
General Specifications

Engine

Engine Type	4-stroke, Inline, 4-cylinder, DOHC, Liquid cooled, 16-Valve
Displacement	899 cc
Bore x Stroke	75.0 x 50.9 mm
Compression Ratio	11.5:1
Maximum Torque	74.9 ft lb @ 9,000 PRM
Carburetor	CVKD 40x4
Ignition System	TCBI 12 V
Ignition Advance	Electronic, Digital advance
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 ferrous sleeves
Fuel	Min 91 Research/87 Avg. Oct. Unleaded OK
Coolant	50% distilled water /50% ethylene glycol base antifreeze.
—Capacity	2.8 liter
—Level	Level with radiator filler neck.

Transmission

Clutch Type	Wet, Multi-disc, Hydraulic
Transmission	6-speed, Constant mesh, Return shift
Shift Pattern(Bottom up)	1-N-2-3-4-5-6 (w/Neutral Finder)
Gear Ratios —1st	2.571 (36/14)
—2nd	1.941 (33/17)
—3rd	1.556 (28/18)
—4th	1.333 (28/21)
—5th	1.200 (33/27)
—6th	1.095 (23/21)
Primary Ratio	1.714 (84/49)
Overall Ratio (Top Gear)	4.811

Chassis

Wheelbase	1,415 mm (55.7 in.)
Seat Height	810 mm (31.9 in.)
Ground Clearance	160 mm (6.3 in.)
Dry Weight	183 kg (403.5 lb.)(US,CN), 186 kg (410.1 lb.)(CA)
Max Recom Load	N/A
Fuel Tank Capacity	19.0 liter (5 gal.)
Tire Size —Front	120/70 ZR17
—Rear	180/55 ZR17
Brake Type —Front	Dual Hydraulic Disc
—Rear	Single Hydraulic Disc
Brake Size —Front	269 mm Effective Diameter
—Rear	184 mm Effective Diameter
Wheel Travel —Front	120 mm
—Rear	130 mm

Model Identification

Year & Model	'99 ZX900-C2:NINJA ZX-9R
Colors	① Candy Lightning Blue (E1) ② Candy Persimmon Red (A5) ③ Lime Green (7F)
VIN Range	JKAZX2C1✓ XAO26001 ~
Engine No. Range	ZX900CE000001 —
Engine No. Location	RH top crankcase, below carburetor

Tuning Specifications

Engine

Cylinder Head Torque	
0= Step	In sequence: ① 20 N-m (14.5 ft lbs) ② New bolts: 54 N-m (40 ft lbs) Used bolts: 49 N-m (36 ft lbs)
Valve Clearance	Exhaust: 0.22-0.31 mm Intake: 0.15-0.24 mm
—Inspection Method	Cam and bucket
—Adjustment Method	Shim under bucket
Compression Pressure	13.73 kg/m ² at 340 rpm (220 psi)
Spark Plug	NGK CR9EK or ND U24ETR
—Gap	0.7-0.8 mm
Ignition Timing —Idle	10° BTDC at 1,100 rpm (US) 10° BTDC at 1,300 rpm (CA)
—Full	32.5° BTDC (in double marks) at 5,000 rpm
Air Screw	Sealed—not adjustable
Idle Speed	1,100
Engine Oil	SG, SE or SF Class SAE 10W40
—w/Filter Change	3.8 liter
—Level	On center stand, wait 5 min., middle of window

Chassis

Fork Oil	SAE 5W
—Capacity	578-586 cc
—Level	N/A
Tire Pressure (Cold)	
—Front	36 psi
—Rear	42 psi
Drive Chain Slack	10-15 mm (on side stand, tightest point, STD)