1. General Description

A: SPECIFICATION

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Model			2.5 i	2.5 i-LTD, OUTBACK 2.5 i, -LTD, OUTBACK 3.0 R, -LTD, -LLB	2.5 GT, -LTD, OUTBACK 2.5 GT	
Front disc brake	Size		15-inch type	16-inch type	17-inch type	
	Туре		Disc (Floating type, ventilated)			
	Effective disc diameter	mm (in)	228 (8.98)	244 (4.61)	261 (10.28)	
	Disc thickness × Outer diameter	mm (in)	24 × 277 (0.94 × 10.91)	24 × 294 (0.94 × 11.57)	30 × 316 (1.18 × 12.44)	
	Effective cylinder diameter		42.8 (1.685) × 2			
	Pad dimensions (length × width × thick- ness)	mm (in)	117.8 × 50.5 × 11.0 (4	130.0 × 53.5 × 11.0 (5.118 × 2.106 × 0.433)		
	Clearance adjustment					
	Size			15-inch type		
	Туре		Disc (Floating type, solid)		Disc (Floating type, ven- tilated)	
	Effective disc diameter	mm (in)	238 (9.37)		254 (10.0)	
Rear disc	Disc thickness × Outer diameter	mm (in)	10 × 274 (0.39 × 10.79)		18 × 290 (0.71 × 11.42)	
brake	Effective cylinder diameter	mm (in)				
	Pad dimensions (length × width × thick- ness)	mm (in)	92.0 × 33.0 × 9.0 (3.622 × 1.299 × 0.354)		82.4 × 33.7 × 9.0 (3.244 × 1.327 × 0.354)	
	Clearance adjustment		Automatic adjustment			
	Туре					
Mastar	Effective diameter	mm (in)	23.8 (15/16)			
Master cylinder	Reservoir type		Sealed type			
oyiii adoi	Brake fluid reservoir capacity	cm ³ (cu in)				
Brake	Туре		Vacuum suspended			
booster Effective diameter mm (in)		208 + 229 (8.19 + 9.02)				
Brake line			Dual circuit system			
Brake fluid CAUTION: • Avoid mixing brake fluid of different brands to prevent fluid performance from degrading. • When filling brake fluid, be careful not to allow any dust into the reservoir. • Use fresh brake fluid when replacing or refilling the fluid.		FMVSS No. 116, DOT3				

NOTE:

Refer to "PB" section for parking brake specifications. <Ref. to PB-2, SPECIFICATION, General Description.>

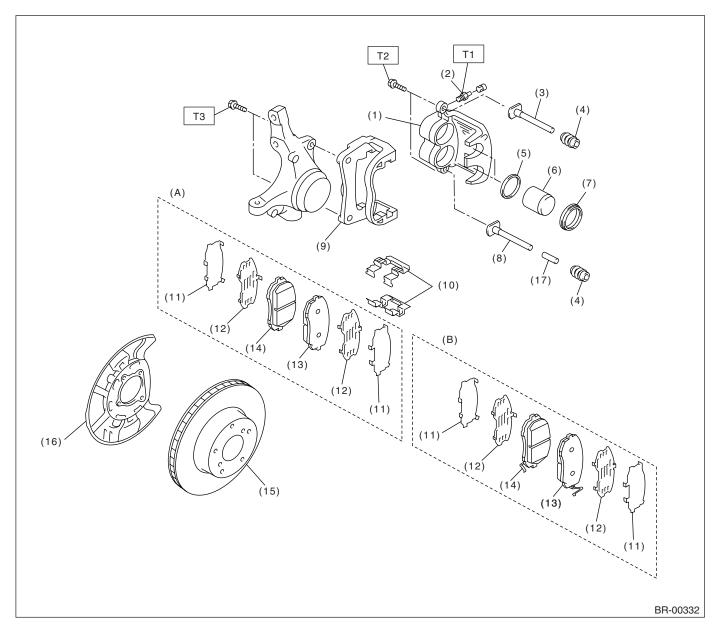
	Item		Standard value	Limit
	Pad thick- mm	Except 17-inch type	11 (0.43)	1.5 (0.059)
	ness (in)	17-inch type	11 (0.43)	1.5 (0.059)
Front brake	Disc thick- mm	Except 17-inch type	24 (0.94)	22 (0.87)
	ness (in)	17-inch type	30 (1.18)	28 (1.10)
	Disc runout	mm (in)	_	0.05 (0.0020)
	Pad thick- mm	Solid disc	9.0 (0.354)	1.5 (0.059)
Dear broke (Dies	ness (in)	Ventilated disc	9.0 (0.354)	1.5 (0.059)
Rear brake (Disc type)	Disc thick- mm	Solid disc	10 (0.39)	8.5 (0.335)
type)	ness (in)	Ventilated disc	18 (0.71)	16 (0.63)
	Disc runout	mm (in)	_	0.05 (0.0020)
	Inside diameter	mm (in)	170 (6.69)	171 (6.73)
Parking brake	Lining thickness	mm (in)	3.2 (0.126)	1.5 (0.059)
	Lever stroke		5 — 6 notches/200 N (20 kgf, 45 lb)	

