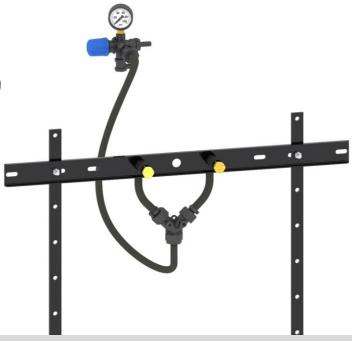


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Master Manufacturing

DUAL NO-BOOM KIT



Part Number SSBK-DNB-2
Part Number SSBK-DNB-3 | Rev 3 July. 2014

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

The purpose of this manual is to assist you in the assembly, operation and maintenance of your sprayer or accessories. Please read through this manual completely too fully understand how to operate and maintain your equipment. This product has been manufactured to provide years of dependable service; proper operation and maintenance will ensure its dependability. Keep your manual in a safe, convenient place for future reference.

Always mention the model and part number in any correspondence. You will need a 3/4" Spade Drill bit in order to drill out a hole for the return hose.

ASSEMBLY

The "Dual No Boom" boom kit is designed to fit many applications. It has been specifically designed to attach easily to other Master Manufacturing products. The following instructions are intended for the attachment of the Dual No Boom kit to a Master Manufacturing spot sprayer, lawn trailer, 3-point sprayer or ATV kit.

Manifold Replacement

- 1.) Remove the existing pump from the tank by removing the four screws.
- 2.) Remove the spray wand hose from the barb fitting on the outlet side of the sprayer pump.
- 3.) Remove the hose barb fitting from the outlet side of the pump.
- 4.) Obtain the new manifold (PN34-140118) and connect to QA Fitting with threaded end.
- 5.) Thread manifold onto pump using thread sealant.
- 6.) Reattach sprayer pump to tank using the screws removed from step 1.
- 7.) Apply a thread sealant too the gauge thread and thread gauge into manifold, tighten securely

Spray Boom Attachment

- 1.) Attach the two upright spray boom brackets (PN 31-100160) to your lawn trailer, ATV angle brackets or other application using the four 5/16-18 x 1 bolts (PN 33-100116) and 5/16 nuts (PN 33-100113).
- 2.) Attach the spray boom (PN 34-140066) to the upright spray boom brackets using two 5/16-18 x 1 bolts (PN 33-100116) and 5/16 nuts (PN 33-100113).
- 3.) Thread on the boom hose to the manifold valve installed previously and tighten securely.
- 4.) Optimum boom height is approximately 36" above the area to be sprayed. Use the location holes in the upright spray boom brackets as adjustments to obtain the optimum spray height.

Wiring Harness

1.) Attach the new wiring harness with inline switch to the sprayer pump by pushing the two terminal connectors together.

OPERATION

Using the Dual No Boom

- Four things must be considered before spraying with the boom.
 - 1. How much chemical must be mixed in the tank?
 - 2. Rate of spray (gallons per acre to be sprayed.)

- 3. What pressure (P.S.I) will be used.
- 4. Speed traveled (M.P.H.) while spraying.
- 5. Boom height and spray pattern
- Refer to the chemical label to determine the chemical mixture.
- See the tip chart to determine the pressure, speed and rate of spray to be used for your application.
- Check the spray pattern with water only. Usually you can see the coverage better on a solid concrete surface, such as a driveway.
- Raise or lower the nozzles so that you will have a good coverage pattern. If you can see dry spots on the concrete surface you will need to raise the nozzles. Too much solution in the pattern areas means you need to lower the nozzles. Generally the proper height will be approximately 36" from the ground.

Operation and Maintenance

The two nozzles on the boom will spray up to a 16' wide spray pattern with both nozzles or an 8' wide pattern with a single nozzle. The spray pattern width will change with pressure. Ideal height would be approximately 36" above the ground and 30 psi pressure.

Left, right or both nozzles can be turned on or off buy the garden Hose "Y" valve located near the nozzles.

Once you know how much you are going to spray then determine (from the tip chart) the spraying pressure (PSI) and the spraying speed (MPH). The pressure can be set by running the sprayer with the boom nozzles "ON" and then by adjusting the garden hose valve lever until the gauge reads the desired pressure. Notice that the pressure will go up when the garden hose valve is slowly closed.

When selecting pressure from the tip chart, it is a good idea to try for the 30 PSI range as this will allow for an excellent nozzle pattern. Conditions of weather and terrain must be considered when setting the sprayer. Do not spray on windy days. Protective clothing must be worn in some cases. Be sure to read the chemical label carefully.

