

**OWNER'S MANUAL SUPPLEMENT - PN 9916742
2002 SPORTSMAN 500 HO**



IMPORTANT: This is a supplement to your owner's manual. This information should remain with your owner's manual at all times.

Capacities	
Body Style	Gen IV
Gross Vehicle Weight	1200 Lbs.
Fuel Capacity	5.25 U.S. Gallons
Gearcase Oil	32 Ounces
Engine Oil Capacity	2 Quarts
Front Rack (Maximum - Capacity)	90 Lbs.
Rear Rack	180 Lbs.
Tongue Weight	35 Lbs.
Tow Hitch	Standard
Tow Capacity	1225 Lbs.
Turn Radius	65"
Ground Clearance	11"
Height	47"
Length	81"
Seat Height	34"
Dry Weight	697
Wheel Base	50.50 "
Width	46"
Suspension and Brakes	
Front Susp. - Mac Strut	6.7"
Rear Susp. - Progressive rate, fully independent with anti-roll-bar	9.5"
Shock Adjustment	CAM
Front Brake	Hydraulic Disc
Rear Brake	Hydraulic, opposed piston caliper, fixed disc
Auxiliary Brake	Hydraulic, opposed piston caliper, fixed disc
Park Brake	Hydraulic lock, all wheel
Drive System	
Drive System Type	EBS
Shift Type	Side Lever (Hi/Lo-R-N)
Gear Reduction - Low	8.27/1
Gear Reduction - Reverse	5.17/1
Gear Reduction - Forward	3.34/1
Front Drive (ratio)	2:1
Final Drive (ratio)	3.16:1
Front Tire (psi)	25 x 8-12 (5 psi)
Rear Tire (psi)	25 x 11-10 (5 psi)

Engine & Cooling	
Engine Model Number	EH50PLE-13
Engine Type	4 Cycle, Single Cylinder
Lubrication	Dry Sump
Bore x Stroke	92 x 75
Displacement	498
Compression Ratio	10:2 Full Stroke
Engine Cooling	Liquid
Alternator Output (watts)	250
Carburetion	1/BST40
Main Jet	152.5
Pilot Jet	40
Needle Jet	X-6
Pilot Screw	2 Turn
Jet Needle	6MEH1-94-3
Ignition	CDI
Timing	30 @ 5000
Spark Plug Gap	.9 mm/.036 in.
Spark Plug Type	NGK BKR6E
Exhaust	USFS Approved
Features	
Headlight (watts)	On Handlebar - 1 single beam, 50 / on Grill - 2 single beam, 27
Taillight (watts)	8.26
Brake Light (watts)	26.9
3-Point Hitch	Accessory
Battery	12V 14AH
DC Plug In - Rear	Accessory
DC Socket - Forward	Standard
Electric Start	Standard
High Beam Indicator	Standard
High Temp Indicator	Standard
Windshield	Accessory
Neutral Indicator	Standard
Reverse Indicator	Standard
Speedometer	Standard
Tool Kit	Standard

Carburetor Jetting

Clutching Chart

Altitude Meters (Feet)	AMBIENT TEMPERATURE		Helix*
	Below 40° F Below 5° C	+40° F and above +5° C to and above	
0-1800 (0-6000)	157.5	152.5	EBS 5131674
1800-3700 (6000-12000)	150	145	EBS 5131674

EBS models require no helix / spring adjustment

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WIRES ARE REPRESENTED BY SOLID OR DASHED LINES TO SIMPLIFY TRACING IN DIAGRAM.

WS_A02CH50AA-AD

COLOR CODE:
 BLK = BLACK
 BRN = BROWN
 GRN = GREEN
 PUR = PURPLE
 BLU = BLUE
 GRY = GRAY
 OR = ORANGE
 Y = YELLOW
 R = RED
 W = WHITE

SPICE LOCATED IN WIRELESS BETWEEN ENDS TO
 GRAY/WHITE IGNITION COIL GROUND (HOTLAMP SWITCH)
 KEY/WHITE RH HANDLEBAR CONTROL (HIGH BEAM)
 BROWN LH HANDLEBAR CONTROL (HIGH BEAM)

GROUNDING:
 ▽ = ENGINE GROUND
 ▽ = CHASSIS GROUND

WIRE TYPES:
 TWO COLOR WIRES ARE SHOWN WITH MULTICOLOR CODES:
 R/Y = RED WITH YELLOW TRACKER
 NC = SWITCH NORMALLY CLOSED
 NO = SWITCH NORMALLY OPEN