		Brake pedal force N (kgf, lb)	Fluid pressure kPa (kg/cm², psi)		
			15-inch type	16-inch type	17-inch type
Brake Booster	Brake fluid pressure without engine running	147 (15, 33)	545 (6, 79)		
		294 (30, 66)	1,564 (16, 227)		
	Brake fluid pressure with engine running and vacuum- ing at 66.7 kPa (500 mmHg, 19.69 inHg)	147 (15, 33)	6,003 (61, 871)	5,381 (55, 780)	4,963 (51, 720)
		294 (30, 66)	11,273 (115, 1,635)	10,982 (112, 1,593)	10,055 (103, 1,458)

Brake pedal	Free play	mm (in)	0.5-2 (0.02-0.08) [When pulling the brake pedal upward with a force of less than 10 N (1 kgf, 2 lb).]
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B: COMPONENT

1. FRONT DISK BRAKE



- (A) 15, 16-inch type
- (B) 17-inch type
- (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) Support
- (10) Pad clip
- (11) Outer shim
- (12) Inner shim
- (13) Pad (Outside)
- (14) Pad (Inside)
- (15) Disc rotor

- (16) Disc cover
- (17) Bushing

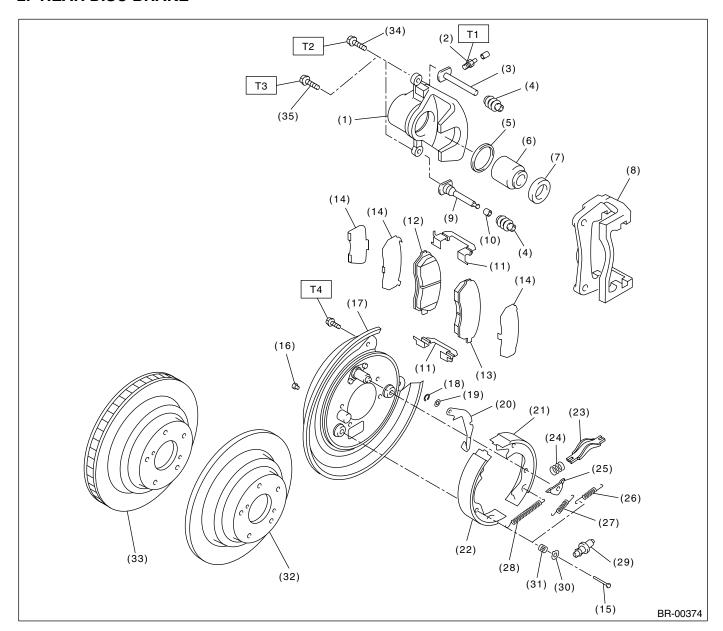
Tightening torque: N·m (kgf-m, ft-lb)

T1: 8 (0.8, 5.8)

T2: 27 (2.8, 19.9)

T3: 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) Support
- (9) Lock pin (Yellow)
- (10) Bushing
- (11) Pad clip
- (12) Inner pad
- (13) Outer pad
- (14) Shim

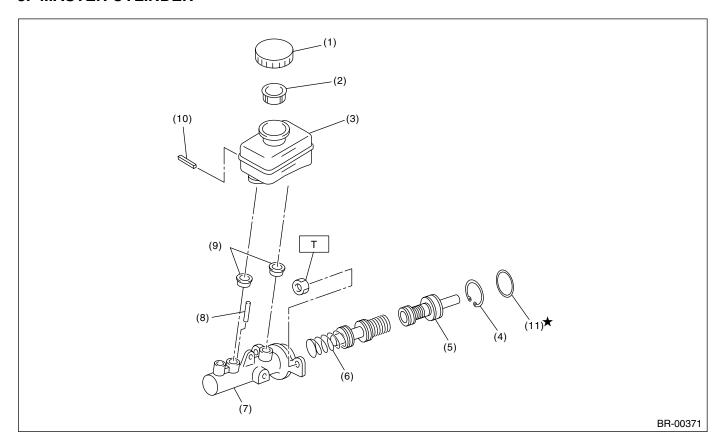
- (15) Shoe hold-down pin
- (16) Cover
- (17) Back plate
- (18) Retainer
- (19) Spring washer
- (20) Parking brake lever
- (21) Parking brake shoe (Secondary)
- (22) Parking brake shoe (Primary)
- (23) Strut
- (24) Strut shoe spring
- (25) Shoe guide plate
- (26) Secondary shoe return spring
- (27) Primary shoe return spring
- (28) Adjusting spring

