## 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)* 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	49/8cc
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 at / 2.5 litre
Overheat Warning	HOT on Instrument Cluster
Lubrication	Pressurized Dry Sump
Oil Requirements / Capacity	Polaris 2W-50 2 gt. / 1.9 litre
Exhaust System	Single Pipe USFS Approved
Fuel System	
Carburetor	Misuni BST 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
Grill	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 - Far
Starting	Electric
Instrument Cluster	Analog Speedo w/ LCD

# **Polaris Sportsman 500service Manual**

Jiyuan Zhang

## **Polaris Sportsman 500service Manual:**

Polaris, Sportsman 400 and 500 4x4, 1996-2003 and Xplorer 500 4x4, 1997-2003 Ed Scott, 2004 Field and Stream New York Game & Fish ,2000 Books in Print Supplement ,2002 Polaris Sportsman 400, 450 & 500 ,2000 **1996-2013 Manual** Penton Staff, 2000-05-24 Sportman 400 2001 2005 Sportsman 450 2006 2007 Sportsman 450 Browning Edition 2006 Sportsman 500 1996 2010 Sportsman 500 RSE 2000 2002 Sportsman 500 DUSE 2001 2002 Sportsman 500 HO 2001 2006 2008 2010 Sportsman 500 X2 2006 2010 Sp Farm Journal, 2000 **Iowa Fishing Regulations** ,2001 **Progressive Farmer** ,1999 **Commerce Business Daily** Regulations for fishing in state owned bodies of water Farm Journal and Country Gentleman, 2001 .2000-03 New York Sportsman, 2001 Wallace's Farmer ,2001 Wallaces Farmer .2002 Union Agriculturist and Western Prairie Farmer ,2002 The Pennsylvania Sportsman, 2000 Farmers and Consumers Market Bulletin ,2010 Campground & Trailer Park Directory ,1987 Backpacker, 2000-03 Backpacker brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker's Editors Choice Awards an industry honor recognizing design feature and product innovation has become the Boys' Life ,1972-10 Boys Life is the official gold standard against which all other outdoor industry awards are measured youth magazine for the Boy Scouts of America Published since 1911 it contains a proven mix of news nature sports history fiction science comics and Scouting Australian Viticulture ,1996

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