

2004 SPORTSMAN 700 OWNER'S MANUAL SUPPLEMENT



Engine #
EH068OLE014

Model #:
A04CH68AK A04CH68AL
A04CH68AN A04CH68AO

IMPORTANT: Your 2004 Sportsman 700 was manufactured with one of two possible engines. If the engine in your ATV matches the engine number listed above, disregard the specification information in your owner's manual and refer to this supplement instead. This supplement to your owner's manual should remain with your owner's manual at all times.

Capacities	
Gross Vehicle Weight	1240 lbs./563 kg
Fuel Capacity	4.25 gal./16 l
Hitch Towing Rating	1500 lbs./681 kg
Unbraked Trailer Towing Capacity*	1847 lbs./838 kg
Front Rack Capacity	100 lbs./45.4 kg
Rear Rack Capacity	200 lbs./90.7 kg
Hitch Tongue Capacity	150 lbs./68.1 kg (Rear rack capacity and tongue weight not to exceed 200 lbs./90.8 kg)
Overall Length	81 in./205.7 cm
Overall Width	46 in./116.8 cm
Overall Height	47 in./119.4 cm
Wheelbase	50.75 in./128.9 cm
Ground Clearance	11.25 in./28.6 cm
Dry Weight	747 lbs./339 kg
Minimum Turning Radius	76 in./193 cm unloaded
Engine Oil Capacity	2 qts./1.9 l
Coolant Capacity	3.2 qts./3 l

Drive System	
Driving System Type	4 Wheel Independent Shaft
Shift Type	Side Lever (H/L/N/R/P)
Gear Reduction - Low	7.5/1
Gear Reduction - Reverse	5.11/1
Gear Reduction - High	2.7/1
Drive Ratio - Front	3.82/1
Drive Ratio - Final	3.10/1
Tire Size - Front	25 x 8 - 12 (5 psi)
Tire Size - Rear	25 x 11 - 12 (5 psi)

Features	
Headlight (watts)	1 Single Beam on Handlebar (50 w) 2 Single Beam on Grill (27 w)
Taillights	8.26 w
Brake Light	26.9 w
Instrument Cluster	LCD

Engine and Cooling	
Engine	EH068OLE014
Displacement	683
Bore x Stroke	80 x 68
Pilot Jet	47.5
Main Jet	155
Needle Jet	P-6(829)
Jet Needle	J8-4FA01
Pilot Screw	1.0
Alternator Output	330 Watts @ 3000 rpm
Compression Ratio	9.78:1
Starting System	Electric
Carburetor	BST 34mm Mikuni
Ignition System	CDI
Ignition Timing	8° BTDC @ 2000 RPM
Spark Plug / Gap	RC7YC / .035 in. (0.9 mm)
Lubrication System	Pressurized Wet Sump

* based on EU Directive 76/432/EC

Suspension and Brakes	
Front Brake	Hydraulic Disc
Rear Brake	Hydraulic
Parking Brake	Hydraulic lock, all wheel
Front Suspension	MacPherson Strut with 6.8" (17.3 cm) of travel
Rear Suspension	Progressive Rate with 9.8" (24.9 cm) of travel
Shock Adjustment	Rear Spring Preload Adjust

Jetting Chart		
ALTITUDE Meters (Feet)	AMBIENT TEMPERATURE	
	Below 40° F Below 5° C	+40° F and above +5° C and above
0-1800 (0-6000)	160	155
1800-3700 (6000-12000)	147.5	142.5

Clutching Chart				
ALTITUDE Meters (Feet)	Shift Weight	Drive Clutch Spring	Driven Clutch Spring	Helix*
0-1800 (0-6000)	20-56 PN 5631315	Blu/Grn PN 7041157	Wht/Yllw PN 7041635	EBS PN 5132751
1800-3700 (6000-12000)	20-54 PN 5631214	Blu/Grn PN 7041157	Wht/Yllw PN 7041635	EBS PN 5132751

*EBS models require no helix / spring adjustment