

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              | 2.7 (27/10)                          |
| —1st                     | 1.71 (29/17)                         |
| —2nd                     | 1.30 (26/20)                         |
| —3rd                     | 1.09 (24/22)                         |
| —4th                     | 0.95 (20/21)                         |
| —5th                     | 3.67 (77/21)                         |
| Primary Ratio            | 2.87 (43/15)                         |
| Final Ratio              | 10.01                                |
| Overall Ratio (Top Gear) |                                      |

| 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          | 90/90-17                           |
| —Front             | 130/90-15                          |
| —Rear              | Single Hydraulic Disc              |
| Brake Type         | Mechanical Drum (Leading/Trailing) |
| —Front             | 234 mm                             |
| —Rear              | 130 mm                             |
| Wheel Travel       | 5.5 in.                            |
| —Front             | 3.1 in.                            |
| —Rear              |                                    |

Model Identification

|                     |                                    |
|---------------------|------------------------------------|
| Year & Model        | '05 BN125-A8:Eliminator 125        |
| Color               | 1. KMT. Metallic Comet Black (167) |
| VIN Range           | JKABNRA1✓5DA11506 —                |
| 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                                        |
|                        | .7-.8 mm                                        |
| Ignition Timing        | 10° @ 1,300 rpm                                 |
| —Gap                   | 30° @ 4,500 rpm                                 |
| —Idle                  | Sealed—not adjustable                           |
| —Full                  | 1,300 ±100 rpm                                  |
| Pilot Screw            | API SE, SF or SG, API SH or SJ of JASO MA Class |
| Idle Speed             | 10W40                                           |
| Engine Oil             | 1.2 liter                                       |
|                        | 1.1 liter                                       |
| —w/Filter Change       | Bike level, wait 5 min., middle of window       |
| —No Filter Change      |                                                 |
| —Level                 |                                                 |

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