1. General Description

A: SPECIFICATIONS

	Size	16 inch type	
		Non-TURBO	With TURBO model
	Туре	Disc (Floating ty	pe, ventilated)
Front disc brake	Effective disc diameter	244 mm (9.61 in)	
	Disc thickness × Outer diameter	24 × 294 mm (0.94 × 11.57 in)	
	Effective cylinder diameter	42.8 mm (1.685 in) × 2	
	Pad dimensions (length × width × thickness)	117.8 × 50.5 × 11.0 mm (4.638 × 1.988 × 0.433 in)	
	Clearance adjustment	Automatic adjustment	
	Туре	Disc (Floating type)	
	Effective disc diameter	254 mm (10.0 in)	
	Disc thickness × Outer diameter	10 × 290 mm (0.39 × 11.42 in)	
Rear disc brake	Effective cylinder diameter	38.1 mm (1.500 in)	
	Pad dimensions (length × width × thickness)	$82.4 \times 33.7 \times 9.0 \text{ mm} (3.244 \times 1.327 \times 0.354 \text{ in})$	
	Clearance adjustment	Automatic adjustment	
	Туре	Tandem	
Markov sullandan	Effective diameter	26.99 mm (17/16 in)	25.4 mm (1 in)
Master cylinder	Reservoir type	Sealed	type
	Brake fluid reservoir capacity	205 cm ³ (12.51 cu in)	
D 1 1 1	Туре	Vacuum brake booster assisted type	
Brake booster	Effective diameter	205 + 230 mm (8.07 + 9.06 in)	
Proportioning valve	Split point	2,942 kPa (30 kg/cm², 427 psi)	
	Reducing ratio	0.3	
Brake line		Dual circuit system	
Brake fluid		FMVSS No. 116, DOT3 or DOT4	
CAUTION: • Avoid mixing brake fluid of different brands to prevent the fluid performance from degrading. • When brake fluid is supplemented, be careful not to allow any dust into the reservoir. • Use fresh DOT3 or 4 brake fluid when replacing or refilling the fluid.			

NOTE:

Refer to "PB section" for parking brake SPECIFICATIONS.

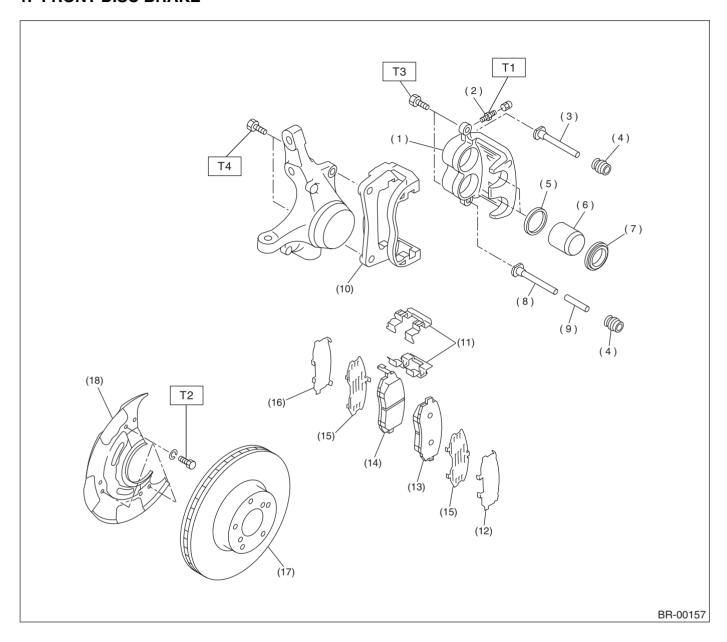
ITEM		STANDARD	SERVICE LIMIT
Frank husba	Pad thickness (including back metal)	17 mm (0.67 in)	7.5 mm (0.295 in)
Front brake	Disc thickness	24 mm (0.94 in)	22 mm (0.87 in)
	Disc runout	_	0.075 mm (0.0030 in)
	Pad thickness (including back metal)	14 mm (0.55 in)	6.5 mm (0.256 in)
Rear brake	Disc thickness	10 mm (0.39 in)	8.5 mm (0.335 in)
	Disc runout	_	0.070 mm (0.0028 in)
	Inside diameter	170 mm (6.69 in)	171 mm (6.73 in)
Parking brake	Lining thickness	3.2 mm (0.126 in)	1.5 mm (0.059 in)
	Lever stroke	7 to 8 notches/196 N (20 kgf, 44 lb)	

