1. General Description

A: SPECIFICATION

Front disc brake	Size		15-inch type	16-inch type	
	Туре		Disc (floating type, ventilated)		
	Effective disc diameter	mm (in)	228 (8.98)	244 (9.61)	
	Disc thickness × Diameter	mm (in)	24 × 277 (0.94 × 10.91)	24 × 294 (0.94 × 11.57)	
	Effective cylinder diameter	mm (in)	42.8 (1.685) × 2	42.8 (1.685) × 2	
	Pad dimensions (Length × Width × Thickness)	mm (in)	117.8 × 50.5 × 11.0 (4.638 × 1.988 × 0.433)	117.8 × 50.5 × 11.0 *4 (4.638 × 1.988 × 0.433)	
	Clearance adjustment		Automatic adjustment		
Rear disc brake	Size		15-inch type		
	Туре		Disc (floating type, solid)		
	Effective disc diameter	mm (in)	238 (238 (9.37)	
	Disc thickness × Diameter	mm (in)	10 × 274 (0.	(0.39 × 10.79)	
	Effective cylinder diameter	mm (in)	38.1 ((1.500)	
	Pad dimensions (Length × Width × Thickness)	mm (in)	92.0 × 33.0 × 9.0 (3.622 × 1.299 × 0.354)		
	Clearance adjustment		Automatic adjustment		
	Туре		Tandem		
Master	Effective diameter	mm (in)	23.8 (15/16)		
cylinder	Reservoir type		Sealed type		
	Brake fluid reservoir capacity	cm3 (cu in)	240 (14.64)		
Brake	Туре		Vacuum suspended		
booster	Effective diameter	mm (in)	208 + 229 (8.19 + 9.02)		
Brake line			Dual circu	uit system	
			FMVSS No. 116,	, DOT3, or DOT4	
Brake fluid			 CAUTION: Avoid mixing brake fluid of different brands to prevent fluid performance from degrading. When filling with brake fluid, be careful not to allow any dust to enter the reservoir. Use new SUBARU genuine brake fluid when replacing or refilling the fluid. 		

NOTE:

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

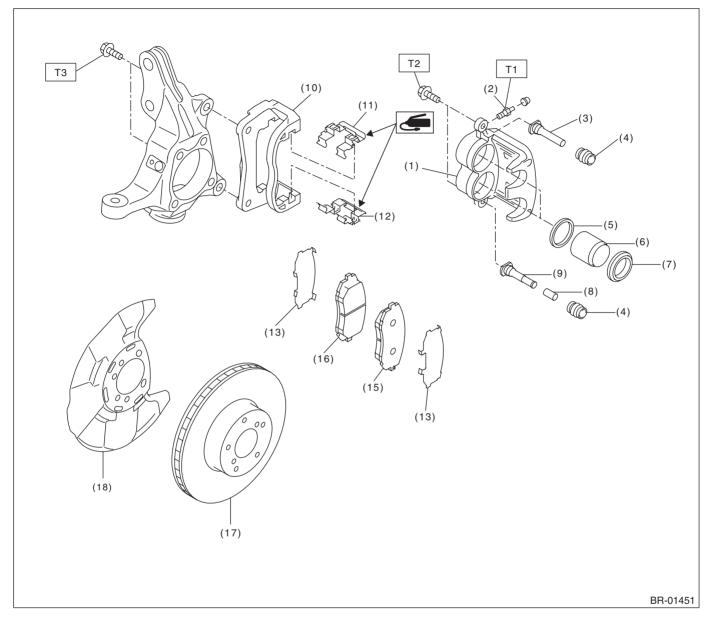
Item		Standard	Limit	
Front brake	Pad thickness	All models mm (in)	11 (0.43)	1.5 (0.059)
	Disc thickness	All models mm (in)	24 (0.94)	22 (0.87)
	Disc runout	mm (in)	_	0.05 (0.0020)
	Pad thickness mm (in)	Solid disc	9.0 (0.354)	1.5 (0.059)
Rear brake (disc type)	Disc thickness mm (in)	Solid disc	10 (0.39)	8.5 (0.335)
	Disc runout	mm (in)	_	0.05 (0.0020)
Parking brake	Inside diameter	mm (in)	170 (6.69)	171 (6.73)
	Lining thickness	mm (in)	3.5 (0.14)	1.5 (0.059)

