

General Specifications

Engine	
Engine Type	4-stroke, V-type, 2-cylinder, SOHC, Liquid cooled, 8-valve, Counterbalancer
Displacement	805 cc
Bore x Stroke	88.0 x 66.2 mm
Compression Ratio	9.5:1
Maximum Torque	6.6 kgf-m @ 3,500 rpm
Carburetor	Keihin CVK36
Ignition System	TCBI with Digital Advance
Ignition Advance	Electronic
Crankshaft Rotation	Clockwise from RH side
Cylinder Material	Aluminum alloy with ferrous sleeves
Fuel	Min 91 Research/87 Avg. Oct. Unleaded OK
Coolant	50% distilled water /50% ethylene glycol base antifreeze.
—Capacity	2.4 liter
—Level	Level with radiator filler neck.

Transmission	
Clutch Type	Wet, Multi-disc, Manual
Transmission	5-speed, Constant mesh, Return shift
Shift Pattern(Bottom up)	1-N-2-3-4-5 (w/Neutral Finder)
Gear Ratios	2.53 (38/15)
—1st	1.65 (33/20)
—2nd	1.23 (32/26)
—3rd	1.00 (29/29)
—4th	0.86 (24/28)
—5th	2.184 (83/38)
Primary Ratio	4.625
Overall Ratio (Top Gear)	

Chassis	
Wheelbase	1,600 mm
Seat Height	705 mm
Ground Clearance	135 mm
Dry Weight	234 kg (US) 234.5 kg (CA)
Curb Weight	253 kg (US) 253.5 kg (CA)
Max Recom Load	180 kg
Fuel Tank Capacity	15 liter
Tire Size	—Front 130/90-16 BS
—Rear	140/90-16 BS
Brake Type	—Front Single Hydraulic Disc
—Rear	Mechanical Drum (Leading/Trailing)
Brake Size	—Front 272 mm Effective Diameter
—Rear	180 x 40 Effective Diameter
Wheel Travel	—Front 5.9 in.
—Rear	3.9 in.

Model Identification

Year & Model	'99 VN800-B4:VULCAN 800 CLASSIC
Colors	① KMM Metallic Dark Bronze/Candy Cardinal Red (U2) ② KMM Ebony/Pearl Chateau Gray (VL) ③ Ebony/Pearl Chateau Gray (TT) ④ Ebony/Pearl Ivory (U4) ⑤ Metallic Dark Bronze/Candy Cardinal Red (U3)
VIN Range	JKBVNCB1✓XB502701 ~ 506100 (USA Mfg) JKBVNCB1✓XA075001 ~ 083000 (Japan Mfg)
Engine No. Range	VN800AE000001 — ?
Engine No. Location	RH top crankcase, below carburetor

Tuning Specifications

Engine	
Valve Clearance	Intake: 0.10 ~ 0.15 mm Exhaust: 0.20 ~ 0.25 mm
—Adjustment Method	Measure between rocker arm and shim
Compression Pressure	176 psi
Spark Plug	NGK CR7E
—Gap	.7-.8 mm
Ignition Timing	—Idle 5.0 BTDC @ 1,000 RPM
—Full	37.5 BTDC @ 6,750 RPM
Pilot Screw	Sealed—not adjustable
Idle Speed	1100 ±50 rpm
Engine Oil	SE Class SAE 10W40, 10W50, 20W40, 20W50
—w/Filter Change	2.9 L
—Level	On center stand, wait 5 min, middle of window

Chassis	
Fork Oil	SAE 10W
—Capacity	340 cc
Tire Pressure (Cold)	
—Front	29 psi
—Rear (Normal)	29 psi