- (29) Adjuster
- (30) Shoe hold-down cup
- (31) Shoe hold-down spring
- (32) Disc rotor (Solid type)
- (33) Disc rotor (Ventilated type)
- (34) Bolt (For solid disc brake)
- (35) Bolt (For ventilated disc brake)

Tightening torque: N·m (kgf-m, ft-lb)

- T1: 8 (0.8, 5.8)
- T2: 27 (2.8, 19.9)
- T3: 37 (3.7, 27.2)
- T4: 53 (5.4, 39.1)

3. MASTER CYLINDER



- (1) Cap
- (2) Filter
- (3) Reservoir tank
- (4) C-ring
- (5) Primary piston

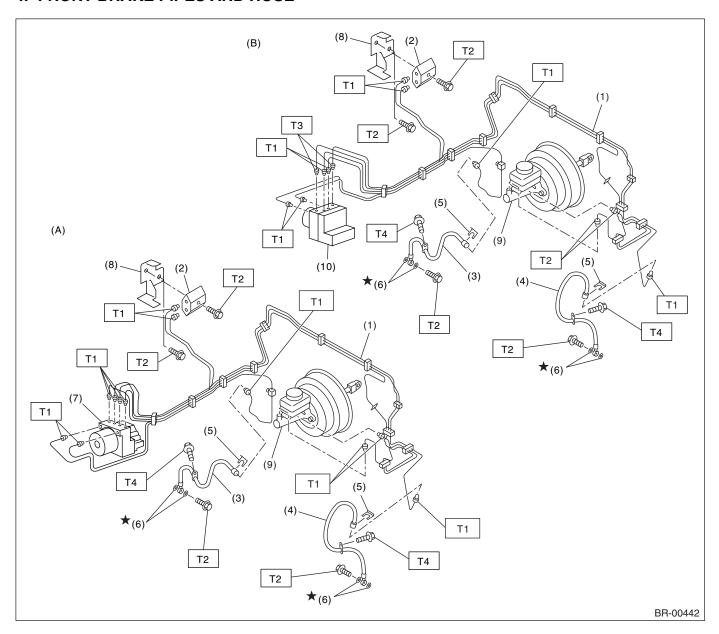
- (6) Secondary piston
- (7) Cylinder body
- (8) Cylinder pin(9) Seal
- (9) Sea (10) Pin

(11) O-ring

Tightening torque: N·m (kgf-m, ft-lb)

T: 13 (1.3, 9.6)

4. FRONT BRAKE PIPES AND HOSE



- (A) Model with ABS
- (B) Model with vehicle dynamics control (VDC)
- (1) Front brake pipe ASSY
- (2) Two-way connector
- (3) Front brake hose RH
- (4) Front brake hose LH

- (5) Clamp
- (6) Gasket
- (7) ABS control module and hydraulic control unit (ABSCM&H/U)
- (8) Bracket
- (9) Master cylinder
- (10) VDC control module & hydraulic control unit (VDCCM&H/U)

Tightening torque: N⋅m (kgf-m, ft-lb)

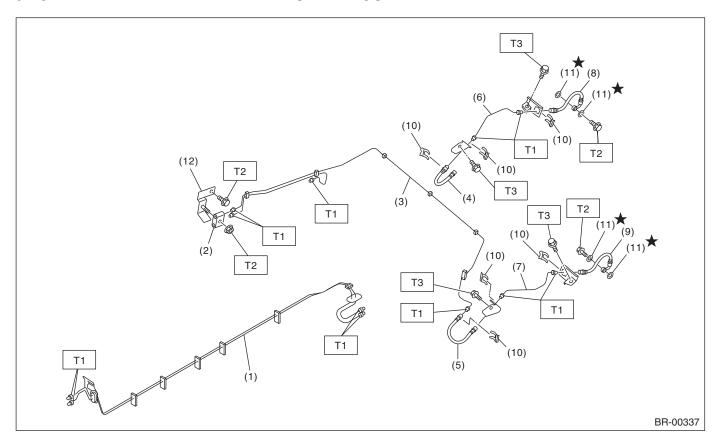
T1: 15 (1.5, 10.8)

T2: 18 (1.8, 13.0)

T3: 19 (1.9, 14.0)

T4: 33 (3.4, 24.3)

5. CENTER AND REAR BRAKE PIPES AND HOSE



- (1) Center brake pipe ASSY
- (2) Two-way connector
- (3) Rear brake pipe ASSY
- (4) Rear brake hose RH
- (5) Rear brake hose LH
- (6) Rear brake pipe RH

