

General Specifications	
Engine	
Engine Type	4-stroke, Inline, 2-cylinder, DOHC, Liquid cooled, 8-Valve
Displacement	498 cc
Bore x Stroke	74.0 x 58.0 mm
Compression Ratio	10.8:1
Maximum Torque	4.7 kg-m at 8,500 rpm
Carburetor	Keihin CVK34 (2) Constant velocity, Diaphragm-type
Ignition System	12 V Battery & Coil, Transistorized Breakerless
Ignition Advance	Electronic
Crankshaft Rotation	Clockwise from ignition (RH side)
Cylinder Number Method	Left to Right: 1-2
Firing Interval/Order	188°
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	1.8 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	2.57 (36/14)
—1st	
—2nd	1.78 (32/18)
—3rd	1.38 (29/21)
—4th	1.13 (27/24)
—5th	0.96 (25/26)
—6th	0.85 (23/27)
Primary Ratio	2.65 (27/23 x 63/28)
Final Ratio	2.63 (39/15)
Overall Ratio (Top Gear)	5.93
Chassis	
Wheelbase	1435 mm (56.5 in.)
Seat Height	775 mm (30.5 in.)
Ground Clearance	120 mm (4.7 in.)
Dry Weight	176 kg (388 lb.) (US), 176.5 kg (389 lb.)(CA)
Max Recom Load	186 kg (410 lb.)
Fuel Tank Capacity	4.8 U.S. gal.
Tire Size	—Front 110/70 17
—Rear	130/70 17
Brake Type	—Front Single Disc
—Rear	Single Disc
Brake Size	—Front 252 mm Effective Diameter
—Rear	203 mm Effective Diameter
Wheel Travel	—Front 130 mm (5.1 in.)
—Rear	100 mm (3.9 in.)

Model Identification	
Year & Model	'06 EX500D6F:Ninja 500
Colors	1. Candy Fire Red (316) 2. Lime Green (777)
VIN Range	JKAEXVD1✓6A096001 -
Engine No. Range	EX500AE018001 -
Tuning Specifications	
Engine	
Cylinder Head Torque	In sequence: 1. 2.3 kg-m
0 = Step — Nuts	2. 1.0 kg-m 3. Warm up 4. Retorque cold
Valve Clearance (Cold)	Intake: 0.13-0.18 mm
	Exhaust: 0.18-0.23 mm
— Adjustment Method	Rocker arm screw
Compression Pressure	182 psi
Spark Plug	NGK DR9EA or ND X27ESR-U (USA)
	NGK DR8ES or NDX24ESR-U (Canada)
	0.6-0.7 mm
Ignition Timing —Idle	10° BTDC at 1,200 rpm (US)
	10° BTDC at 1,300 rpm (CA)
	37.5° BTDC at 10,000 rpm (US)
	37.5° BTDC at 10,000 rpm (CA)
Air Screw	Sealed—not adjustable
Idle Speed	1,050 ±50 rpm (US,CN)
	1,250 ±50 rpm (CA)
Engine Oil	SE Class SAE 10W40, 10W50, 20W40, 20W50
—w/Filter Change	3.4 L
—No Filter Change	2.4 L
—Level	On center stand, wait 5 min, middle of window