

# OWNER'S MANUAL SUPPLEMENT

## 2003 SCRAMBLER 500 4x4



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

<b>Capacities</b>	
Body Style	Gen III
Gross Vehicle Weight	845
Fuel Capacity	3.5 U.S. Gallons
Gearcase Oil	32 Ounces
Engine Oil Capacity	2 Quarts
Front Rack (Maximum Capacity)	Accessory (30 lbs.)
Rear Rack	Accessory (60 lbs.)
Tow Hitch	Accessory
Hitch Tongue Weight Capacity	30 lbs.
Hitch Towing Rating	850 lbs. (386 kg)
Unbraked Trailer Towing Capacity*	1210 lbs. (549 kg)
Turn Radius	60 inches
Ground Clearance	5.5 inches
Height	47 inches
Length	74.5 inches
Seat Height	34 inches
Dry Weight	571 lbs.
Wheel Base	48.5 inches
Width	45.5 inches
<b>Drive System</b>	
Drive System Type	PVT
Shift Type	Side Lever (F-N-R)
Gear Reduction - Low	Not Applicable
Gear Reduction - Reverse	4.74 / 1
Gear Reduction - Forward	3.06 / 1
Front Drive (ratio)	2:1
Final Drive (ratio)	13/36 76P
Center Drive (ratio)	Not Applicable
Drive Chain	520 O-ring
Front Tire	23 x 7 - 10
Rear Tire	22 x 11 - 10
Tire Pressure (front)	4 PSI
Tire Pressure (rear)	3 PSI
<b>Suspension and Brakes</b>	
Front Susp. - Mac Strut	8.2 inches
Rear Susp. - Progressive Rate Swing Arm	10.5 inches
Shock Adjustment	Thread Adjust
Front Brake	Fixed disc, hydraulic floating caliper
Rear Brake	Hydraulic, opposed piston caliper, rear axle fixed disc

<b>Suspension and Brakes</b>	
Auxiliary Brake	Hydraulic, opposed piston caliper, rear axle, fixed disc
Park Brake	Hydraulic lock all wheel
<b>Engine &amp; Cooling</b>	
Engine Model Number	EH50PLE-12
Engine Type	4 cycle, single cylinder
Lubrication	Dry Sump
Bore x Stroke	92 x 75
Displacement	499
Compression Ratio	10:2
Engine Cooling	Liquid
Alternator Output (watts)	250
Carburetion	BST 40
Main Jet	155
Pilot Jet	40
Needle Jet	Y-0
Pilot Screw	2.0
Jet Needle	6H25-94-3
Ignition	CDI
Timing	30° @ 5000 ± 2
Spark Plug Gap	.036 inches / .9 mm.
Spark Plug Type	NGK BKR6E
Exhaust	USFS Approved
<b>Features</b>	
Headlight (watts)	2 dual beam, 30 / 30
Taillight (watts)	8.26
Brake Light (watts)	26.9
Battery	12 V 14 AH
DC Plug In - Rear	Accessory
DC Socket - Forward	Accessory
Electric Start	Standard
High Beam Indicator	Standard
High Temp Indicator	Standard
Windshield	Accessory
Low Oil Light	Not Available
Neutral Indicator	Standard
Reverse Indicator	Standard
Speedometer	Accessory
Tool Kit	Standard

\* Based on EU Directive 76/432/EC

### Carburetor Jetting

Altitude	AMBIENT TEMPERATURE	Below +40° F Below +5° C	+40° F & Above +5° C & Above
Meters (Feet)	0-1800 (0-6000)	160	155
	1800 & above (6000 & above)	152.5	147.5

### Clutching Chart

Altitude	Shift Weight	Drive-Clutch Spring	Driven-Clutch Spring	Helix Spring	
Meters (Feet)	0-1800 (0-6000)	10WH (5630710)	Blue/ Green (7041157)	Silver (7041499)	40° (5131446) 1 + 1
	1800 & above (6000 & above)	10RH (5630709)	Blue/ Green (7041157)	Silver (7041499)	40° (5131446) 1 + 1