

General Specifications	
Engine	
Engine Type	4-stroke, Inline, 4-cylinder, DOHC, Liquid cooled, 16-Valve
Displacement	599 cc
Bore x Stroke	66.0 x 43.8 mm
Compression Ratio	12.8:1
Maximum Torque	N/A
Carburetor	Mikuni BDSR36R (4) with K-TRIC
Ignition System	12 V Battery & Coil, Transistorized Breakerless
Ignition Advance	Digital
Crankshaft Rotation	Clockwise from ignition (RH side)
Cylinder Number Method	Left to Right: 1-2-3-4
Firing Interval/Order	180° /1-2-4-3
Cylinder Material	Aluminum alloy with electroplated bore
Fuel	Min 91 Research/87 Avg. Oct. Unleaded OK
Coolant	50% distilled water /50% ethylene glycol base antifreeze.
— Capacity	2.3 liter
— 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 2.92 (38/13)
— 2nd	2.06 (33/16)
— 3rd	1.63 (31/19)
— 4th	1.38 (29/21)
— 5th	1.22 (28/23)
— 6th	1.08 (26/24)
Primary Ratio	2.022 (89/44)
Final Ratio	2.66 (40/15)
Overall Ratio (Top Gear)	5.84
Chassis	
Wheelbase	1,400 mm
Seat Height	820 mm
Ground Clearance	145 mm
Dry Weight	171 kg (US,CN) 173 kg (CA)
Max Recom Load	N/A
Fuel Tank Capacity	18.0 liter
Tire Size	— Front 120/65 ZR17 Tubeless
— Rear	180/55 ZR17 Tubeless
Brake Type	— Front Dual Hydraulic Disc
— Rear	Single Hydraulic Disc
Brake Size	— Front 273 mm Effective Diameter
— Rear	184 mm Effective Diameter
Wheel Travel	— Front 120 mm
— Rear	135 mm

Model Identification	
Year & Model	'05 ZX600-J4:NINJA (ZZR600)
Color	1. Metallic Ocean Blue (726)
VIN Range	JKAZX4J1✓ 5A055001
Engine No. Range	ZX600FE000001 —
Engine No. Location	RH top crankcase, below carburetor
Tuning Specifications	
Engine	
Valve Clearance (Cold)	Intake: 0.11-0.19mm
— Adjustment Method	Exhaust: 0.22-0.31mm
Compression Pressure	Shim under tappet
Spark Plug	196 psi
— Gap	NGK CR9E or U27ESR
Ignition Timing	0.7-0.8 mm
— Idle	12.5° BTDC at 1,300 rpm (US,CN)
— Full	N/A (CA)
Air Screw	42.5° BTDC at 5,000 rpm (US,CN,CA)
Idle Speed	Sealed—not adjustable
Engine Oil	1050 ± 50 rpm (US,CN)
— w/Filter Change	1250 ± 50 rpm (CA)
— No Filter Change	SAE SE, SF or SG 10W40
— Level	3.6 liter
	3.4 liter
	On center stand, wait 5 min., middle of window
Chassis	
Fork Oil	SAE 10W
— Capacity	533-541 cc
Tire Pressure (Cold)	
— Front	36 psi
— Rear	42 psi