 (0.8, 5.8)
T2: 18 (1.8, 13.0)

C: CAUTION S504001A03

- 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.
- Refer to CAUTION in the “AT section” for removal of transmission.

D: PREPARATION TOOL S504001A17

1. SPECIAL TOOL S504001A1701

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 B2M3853	498497100	CRANKSHAFT STOPPER	Used for stopping rotation of flywheel when loosening tightening bolt, etc.
 B2M4112	499747100	CLUTCH DISC GUIDE	Used when installing clutch disc to flywheel.

2. GENERAL TOOL S504001A1702

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