



OPERATIONS & PARTS MANUAL

FOR MODELS:
• 90.700.302

PURCHASE DATE	MODEL NO.	SERIAL NUMBER
DEALER		

TABLE OF CONTENTS

3	Introduction
4	Operation
5	Assembly Instructions & Parts
7	Exploded View & Parts Breakdown

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 to fully understand how to operate and maintain your equipment. This product has been manufacturer 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 seven-foot boom kit is designed to fit many applications. It has been specifically designed to attach easily to other Agriease products. The following instructions are intended for the attachment of the seven foot boom to an Agriease 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 form 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 to the gauge thread and thread gauge into manifold, tighten securely.

Spray Boom Attachment

1. Attach the two upright boom brackets (PN 31-100160) to your lawn trailer, ATV angle brackets or other applications using the four 5/16-18x1 bolts (PN 31-100116) and 5/16 nuts (PN 33-100113).
2. Attach the spray boom (PN 34-140052) to the upright spray boom brackets using two 5/16-18x1" bolts (PN 33-100116) and 5/16 nuts (PN33-100113).
3. Thread on the boom hose to the manifold valve installed previously and tighten securely.
4. Optimum boom height is 14 to 15 inches above 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 Boom Nozzles

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 (PSI) will be used.
 4. Seed traveled (MPH) 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 from 13 inches to 18 inches from the ground.

Operation & Calibration

The nozzles on the boom will spray an 80" wide swath. The nozzle height is approximately 15" above the object being sprayed.

Once you know how much you are going to spray then determine (from the tip chart) the spraying pressures (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 bypass 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 20 or 30 PSI range as this allows an excellent nozzle pattern. At 10 PSI the pattern begins to break up and at 40 PSI you may notice some drift. 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.

Before spraying chemicals, fill the tank half full of plain water to allow familiarization with the sprayer and to prevent waste of expensive chemicals. After all calibrations have been completed, add water and chemicals 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 undesired 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 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.