		Brake pedal force N (kgf, lbf)	Fluid pressure kPa (kgf/cm ² , psi)
Brake booster	Drake fluid pressure with engine stepped	147 (15, 33)	533 (5, 77)
	Brake fluid pressure with engine stopped	294 (30, 66)	1,551 (16, 225)
	Brake fluid pressure with engine running and vacuum pressure at 66.7 kPa (500 mmHg, 19.69 inHg)	147 (15, 33)	6,177 (63, 896)
		294 (30, 66)	11,273 (115, 1,635)

Brake pedal Free play mm	(in) 0.5 — 2.7 (0.02 — 0.11) [When pulling the brake pedal upward with a force of less than 10 N (1 kgf, 2 lbf)]
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B: COMPONENT

1. FRONT DISC BRAKE



- (1) Caliper body
- (2) Bleeder screw
- (3) Guide pin front brake (black)
- (4) Pin boot
- (5) Piston seal
- (6) Piston disc brake
- (7) Piston boot
- (8) Lock pin sleeve

- (9) Lock pin front brake (silver)
- (10) Support front disc brake
- (11) Pad clip upper
- (12) Pad clip lower
- (13) Shim disc brake front
- (14) Pad disc brake front outer
- (15) Pad disc brake front inner
- (16) Disc rotor
- (17) Back plate front brake

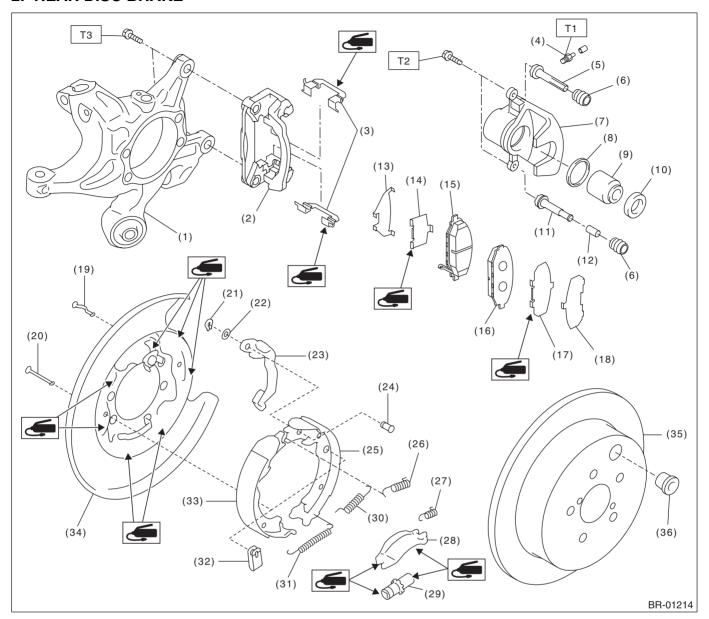
Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 8 (0.82, 5.9)

T2: 27 (2.75, 19.9)

T3: 80 (8.16, 59)

2. REAR DISC BRAKE



- (1) Housing ASSY rear axle
- (2) Support rear disc brake
- (3) Pad clip rear brake
- (4) Bleeder screw
- (5) Guide pin rear brake (black)
- (6) Pin boot
- (7) Caliper body
- (8) Piston seal
- (9) Piston disc brake
- (10) Piston boot
- (11) Lock pin rear brake (silver)
- (12) Lock pin sleeve
- (13) Shim disc brake rear outer
- (14) Shim disc brake rear inner

- (15) Pad disc brake rear inner
- (16) Pad disc brake rear outer
- (17) Shim disc brake rear inner
- (18) Shim disc brake rear outer
- (19) Pin secondary shoe hold-down
- (20) Pin primary shoe hold-down
- (21) Retainer rear brake
- (22) Spring washer rear brake
- (23) Parking lever rear
- (24) Pin parking lever
- (25) Parking brake shoe (secondary)
- (26) Spring secondary shoe return
- (27) Spring strut
- (28) Strut brake

