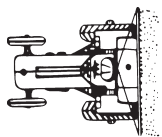


50 GALLON SKID with HAND GUN and BOOMINATOR TIPS



(PRICES SUBJECT TO CHANGE WITHOUT NOTICE)



van's

EQUIPMENT COMPANY

P.O. BOX 3157 • 2169 SYLVESTER HIGHWAY • MOULTRIE, GEORGIA 31776-3157

We Appreciate You and Your Business!

(229) 985-1101

**VAN'S EQUIPMENT
BUILT FOR FARMING INTEGRITY**

WHEN SELECTING EQUIPMENT FOR FARMING THE NAME VAN'S means availability, reliability, and proven superiority. Maintaining a close association with farming customers has resulted in equipment design and manufacturing philosophy that reflects the exacting requirements of our customers.

Van's Equipment Company, Inc. appreciates your purchase of a new spray unit. This unit, is designed to give years of service with proper care. The following pages will be helpful in set-up and maintenance of your new unit.

PLEASE READ THIS MANUAL CAREFULLY BEFORE INITIAL START-UP IS ATTEMPTED.

**WE APPRECIATE YOU
AND YOUR BUSINESS**

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3-4.....BREAKDOWN and MATERIAL LIST

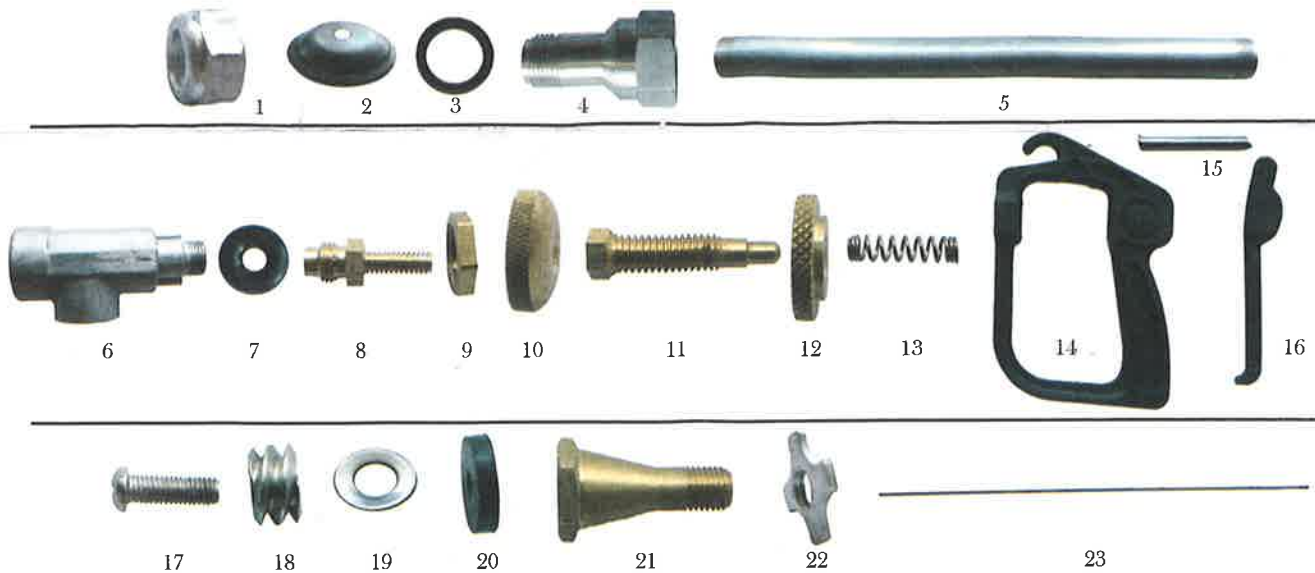
5-28.....PUMP AND OPERATING INSTRUCTIONS

29-30.....TIP SPECS



SUPER-JET Trigger Spray Gun

13" Trigger Spray Gun with 1/2" FPT Inlet
Fully Adjustable Spray Pattern; Up to 800 PSI
Model No.1700A-02-013



PARTS LIST

Part Number	Description	Part Number	Description
1	Cap	13	Spring
2	#5 Orifice Disc	14	Plastic Handle *
3	Disc Gasket	15	Grooved Pin
4	Nozzle Head	16	Plastic Trigger *
5	Aluminum Barrel	17	Screw
6	Manifold Tee	18	Swirl Baffle
7	O'Ring	19	Baffle Washer
8	Tee Plug	20	Flat Valve
9	Locknut	21	Valve Holder
10	Lock Wheel	22	Rod Guide
11	Spring Button	23	Valve Rod
12	Adjustment Wheel		

* THERMAL PLASTIC HANDLE AND TRIGGER ARE STANDARD
IF YOU PREFER COATED ALUMINUM, PLEASE USE THE FOLLOWING NUMBERS WHEN ORDERING:

1600-002-02PC ALUMINUM HANDLE

1600-003-02PC ALUMINUM TRIGGER

WHL W.L.HAMILTON & CO.