		Brake pedal force	Fluid pressure
Brake booster Brake fluengine ruum at 6	Brake fluid pressure without engine running	147 N (15 kgf, 33 lb)	588 kPa (6 kg/cm², 85 psi)
		294 N (30 kgf, 66 lb)	1,569 kPa (16 kg/cm², 228 psi)
	Brake fluid pressure with	147 N (15 kgf, 33 lb)	6,178 kPa (63 kg/cm², 896 psi)
	engine running and vac- uum at 66.7 kPa (500 mmHg, 19.69 inHg)	294 N (30 kgf, 66 lb)	9,709 kPa (99 kg/cm², 1,408 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).]
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B: COMPONENT

1. FRONT 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) Lock pin (Yellow)

- (9) Bushing
- (10) Support
- (11) Pad clip
- (12) Outer shim
- (13) Pad (Outside)
- (14) Pad (Inside)
- (15) Rubber coated shim
- (16) Inner shim

- (17) Disc rotor
- (18) Disc cover

Tightening torque: N⋅m (kgf-m, ft-lb)

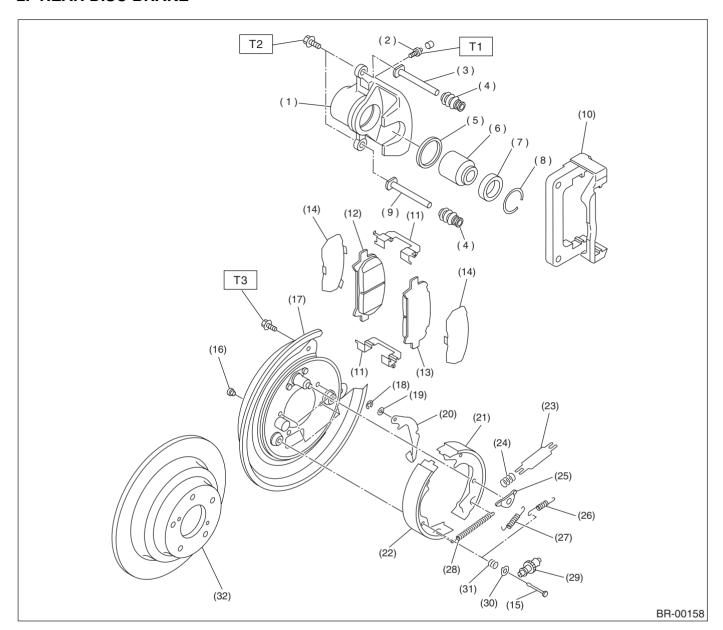
T1: 8 (0.8, 5.8)

T2: 18 (1.8, 13.0)

T3: 37 (3.8, 27.5)

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

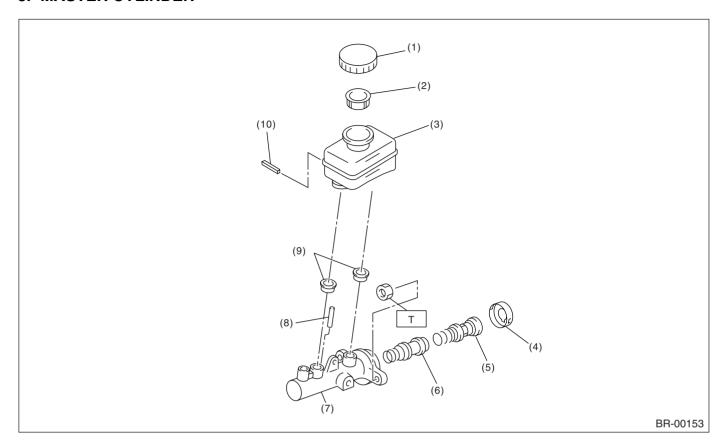
Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 8 (0.8, 5.8)

