

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 AT 3,500 rpm
Carburetor	Keihin CVK36
Ignition System	TCBI
Ignition Advance	Digital
Crankshaft Rotation	Clockwise from RH side
Firing Interval/Order	55°
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 L
—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	—1st 2.53 (38/15)
—2nd	1.65 (33/20)
—3rd	1.23 (32/26)
—4th	1.00 (29/29)
—5th	0.86 (24/28)
Primary Ratio	2.184 (83/38)
Final Drive Ratio	2.47 (42/17)
Overall Ratio (Top Gear)	4.63
Chassis	
Wheelbase	1,625 mm
Seat Height	710 mm
Ground Clearance	160 mm
Dry Weight	225 kg (US) 225.5 kg (CA)
Curb Weight	244 kg (US) 244.5 kg (CA)
Max Recom Load	180 kg
Fuel Tank Capacity	15 L
Tire Size	—Front 80/90-21 48H 4PR Tubeless
—Rear	140/90-16 71H Tubeless
Brake Type	—Front Single Hydraulic Disc
—Rear	Mechanical Drum
Brake Size	—Front 266 mm Effective Diameter
—Rear	180 mm Effective Diameter
Wheel Travel	—Front 5.9 in.
—Rear	3.9 in.

Model Identification	
Year & Model	'05 VN800-A11:VULCAN 800
Colors	① KMM Candy Thunder Blue (386)
VIN Range	JKBVNCA1✓5B513701 ~
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 3.2 L
	—No 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	29 psi