
General Specifications

Engine

Engine Type	4-stroke, 4-cylinder, DOHC, Liquid cooled, 16-Valve
Displacement	1,199 cc
Bore x Stroke	83.0 x 55.4 mm
Compression Ratio	12.2:1
Fuel Injection	Denso Digital Fuel Injection 46 x 4
Ignition System	12 V Battery & Coil, Transistorized Breakerless
Cylinder Number Method	Left to Right: 1-2-3-4
Firing Interval/Order	180° /1-2-4-3
Cylinder Material	Aluminum alloy with electroplated cylinders
Lubrication System	Forced Sump

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	2.43 (34/14)
—2nd	1.82 (31/17)
—3rd	1.44 (36/25)
—4th	1.25 (30/24)
—5th	1.13 (26/23)
—6th	1.03 (31/30)
Primary Ratio	1.60 (83/52)
Final Ratio	2.56 (46/18)
Overall Ratio (Top Gear)	4.21

Chassis

Wheelbase	57.1 in.
Seat Height	32.1 in.
Ground Clearance	4.7 in.
Dry Weight	463 lb.
Curb Weight	Front 275.6 lb. Rear 266.7 lb.
Max Recom Load	N/A
Fuel Tank Capacity	5.0 gal.
Tire Size	
—Front	120/70ZR17 Tubeless
—Rear	200/50/R17 Tubeless
Brake Type	
—Front	Dual Hydraulic Disc
—Rear	Single Hydraulic Disc
Brake Size	
—Front	320 mm Effective Diameter
—Rear	230 mm Effective Diameter
Wheel Travel	
—Front	120 mm
—Rear	140 mm

Model Identification

Year & Model	'02 ZX1200-B1:NINJA (ZX-12R)
Color	① Candy Thunder Blue (235) ② Passion Red (234) ③ Pearl Mystic Black (218)
VIN Range	JKAZX9B1 ✓2A000001 —
Engine No. Range	ZXT20AE000001—

Tuning Specifications

Engine

Valve Clearance (Cold)	Intake: 0.03-0.11 mm Exhaust: 0.09-0.17 mm
—Adjustment Method	Shim under bucket
Compression Pressure	213 psi
Fuel	Min 95 Research/90 Avg. Oct. Unleaded OK
Spark Plug	NGK CR9E KPA
—Gap	.7-.9 mm
Ignition Timing—Idle	10° BTDC @ 1000 rpm
Idle Speed	1000 ±50 rpm (US,CN)
Engine Oil	SAE 10W40 API SE, SF or SG (or SH, SJ with JASO MA)
—w/Filter Change	2.8 L (3.0 qt.)
—No Filter Change	2.5 L (2.6 qt.)
—Level	On center stand, wait 5 min, middle of window
Coolant	50% distilled water /50% ethylene glycol base antifreeze.
—Capacity	3.6 L (3.8 US qt.)
—Level	Level with radiator filler neck.

Chassis

Fork Oil	Kayaba 01 (SAE 5W)
—Capacity	490 ±4 ml
Tire Pressure (Cold)	
—Front	2.90 kg/cm ² (41 psi)
—Rear	2.90 kg/cm ² (41 psi)

Electrical

Battery	12V 12AH
Headlight	12V 60/55W x 2
Taillight/Stoplight	12V 5/21W x 2