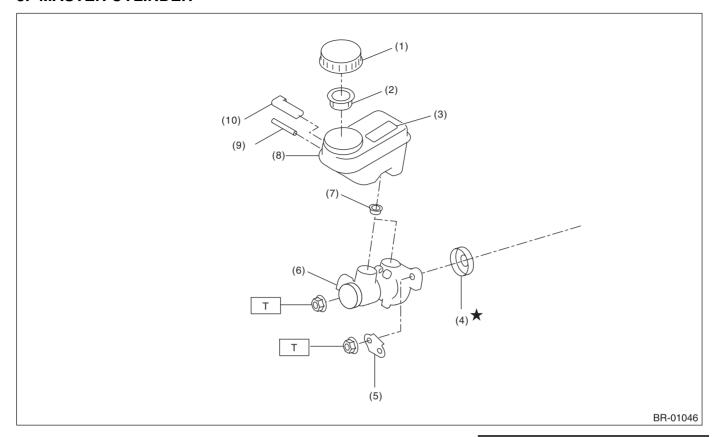
- (29) Adjuster ASSY rear brake
- (30) Spring primary shoe return
- (31) Spring adjuster
- (32) Cup shoe hold-down
- (33) Parking brake shoe (primary)
- (34) Back plate rear brake
- (35) Disc rotor (solid type)
- (36) Adjusting hole cover
- Tightening torque: N·m (kgf-m, ft-lb)

T1: 8 (0.82, 5.9)

T2: 27 (2.75, 19.9)

T3: 66 (6.73, 48.7)

3. MASTER CYLINDER

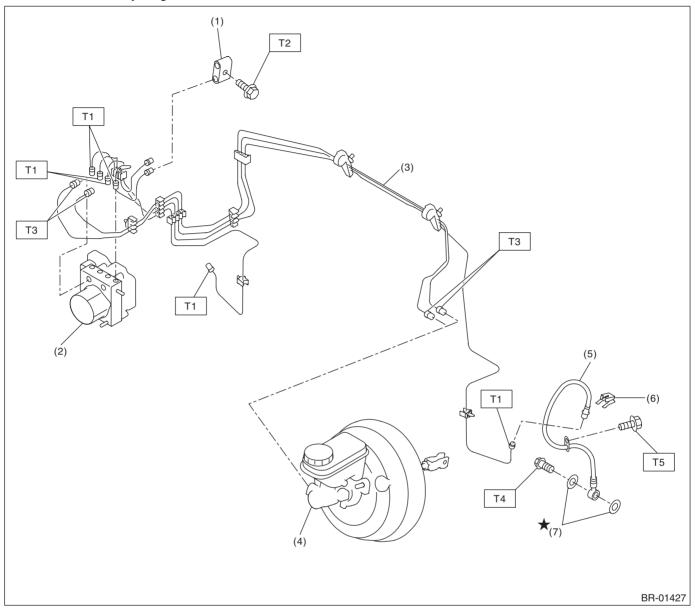


- (1) Cap reservoir tank
- (2) Filter master cylinder
- (3) Caution label (model with caution label)
- (4) Seal sub ASSY
- (5) Bracket master cylinder
- (6) Cylinder body ASSY
- (7) Sea
- (8) Reservoir tank
- (9) Pin
- (10) Level indicator

Tightening torque: N⋅m (kgf-m, ft-lb)
T: 13 (1.33, 9.6)

4. FRONT BRAKE PIPES AND HOSES

• Models without EyeSight



- (1) Connector two-way
- (2) VDC control module and hydraulic control unit (VDCCM&H/U)
- (3) Front brake pipe ASSY
- (4) Master cylinder ASSY
- (5) Front brake hose RH/LH
- (6) Clamp
- (7) Gasket

Tightening torque: N·m (kgf-m, ft-lb)

T1: 15 (1.53, 11.1)

