



Meets or exceeds  
EPA clean air requirements

## Beamer Matrix II Scooter 2006 Specifications

(Model No. PN2E)

<b>Engine</b>		
Type	Two cycle air cooled oil injected	
Displacement	49.3cc	
Bore / Stroke	φ40.0 * 39.2mm	
Compression - Ratio / Pressure	6.8 : 1 / 90-120psi	
Torque / BHP	5.2N m @ 7000rpm / 1.5BHP	
Estimated MPG	65mpg/795mpg	
Starting	Electrical with Kick starter back up	
<b>Transmission</b>		
Type	Automatic (C.V.T. V-Belt)	
<b>Chassis</b>		
Overall Length	1830mm / 72.0"	
Overall Width	650mm / 25.6"	
Overall High	1100mm / 43.3"	
Wheel Base	1260mm / 49.6"	
Dry Weight	82kg / 180.7lb	
<b>Suspension</b>		
Front	Telescopic Fork	
Rear	Unit Swing Arm / Single Shock	
<b>Brakes</b>		
Front	Hydraulic Disc	
Rear	Mechanical Drum	
<b>Tires</b>		
Front	120/90-10	
Rear	130/90-10	
Tire Pressure	Front	Front 18psi / 1.25kg/cm2 (Cold)
	Rear	Rear 25psi / 1.75kg/cm2 (Cold)

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## Carburetor

Make/Size	Mikuni 18mm (Manual Coke ,Strong Way ,Sun World)
Main Jet	#80
Pilot Jet	#17.5
Air Mixture Adjustment	Back out ¾ - 1¼ turns
Idle Speed	Idle 1700 - 1900rpm

## Battery

Jell Acid (Maintenance Free)	12V-4AH/5AH - GTX5L-BS
Main Fuse	7Amp

## Fluids

Fuel	Type	Unleaded Gasoline 89 octane
	Volume	5.5liters / 1.5gal
2 Cycle Oil	Type	High grade synthetic 2 cycle injector oil
	Volume	1.1 liters / 1.2qts
Transmission	Type	SAE 80/90 weight
	Volume	100cc / 3.4oz

## Spark Plug

NGK (recommended)	BPR7HS
Nipendenso	W22FRP-U
Champion	QL82YC
Electrode Gap	0.6-0.7mm / 0.023"

## GVWR

240kg. / 530lbs.

## GAWR (Front)

76kg. / 167lbs.

## GAWR (Rear)

165kg. / 164lbs.

## Available Colors

\*Subject to availability

<b>Red</b>
<b>Blue</b>
<b>Yellow</b>
<b>Black</b>