1. General Description

A: SPECIFICATIONS

		Non-turbo		Turbo
		Other	Sedan	
Front disc brake	Size	15 inch		16 inch
	Type	Disc (Floating type, ventilated)		
	Effective disc diameter	228 mm (8.98 in)		244 mm (9.6 in)
	Disc thickness × Outer diameter	24 × 277 mm (0.94 × 10.91 in)		24 × 294 mm (0.94 × 11.57 in)
	Effective cylinder diameter	42.8 mm (1.685 in) × 2		
	Pad dimensions (length × width × thickness)	105.0 × 50.5 × 11.0 mm (4.134 × 1.989 × 0.433 in)		
	Clearance adjustment	Automatic adjustment		
Rear disc brake	Type	—	Disc (Floating type)	
	Effective disc diameter	—	230 mm (9.06 in)	
	Disc thickness × Outer diameter	—	10 × 266 mm (0.39 × 10.47 in)	
	Effective cylinder diameter	—	38.1 mm (1.500 in)	
	Pad dimensions (length × width × thickness)	—	82.4 × 33.7 × 9.0 mm (3.244 × 1.327 × 0.354 in)	
	Clearance adjustment	—	Automatic adjustment	
Rear drum brake	Type	Drum (Leading-Trailing type)	—	
	Effective drum diameter	228.6 mm (9 in)	—	
	Effective cylinder diameter	19.0 mm (0.689 in)	—	
	Lining dimensions (length × width × thickness)	219.4 × 35.0 × 4.1 mm (8.64 × 1.378 × 0.161 in)	—	
	Clearance adjustment	Automatic adjustment	—	
Master cylinder	Type	Tandem		
	Effective diameter	26.99 mm (1-1/16 in)		26.99 mm (1-1/16 in) <MT> 25.4 mm (1 in) <AT>
	Reservoir type	Sealed type		
	Brake fluid reservoir capacity	205 cm^3 (12.51 cu in)		
Brake booster	Type	Vacuum suspended		
	Effective diameter	205 + 230 mm (8.07 + 9.06 in)		
Proportioning valve	Split point	1,961 kPa (20 kg/cm^2, 285 psi)		
	Reducing ratio	0.3		
Brake line		Dual circuit system		
Brake fluid		FMVSS No. 116, DOT3 or DOT4		

NOTE:
Refer to “PB section” for parking brake SPECIFICATIONS. <Ref. to PB-2, SPECIFICATIONS, General Description.>

ITEM		STANDARD	SERVICE LIMIT
Front brake	Pad thickness (including back metal)	17 mm (0.67 in)	7.5 mm (0.295 in)
	Disc thickness	24 mm (0.94 in)	22 mm (0.87 in)
	Disc runout	—	0.075 mm (0.0029 in)
Rear brake (Disc type)	Pad thickness (including back metal)	14 mm (0.55 in)	6.5 mm (0.256 in)
	Disc thickness	10 mm (0.39 in)	8.5 mm (0.335 in)
	Disc runout	—	0.07 mm (0.0028 in)
Rear brake (Drum type)	Inside diameter	228.6 mm (9 in)	230.6 mm (9.08 in)
	Lining thickness	4.1 mm (0.161 in)	1.5 mm (0.059 in)
Rear brake (Disc type parking)	Inside diameter	170 mm (6.69 in)	171 mm (6.73 in)
	Lining thickness	3.2 mm (0.126 in)	1.5 mm (0.059 in)
Parking brake	Lever stroke	7 to 8 notches/196 N (20 kgf, 44 lb)	