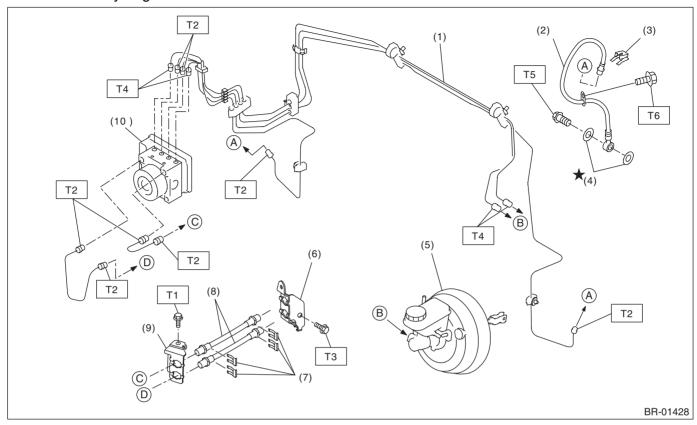
T2: 18 (1.84, 13.3)

T3: 19 (1.94, 14.0)

T4: 26 (2.65, 19.2)

T5: 33 (3.36, 24.3)

· Models with EyeSight



- (1) Front brake pipe ASSY
- (2) Front brake hose RH/LH
- (3) Clamp
- (4) Gasket
- (5) Master cylinder ASSY
- (6) Bracket

- (7) Clamp
- (8) Brake hose ASSY
- (9) Bracket
- (10) VDC control module and hydraulic control unit (VDCCM&H/U)

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 7.5 (0.76, 5.5)

T2: 15 (1.53, 11.1)

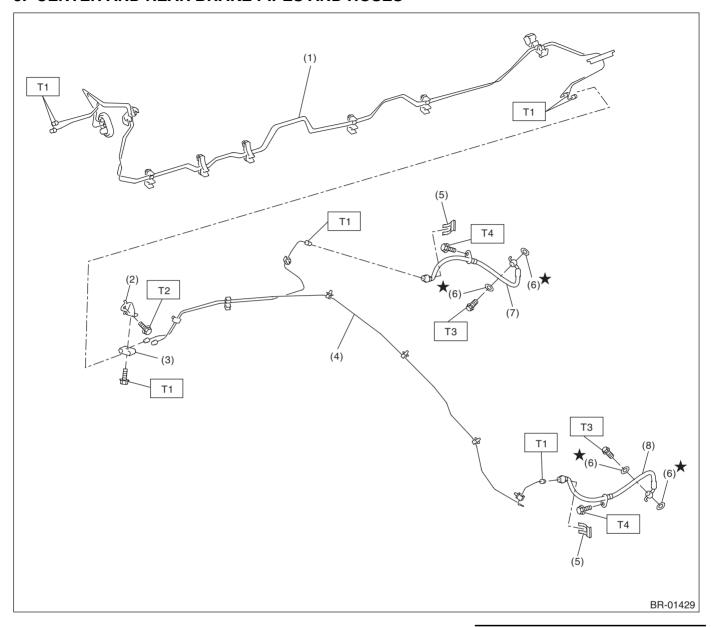
T3: 18 (1.84, 13.3)

T4: 19 (1.94, 14.0)

T5: 26 (2.65, 19.2)

T6: 33 (3.36, 24.3)

5. CENTER AND REAR BRAKE PIPES AND HOSES



- (1) Center brake pipe ASSY
- (2) Bracket
- (3) Connector
- (4) Rear brake pipe ASSY
- (5) Clamp
- (6) Gasket
- (7) Rear brake hose RH
- (8) Rear brake hose LH

Tightening torque: N⋅m (kgf-m, ft-lb)

