

General Specifications

Engine

Engine Type	4-stroke, 4-cylinder, DOHC, Liquid cooled, 16-Valve
Displacement	1052 cc
Bore x Stroke	76.0 x 58.0 mm
Compression Ratio	11.0:1
Carburetor	Keihin CVKD40(4) Constant velocity, Diaphragm-type
Ignition System	12 V Battery & Coil, Transistorized Breakerless
Ignition Advance	Electronic
Crankshaft Rotation	Clockwise from 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 ferrous sleeves
Fuel	Min 91 Research/87 Avg. Oct. Unleaded OK
Coolant	50% distilled water /50% ethylene glycol base antifreeze.
—Capacity	2.5 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	2.80 (42/15)
—1st	2.05 (37/18)
—2nd	1.59 (35/22)
—3rd	1.33 (32/24)
—4th	1.15 (30/26)
—5th	1.04 (29/28)
—6th	1.64 (95/58)
Primary Ratio	2.65 (45/17)
Final Ratio	4.49
Overall Ratio (Top Gear)	

Chassis

Wheelbase	1495 mm
Seat Height	780 mm
Ground Clearance	110 mm
Dry Weight	233 kg (US,CN) 233.5 kg (CA)
Curb Weight	269 kg (US,CN) 269.5 kg (CA)
Max Recom Load	180 kg
Fuel Tank Capacity	24 liter
Tire Size	120/70ZR17 Tubeless
—Front	180/55ZR17 Tubeless
—Rear	
Brake Type	Dual Hydraulic Disc
—Front	Single Hydraulic Disc
—Rear	
Brake Size	285 mm Effective Diameter
—Front	217 mm Effective Diameter
—Rear	
Wheel Travel	120 mm
—Front	112 mm
—Rear	

Model Identification

Year & Model	'97 ZX1100-D5:NINJA (ZX-11)
Color	① Amaranth Red Mica (20) ② KMM Amaranth Red Mica (10) ③ KMM Luminous Windsor Green (24) ④ Luminous Windsor Green (DS)
VIN Range	JKAZXBD1 ✓VA0450001 — 050000 (Japan Mfg) JKAZXBD1 ✓VB509101 — 510990 (USA Mfg) ZXT10CE000001 —
Engine No. Range	
Engine No. Location	RH top crankcase, below cylinder

Tuning Specifications

Engine

Cylinder Head Torque	
0= Step	—Nuts
In sequence:	① 10 o 4.0 kg/m
	② 8 o 1.5 kg-m
	③ Warm up
	④ Retorque cold
Valve Clearance	(Cold) Intake: 0.13-0.19 mm Exhaust: 0.18-0.24 mm
—Adjustment Method	Rocker arm screw
Compression Pressure	(9.0-13.0 kg/m ²) 128-196 psi at 370 rpm
Spark Plug	NGK CR9E or ND U27ESR-N (USA)
—Gap	.7-.8 mm
Ignition Timing—Idle	7.5° BTDC ("F" mark) at 1,000 rpm (US, CN) 7.5° BTDC ("F" mark) at 1,200 rpm (CA)
—Full	40° BTDC (in double marks) at 6,000 rpm
Pilot Screw	Sealed—not adjustable
Idle Speed	1000 ±50 rpm (US,CN) 1200 ±50 rpm (CA)
Engine Oil	SE Class SAE 10W40, 10W50, 20W40, 20W50
—w/Filter Change	3.5 liter
—No Filter Change	3.0 liter
—Level	On center stand, wait 5 min, middle of window
—Pressure (Hot)	2.0-2.5 kg/cm ² at 4,000 rpm, 90°

Chassis

Fork Oil	SAE 10W20
—Capacity	457-465 cc, each
—Level	379±2 mm (fork extended spring removed)
Fork Air Pressure (Cold)	0.0 kg/cm ² , max 2.5 kg/cm ²
Rear Suspension Pressure	0.0 kg/cm ² , max 2.5 kg/cm ²
Tire Pressure (Cold)	
—Front	2.90 kg/cm ²
—Rear	2.90 kg/cm ²
Drive Chain Slack	30-40 mm (on center stand, tightest point, STD)