

SERVICE INFORMATION

GENERAL

⚠ CAUTION

Frequent inhalation of brake pad and brake shoe dust, regardless of material composition, could be hazardous to your health.

- Avoid breathing dust particles.
- Never use an air hose or brush to clean brake assemblies. Use and OSHA-approved vacuum cleaner.

NOTICE

Spilled brake fluid will severely damage instrument lenses and painted surfaces. It is also harmful to some rubber parts. Be careful whenever you remove the reservoir cap; make sure the master cylinder reservoir is horizontal first.

- A contaminated brake disc or pad, brake drum or shoe reduces stopping power. Discard contaminated pads, shoes and clean a contaminated disc, drum with high quality brake degreasing agent.
- Check the brake system by applying the brake levers after the air bleeding.
- Never allow contaminants (dirt, water, etc.) to get into an open reservoir.
- Once the hydraulic system has been opened, or if the brake feels spongy, the system must be bled.
- Always use fresh DOT 3 or DOT 4 brake fluid from a sealed container when servicing the system. Do not mix different types of fluid, they may not be compatible.
- Always check brake operation before riding the scooter.

SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Front disc brake	Specified brake fluid	DOT 3 or DOT 4	–
	Brake disc thickness	3.3 – 3.7 (0.13 – 0.15)	3.0 (0.12)
	Brake disc warpage	–	0.30 (0.012)
	Master cylinder I.D.	12.700 – 12.743 (0.5000 – 0.5017)	12.755 (0.5022)
	Master piston O.D.	12.657 – 12.684 (0.4983 – 0.4994)	12.645 (0.4978)
	Caliper cylinder I.D.	27.000 – 27.050 (1.0630 – 1.0650)	27.060 (1.0654)
Rear drum brake	Caliper piston O.D.	26.918 – 26.968 (1.0598 – 1.0617)	26.910 (1.0594)
	Brake lever freeplay	10 – 20 (0.4 – 0.8)	–
	Brake drum I.D.	130.0 – 130.2 (5.12 – 5.13)	131.0 (5.16)

TORQUE VALUES

Brake caliper bleed valve	5.4 N·m (0.55 kgf·m, 4.0 lbf·ft)	
Master cylinder reservoir cap screw	1.5 N·m (0.15 kgf·m, 1.1 lbf·ft)	
Brake caliper mounting bolt	30 N·m (3.1 kgf·m, 22 lbf·ft)	ALOC bolt; replace with a new one.
Brake pad pin	17.2 N·m (1.8 kgf·m, 13 lbf·ft)	
Brake pad pin plug	2.4 N·m (0.25 kgf·m, 1.8 lbf·ft)	
Front brake light switch screw	1.2 N·m (0.12 kgf·m, 0.9 lbf·ft)	
Front brake lever pivot screw	1.0 N·m (0.10 kgf·m, 0.7 lbf·ft)	
Front brake lever pivot nut	5.9 N·m (0.60 kgf·m, 4.4 lbf·ft)	
Brake master cylinder holder bolt	12 N·m (1.2 kgf·m, 9 lbf·ft)	
Brake hose oil bolt	34 N·m (3.5 kgf·m, 25 lbf·ft)	
Equalizer connecting cable lock nut	6.4 N·m (0.65 kgf·m, 4.7 lbf·ft)	
Rear brake lever pivot screw	1.0 N·m (0.10 kgf·m, 0.7 lbf·ft)	
Rear brake lever pivot nut	4.5 N·m (0.46 kgf·m, 3.3 lbf·ft)	U-nut.
Equalizer rod pivot screw	1.0 N·m (0.10 kgf·m, 0.7 lbf·ft)	
Equalizer rod pivot nut	4.5 N·m (0.46 kgf·m, 3.3 lbf·ft)	U-nut.
Equalizer bracket cover screw	4.2 N·m (0.43 kgf·m, 3.1 lbf·ft)	
Equalizer bracket cover special screw	4.2 N·m (0.43 kgf·m, 3.1 lbf·ft)	U-nut.
Rear brake arm bolt	10 N·m (1.0 kgf·m, 7 lbf·ft)	ALOC bolt; replace with a new one.