T2: 39 (4.0, 28.9)

T3: 52 (5.3, 38.3)

3. MASTER CYLINDER

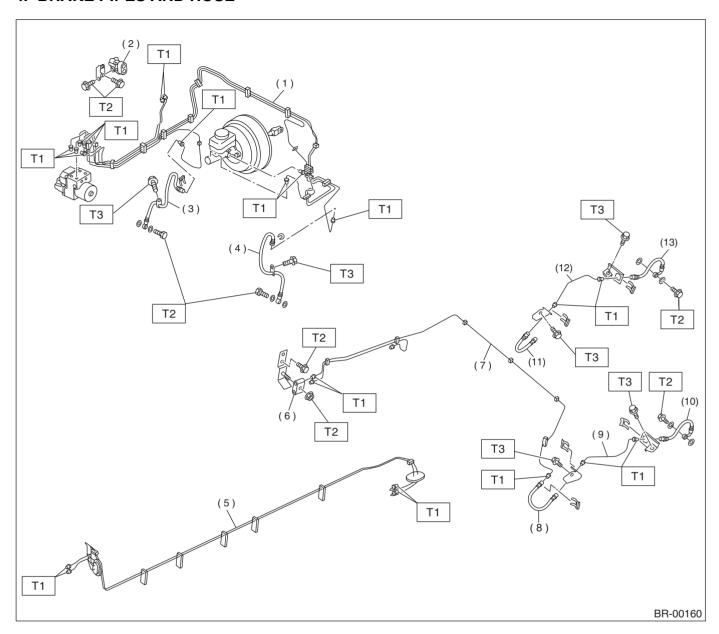


- (1) Cap
- (2) Filter
- (3) Reservoir tank
- (4) Piston retainer
- (5) Primary piston

- (6) Secondary piston
- (7) Cylinder body
- (8) Cylinder pin (With ABS)
- (9) Seal
- (10) Pin

Tightening torque: N⋅m (kgf-m, ft-lb)
T: 14 (1.4, 10.1)

4. BRAKE PIPES AND HOSE



- (1) Front brake pipe assembly
- (2) Proportioning valve
- (3) Front brake hose RH
- (4) Front brake hose LH
- (5) Center brake pipe assembly
- (6) Two-way connector

- (7) Rear brake pipe assembly
- (8) Rear brake hose LH
- (9) Rear brake pipe LH
- (10) Rear brake hose rear LH
- (11) Rear brake hose RH
- (12) Rear brake pipe RH

(13) Rear brake hose rear RH

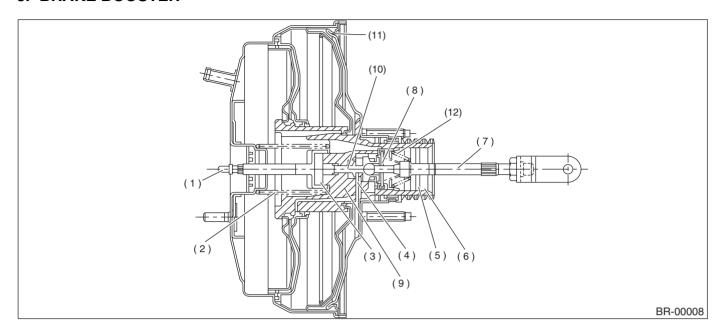
Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 15 (1.5, 10.8)

T2: 18 (1.8, 13.0)

T3: 33 (3.3, 23.8)

