

## 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                                                 |

# Free Polaris 500 Service Manual

**Raffaela Di Napoli**



## **Free Polaris 500 Service Manual:**

**Polaris, Sportsman 400 and 500 4x4, 1996-2003 and Xplorer 500 4x4, 1997-2003** Ed Scott, 2004 *New York Game & Fish*, 2002 Field and Stream, 2001 **Snowmobile Service Manual** Intertec Publishing Corporation. Technical Publications Division, 1979 *Clymer Snowmobile Service Manual 11th Edition* Penton Staff, 1991-06-01 With the help of the Clymer Snowmobile Service Manual 11th Edition in your toolbox you will be able to maintain service and repair your snowmobile to extend its life for years to come Clymer manuals are very well known for their thorough and comprehensive nature This manual is loaded with step by step procedures along with detailed photography exploded views charts and diagrams to enhance the steps associated with a service or repair task This Clymer manual is organized by subsystem with procedures grouped together for specific topics such as front suspension brake system engine and transmission It includes color wiring diagrams The language used in this Clymer repair manual is targeted toward the novice mechanic but is also very valuable for the experienced mechanic The service manual by Clymer is an authoritative piece of DIY literature and should provide you the confidence you need to get the job done and save money too *Popular Mechanics*, 1991-11 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle *Popular Mechanics*, 1963-06 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle Boating, 1996-01 Field & Stream, 1972-06 FIELD STREAM America s largest outdoor sports magazine celebrates the outdoor experience with great stories compelling photography and sound advice while honoring the traditions hunters and fishermen have passed down for generations *Cruising World*, 1997-01 **Books in Print Supplement**, 2002 *InfoWorld*, 1980-11-10 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects **Electronic Design**, 1964 **Research & Development**, 2001 *InfoWorld*, 1985-12-09 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects **Cars & Parts**, 1997 Monthly Catalogue, United States Public Documents, 1928 **InfoWorld**, 1985-09-09 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects **InfoWorld**, 1985-09-23 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1961 Includes Part 1 Number 1 2 Books and Pamphlets Including Serials and Contributions to Periodicals January December

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