SPRAYER TIP CHART

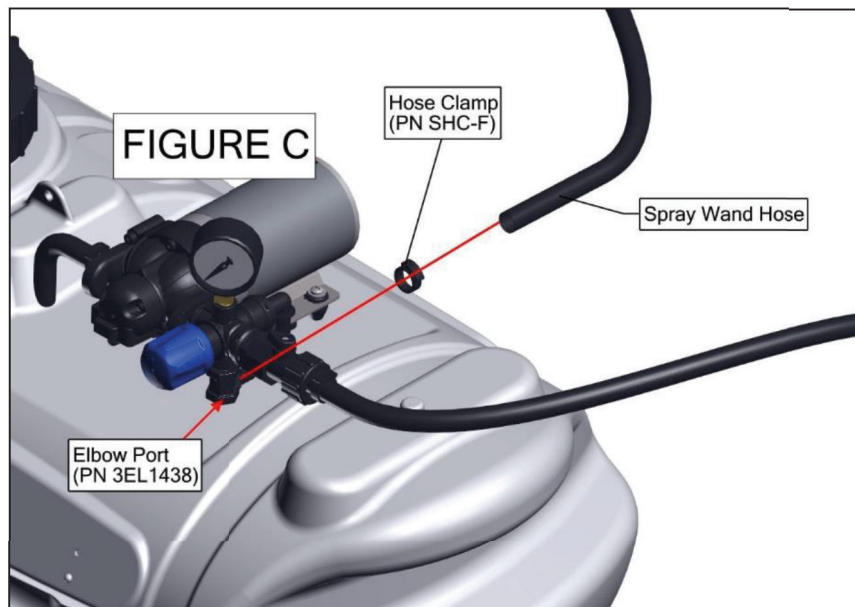
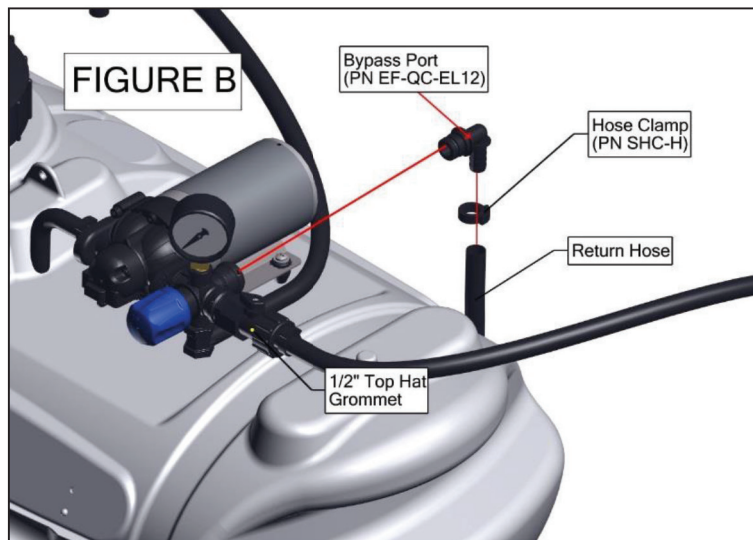
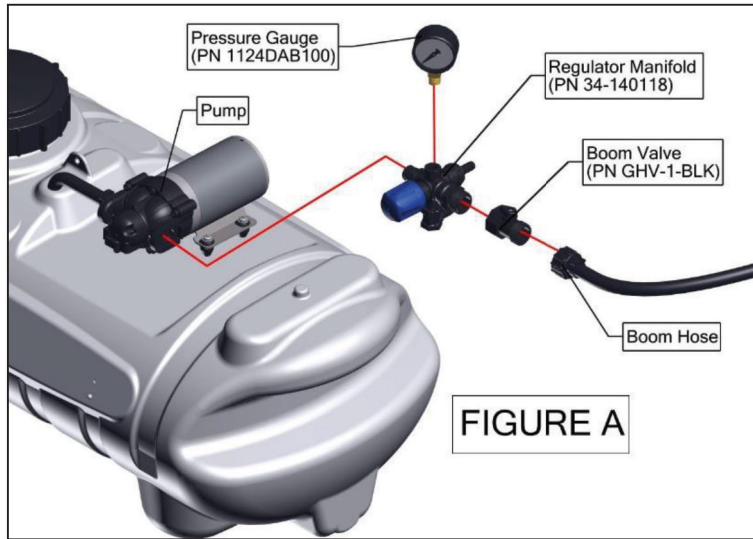
GALLONS PER ACRE (40" SPACING) (US GALLONS)									
PART NO.	PSI	FLOW (GPM)	4MPH	5MPH	6MPH	7MPH	8MPH	9MPH	10MPH
DF2.0	15	0.24	8.9	7.1	5.9	5.1	4.5	4.0	3.6
Red Colored	20	0.28	10.4	8.3	6.9	5.9	5.2	4.6	4.2
Nozzle	30	0.35	13.0	10.4	8.7	7.4	6.5	5.8	5.2
	40	0.4	14.9	11.9	9.9	8.5	7.4	6.6	5.9
	60	0.49	18.2	14.6	12.1	10.4	9.1	8.1	7.3
PART NO.	PSI	FLOW (GPM)	4MPH	5MPH	6MPH	7MPH	8MPH	9MPH	10MPH
DF2.5	15	0.31	11.5	9.2	7.7	6.6	5.8	5.1	4.6
Brown Colored	20	0.35	13.0	1.4	8.7	7.4	6.5	5.8	5.2
Nozzle	30	0.43	16.0	12.8	10.6	9.1	8.0	7.1	6.4
	40	0.5	18.6	14.9	12.4	10.6	9.3	8.3	7.4
	60	0.61	22.6	18.1	15.1	12.9	11.3	10.1	9.1
PART NO.	PSI	FLOW (GPM)	4MPH	5MPH	6MPH	7MPH	8MPH	9MPH	10MPH
DF3.0	15	0.37	13.7	11.0	9.2	7.8	6.9	6.1	5.5
Grey Colored	20	0.42	15.6	12.5	10.4	8.9	7.8	6.9	6.2
Nozzle	30	0.52	19.3	15.4	12.9	11.0	9.7	8.6	7.7
	40	0.6	22.3	17.8	14.9	12.7	11.1	9.9	8.9
	60	0.73	27.1	21.7	18.1	15.5	13.6	12.0	10.8

Note: All GPA Calculations above are per nozzle.

