



SPRAY STAR 3180

MODELS	3182	Computer Spray Control System w/ GPS
	3184	Electric Spray Control System
	3185	Star Command II Raven E-Pro GPS Mapping System/ PWM with 18.5' Boom.
	3186	Star Command II Raven E-Pro GPS Mapping System/ PWM with 20' Boom.
	3187	Star Command I PWM / Raven SCS440 with 20' Boom
	3188	Star Command I PWM / Raven SCS440 with 18.5' Boom
POWER	35.5 HP (26.6 kW) Kubota 1505 four-cylinder diesel engine 12 volt, full pressure lubrication with oil filter. Liquid Cooled.	
CONFIGURATION	4 wheel, mid-mount engine. Rear mount components. Front leaf spring suspension.	
DRIVE	Hydrostatic variable speed pump Hydraulic power to two rear wheel drive motors. Planetary rear drive	
SPEED	Infinitely variable from 0-10 mph (0- 16 kph)	
BRAKING	Dynamic breaking through the hydrostatic transmission Auto spring applied, pressure release parking brake	
BATTERY	Automotive type 24F, 12 volt, 900 CCA minimum	
LIGHTS	Equipped with pair of headlights. Rocker switch operated.	
CONSTRUCTION	Heavy gauge square steel tubing, hydraulically formed, Electrically welded.	
TIRES/WHEELS	Front: (2) 22-11-10	Turf
	Rear: (2) 29-14-15	Multi-Trac
STEERING	Hydraulic power steering with orbital motor. Automotive 15" steering wheel with tilt adjustment 18' (5.5m) outside turning circle	
INSTRUMENTATION	Hour meter, Speedometer, Glow Plug Indicator, Oil Light, Water Temp Light, Speed Lock.	
PRIME MOVER CONTROLS	Pedal Hydraulic Actuation, Hand operated throttle control	
GROUND SPEED CONTROL	Mechanically actuated Smithco "Speed Boss" ground speed control Device to maintain constant ground speed. Electronic cruise. Engine hand operated throttle	
SEAT	Deluxe seat, padded, vinyl covered 1 piece molded, back support. Adjustable operator position. Second seat with seatbelt – optional.	

ELECTRICAL	12 volt battery, 40 AMPS, operator presence switch in seat.
SOUND LEVEL	88.4dB(A) under normal operating conditions (operators position)
DIMENSIONS (Inches/cm)	Length: 134" (340 cm) – Width: 69" (175 cm) Height: 83" (211 cm) Wheel Base: 68" (173 cm) Inside Turning Circle: 96" (243.8 cm) Width with Booms open: 240" (610 cm); Height with Booms folded: 110" (279 cm)
WEIGHT	2340 lbs (1061 kg) dry - 4950 lbs (2245 kg) loaded
LIQUID CAPACITIES	Fuel Capacity: 7 Gallon (26.5 l.) in high density nylon low-perm tank Hydraulic Fluid: 10 gallon (37.8 l) in high density steel tank No.1-D or No. 2-D, S500: Low Sulfur Diesel (LSD) less than 500 ppm or 0.05 wt.% No1-D or No.2-D, S15: Ultra Low Sulfur Diesel (ULSD) less than 15 ppm or 0.0015 wt.%
SAFETY & CONFORMANCE	Auto park brake switch in seat. Neutral start switch for engine start. Complies with all applicable ANSI, OSHA and European Machinery Directive standards. Smithco engineered operator protection structure with seat belts standard

SPRAY COMPONENT

TANK	318 Gallon (1202 liter) capacity Fiber re-enforced polystyrene with UV Inhibitors 16 inch (41 cm) hinged lid and fillwell with built-in locking device and nylon strainer basket in fillwell. Positive feed suction pump
FILTRATION	Downstream spray system protected by nylon reinforced 50 mesh stainless steel strainer. Self Cleaning. Non-Thread fittings with O-ring seals throughout spray system
AGITATION	SMITHCO "Quadra-Jet" Agitator with four venturi volume boosters.
PUMP	Toggle switch at operator position. 10-70 gallons per minute (36-265 lpm) 10-60 psi (0-7.4 bar) High volume centrifugal pump with silicon-carbide seal All stainless steel body, shaft and plugs Built in low pressure warning horn to alert operator to low spray liquid level Built in automatic air bleed system for self re-priming during operation with low liquid levels Belt driven electric clutch from prime mover engine
PERFORMANCE	Spray Performance <ul style="list-style-type: none"> • Application Rates: 20-220 gallons per acre • 0.5-5 gallons per 1,000 sq. Ft. • 180-2050 liters per hectare • Production rate 6.4 acres/hour @ 3.5 mph (5.6 kph) • Up to 75 acres per day

SPRAYER CONTROL SYSTEM

Model 3184 Raven 203 Electric Controller;
- Master on/off Toggle Switch
- 3 Individual Boom Control Toggle Switches
- Spring loaded remote pressure adjustment switch to control motorized butterfly valve
- Oil-Filled Pressure Gauge
- O-ring seal threadless spray system

Model 3182 Raven SCS 440 Computer Spray Control System with GPS Satellite Based Speed Sensor;
- Precise delivery of pre-selected application rate
- 3 Individual Boom Control Toggle Switches
- Record of material applied and area covered
- Foot switch for booms
- O-ring seal threadless spray system

BOOMS

17-580 20 FT. (6 meters) 12-triple nozzle triangular structure boom with tips and strainers, 12 volt powered outer section fold/ deploy.

17-585 18.5ft (5.5m) 11-triple nozzle triangular structure boom with tips and strainers, 12 volt powered outer section fold/ deploy.

OPTIONS & ACCESSORIES

14-515/15-618 Water Fill Meter Kit Gal/Liters

30-162 Foam Marker: Electric Operation, Manual Control

17-590 Lazer-Beam automatic boom height adjustment system

30-009 Manual Hose Reel: 200 ft. (61 m.) Capacity

30-010 Electric Rewind Hose Reel: 200 ft. (61 m.) Capacity

30-006 Clear Water Wash Tank

30-004 Foam Marker

30-007 Chemical Clean-load Safe Fill System

15-835 Tank Rinse System

31-006 All Weather Hard Top Canopy

15-850 Sun Shade Canopy

30-140 26 gal(98 l) Wash Tank System

31-002 Spray Star 3180 Cab (dealer installed)

Smithco "Safe-Fill System"

The Smithco Safe Fill System is a self-contained education system that allows the operator to mix liquid and dry chemicals safely and quickly.

- 316 Stainless steel venturi provides highest education rate and durability against all chemicals.
- Safety - All crop protection chemistry is mixed at ground level. Cleanload eliminates the need for operators to climb on and around machines while handling expensive and dangerous chemicals. Operator exposure to slips, trips, and falls is reduced. Chemical spill potential is reduced, minimizing operator and environmental exposure.
- Optional suction lance allows the operator to educt bulk liquid and dry chemicals (wetttable powders, dry flowables and water-dispersible granules) from large containers without secondary handling.
- Robust tank and bottle rinse nozzles designed to wash Cleanload hopper and triple rinse chemical containers of residue.

