

# 15. HYDRAULIC BRAKE

SERVICE INFORMATION	15-1	FRONT MASTER CYLINDER	15-7
TROUBLESHOOTING	15-2	REAR MASTER CYLINDER/ BRAKE PEDAL	15-12
BRAKE FLUID REPLACEMENT/ AIR BLEEDING	15-3	FRONT BRAKE CALIPER	15-16
BRAKE PAD/DISC	15-5	REAR BRAKE CALIPER	15-19

## SERVICE INFORMATION

### GENERAL

#### ⚠WARNING

*A contaminated brake disc or pad reduces stopping power. Discard contaminated pads and clean a contaminated disc with a high quality brake degreasing agent.*

- Spilled brake fluid will severely damage the plastic parts and painted surfaces. It is also harmful to some rubber parts. Be careful whenever you remove the reservoir cap; make sure the reservoir is horizontal first.
- 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 4 brake fluid from a sealed container when servicing the system. Do not mix different types of fluid as they may not be compatible.
- Always check brake operation before riding the motorcycle.
- A hoist or equivalent is required to support the motorcycle when servicing the rear master cylinder.

### SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT	
Front	Specified brake fluid	DOT 4	_____	
	Brake disc thickness	4.4–4.6 (0.17–0.18)	3.5 (0.14)	
	Brake disc runout	_____	0.30 (0.012)	
	Master cylinder I. D.	14.000–14.043 (0.5512–0.5529)	14.055 (0.5533)	
	Master piston O. D.	13.957–13.984 (0.5495–0.5506)	13.945 (0.5490)	
	Caliper cylinder I. D.	A	30.23–30.28 (1.190–1.192)	30.29 (1.193)
		B	27.000–27.050 (1.0630–1.0650)	27.060 (1.0654)
	Caliper piston O. D.	A	30.148–30.198 (1.1869–1.1889)	30.14 (1.187)
B		26.918–26.968 (1.0598–1.0617)	26.91 (1.059)	
Rear	Specified brake fluid	DOT 4	_____	
	Brake disc thickness	4.8–5.2 (0.19–0.20)	4.0 (0.16)	
	Brake disc runout	_____	0.30 (0.012)	
	Master cylinder I. D.	14.000–14.043 (0.5512–0.5529)	14.055 (0.5533)	
	Master piston O. D.	13.957–13.984 (0.5495–0.5506)	13.945 (0.5490)	
	Caliper cylinder I. D.	38.18–38.23 (1.503–1.505)	38.24 (1.506)	
	Caliper piston O. D.	38.098–38.148 (1.4999–1.5019)	38.09 (1.500)	