After all calibrations have been completed, add water and chemical to the tank. Always follow chemical manufacturer's instructions for mixing.

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. When the system is thoroughly cleaned drain the tank, suction line, pump, hoses, etc.

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. Warranty covers replacement parts ONLY. Contact Master Manufacturing for warranty parts 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 parts. 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.

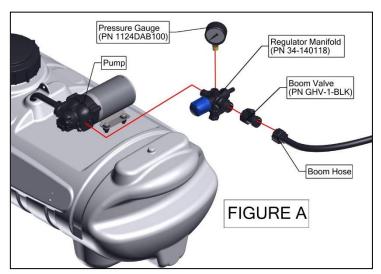
Gallons Per Acre per nozzle

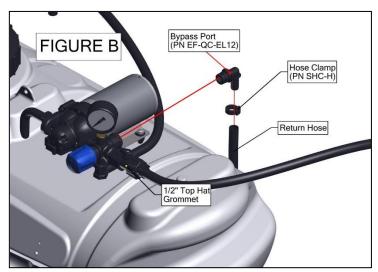
Nozzle part #	Pattern	PSI	Flow GPM	2 mph	3 mph	4 mph	5 mph	6 mph	7 mph
2 GPM pumps		20	0.8	12.4	8.3	6.2	5.0	4.1	3.5
BN2BP088RSX	16 FT	30	1.0	15.5	10.3	7.7	6.2	5.2	4.4
BN2BP088RSX		40	1.2	18.6	12.4	9.3	7.4	6.2	5.3
3 GPM pumps		20	1.2	18.6	12.4	9.3	7.4	6.2	5.3
BN2BP116LSX	22 FT	30	1.4	21.7	14.4	10.8	8.7	7.2	6.2
BN2BP116RSX		40	1.6	24.8	16.5	12.4	9.9	8.3	7.1
Note: All GPA calculations above are per nozzle									

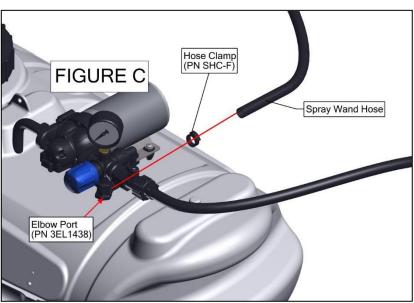
Pump Assembly

Your pump comes attached to the tank with the Inlet hose already attached. You will need to attach the Regulator Manifold to the pump following the steps below and the diagrams included.

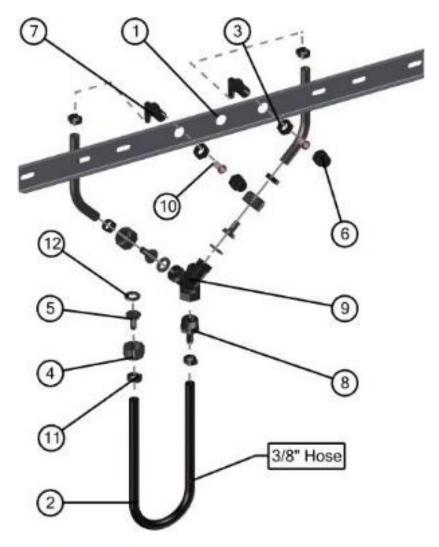
- 1.) Move the Outlet Port Clip on the pump into the Open position.
- 2.) Obtain the Regulator Manifold(PN 34-140118) and slide into the Outlet Port of the pump so that the Blue Knob is facing the front of the pump as seen in FIGURE A
- 3.) Obtain the Boom Valve(PN GHV-1-BLK) and thread onto the Garden Hose Fitting on the Regulator Manifold(PN EF-QC-E34)
- 4.) Obtain the Boom Hose and thread onto the Boom Valve you just attached to the Regulator Manifold
- 5.) Obtain the Pressure Gauge (1124DAB100) and thread into the Top Port on the Regulator manifold.
- 6.) Attach Return Line Hose to Bypass Port (PN EF-QC-EL12) and push other end through the ½" Top Hat Grommet in Tank. FIGURE B
- 7.) Attach Hose Clamp to Hose. Make sure that the clamp is on the Bypass Port
- 8.) Attach Spray Wand Hose to Elbow Port on bottom of the Regulator Manifold(PN 3EL1438) FIGURE C
- 9.) Attach Hose Clamp to Hose. Make sure that the clamp is on the Elbow Port