Phone:269-781-3100

Fax:269-781-6963

E-mail:sales@wlhamiltonco.com

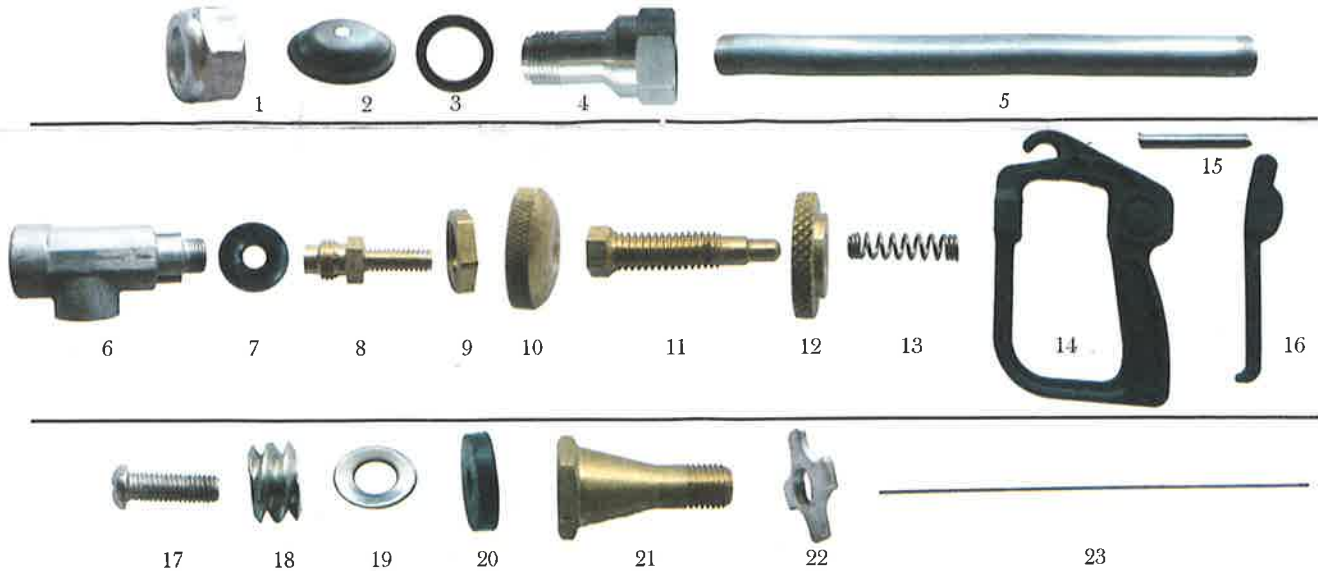
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SUPER-JET Trigger Spray Gun

13" Trigger Spray Gun with 1/2" FPT Inlet
Fully Adjustable Spray Pattern; Up to 800 PSI
Model No.1700A-02-013



PARTS LIST

Part Number	Description	Part Number	Description
1	1005-003-02 Cap	13	1600-004-03 Spring
2	1005-004-32-05 #5 Orifice Disc	14	1600-002-58 Plastic Handle *
3	1005-054-11 Disc Gasket	15	1600-051-10 Grooved Pin
4	1005A-008-02 Nozzle Head	16	1600-003-58 Plastic Trigger *
5	1103A-001-02 Aluminum Barrel	17	1005-057-02 Screw
6	1700-001-02 Manifold Tee	18	1005-006-02 Swirl Baffle
7	1600-050-09 O'Ring	19	1005-005-02 Baffle Washer
8	1700-003-01 Tee Plug	20	2040-052-06 Flat Valve
9	1600-008-01 Locknut	21	1700-006-02 Valve Holder
10	1700-002-01 Lock Wheel	22	1000-014-02 Rod Guide
11	1700-005-01 Spring Button	23	1700-008-03 Valve Rod
12	1700-004-01 Adjustment Wheel		

* THERMAL PLASTIC HANDLE AND TRIGGER ARE STANDARD
IF YOU PREFER COATED ALUMINUM, PLEASE USE THE FOLLOWING NUMBERS WHEN ORDERING:

