## GENERAL INFORMATION

2012 Sportsman 500 H.O.

MODEL NUMBER:

A12MH50AX, AZ, AD, AQ, FF, FY, FX

ENGINE MODEL: EH500PLE13B



Category	Dimension / Capacity
Length	83 in./210.8 cm
Width	48 in./121.9 cm
Height	48 in./121.9 cm
Wheel Base	50.75 in./128.9 cm
Ground Clearance	11.25 in/28.6 cm
Dry Weight	696 lbs:/313kg (Wet weight model FF, FY, FX) 776 lbs:/352 kg)
Front Rack Box Capacity	90 lbs:/40.8 kg
Rear Rack Capacity	180 lbs./81.6 kg
Max. Weight Capacity	485 lbs. / 220 kg
Towing Capacity	1225 lbs ./ 555.7 kg
Unbraked Trailer Towing Capacity (EU)* NOTE: "Data based on EU Directive: 76/432/EEC	1786 lbs. / 810 kg
Hitch Tongue Capacity	120 lbs./54.4 kg Rear rack capacity and tongue weight not to exceed 180 lbs./82 kg

ENGINE	
Platform	Full Single Cylinder
Engine Model Number	EH500PLE13B
Engine Displacement	498cc
Number of Cylinders	1
Bore & Stroke (mm)	92 x 75 mm
Compression Ratio	10.2:1
Compression Pressure	70-90 psi WiCompression Release
Engine Idle Speed	1200+/- 200 RPM
Engine Max Operating Rpm	7000 Rpm ± 200 Rpm
Cooling System / Capacity	Liquid - 27 gt / 2.51/tre
Overheat Warning	HOT on Instrument Cluster
Lubrication	Pressurized Dry Sump
Oil Requirements / Capacity	Polaria 2W-50 2 gt. / 1.9 litre
Exhaust System	Single Pipe USFS Approved
Fuel System	
Carlo retor	Misoni BST 40mm
Main Jet	150
Pilot Jet	40
Jet Needle / Clip Position	6MGH1-94-3
Noedie Jet	X-6M
Pliot Screw	1 Turn Out (initial)
Pilot Air Jet	40
Float Height	14.7mm ± 1 (.58 ± 0.40°)
Fuel Delivery	Fuel Pump
Fuel Capacity / Requirement	4.25 gal US / 15.5 liters 87 Octane (minimum) or 89 Oxygenated
Electrical	
Alternator Output	260 w @ 3000 RPM
Voltage Regulator	3-phase PDM
Lights: Pod	50 wats
Cirill	2 x 50 watts
Brake	26.9 watts
Tail	8.26 watts
ignition System	DC/CDI Ignition
ignition Timing	30"± 2" BTDC @ 5000 RPM
Spark plug / Gap	BKR6E / .035 in. / 0.9 mm
Battery	Maintenance-Free / 12 Amp Hr.
Circuit Protection	5 / 15 / 20 Amp Fuses 10 Amp Circuit Breaker - Fan
Starting	Electric
Instrument Cluster	Analog Speedo w/ LCD

# **Polaris Xplorer Parts Manual**

Mike Jess

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