

GENERAL INFORMATION

2012 Sportsman Touring 500 HO

MODEL NUMBER: A12DH50AX, AZ

ENGINE MODEL: EH500PLE13B



Category	Dimension / Capacity
Length	86 in./218 cm
Width	48 in./122 cm
Height	48 in./122 cm
Wheel Base	57 in./145 cm
Ground Clearance	11 in./28 cm
Dry Weight	723 lbs./328 kg
Front Rack/Box Capacity	90 lbs./40.8 kg
Rear Rack Capacity	180 lbs./82 kg
Max. Weight Capacity	485 lbs. / 220 kg
Towing Capacity	1225 lbs. / 555.7 kg
Unbraked Trailer Towing Capacity (EU)*	1995 lbs. / 905 kg
NOTE: *Data based on EU Directive: 76/432/EEC	
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
Cooling System / Capacity	Liquid - 2.7 qt / 2.5 ltr
Overheat Warning	HOT on Instrument Cluster
Lubrication	Pressurized Dry Sump
Oil Requirements / Capacity	Polaris 2W-50 2 qt. / 1.9 ltr
Exhaust System	Single Pipe USFS Approved
Fuel System	
Carburetor	Mikuni BST 40mm
Main Jet	150
Pilot Jet	40
Jet Needle / Clip Position	5MGH1-94-3
Needle Jet	X-6M
Pilot Screw	2 Turns Out (Initial)
Pilot Air Jet	160
Floot Height	14.7mm ± 1 (.58 ± 0.40")
Fuel Delivery	Fuel Pump
Fuel Capacity / Requirement	4.25 gal US / 16 liters 87 Octane (minimum) or 89 Oxygenated
Electrical	
Alternator Output	260 w @ 3000 RPM
Lights :	Head 50 watts
	Grill 2 x 50 watts
	Brake 2 x 8.25 watts
	Tail 2 x 26.9 watts
Ignition System	DC/CDI Ignition
Ignition Timing	30° ± 1 BTDC @ 5000 RPM
Spark plug / Gap	BR6SE / .035 in. / 0.9 mm
Battery	Maintenance-Free / 12 Amp Hrs.
Circuit Breakers	5 / 15 / 20 Amp Fuses 10 Amp Circuit Breaker - Fan
Starting	Electric
Instrument Cluster	Analog Speedo w/LCD

Manual Polaris Sportsman 400

Jianjun Gao



Manual Polaris Sportsman 400:

The book delves into Manual Polaris Sportsman 400. Manual Polaris Sportsman 400 is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Manual Polaris Sportsman 400, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Manual Polaris Sportsman 400
 - Chapter 2: Essential Elements of Manual Polaris Sportsman 400
 - Chapter 3: Manual Polaris Sportsman 400 in Everyday Life
 - Chapter 4: Manual Polaris Sportsman 400 in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Manual Polaris Sportsman 400. This chapter will explore what Manual Polaris Sportsman 400 is, why Manual Polaris Sportsman 400 is vital, and how to effectively learn about Manual Polaris Sportsman 400.
3. In chapter 2, the author will delve into the foundational concepts of Manual Polaris Sportsman 400. The second chapter will elucidate the essential principles that need to be understood to grasp Manual Polaris Sportsman 400 in its entirety.
4. In chapter 3, the author will examine the practical applications of Manual Polaris Sportsman 400 in daily life. The third chapter will showcase real-world examples of how Manual Polaris Sportsman 400 can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Manual Polaris Sportsman 400 in specific contexts. This chapter will explore how Manual Polaris Sportsman 400 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Manual Polaris Sportsman 400. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Manual Polaris Sportsman 400.

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Manual Polaris Sportsman 400 Introduction

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 to reduce the torque ripples in the developed model the characteristics of speed torque back emf are effectively monitored
 and analyzed optimized design of permanent magnet brushless dc motor for ceiling fan applications

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a four quadrant or multiple quadrant operation is required in industrial as well as commercial applications these applications
 require both driving and braking i e motoring and generating capability some of these applications include electric traction
 systems cranes and lifts cable laying winders and engine test loading systems

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speed control of a machine is the most vital and important part in any industrial organization this paper is designed to develop a four quadrant speed control system for a dc motor using microcontroller the motor is operated in four quadrants i.e clockwise counter clock wise forward brake and reverse brake

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paper proposes a way to govern the rate and route control of a dc motor with the help of a 4 quadrant dc dc chopper the speed under the base velocity may be controlled by way of armature voltage manage technique mosfets are used for the switching operation of the chopper the gates of those mosfets are given pwm

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the four quadrant chopper block represents a four quadrant controlled chopper for converting a fixed dc input to a variable dc output the block contains two bridge arms each bridge arm each has two switching devices options for the type of

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3 four quadrant operation of dc motor four quadrant operation or mode of any dc motor means that machine operate in four quadrants they are forward breaking mode forward motoring mode reverse breaking or stop mode and reverse motoring mode a motor operates in two modes motoring and breaking a motor drive capable of

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this paper gives a control for three phase brushless dc bldc motor in all four quadrant operation the control system in this paper is capable to detect and identify the rotor position by sensor signal 1 in this paper behaviour of bldc motor is studied in all four quadrant operations through simulation model

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may 11 2021 a four quadrants dc chopper fqdc has been developed to work with a series motor for the application of dc drive electric vehicle in previous work capable of operating in such driving conditions and offers several types of chopper operation modes such as driving and reverse regenerative and resistive braking generator mode field weakening

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aug 8 2020 1 answer sorted by 1 you can think of the first quadrant operation as being a buck converter down from the supply to the motor you can think of the second quadrant as being a boost converter from the motor's generated low voltage

up to the supply voltage

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put simply the four quadrants that the controller can work in are 1 motor going clockwise controller applying clockwise drive 2 motor going anti clockwise controller applying anti clockwise drive 3 motor going clockwise controller applying anti clockwise drive 4 motor going anti clockwise controller applying clockwise drive

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four quadrant operation of dc motor means that the machine operates in four quadrants they are forward braking forward motoring reverse motoring and reverse braking a motor operates in two modes motoring and braking

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1 to observe the four quadrant operation of a dc motor 2 to control a motor under torque control 3 to couple the speed control motor and torque controlled motor and observe the effect of a stepped torque 6 2 four quadrant operation of a dc motor the four quadrant operation is performed by giving an alternating reference speed command to

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aug 16 2021 the four quadrant operation of the motor can be described as follows quadrant i in the first quadrant the developed power by the motor is positive thus the motor operates in motoring mode and converts electrical energy into mechanical energy therefore the operation of the motor in first quadrant is called forward motoring quadrant ii

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the control of bldc motor in four quadrants is very crucial in this paper bldc motor is controlled in all the four quadrants without any wastage of power during regenerative braking period power generated is being stored in the chargeable battery

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aug 3 2019 introduction in this experiment four quadrant operation of a dc motor is simulated as well as run in real time the speed and current control model developed in the previous experiment is used to emulate the four regions of operation theoretical background consider an elevator system shown in figure below

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four quadrant operation of a pm dc motor 5 1 objective the objective of this activity is to analyze the four quadrant operation of a permanent magnet dc pm dc motor this activity was derived from those developed and distributed by the university of minnesota umn 5 2 review of four quadrant operation