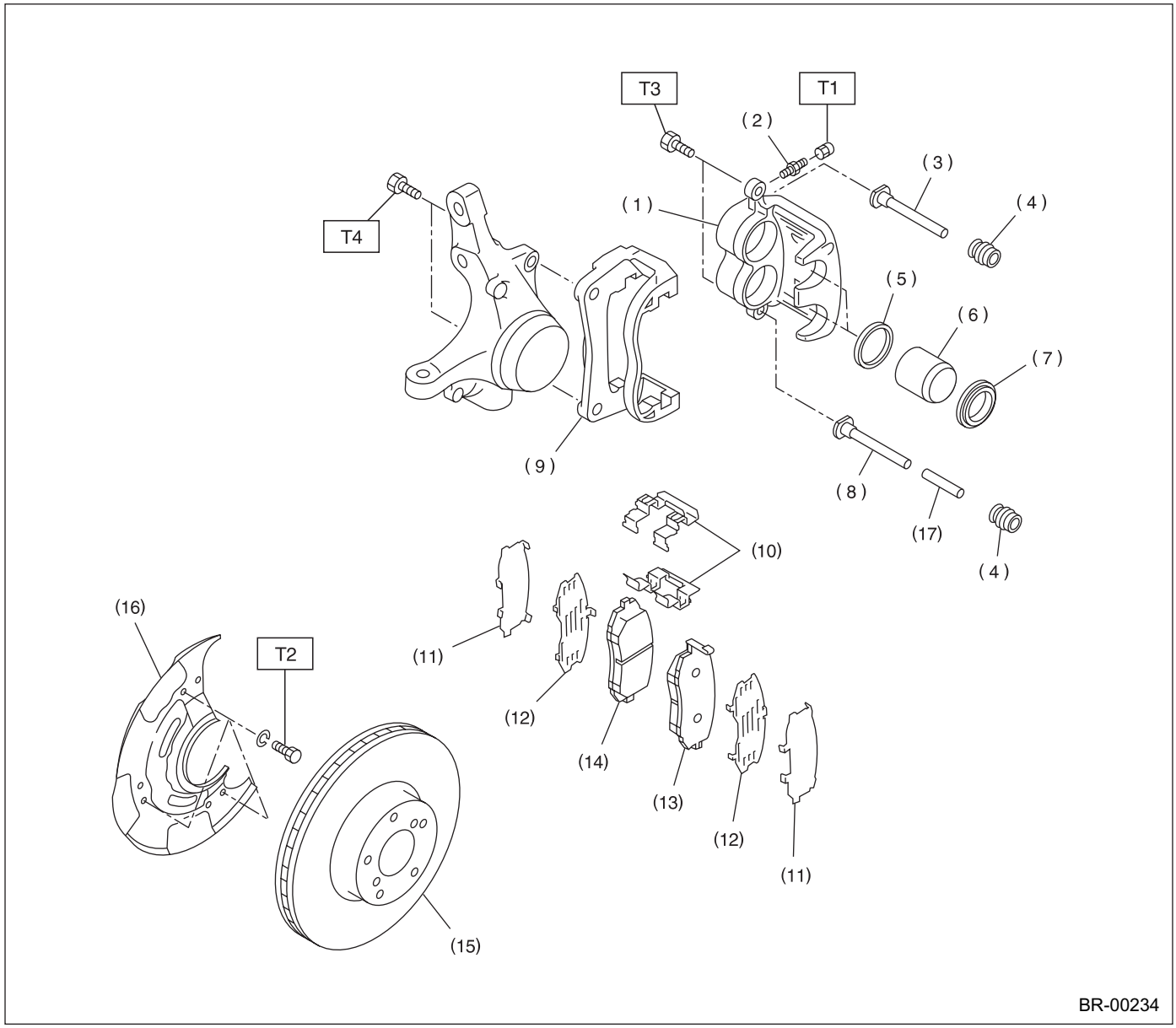
		Brake pedal force	Fluid pressure		
			Non-turbo	Turbo MT	Turbo AT
Brake booster	Brake fluid pressure without engine running	147 N (15 kgf, 33 lb)	588 kPa (6 kg/cm^2, 85 psi)		686 kPa (7 kg/cm^2, 100 psi)
		294 N (30 kgf, 66 lb)	1,471 kPa (15 kg/cm^2, 213 psi)		1,667 kPa (17 kg/cm^2, 242 psi)
	Brake fluid pressure with engine running and vacuum at 66.7 kPa (500 mmHg, 19.69 inHg)	147 N (15 kgf, 33 lb)	5,296 kPa (54 kg/cm^2, 768 psi)	5,688 kPa (58 kg/cm^2, 825 psi)	6,374 kPa (65 kg/cm^2, 925 psi)
		294 N (30 kgf, 66 lb)	9,120 kPa (93 kg/cm^2, 1,323 psi)		10 MPa (104 kg/cm^2, 1,479 psi)

Brake pedal	Free play	1 — 3 mm (0.04 — 0.12 in) [Depress brake pedal pad with a force of less than 10 N (1 kgf, 2 lb).]