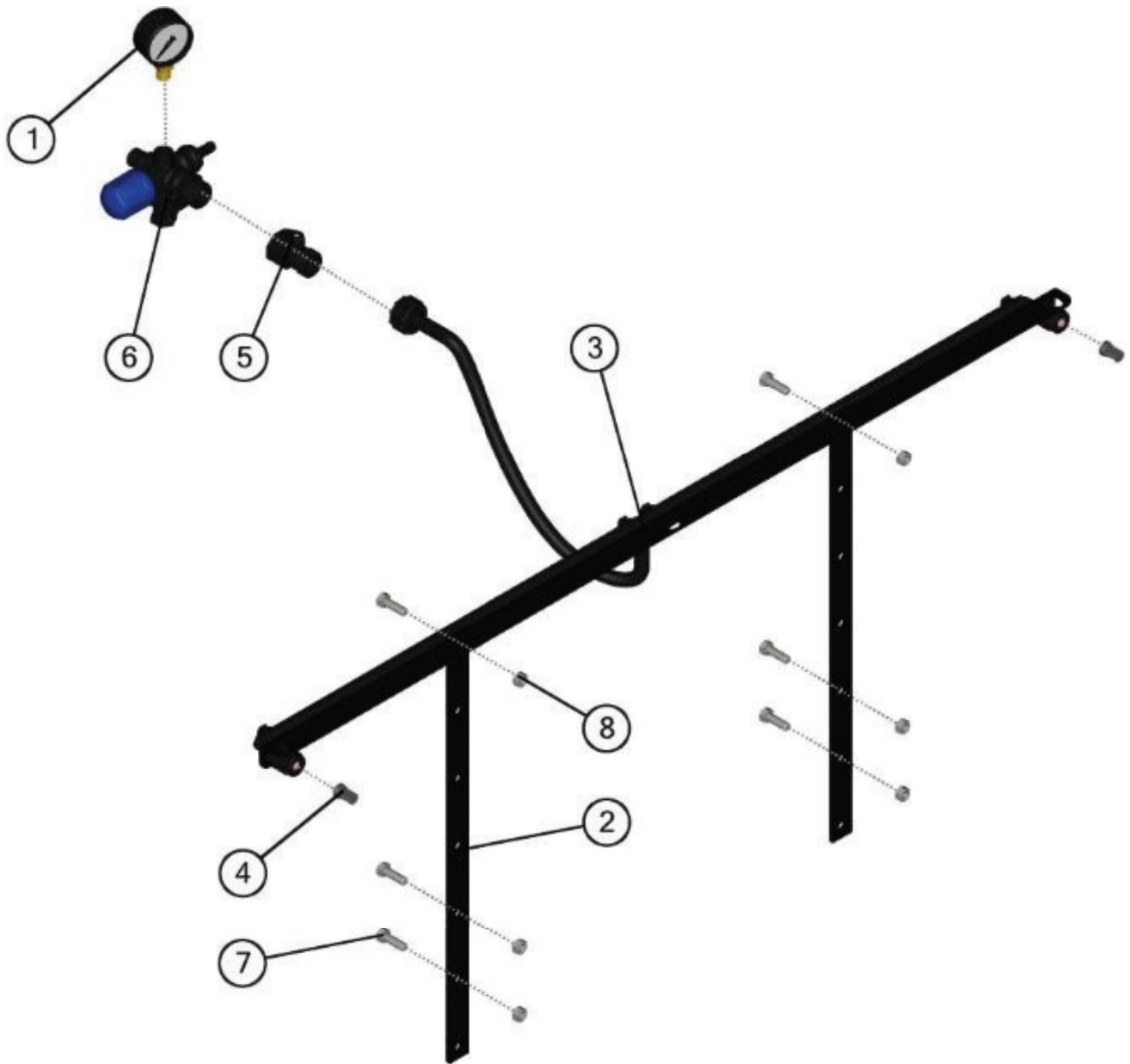
PUMP ASSEMBLY

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 diagram 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 it into the top port on the regulator manifold.
6. Attach the return line hose to bypass port (PN EF-QC-EL2) and push other end through the 3/4" hole 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.