5. BRAKE BOOSTER

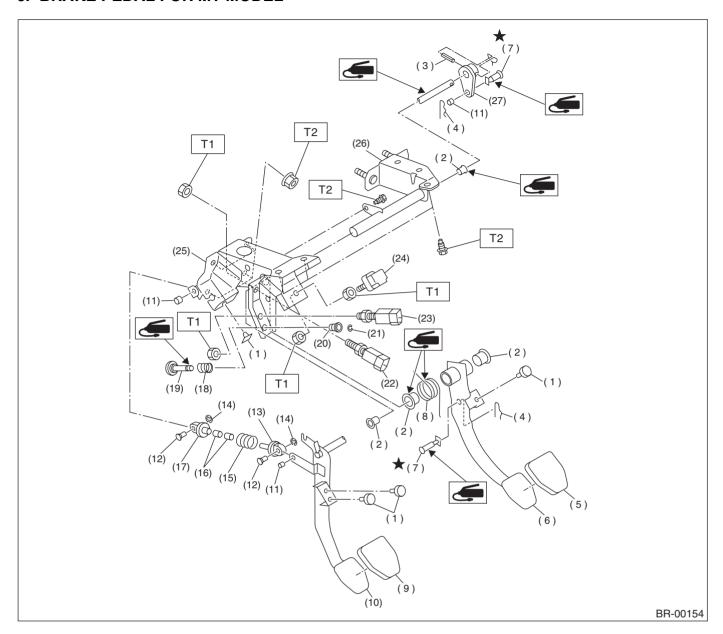


- (1) Push rod
- (2) Return spring
- (3) Reaction disc
- (4) Key

- (5) Filter
- (6) Silencer
- (7) Operating rod
- (8) Poppet valve

- (9) Valve body
- (10) Plunger valve
- (11) Diaphragm plate
- (12) Valve return spring

6. BRAKE PEDAL FOR MT MODEL



- (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 (Starter interlock)

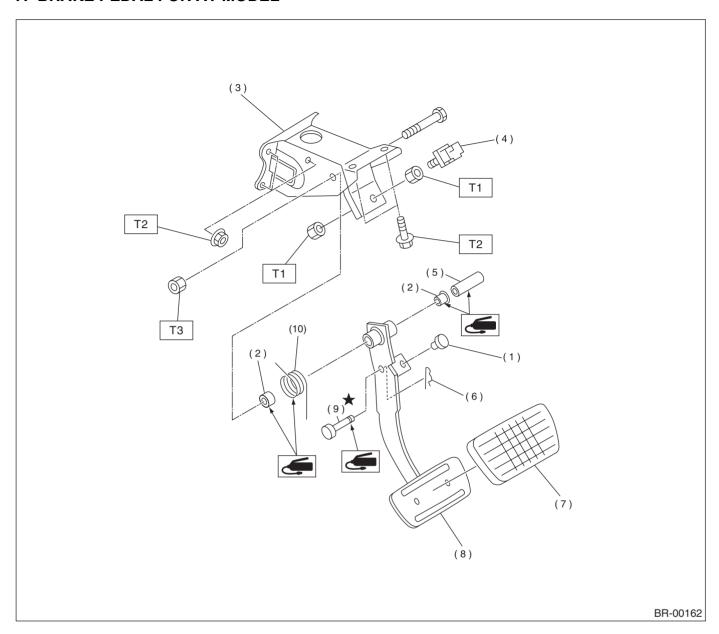
- (23) Clutch switch (With cruise control)
- (24) Stop light switch
- (25) Pedal bracket
- (26) Clutch master cylinder bracket
- (27) Lever

Tightening torque: N·m (kgf-m, ft-lb)

T1: 8 (0.8, 5.8)

T2: 18 (1.8, 13.0)

7. BRAKE PEDAL FOR AT MODEL



- (1) Stopper
- (2) Bushing
- (3) Pedal bracket
- (4) Stop light switch
- (5) Spacer
- (6) Snap pin

- (7) Brake pedal pad
- (8) Brake pedal
- (9) Clevis pin
- (10) 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 revolving 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. GENERAL PURPOSE TOOLS

TOOL NAME	REMARKS
Snap Ring Pliers	Used for removing and installing snap ring.