B: COMPONENT

1. FRONT DISK BRAKE

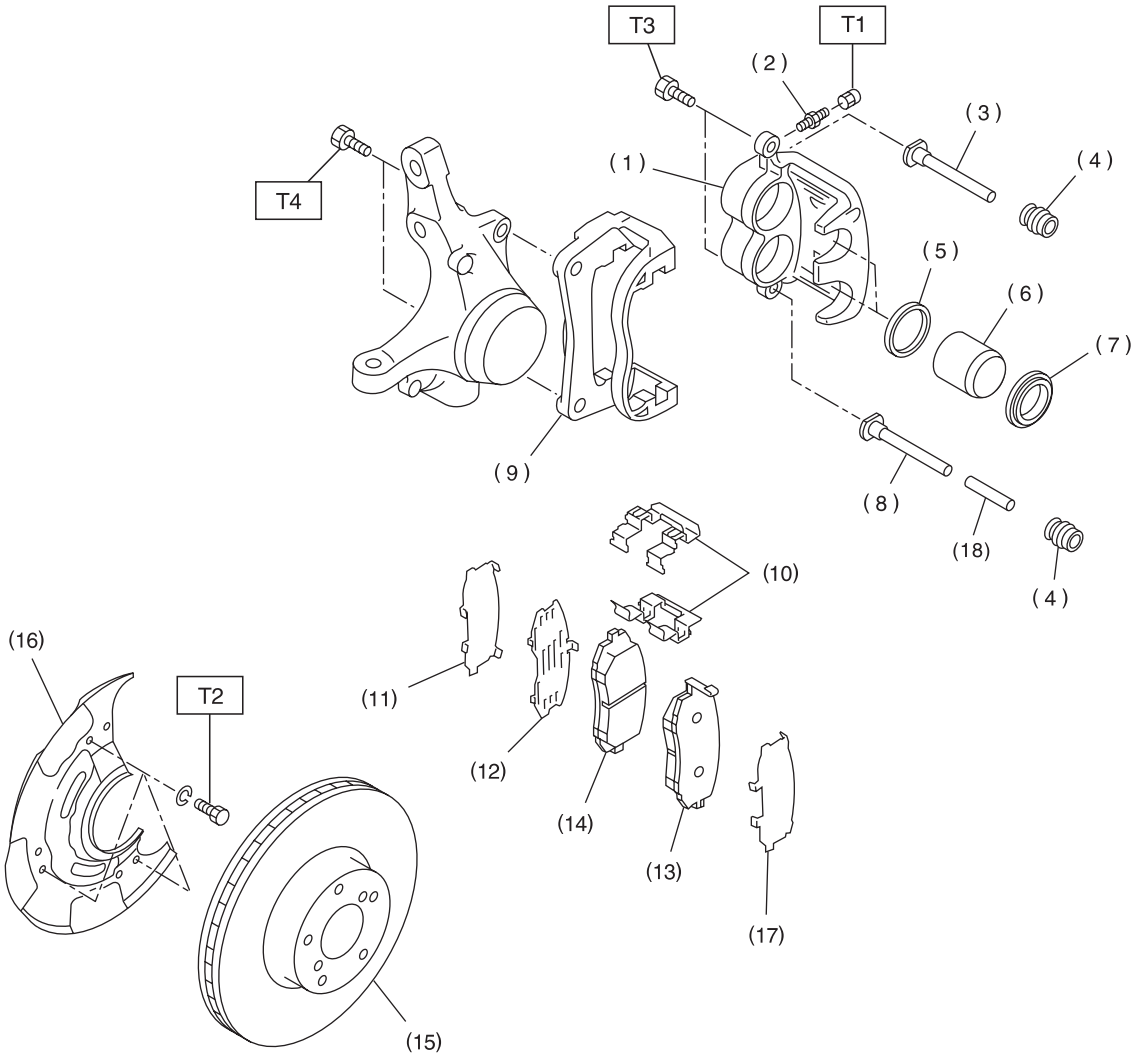
• NON-TURBO MODEL



(1)	Caliper body	(9)	Support	(17)	Lock pin sleeve
(2)	Air bleeder screw	(10)	Pad clip		
(3)	Guide pin (Green)	(11)	Outer shim		
(4)	Pin boot	(12)	Inner shim		
(5)	Piston seal	(13)	Pad (Outside)		
(6)	Piston	(14)	Pad (Inside)		
(7)	Piston boot	(15)	Disc rotor		
(8)	Lock pin (Yellow)	(16)	Disc cover		

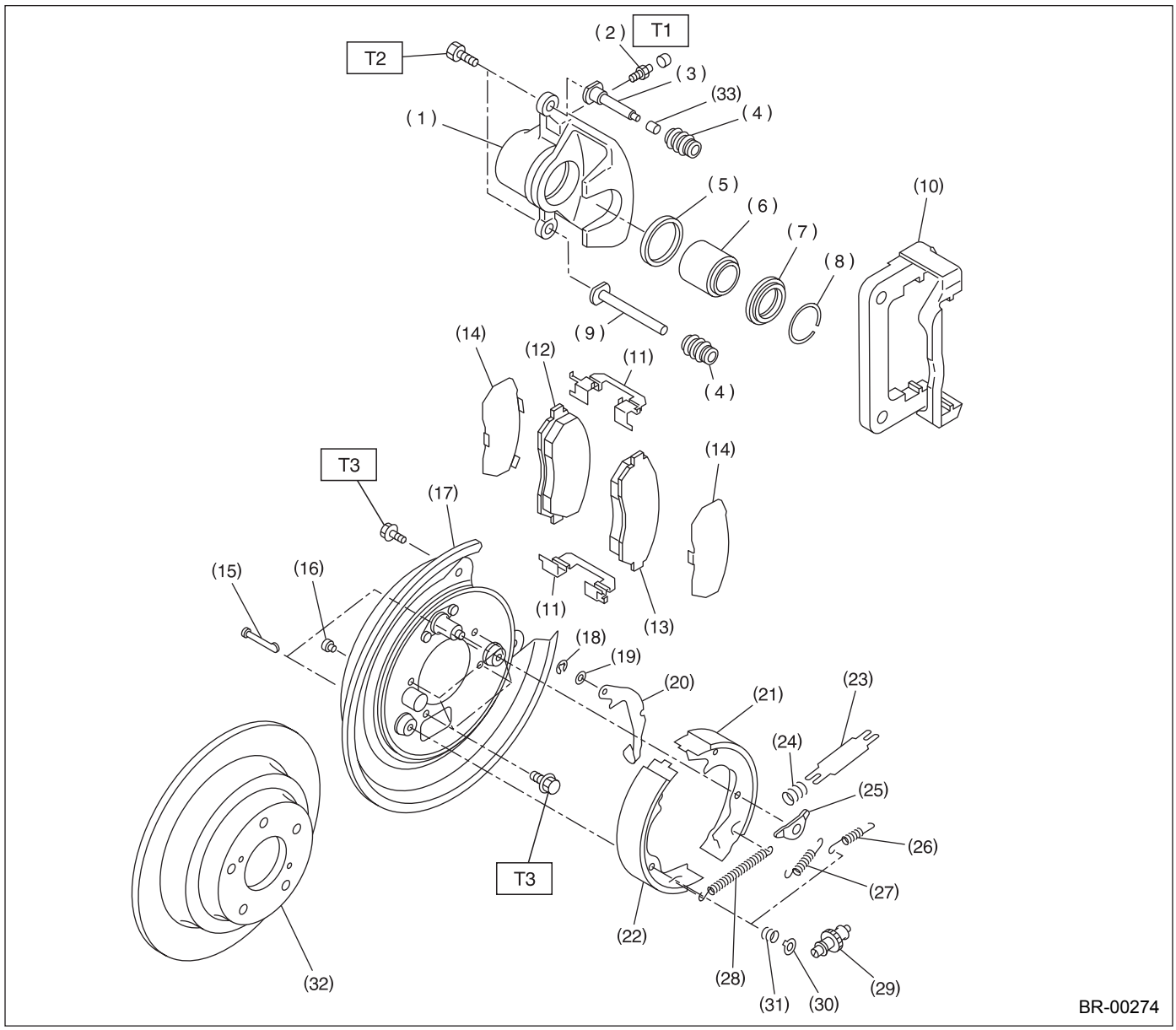
Tightening torque: N·m (kgf-m, ft-lb)	
T1:	*8 (0.8, 5.8)*
T2:	*18 (1.8, 13.0)*
T3:	*26.5 (2.70, 19.5)*
T4:	*80 (8.2, 59)*

