

## 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 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 Hc.
Circuit Protection	5 / 15 / 20 Amp Fuses 10 Amp Circuit Breaker - Fan
Starting	Electric
Instrument Cluster	Analog Speedo w/ LCD

# 6 Polaris Sportsman 500 Ho Service Manual

**Penton Staff**



## 6 Polaris Sportsman 500 Ho Service Manual:

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### Table of Contents **6 Polaris Sportsman 500 Ho Service Manual**

1. Understanding the eBook **6 Polaris Sportsman 500 Ho Service Manual**
  - The Rise of Digital Reading **6 Polaris Sportsman 500 Ho Service Manual**
  - Advantages of eBooks Over Traditional Books
2. Identifying **6 Polaris Sportsman 500 Ho Service Manual**
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an **6 Polaris Sportsman 500 Ho Service Manual**
  - User-Friendly Interface
4. Exploring eBook Recommendations from **6 Polaris Sportsman 500 Ho Service Manual**
  - Personalized Recommendations
  - **6 Polaris Sportsman 500 Ho Service Manual** User Reviews and Ratings
  - **6 Polaris Sportsman 500 Ho Service Manual** and Bestseller Lists

5. Accessing 6 Polaris Sportsman 500 Ho Service Manual Free and Paid eBooks
  - 6 Polaris Sportsman 500 Ho Service Manual Public Domain eBooks
  - 6 Polaris Sportsman 500 Ho Service Manual eBook Subscription Services
  - 6 Polaris Sportsman 500 Ho Service Manual Budget-Friendly Options
6. Navigating 6 Polaris Sportsman 500 Ho Service Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - 6 Polaris Sportsman 500 Ho Service Manual Compatibility with Devices
  - 6 Polaris Sportsman 500 Ho Service Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 6 Polaris Sportsman 500 Ho Service Manual
  - Highlighting and Note-Taking 6 Polaris Sportsman 500 Ho Service Manual
  - Interactive Elements 6 Polaris Sportsman 500 Ho Service Manual
8. Staying Engaged with 6 Polaris Sportsman 500 Ho Service Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 6 Polaris Sportsman 500 Ho Service Manual
9. Balancing eBooks and Physical Books 6 Polaris Sportsman 500 Ho Service Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 6 Polaris Sportsman 500 Ho Service Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine 6 Polaris Sportsman 500 Ho Service Manual
  - Setting Reading Goals 6 Polaris Sportsman 500 Ho Service Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 6 Polaris Sportsman 500 Ho Service Manual
  - Fact-Checking eBook Content of 6 Polaris Sportsman 500 Ho Service Manual
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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