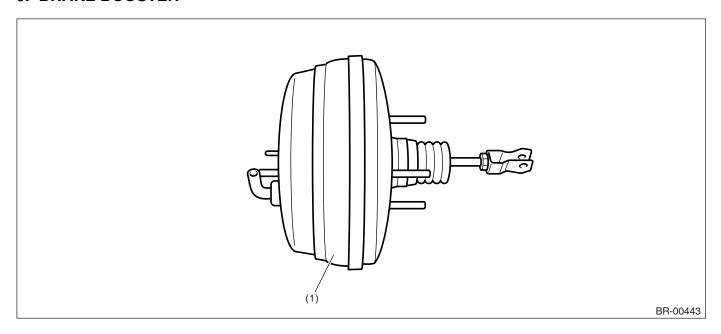
- (7) Rear brake pipe LH
- (8) Rear brake hose rear RH
- (9) Rear brake hose rear LH
- (10) Clamp
- (11) Gasket
- (12) Bracket

Tightening torque: N·m (kgf-m, ft-lb)

T1: 15 (1.5, 10.8) T2: 18 (1.8, 13.0)

T3: 33 (3.4, 24.3)

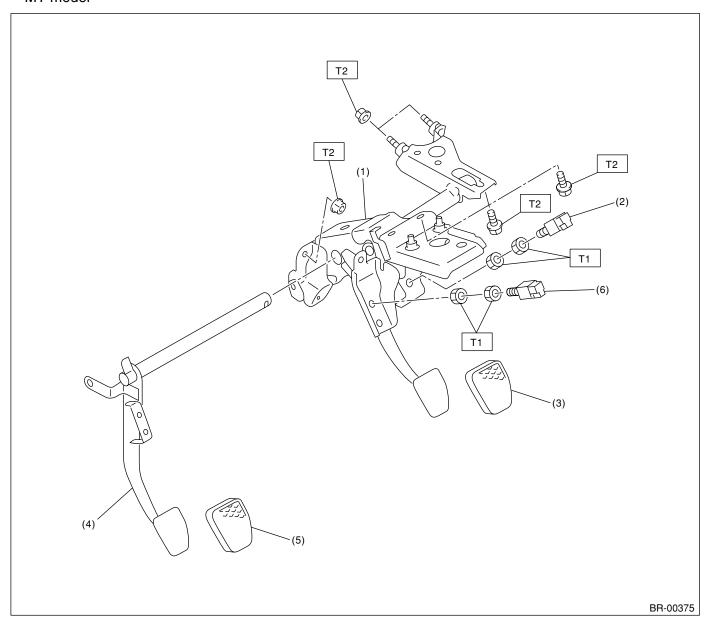
6. BRAKE BOOSTER



(1) Brake booster

7. BRAKE PEDAL

• MT model



- (1) Brake pedal ASSY
- (2) Stop light switch
- (3) Brake pedal pad

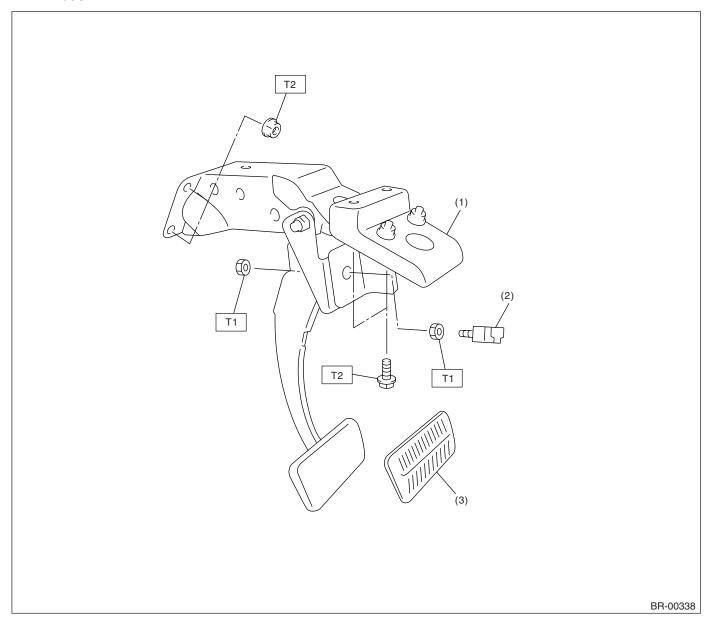
- (4) Clutch pedal
- (5) Clutch pedal pad
- (6) Clutch switch

Tightening torque: N·m (kgf-m, ft-lb)

T1: 8 (0.8, 5.8)

T2: 18 (1.8, 13.0)

AT model



- (1) Brake pedal ASSY
- (2) Stop light switch

(3) Brake pedal pad

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.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly and replacement.
- Use SUBARU genuine grease etc. or equivalent. Do not mix grease, etc. with that of another grade or from other manufacturers.
- 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.

- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or rigid racks at the specified points.

D: PREPARATION TOOL

1. GENERAL TOOL

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