• TURBO MODEL



(1)	Caliper body	(9)	Support	(17)	Outer shim
(2)	Air bleeder screw	(10)	Pad clip	(18)	Lock pin sleeve
(3)	Guide pin (Green)	(11)	Cover shim		
(4)	Pin boot	(12)	Rubber coat shim	***Tightening torque: N·m (kgf-m, ft-lb)***	
(5)	Piston seal	(13)	Pad (Outside)	***T1:***	***8 (0.8, 5.8)***
(6)	Piston	(14)	Pad (Inside)	***T2:***	***18 (1.8, 13.0)***
(7)	Piston boot	(15)	Disc rotor	***T3:***	***26.5 (2.70, 19.5)***
(8)	Lock pin (Yellow)	(16)	Disc cover	***T4:***	***80 (8.2, 59)***

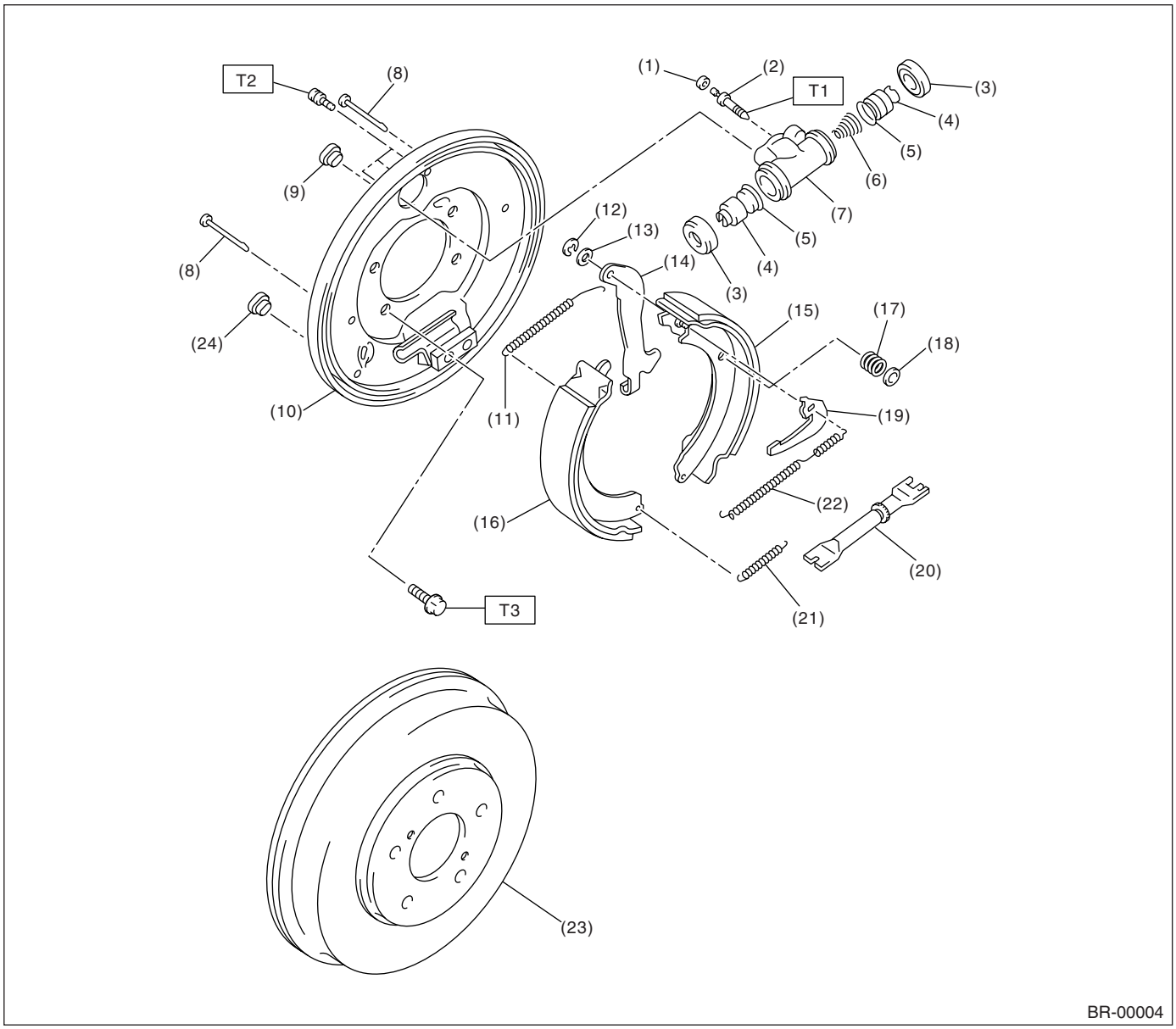
2. REAR DISC BRAKE



(1) Caliper body
(2) Air bleeder screw
(3) Guide pin (Green)
(4) Pin boot
(5) Piston seal
(6) Piston
(7) Piston boot
(8) Boot ring
(9) Lock pin (Yellow)
(10) Support
(11) Pad clip
(12) Inner pad
(13) Outer pad
(14) Shim
(15) Shoe hold-down pin
(16) Cover
(17) Back plate
(18) Retainer
(19) Spring washer
(20) Parking brake lever
(21) Parking brake shoe (Secondary)
(22) Parking brake shoe (Primary)
(23) Strut
(24) Strut shoe spring
(25) Shoe guide plate
(26) Secondary shoe return spring
(27) Primary shoe return spring
(28) Adjusting spring
(29) Adjuster
(30) Shoe hold-down cup
(31) Shoe hold-down spring
(32) Disc rotor
(33) Bush