1600-002-02PC ALUMINUM HANDLE

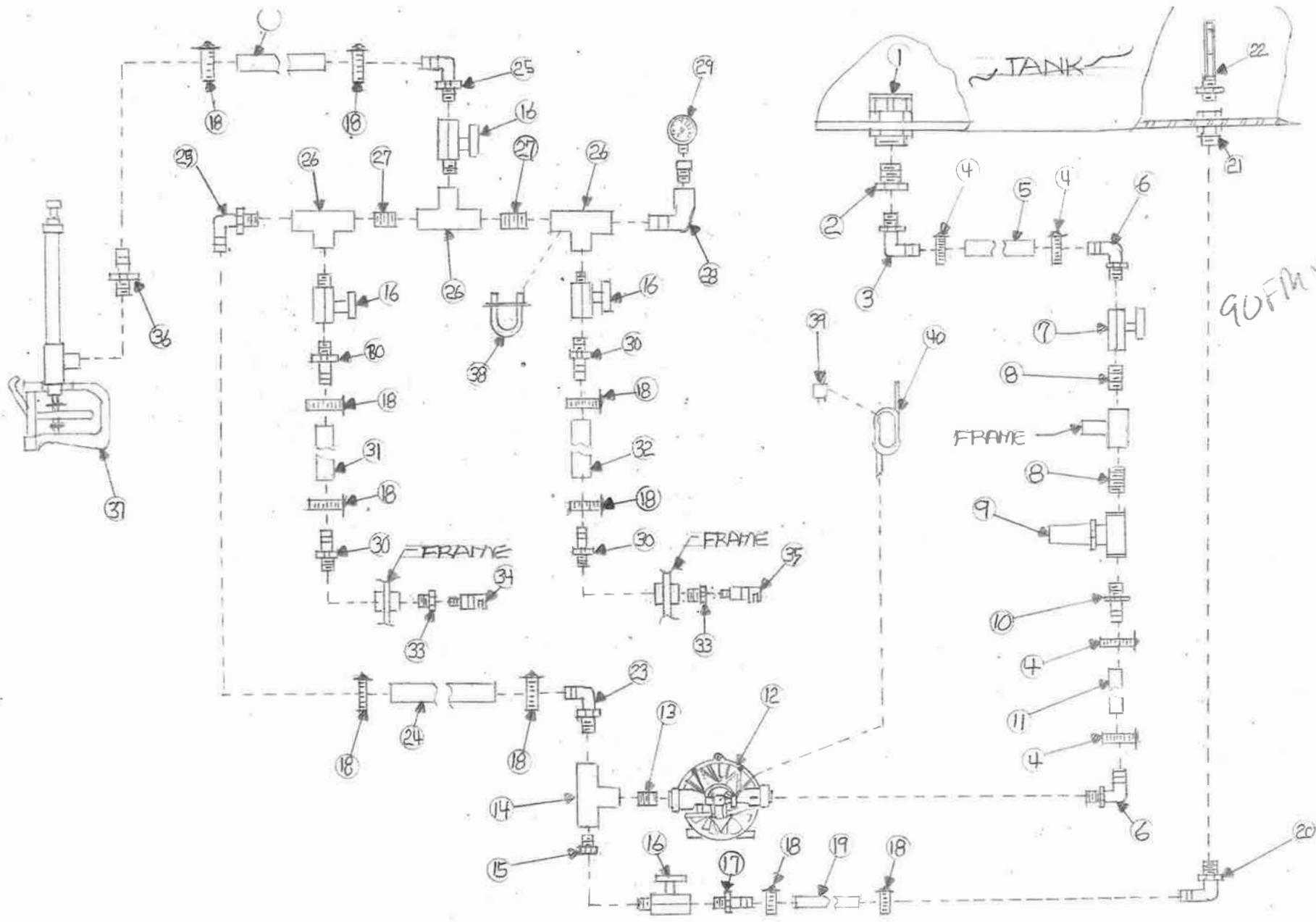
1600-003-02PC ALUMINUM TRIGGER



Phone: 269-781-3100
Fax: 269-781-6963

E-mail: sales@wlhamiltonco.com
Website: wlhamiltonco.com

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or prepayment by check or money order
No Credit Cards accepted
All prices subject to change without notice



