

General Specifications	
Engine	
Engine Type	4-stroke, V-type, 2-cylinder, DOHC, Liquid cooled, 8-valve, Counterbalancer
Displacement	749 cc
Bore x Stroke	84.9 x 66.2 mm
Compression Ratio	10.3:1
Carburetor	Keihin CVK34(2) Constant velocity, Diaphragm-type
Ignition System	12 V Battery & Coil, Transistorized Breakerless
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	1.5 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 2.25 (36/16)
	—2nd 1.60 (32/20)
	—3rd 1.23 (32/26)
	—4th 1.00 (26/26)
	—5th 0.86 (24/28)
Primary Ratio	2.43 (83/35)
Final Ratio	2.52 (15/22 x 37/10)
Overall Ratio (Top Gear)	5.25
Chassis	
Wheelbase	1580 mm (62.2 in.)
Seat Height	735 mm (28.9 in.)
Ground Clearance	150 mm (5.9 in.)
Dry Weight	219 kg (483 lb.) (US), 219.5 kg (484 lb.) (CA)
Curb Weight	236 kg (520 lb.) (US) , 236.5 kg (522 lb.) (CA)
Max Recom Load	180 kg (397 lb.)
Fuel Tank Capacity	13.5 L (3.6 gal.)
Tire Size	—Front 100/90-19 57H 4PR Tubeless
	—Rear 150/90-15 74H Tubeless
Brake Type	—Front Dual Hydraulic Disc
	—Rear Mechanical Drum (Leading/Trailing)
Brake Size	—Front 226 mm Effective Diameter
	—Rear 180 x 40 Effective Diameter
Wheel Travel	—Front 150 mm
	—Rear 90 mm

Model Identification	
Year & Model	'06 VN750A6F: VULCAN 750
Colors	KMM Ebony / Candy Persimmon Red (395)
VIN Range	JKAVNDA1✓ 6B556000 ~
Engine No. Range	VN750AE017201 —
Engine No. Location	RH top crankcase, below carburetor
Tuning Specifications	
Engine	
Valve Clearance	HLA
—Adjustment Method	Automatic lash adjusters (hydraulic)
Compression Pressure	185 psi
Spark Plug	NGK DP7EA-9 or ND X22EP-U9 (USA,CA))
	NGK DPR7EA-9 or ND X22EPR-U9 (Canada)
	—Gap
	.8-.9 mm
Ignition Timing	—Idle
	5° BTDC (“F” mark) at 1,100 rpm
	—Full
	25° BTDC (in double marks) at 3,500 rpm
Pilot Screw	Sealed—not adjustable
Idle Speed	1100 ±50 rpm
Engine Oil	SE Class SAE 10W40, 10W50, 20W40, 20W50
	—w/Filter Change
	4.0 L
	—No Filter Change
	3.5 L
	—Level
	On center stand, wait 5 min, middle of window
Chassis	
Fork Oil	SAE 5W20
	—Capacity
	368.5-373.5 cc dry
Fork Air Pressure (Cold)	0.0 kg/cm2, max 2.5 kg/cm2
Tire Pressure (Cold)	
	—Front
	29 psi
	—Rear (Normal)
	29 psi
	—Rear (Heavy)
	33 psi
Final Gear Case Oil	
	API GL-5 SAE 90
	API GL-5 SAE 80
	—Capacity
	0.2 L
	—Level
	Mcy vertical, to bottom thread of filler cap hole