Tightening torque: N·m (kgf-m, ft-lb)
T1: 8 (0.8, 5.8)
T2: 37 (3.8, 27.5)
T3: 53 (5.4, 39.1)

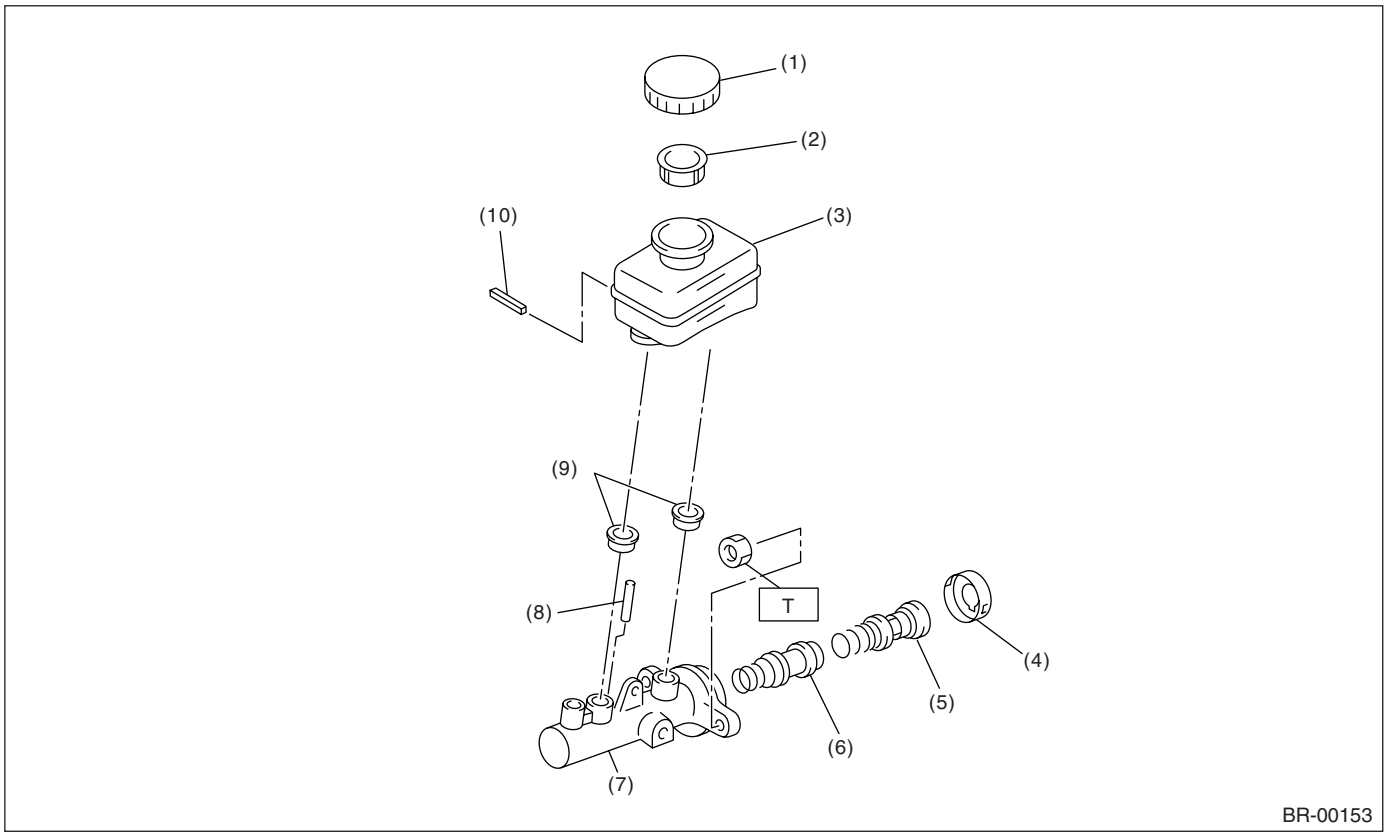
3. REAR DRUM BRAKE



(1) Air bleeder cap
(2) Air bleeder screw
(3) Boot
(4) Piston
(5) Cup
(6) Spring
(7) Wheel cylinder body
(8) Pin
(9) Plug
(10) Back plate
(11) Upper shoe return spring
(12) Retainer
(13) Washer
(14) Parking brake lever
(15) Brake shoe (Trailing)
(16) Brake shoe (Leading)
(17) Shoe hold-down spring
(18) Cup
(19) Adjusting lever
(20) Adjuster
(21) Lower shoe return spring
(22) Adjusting spring
(23) Drum

Tightening torque: N·m (kgf-m, ft-lb)
T1: 8 (0.8, 5.8)
T2: 10 (1.0, 7.2)
T3: 53 (5.4, 39.1)