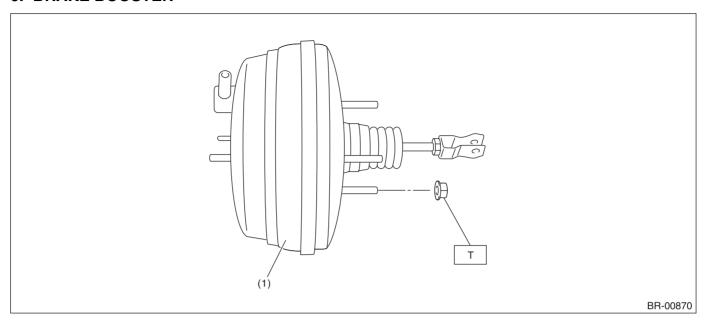
T1: 15 (1.53, 11.1)

T2: 18 (1.84, 13.3)

T3: 26 (2.65, 19.2)

T4: 33 (3.4, 24.3)

6. BRAKE BOOSTER

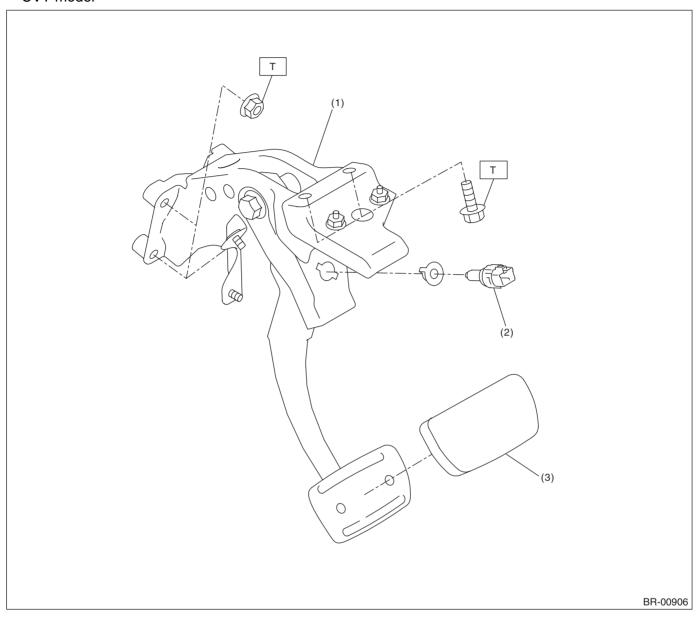


(1) Vacuum booster ASSY

Tightening torque: N·m (kgf-m, ft-lb)
T: 18 (1.84, 13.3)

7. BRAKE PEDAL

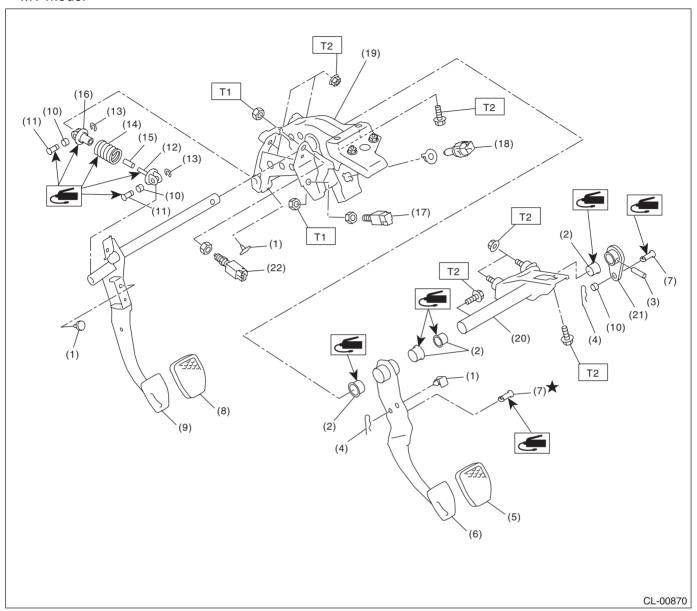
CVT model



- (1) Brake pedal ASSY
- (2) Switch stop light
- (3) Pad brake pedal

Tightening torque: N⋅m (kgf-m, ft-lb)
T: 18 (1.84, 13.3)

MT model



- (1) Stopper
- (2) Bushing
- (3) Spring pin
- (4) Snap pin
- (5) Pad brake pedal
- (6) Brake pedal
- (7) Clevis pin
- (8) Pad clutch pedal
- (9) Clutch pedal

