

## 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./313 kg (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)* <b>NOTE: *Data based on EU Directive: 76/432/EEC</b>	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	Fuji 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 W/Compression Release
Engine Idle Speed	1200 +/- 200 RPM
Engine Max Operating Rpm	7000 Rpm ± 200 Rpm
Cooling System / Capacity	Liquid - 2.7 qt / 2.5 litre
Overheat Warning	HOT on Instrument Cluster
Lubrication	Pressurized Dry Sump
Oil Requirements / Capacity	Polaris 2W-50 2 qt. / 1.9 litre
Exhaust System	Single Pipe USFS Approved
Fuel System	
Carburetor	Mikuni B-ST 40mm
Main Jet	150
Pilot Jet	40
Jet Needle / Clip Position	6MGH1-94-3
Needle Jet	X-6M
Pilot 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 watts
Orill	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

# 9 Polaris Sportsman Touring 500 Service Manual

**Judd E. Hollander**



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