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**MASTER
MANUFACTURING**

ECONOMY ATV SPRAYER



SAO-H3-015B-MM

Note: Do not return product to the distributor/dealer for warranty work. Call Master Manufacturing at (800) 864-1649 for any warranty work or replacement parts.

INTRODUCTION

Your sprayer has been manufactured to provide years of dependable and efficient use. Proper operation and maintenance will ensure long satisfactory service. Study this manual carefully to become familiar with the operation and maintenance instructions.

Keep your manual in a safe, convenient place for future reference. Always mention the model and part number in any correspondence. To insure correct parts service be sure to use the part number and description when ordering.

ASSEMBLY

Please refer to the exploded part diagram for assembly steps below.

- 1) Check inside the sprayer tank and remove any foreign material.
- 2) Locate the two threaded brass inserts on the side of tank and install the two wand clips (item 2) to side of tank using two screws and tighten securely.
- 3) Install drain cap, tether and washer (items 19 & 26) to drain port on sprayer tank. (Drain tether not shown).
- 4) Install tank lid (item 25) and tank lid tether (lid tether not shown) to sprayer tank.
- 5) Locate Gun and coiled hose assembly (Item 30) and attach coiled hose onto 1/4" hose barb (Item 29) located on "O" valve and secure with 1/4" hose clamp (Item 27). Snap spray gun into gun clips attached to tank on step two.
- 6) Locate boom assembly with hose (item 30) and attach boom hose onto 3/8" barb located on "O" valve. Secure hose with 3/8" hose clamp (item 10).
- 7) Place barrel of boom wand into the two wand clips located on the bracket next to the pump (see Figure A). Slide boom forward and back to set optimum spray height of approximately 36". Secure the boom clamp from moving with T-bolt (item 4).
- 8) To reposition boom, loosen T-bolt (item 4), move boom to desired location and retighten T-bolt. Do not over tighten.
- 9) Secure spray tank to trailer or ATV using ratchet straps provided. Ensure tank is securely fastened to vehicle and/or trailer or serious injury may result.
- 10) Attach the wiring harness (item 28) to the pump by locating the two connectors and pushing them together.

OPERATION

Operating power is obtained directly from a 12 VDC source. Be sure to connect the red to the positive (+) source and attach the black to the negative (-) source. Pump operation can be started and stopped with activation of the switch located on the wiring harness.

IMPORTANT: Before spraying chemicals, fill the tank half full of plain water to allow familiarization with the sprayer and to prevent waste of expensive chemicals.

SPRAYER MAINTENANCE

A sprayer is a carefully designed and built machine that should provide many years of reliable service if properly cared for, the main rule in caring for any sprayer is: **KEEP IT CLEAN.** Neglect costs dollars in repairs, wasted spray material and premature replacement of the sprayer.

CLEANING & STORAGE

Most spray materials are highly corrosive. The most important aspect of long dependable service from the sprayer is a thorough cleaning immediately following each use. In addition, the residue of one type of chemical could cause an undesirable effect when a different chemical is used for a different purpose.

The most effective cleaning method is to pump several rinses of clean water through the tank, pump, hoses, boom, spray gun, etc. A neutralizing agent such as a solution of Nutra-Sol, a detergent or household ammonia as recommended by the chemical manufacturer can assist in removal of a persistent chemical. After the system is thoroughly cleaned drain the tank, suction line, pump and hoses.

The following steps should be followed for the maintenance and storage of your sprayer.

1. Wash and flush out sprayer after completion of each phase of your program. Flush out sprayer when changing chemicals if there is a possibility of the chemicals being incompatible. Use of a detergent is advisable if the chemical manufacturer does not make specific cleaning recommendations. Flush system completely, including nozzles. Never use metal objects to open clogged nozzles.
2. Clean sprayer thoroughly before storing at the end of the spraying season. Permanent type anti-freeze added to the final rinse will leave a rust inhibiting film in parts of the sprayer.

WARRANTY PARTS SERVICE

Products sold shall be warranted from defects in workmanship and material when used within the service and scope for which they were designed for a period of one year from date of purchase. Contact Master Manufacturing for replacements parts or warranty work at (800) 864-1649. Do not return product to your distributor/dealer. Please have your original sales receipt or other proof of purchase date when requesting any warranty work. To ensure the correct parts are acquired always provide the model number of your sprayer/attachment and the part number and description obtained from the illustrated parts breakdown in this manual.

Gallons per Acre

PSI	Flow GPM	2 MPH	3 MPH	4 MPH	5 MPH	6MPH	7 MPH
40	2	31	21	16	12	10	9

Figure A





**Master Manufacturing
Econo ATV Sprayer**

Item #	Part Number	Description	Qty.
1	31-100285	Bracket, Mount, Stick Boom	1
2	GC-100-KIT	Clip, Gun (Pair), Includes Screws	1
3	33-100427	Nut, 1/4-20, Self Retaining	1
4	TS-T-1/4-10-1.25	Screw, Thumb, øTö, 1/4 X 1.25ö	1
5	31-100286	Bracket, Lock, Stick Boom	1
6	31-100284	Boom, Stick, No Nozzle	1
7	BN-2BBP125FWX	Nozzle, No-Boom BP, 152 Full	1
8	3NTL1238	ELB.NZTHD:11/16`MPSx3/8`HB	1
9	3NF1614	Coupling: 11/16öFPS X 1/4" FPT	1
10	SHC-E	Snapper Hose Clips, BLK	3
11	EF2200	Pump, 2.2GPM EVERFLO	1
12	33-103231	Tank, 15 Gal, Sprayer	1
13	33-100138	10-24 NUT	2
14	3A38	Straight: 3/8ö MPT X 3/8ö HB Poly	1
15	RCH-14-15	Hose, Recoil, 1/4` DIA,	1
16	SG-4507F	Gun, Wand Spry, W/Filter, w/nozzle	1
17	SG-45ASSY-18	Nozzle	1
18	33-100164	Strap, Ratchet, 1øX 10ø 1200LBS	2
19	33-100176	Gasket, Nozzle	1
20	33-103126	Screw, Machine, 10-24 X 5/8ö	4
21	33-103131	Washer, #10, Zinc	4
22	33-103121	Strainer, Inlet, 3/8ö HB, SS	1
23	PBV-38HB12	Valve, 1/2ö MNPT x 3/8ö hose barb	4
24	3EL1214	Elbow, 1/2ö MNPT x 1/4ö hose barb	1
25	3TT12	Tee, 1/2ö MNPT	1
26	M1238	Adaptor, 1/2ö MNPT x 3/8ö MNPT	1
27	33-103218	Outlet Cap, 3/4` Black	1
28	33-103221	LID, 5`W .25` Hole	1
29	33-103220	Gasket, 3/4ö SuperSeal	1
30	33-103233	Harness, Wire, Switched. 10ft	1
31	SHC-BB	Snapper Hose Clip, Min=.362, Max=.426	2
32	33-103938	Tube, Vinyl Braid, .37x.59 Inlet hose .37öx 18ö, Boom hose .37ö x 14ö	2