

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	1,470mm (57.9 in.)
Seat Height	680mm (26.8 in.)
Ground Clearance	155mm (6.1 in.)
Dry Weight	132 kg (291 lb.)
Curb Weight	Front: 64 kg (291 lb.) Rear: 81 kg (179 lb.)
Max Recom Load	342 lb.
Fuel Tank Capacity	13 L (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	140mm (5.5 in.)
—Rear	80mm (3.1 in.)

Model Identification

Year & Model	'06 BN125A6F:Eliminator 125
Color	1. KMT. Candy Thunder Blue(620)
VIN Range	JKABNRA1✓6DA13459 —
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