

## GENERAL INFORMATION

### VEHICLE SPECIFICATIONS

2012 Sportsman 400 H.O.

MODEL NUMBER: A12MH46AX, AZ, AF

ENGINE MODEL: EH460PLE050



| Category                                                                        | Dimension            |
|---------------------------------------------------------------------------------|----------------------|
| 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                                                                      | 688 lbs. / 312 kg    |
| Front Rack Capacity                                                             | 90 lbs. / 41 kg      |
| Rear Rack Capacity                                                              | 180 lbs. / 81.6 kg   |
| Towing Capacity                                                                 | 1225 lbs. / 555.7 kg |
| Max. Weight Capacity                                                            | 485 lbs. / 220 kg    |
| Hitch Tongue Weight                                                             | 120 lbs. / 34 kg     |
| Unbraked Trailer Towing Capacity (EU)<br>Data based on EU Directive: 76/432/EEC | 1786 lbs. / 810 kg   |

| Engine                    |                                                     |
|---------------------------|-----------------------------------------------------|
| Platform                  | Fuji 4-cycle, L/C, Single Cyl.                      |
| Engine Model Number       | EH460PLE050                                         |
| Engine Displacement       | 455cc                                               |
| Number of Cylinders       | 1                                                   |
| Bore & Stroke (mm)        | 87.9 x 75 mm                                        |
| Compression Ratio         | 10.1:1                                              |
| Compression Pressure      | 50-90 psi                                           |
| Engine Idle Speed         | 1200 +/- 200 RPM                                    |
| Engine Max Speed          | 7000 RPM                                            |
| Cooling System / Cap.     | Liquid / 2.7 qt. (2.5 L)                            |
| Overheat Warning          | HOT on Instrument Cluster                           |
| Lubrication               | Dry Sump                                            |
| Oil Requirements          | PS-4 Plus / 2 qt. (1.9 L)                           |
| Exhaust System            | Single Pipe - USFS Approved                         |
| Carburetion               |                                                     |
| Carburetor model          | Mikuni BST 34mm                                     |
| Main Jet                  | 160                                                 |
| Pilot Jet / Pilot Air Jet | 42.5 / 160                                          |
| Jet Needle                | 41B33-3                                             |
| Needle Jet                | P-6M                                                |
| Pilot / Air Screw         | 2.75 Turns Out (Initial setting)                    |
| Float Height              | 13mm from carburetor body                           |
| Fuel Delivery             | Fuel Pump (Impulse)                                 |
| Fuel Capacity /           | 4.25 gal. (16 L)                                    |
| Fuel Requirement (Octane) | 87 Octane (minimum)<br>89 Oxygenated                |
| Electrical                |                                                     |
| Alternator Output         | 260 watt @ 3000 RPM                                 |
| Voltage Regulator         | 3-Phase PDM                                         |
| Pod Lighting              | 1x 12V / 50 Watts                                   |
| Grill Lighting            | 2x 12v / 50 Watts                                   |
| Brake Light               | 12V / 26.9 watts                                    |
| Tail Light                | 12V / 8.26 watts                                    |
| Ignition System           | DC / CDI                                            |
| Ignition Timing           | 30° ± 2° BTDC @ 5000 RPM                            |
| Spark plug / Gap          | NGK BKR6E / .035 in. (.9 mm)                        |
| Battery                   | Maintenance-Free / 12 Amp Hr.                       |
| Circuit Breakers          | 10A - Accessory / 10A - Fan /<br>15A - Main Harness |
| Starting                  | Electric                                            |
| Instrument Cluster        | Digital Gauge LCD, Analog<br>Speedometer            |

# 7 Polaris Sportsman 500 Service Manual

**Max Haynes, Haynes Publishing**

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