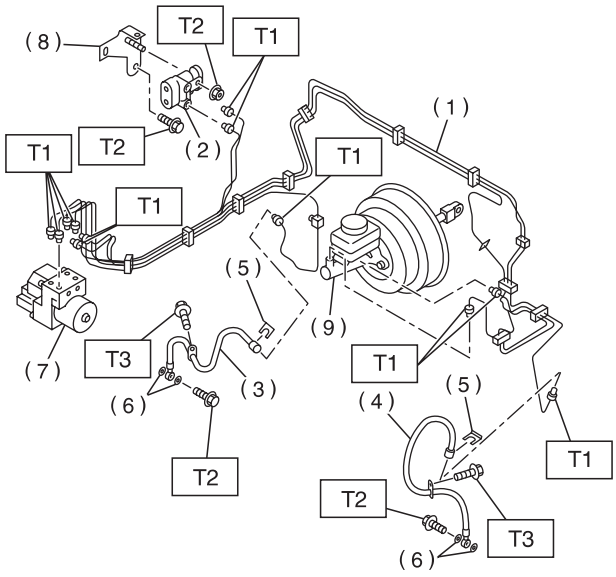
4. MASTER CYLINDER



(1) Cap
(2) Filter
(3) Reservoir tank
(4) Piston retainer
(5) Primary piston
(6) Secondary piston
(7) Cylinder body
(8) Cylinder pin (with ABS)
(9) Seal
(10) Pin

Tightening torque: N·m (kgf-m, ft-lb)
T1: 14 (1.4, 10.1)

5. FRONT BRAKE PIPES AND HOSE

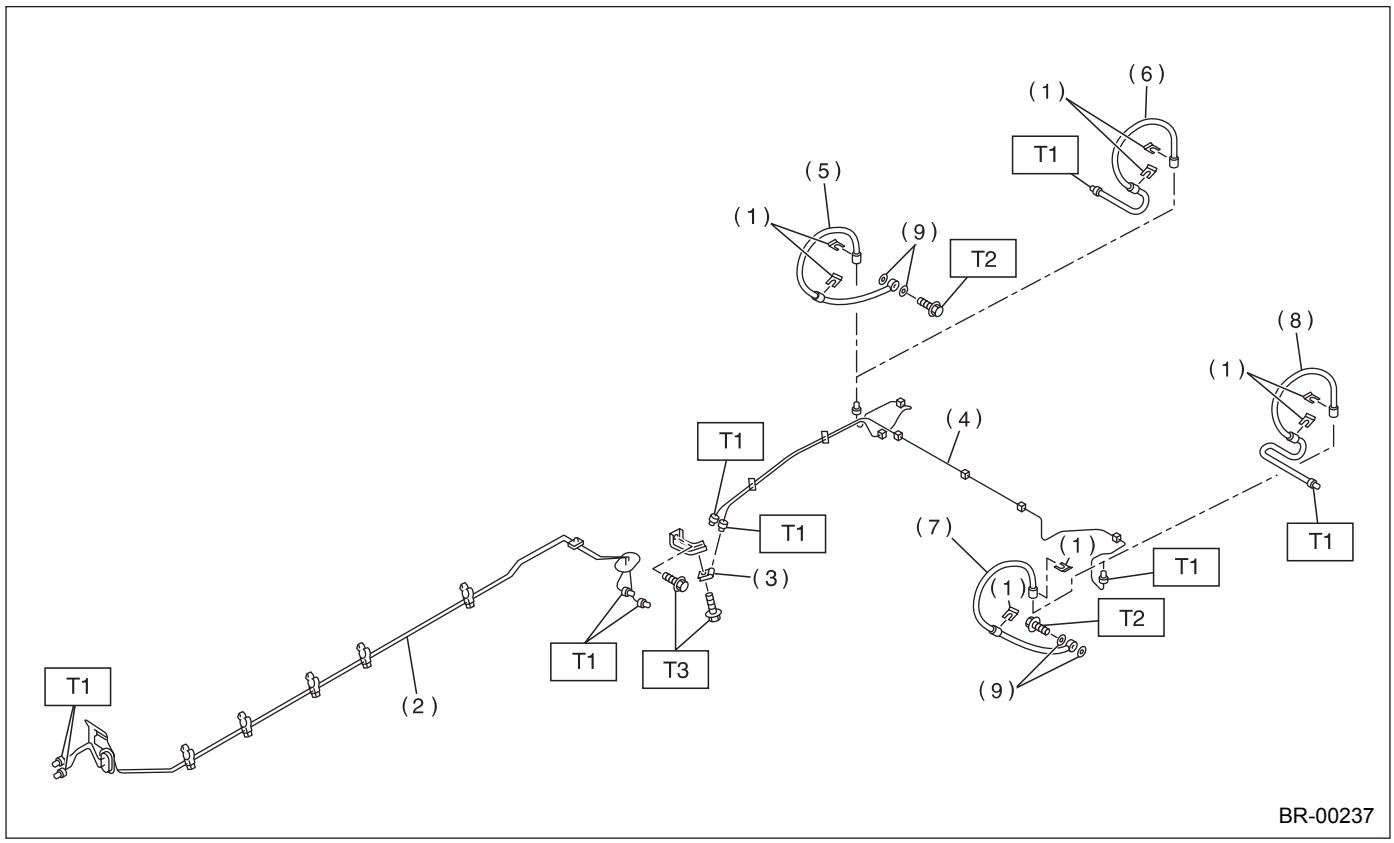


BR-00236

(1) Front brake pipe assembly
(2) Proportioning valve
(3) Front brake hose RH
(4) Front brake hose LH
(5) Clamp
(6) Gasket
(7) ABS control module and hydraulic control unit
(8) Bracket
(9) Master Cylinder

Tightening torque: N·m (kgf-m, ft-lb)
T1: 15 (1.5, 10.8)
T2: 18 (1.8, 13.0)
T3: 32 (3.3, 23.6)

