

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	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 B-ST 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
Orill	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 - Fan
Starting	Electric
Instrument Cluster	Analog Speedo w/ LCD

80 Polaris Sportsman Touring 500 Manual

Ensheng Dong



80 Polaris Sportsman Touring 500 Manual:

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Scott,2010 Yamaha DT50 and 80 Trail Bikes Owner's Workshop Manual Chris Rogers,Jeremy Churchill,Pete Shoemark,1992 Yamaha DT50 and 80 Trail Bikes Chris Rogers,Pete Shoemark,Jeremy Churchill,1994 *Yamaha DT50 & 80 Trail Bikes Owners Workshop Manual* Chris Rogers,Pete Shoemark,Jeremy Churchill,1988 Clymer Polaris RZR 800 2008-2014 Haynes Publishing,2017-10-21 The Polaris RZR 800 off road vehicles are very popular and built with precision engineering to ensure a long life With the help of the Clymer Polaris RZR 800 2008 2014 Repair Manual in your toolbox you will be able to maintain service and repair your RZR 800 to extend the life of your machine 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 Yamaha RD50 & 80 Owners Workshop Manual Jeremy Churchill,1986

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Table of Contents 80 Polaris Sportsman Touring 500 Manual

1. Understanding the eBook 80 Polaris Sportsman Touring 500 Manual
 - The Rise of Digital Reading 80 Polaris Sportsman Touring 500 Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying 80 Polaris Sportsman Touring 500 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 80 Polaris Sportsman Touring 500 Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from 80 Polaris Sportsman Touring 500 Manual

- Personalized Recommendations
- 80 Polaris Sportsman Touring 500 Manual User Reviews and Ratings
- 80 Polaris Sportsman Touring 500 Manual and Bestseller Lists
- 5. Accessing 80 Polaris Sportsman Touring 500 Manual Free and Paid eBooks
 - 80 Polaris Sportsman Touring 500 Manual Public Domain eBooks
 - 80 Polaris Sportsman Touring 500 Manual eBook Subscription Services
 - 80 Polaris Sportsman Touring 500 Manual Budget-Friendly Options
- 6. Navigating 80 Polaris Sportsman Touring 500 Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - 80 Polaris Sportsman Touring 500 Manual Compatibility with Devices
 - 80 Polaris Sportsman Touring 500 Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 80 Polaris Sportsman Touring 500 Manual
 - Highlighting and Note-Taking 80 Polaris Sportsman Touring 500 Manual
 - Interactive Elements 80 Polaris Sportsman Touring 500 Manual
- 8. Staying Engaged with 80 Polaris Sportsman Touring 500 Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 80 Polaris Sportsman Touring 500 Manual
- 9. Balancing eBooks and Physical Books 80 Polaris Sportsman Touring 500 Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 80 Polaris Sportsman Touring 500 Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 80 Polaris Sportsman Touring 500 Manual
 - Setting Reading Goals 80 Polaris Sportsman Touring 500 Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 80 Polaris Sportsman Touring 500 Manual

- Fact-Checking eBook Content of 80 Polaris Sportsman Touring 500 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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