



Matrix Scooter 2005 Specifications

(Model No. PN2C)

Engine

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

Transmission

Type	Automatic (C.V.T. V-Belt)
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Chassis

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

Suspension

Front	Telescopic Fork
Rear	Unit Swing Arm / Single Shock

Brakes

Front	Hydraulic Disc
Rear	Mechanical Drum

Tires

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)
Main Jet		85mm
Pilot Jet		20mm
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		Red
		Blue
		Yellow
		Black