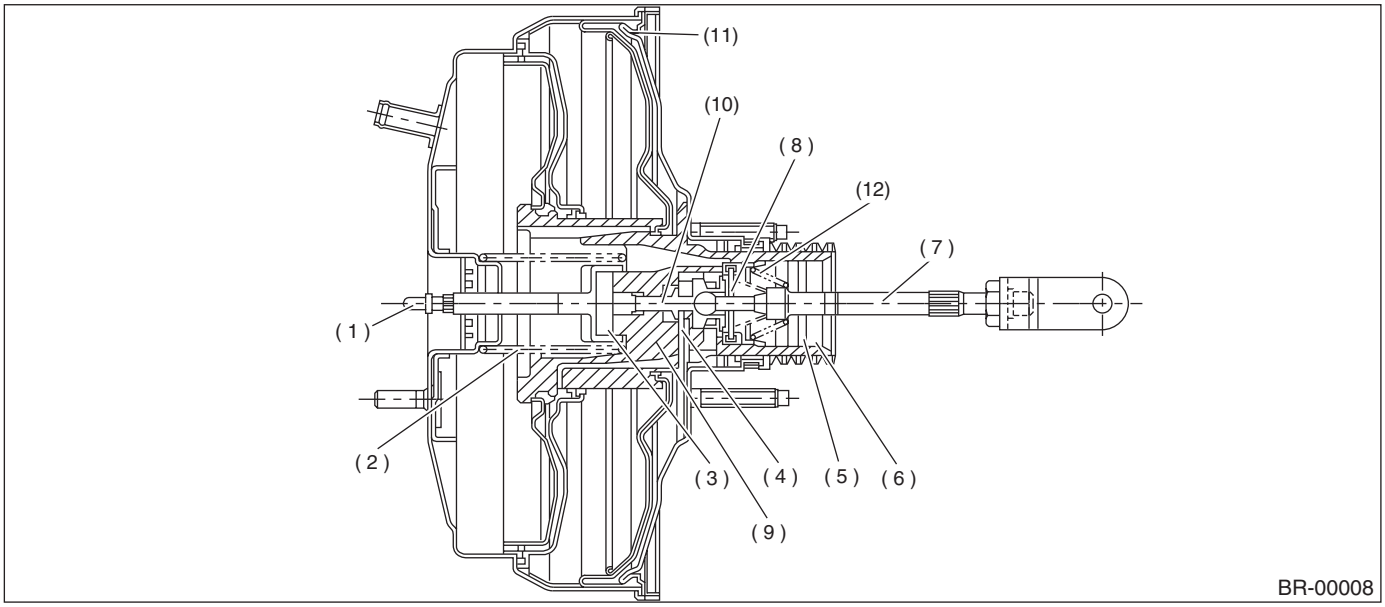
6. CENTER AND REAR BRAKE PIPES AND HOSE



(1) Clamp
(2) Center brake pipe assembly
(3) Two-way connector
(4) Rear brake pipe assembly
(5) Rear brake hose RH (Disc brake model)
(6) Rear brake hose RH (Drum brake model)
(7) Rear brake hose LH (Disc brake model)
(8) Rear brake hose LH (Drum brake model)
(9) Gasket

Tightening torque: N·m (kgf-m, ft-lb)
T1: 15 (1.5, 10.8)
T2: 18 (1.8, 13.0)

