

General Specifications	
Engine	
Engine Type	4-stroke, Inline, 2-cylinder, DOHC, Liquid cooled, 8-Valve, Counterbalancer
Displacement	498 cc
Bore x Stroke	74.0 x 58.0 mm
Compression Ratio	10.2:1
Carburetor	Keihin CVK32(2) Constant velocity, Diaphragm-type
Ignition System	12 V Battery & Coil, Transistorized Breakerless
Ignition Advance	Electronic
Crankshaft Rotation	Clockwise from RH side
Firing Interval/Order	180°
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	1.3 L
—Level	Level with radiator filler neck.
Transmission	
Clutch Type	Wet, Multi-disc, Manual
Transmission	6-speed, Constant mesh, Return shift
Shift Pattern (Bottom up)	1-N-2-3-4-5-6 (w/Neutral Finder)
Gear Ratios	—1st 2.57 (36/14)
—2nd	1.72 (31/18)
—3rd	1.33 (28/21)
—4th	1.25 (27/24)
—5th	0.96 (25/26)
—6th	0.85 (23/27)
Primary Ratio	2.65 (61/23)
Final Ratio	2.63 (42/16)
Overall Ratio (Top Gear)	5.93
Chassis	
Wheelbase	1595 mm (62.8 in.)
Seat Height	715 mm (28.1 in.)
Ground Clearance	120 mm (4.7 in.)
Dry Weight	199 kg (US,CN) (439 lb.), 199.5 kg (CA) (440 lb.)
Curb Weight	214 kg (US,CN) (472 lb.), 214.5 kg (CA) (473 lb.)
Max Recom Load	399 lb.
Fuel Tank Capacity	15.0 L (4.0 gal.)
Tire Size	—Front 100/90-19 Tubeless
—Rear	140/90-15 Tubeless
Brake Type	—Front Single Hydraulic Disc
—Rear	Mechanical Drum (Leading/Trailing)
Wheel Travel	—Front 150 mm (5.9 in.)
—Rear	100 mm (3.9 in.)
Suspension Type	—Front Telescopic Fork
—Rear	Swingarm Oil Shock

Model Identification	
Year & Model	'06 EN500C6F:VULCAN 500 LTD
Colors	1. New Candy Red (816)
VIN Range	JKAENVC1✓6A196001-
Engine No. Range	EX500AE018001 —
Engine No. Location	RH top crankcase, below carburetor
Tuning Specifications	
Engine	
Valve Clearance (cold)	Intake: 0.13-0.18 mm
	Exhaust: 0.18-0.23 mm
— Adjustment Method	Rocker arm screw
Compression Pressure	199 psi
Spark Plug	NGK DR9EA or ND X27ESR-U (USA)
	NGK DR8EA or ND X24ES-U (Canada)
— Gap	0.6-0.7 mm
Ignition Timing	— Idle 10° @ 1,300 rpm
— Full	35° @ 8,000 rpm
Pilot Screw	Sealed — not adjustable
Idle Speed	1,200 ±100 rpm
Engine Oil	SE Class SAE 10W40, 10W50, 20W40, 20W50
— w/Filter Change	3.0 L
— No Filter Change	2.8 L
— Level	On center stand, wait 5 min, middle of window
Chassis	
Fork Oil	SAE 10W20
— Capacity	507 ± 2mm
Fork Air Pressure (cold)	0.0 kg/cm², max 2.5 kg/cm²
Tire Pressure (cold)	
— Front	2.0 kg/cm² (28 psi)
— Rear (Normal)	2.0 kg/cm² (28 psi) - 2.25 kg/cm² (32 psi)
Drive Belt Tension	7.5 — 16.5 mm deflection (on center stand, apply 4.5 kg of force midway between sprockets)