

## 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<br>(Wet weight model FF, FY, FX)<br>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)*<br><b>NOTE: *Data based on EU Directive: 76/432/EEC</b> | 1786 lbs. / 810 kg                                                                    |
| Hitch Tongue Capacity                                                                          | 120 lbs./54.4 kg<br>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<br>87 Octane (minimum)<br>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<br>10 Amp Circuit Breaker - Fan                |
| Starting                    | Electric                                                             |
| Instrument Cluster          | Analog Speedo w/ LCD                                                 |

# Polaris Sportsman 500service Manual

**Rosina Ehmann**



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

Polaris, Sportsman 400 and 500 4x4, 1996-2003 and Xplorer 500 4x4, 1997-2003 Ed Scott,2004      Field and Stream,2000      **New York Game & Fish** ,2000      **Polaris Sportsman 400, 450 & 500 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      *Books in Print Supplement* ,2002      **Farm Journal** ,2000      **Iowa Fishing Regulations** ,2001 Regulations for fishing in state owned bodies of water      **Progressive Farmer** ,1999      **Commerce Business Daily** ,2000-03      **New York Sportsman** ,2001      *Farm Journal and Country Gentleman* ,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

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This book delves into Polaris Sportsman 500service Manual. Polaris Sportsman 500service Manual is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Polaris Sportsman 500service Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Polaris Sportsman 500service Manual
- Chapter 2: Essential Elements of Polaris Sportsman 500service Manual
- Chapter 3: Polaris Sportsman 500service Manual in Everyday Life
- Chapter 4: Polaris Sportsman 500service Manual in Specific Contexts
- Chapter 5: Conclusion

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3. In chapter 2, the author will delve into the foundational concepts of Polaris Sportsman 500service Manual. The second chapter will elucidate the essential principles that must be understood to grasp Polaris Sportsman 500service Manual in its entirety.
4. In chapter 3, this book will examine the practical applications of Polaris Sportsman 500service Manual in daily life. The third chapter will showcase real-world examples of how Polaris Sportsman 500service Manual can be effectively utilized in everyday scenarios.
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6. In chapter 5, the author will draw a conclusion about Polaris Sportsman 500service Manual. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Polaris Sportsman 500service Manual.

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