

**OWNER'S MANUAL SUPPLEMENT
2002 SPORTSMAN 400
PN 9916852**



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
Oil Capacity	2 Quarts
Front Rack (Maximum - Capacity)	90 Lbs.
Rear Rack	180 Lbs.
Tongue Weight	30 Lbs.
Tow Hitch	Standard
Tow Capacity	850 Lbs.
Turn Radius	65"
Ground Clearance	11"
Height	47"
Length	81"
Seat Height	34"
Dry Weight	697
Wheel Base	50.50 "
Width	46"
Drive System	
Drive System Type	Dual sensing, Automatic PVT (Polaris Variable Transmission)
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)
Rear Tire (PSI)	25 x 11-10 (5)

Suspension and Brakes	
Front Susp. - Mac Strut	6.7"
Rear Susp., 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
Engine & Cooling	
Engine Model Number	EH42PLE-05
Engine Type	4 Cycle, Single Cylinder
Lubrication	Dry Sump
Bore x Stroke	87.9 x 70
Displacement	425
Compression Ratio	9:2 Full Stroke
Engine Cooling	Liquid
Alternator Output (watts)	200
Carburetion	1/BST34
Main Jet	167.5
Pilot Jet	40
Needle Jet	Q-0 (829)
Pilot Screw	2 3/4 Turn
Jet Needle	4GAC33-3
Ignition	CDI
Timing	30° @ 5000
Spark Plug Gap	.9 mm/.036 in.
Spark Plug Type	NGK BKR5E
Exhaust	USFS Approved

Features	
Headlight (on grill) (watts)	2 single beam, 27
Headlight (on handlebar) (watts)	1 single beam, 60
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	AMBIENT TEMPERATURE	Below +40° F Below +5° C	+40° F & Above +5° C & Above	Altitude	Shift Weight	Drive Clutch Spring	Driven clutch Spring	Helix and Spring Setting	
Meters (Feet)	0-1800 (0-6000)	175	167.5	Meters (Feet)	0-1800 (0-6000)	10BH 5630711	Blue/ Green 7041157	Black 7041782	44-36° 5131447 2+2
	1800 & above (6000 & above)	165	160		1800 & above (6000 & above)	10WH 5630710	Blue/ Green 7041157	Black 7041782	44-36° 5131447 2+2

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

WS_A02CH42AA-AD
JB 3-13-01

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

TWO COLOR WIRES ARE SHOWN WITH HAIRTRACE COLORS. EXAMPLES:
R/Y = RED WITH YELLOW TRACER.
NC = SWITCH NORMALLY CLOSED
NO = SWITCH NORMALLY OPEN

△ = ENGINE GROUND
▽ = CHASSIS GROUND

SPLICE LOCATED IN HARNESS BETWEEN EXITS TO:
GRAY/WHITE LIGHTING COIL CIRCUIT HOTLAMP SWITCH
RED/WHITE RH HANDLEBAR CONTROL HIGH BEAM
BROWN RH HANDLEBAR CONTROL HIGH BEAM