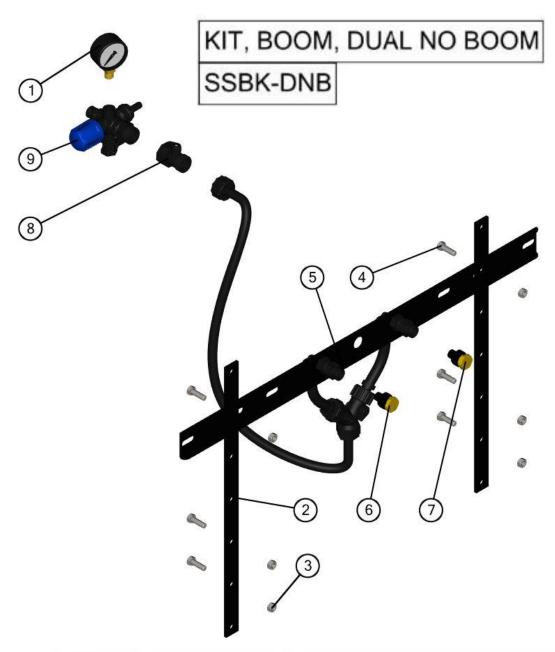




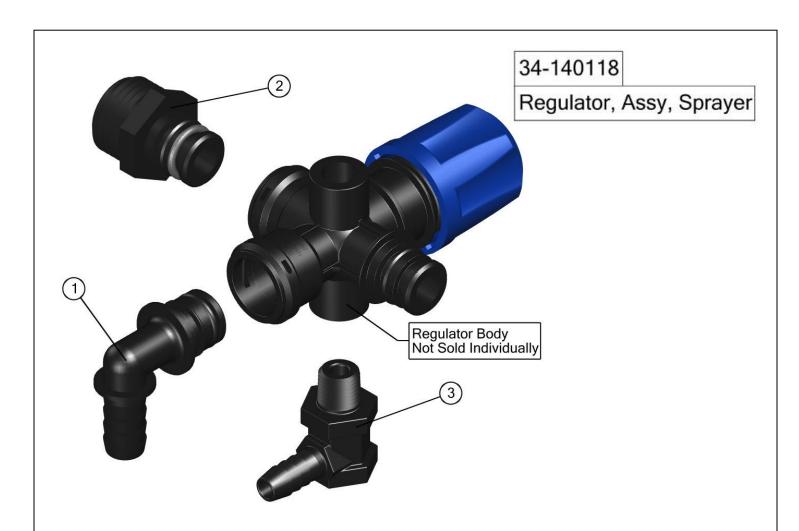
DUAL NO BOOM ATV KIT 34-140066



BOM ID Name		Description (config)			
1	31-100141	Bracket, No Boom Mount	1		
2	3204-1407		1		
3	3B12	11/16 - 16 UN NOZZLE NUT	2		
4	3B34	Swivel Nut: Knurled 3/4"FGHT	3		
5	3C38	Flat Seat Hose Barb, 3/8" HB	3		
6	3NF1614	COUPLING, 1/4-18 FEMALE PIPE THREAD TO 11/16-16 FEMALE STRAIGHT THREAD	2		
7	3NTL38-C	Elbow: NxTHd-11/16"MPS x 3/8"HB	2		
8	D3438	3/4 MALE GARDEN HOSE TO 3/8" HOSE BARB	1		
9	GHV-2-BLK	Valve, 3/4" FGHT (Inlet)	1		
10	NS-50	NOZZLE STRAINER	2		
11	SHC-F	Snapper Hose Clamps, BLK	6		
12	W406V	WASHER: 1"OD X 3/4" ID	3		



BOM ID	Name	Description	Qty
1	1124DAB100	Gauge, 2"ABS 1/4"LM 100PSI	1
2	31-100160	Bracket, Upright, Spray Booms	2
3	33-100113	Nut, 5/16-18, Serrated Flange	6
4	33-100116	Bolt, 5/16-18 x 1"	6
5	34-140066	DUAL NO BOOM ATV KIT	1
6	BN2BP116LSX	Nozzle, No-Boom BP, 116 Left	1
7	BN2BP116RSX	Nozzle, No-Boom BP, 116 Right	1
8	GHV-1-BLK	Valve, 3/4" FGHT x 3/4" MGHT	1
9	34-140118	Regulator, Assy, Sprayer	1



BOM ID Name		Description		
1	EF-QC-EL12	Fitting, Elbow, QA x 1/2"HB, Black	1	
2	EF-QC-E34	Fitting: 3/4"Garden Hose x QC	1	
3	EF-QC-EL1438	Elbow: 1/4"MPT x 3/8"HB Poly	1	