- (10) Bushing C
- (11) Clutch clevis pin
- (12) Assist rod A
- (13) Clip
- (14) Assist spring
- (15) Assist bushing
- (16) Assist rod B
- (17) Clutch switch
- (18) Switch stop light

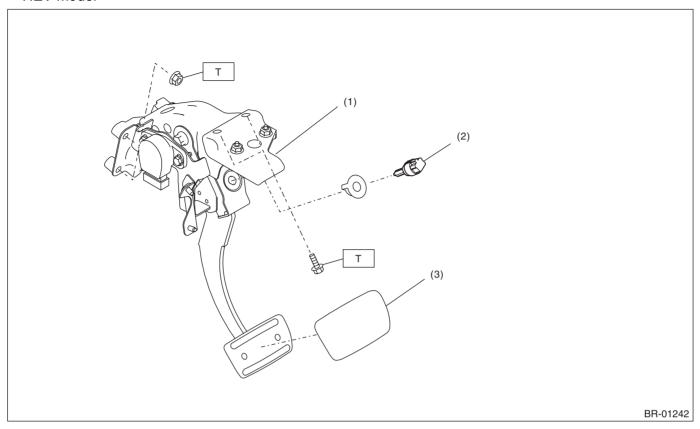
- (19) Pedal bracket
- (20) Clutch master cylinder bracket
- (21) Lever
- (22) Clutch start switch

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 8 (0.82, 5.9)

T2: 18 (1.84, 13.3)

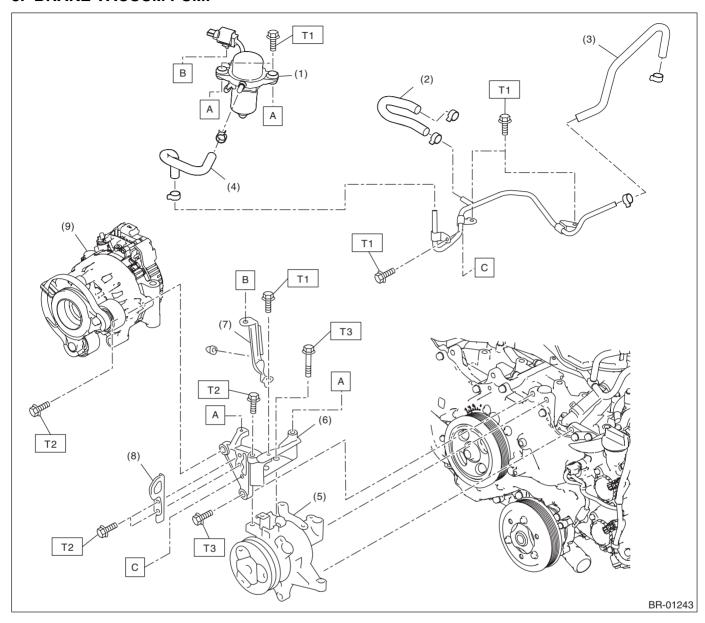
HEV model



- (1) Brake pedal ASSY
- (2) Switch stop light
- (3) Pad brake pedal

Tightening torque: N·m (kgf-m, ft-lb)
T: 18 (1.84, 13.3)

8. BRAKE VACUUM PUMP



- (1) Vacuum pump ASSY
- (2) Vacuum hose COMPL A
- (3) Vacuum hose COMPL B
- (4) Vacuum hose COMPL C
- (5) Compressor ASSY

- (6) Bracket COMPL vacuum pump
- (7) Bracket vacuum pump connector
- (8) Hanger engine front
- (9) Integrated starter generator

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 6.4 (0.65, 4.7)

T2: 18 (1.84, 13.3)

T3: 36 (3.67, 26.6)

C: CAUTION

- Wear appropriate work clothing, including a helmet, protective goggles and protective shoes when performing any work.
- 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. of different grades or manufacturers.
- Before securing a part on a vise, place cushioning material such as wood blocks, aluminum plate, or cloth between the part and the vise.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or rigid racks at the specified points.