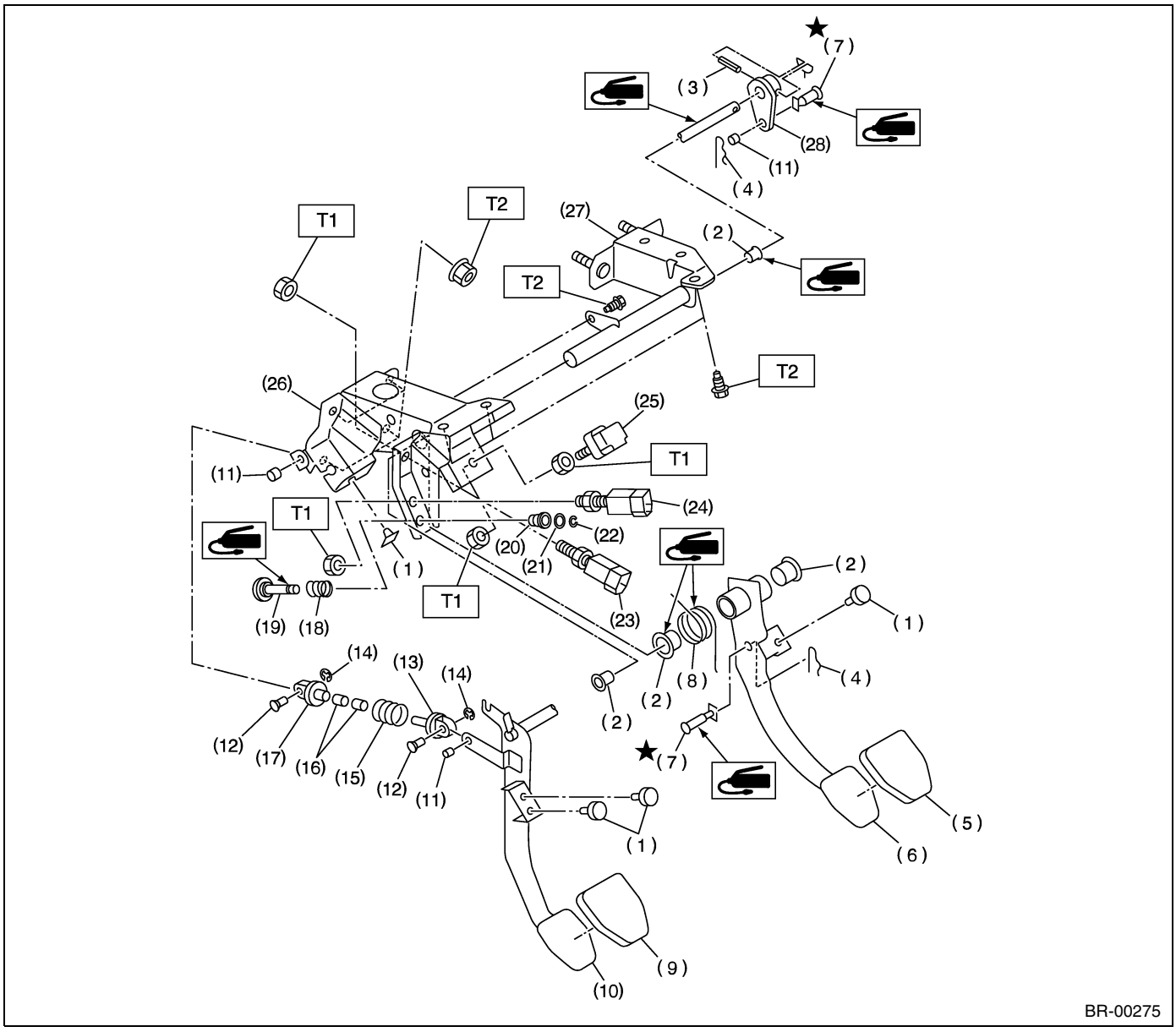
7. BRAKE BOOSTER



(1) Push rod
(2) Return spring
(3) Reaction disc
(4) Key
(5) Filter
(6) Silencer
(7) Operating rod
(8) Poppet valve
(9) Valve body
(10) Plunger valve
(11) Diaphragm plate
(12) Valve return spring

8. BRAKE PEDAL

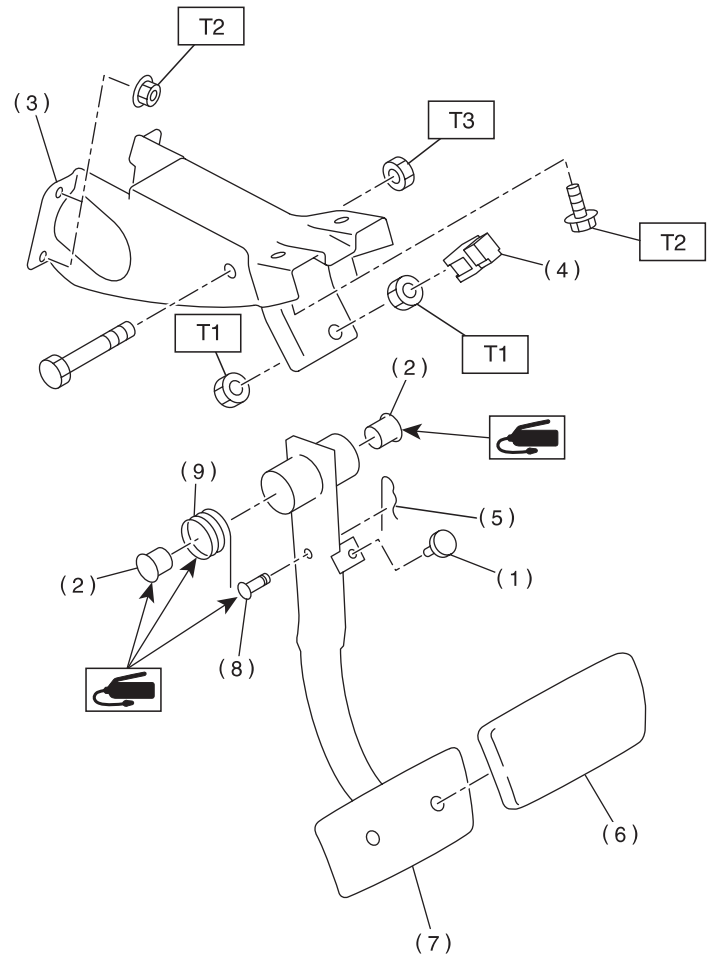
• MT Model



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

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

• AT Model



BR-00139

(1) Stopper
(2) Bushing
(3) Pedal bracket
(4) Stop light switch
(5) Snap pin
(6) Brake pedal pad
(7) Brake pedal
(8) Clevis pin
(9) Brake pedal spring

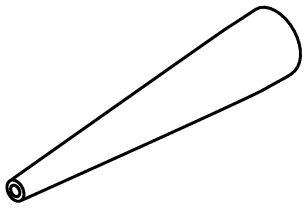
Tightening torque: N·m (kgf-m, ft-lb)	
T1:	*8 (0.8, 5.8)*
T2:	*18 (1.8, 13.0)*
T3:	*29 (3.0, 21.7)*

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 in the vehicle is hot after running.
• Use SUBARU genuine grease etc. or the equivalent. Do not mix 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 grease 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.
• Do not put fluid on body. If the body is tainted, wash away with water.

D: PREPARATION TOOL

1. SPECIAL TOOLS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-926460000	926460000	WHEEL CYLINDER 3/4″ ADAPTER	Used for installing cup onto wheel cylinder piston (Size 11/16 in).

2. GENERAL PURPOSE TOOLS

TOOL NAME	REMARKS
SNAP RING PLIERS	Used for removing and installing snap ring.