
General Specifications

Engine

Engine Type	4-stroke, Inline, 1-cylinder, SOHC, Air cooled
Displacement	124cc
Bore x Stroke	55.0 x 52.4 mm
Compression Ratio	9.6:1
Carburetor	Mikuni BS28
Ignition System	Magneto CDI (Rotor)
Ignition Advance	Electronic
Crankshaft Rotation	Clockwise from ignition (RH) side
Cylinder Material	Aluminum alloy with ferrous sleeves
Fuel	Min 91 Research/87 Avg. Oct. Unleaded OK

Transmission

Clutch Type	Wet, Multi-disc, Manual
Transmission	5-speed, Constant mesh, Return shift
Shift Pattern(Bottom up)	1-N-2-3-4-5
Gear Ratios	—1st 2.7 (27/10)
—2nd	1.71 (29/17)
—3rd	1.30 (26/20)
—4th	1.09 (24/22)
—5th	0.95 (20/21)
Primary Ratio	3.67 (77/21)
Final Ratio	2.87 (43/15)
Overall Ratio (Top Gear)	10.01

Chassis

Wheelbase	57.9 in.
Seat Height	26.8 in.
Ground Clearance	6.1 inch
Dry Weight	291 lb.
Curb Weight	320 lb.
Max Recom Load	342 lb.
Fuel Tank Capacity	3.4 gal.
Tire Size	—Front 90/90-17
—Rear	130/90-15
Brake Type	—Front Single Hydraulic Disc
—Rear	Mechanical Drum (Leading/Trailing)
Brake Size	—Front 234 mm
—Rear	130 mm
Wheel Travel	—Front 5.5 in.
—Rear	3.1 in.

Model Identification

Year & Model	'04 BN125-A7:Eliminator 125
Color	1. KMT. Candy Persimmon Red (G2) 2. KMT. Metallic Phantom Silver (I70)
VIN Range	JKABNRA1✓4DA09073 —
Engine No. Range	BN125AE00574 -
Engine No. Location	RH top crankcase, at cylinder base

Tuning Specifications

Engine

Valve Clearance (Cold)	Intake: .08-.12 mm
	Exhaust: .15-.19 mm
—Adjustment Method	Rocker arm screw
Compression Pressure	199 psi
Spark Plug	NGK CR7E
	—Gap .7-.8 mm
Ignition Timing	—Idle 10° @ 1,300 rpm
	— Full 30° @ 4,500 rpm
Pilot Screw	Sealed—not adjustable
Idle Speed	1,300 ±100 rpm
Engine Oil	API SE, SF or SG, API SH or SJ of JASO MA Class
	10W40
	—w/Filter Change 1.2 liter
	—No Filter Change 1.1 liter
	—Level Bike level, wait 5 min., middle of window

Chassis

Fork Oil	SAE 10W20
—Capacity	165 cc
Tire Pressure (Cold)	
—Front	21 psi
—Rear	25 psi