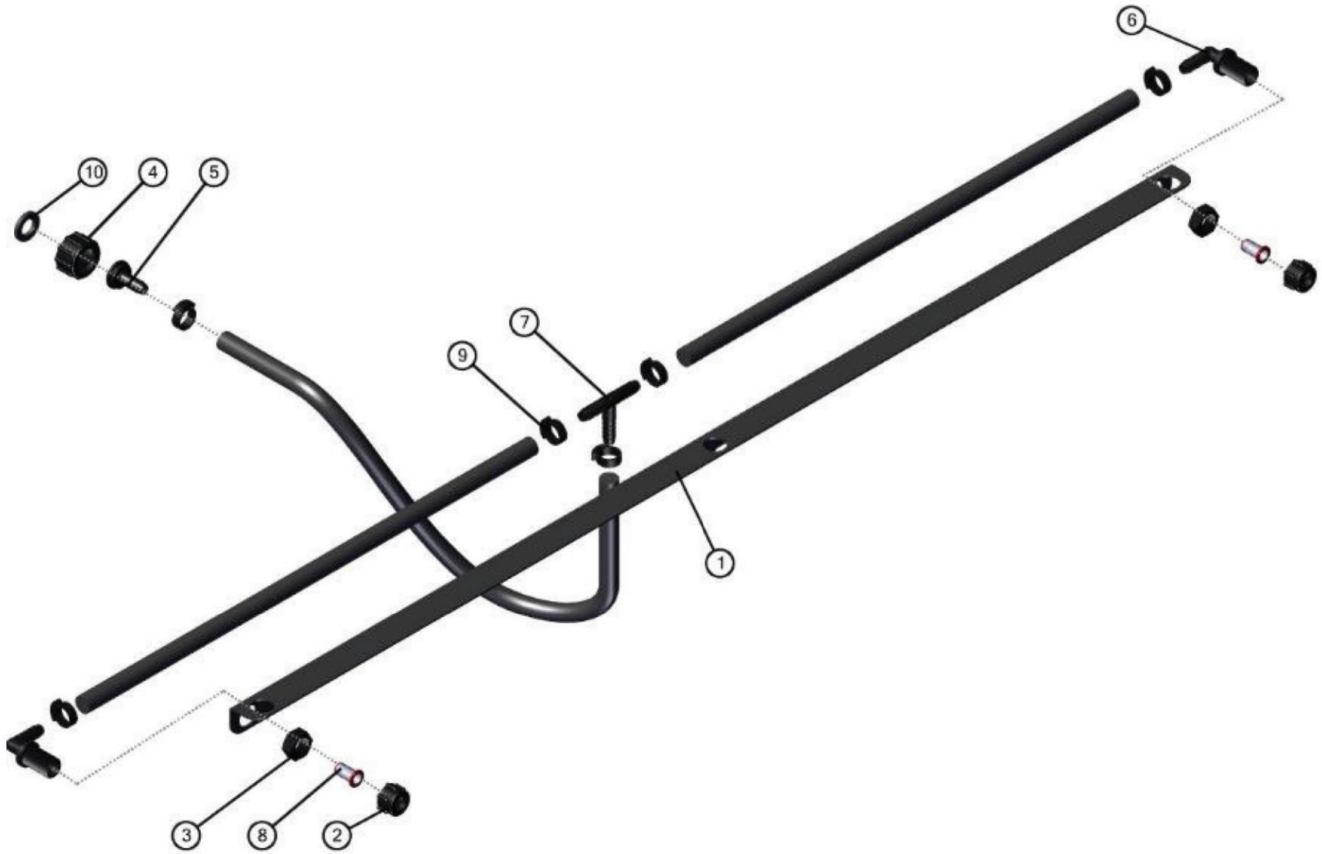


EXPLODED VIEW & PARTS BREAKDOWN



REF	PART NO.	DESCRIPTION	QTY
1	1124DAB100	Gauge, 2" ABS 1/4" LM 100 PSI	1
2	31-100160	Bracket, Upright, Spray Booms	2
3	34-140052	Assem, Boom 7 Foot	1
4	DF3.0	Nozzle, Deflect Tip, 3.0	2
5	GHV-1-BLK	Valve, 3/4" FGHT x 3/4"MGHT	1
6	34-140118	Regulator, Assy, Sprayer	1
7	33-100116	Bolt, 5/16-18x1"	6
8	33-100113	Nut, 5/16-18, Serrated Flange	6

7 FT BOOM ASSEMBLY (34-140052)



REF	PART NO.	DESCRIPTION	QTY
1	31-100120	Boom, 7 Foot	1
2	38027	Nozzle Nut, 11/16" FPS, Poly	2
3	3B12	Nozzle Nut, 11/16" Poly	2
4	3B34	Swivel Nut: Knurled 3/4" FGHT	1
5	3C38	Flat Seal Hose Barb: 3/8" HB	1
6	3NTL38-C	Elbow: NxTHd-11/16" MPS x 3/8" HB	2
7	3T38	Tee: 3/8" HB x 3/8" HB x 3/8" HB	1
8	NS-50	Nozzle Strainer, 50M Red	2
9	SHC-F	Snapper Hose Clip	6
10	W406V	Washer: 1" OD x 3/4" ID	1

REGULATOR ASSEMBLY (34-140118)



REF	PART NO.	DESCRIPTION	QTY
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



BRABEREQ.COM
WGSALES@BRABEREQ.COM

PHONE: 604-850-7770
FAX: 604-850-7774
TOLL FREE PHONE: 1-877-588-3311
TOLL FREE FAX: 1-800-665-7334