90FM1312

NO.	DESCRIPTION	PART NO.
1	Tank Fitting 1 1/4" Anti-Vortex	63065
2	Reducer Bushing 1 1/4" x3/4" Nylon	3RB11434
3	Elbow 3/4" MPT x Barb 1/2" 90	3EL3412
4	Hose Clamp 1/2"	8H
5	Hose Black Ag 1/2"	10031730
6	Elbow MPT x Barb 1/2" 90	3EL12
7	Ball Valve 1/2" brass (chrome)	90FMB12
8	Nipple 1/2" x Close Galvanized	GN121
9	Strainer 1/2" FPT 50M EPDM	AA122ML-PP-50
10	Hose Shank 1/2" Nylon	3A12
11	Hose Black Ag 1/2"	10031730
12	Pump	EF5500-BOX
13	Nipple 1/2" x Close Galvanized	GN121
14	Tee FPT 1/2" Nylon	3TT12
15	Reducer Bushing 1 /2" x3/8" Nylon	3RB1238
16	Ball Valve 3/8" brass (chrome)	90FMB38
17	Hose Shank 3/8" Nylon	3A38
18	Hose Clamp 3/8"	6H
19	Hose Red Ag 3/8"	3204-0405
20	Elbow 3/8" MPT x Barb 90	3EL38
21	Tank Fitting 3/4" Double Thread	60401
22	Jet Agitator	3371-0019
23	Elbow 1/2" MPT x 3/8" Barb 90	3EL1238
24	Hose Black Ag 3/8"	10031720
25	Elbow MPT x Barb 3/8" 90	3EL38
26	Tee FPT 3/8" Nylon	3TT38
27	Nipple 3/8" x Close Nylon	3M38
28	Street Elbow 3/8" Nylon	3SE38
29	Pressure Gauge 0-60 Dry	SG-60
30	Hose Shank MPT x Barb 3/8" Nylon	3A38
31	Hose Black Ag 3/8"	10031720
32	Hose Black Ag 3/8"	10031720
33	Reducer Bushing 3/8" x 1/4" Galvanized	GB3814
34	Boominator tip	BN1200PSL
35	Boominator tip	BN1200PSR
36	Hose Shank 1/2"MPT x 3/8" Barb Nylon	3A1238
37	Hand Gun	1700-02-013
38	U-Bolt 1/4" x 1 1/8" x 3 1/2"	SQU1418312
39	Toggle Switch	53-212
40	Wiring Harness	WR-1



ITEM NUMBERS:

EF1000	1.0 GPM
EF2200	2.2 GPM
EF2200-QA	2.2 GPM
EF3000	3.0 GPM
EF3000-QA	3.0 GPM
EF4000	4.0 GPM
EF4000-QA	4.0 GPM
EF5500	5.5 GPM
EF5500-QA	5.5 GPM

(Includes Boxed Models)

SERIAL NUMBER: _____

Owner's Manual

Instructions for Assembly, Testing, Operation, Servicing, and Storage

12V Diaphragm Pump: For use with agricultural pesticides and other liquids**

WARNING

READ and UNDERSTAND the Owner's Manual completely before using this pump. Assemble, test, and use only in accordance with the Owner's Manual instructions.

READ and FOLLOW chemical safety instructions. Pesticides are hazardous chemicals.

KNOW emergency procedures BEFORE handling chemicals. Pump leaks, bodily chemical contact, poisoning, and spills require immediate response.

AVOID inhaling, ingesting, or coming into contact with any chemicals.

WEAR personal protective gear when operating, cleaning, and servicing the pump.

KEEP pump and spray materials away from children and pets. Pesticides are especially toxic to them.

DO NOT TURN ON POWER to pump until ready to spray in order to avoid unintentional spray release.

Improper use of the pump or handling of chemicals could result in serious injury or illness to the operator or nearby persons/animals, or could cause damage to the environment.

** This pump is recommended for use in spraying non-flammable liquids such as pesticides, water for plants/trees or dust control, ice control chemicals, or water-based non-flammable sealants or stains for outdoor wood surfaces. However, WE RECOMMEND THAT THE PUMP NOT BE USED FOR OTHER PURPOSES ONCE IT HAS BEEN USED FOR SPRAYING PESTICIDES. Any chemical will leave some residual in the pump, even after the pump has been properly cleaned. These residual chemicals can have unexpected effects on future uses. For example, spraying water or other liquids that are contaminated with residual pesticide may result in unforeseen hazards to plant or animal life.

Any Questions, Comments, Problems, or Parts Orders
Call Everflo Product Support 1-800-864-1649

Hazard Signal Word Definitions






	<p>This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.</p>
	<p>DANGER (red) indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.</p>
	<p>WARNING (orange) indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.</p>
	<p>CAUTION (yellow) indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.</p>
	<p>CAUTION (yellow) used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.</p>

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Intended Use

The pump is intended for use in spraying agricultural pesticides and other non-flammable liquids.

SPRAYING PESTICIDES:

Pesticides are hazardous chemicals that must be handled with caution as directed throughout this manual and on the pesticide label. Pesticides are regulated by the United States Environmental Protection Agency (EPA) and defined as:

Any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any pest. Though often misunderstood to refer only to insecticides, the term pesticide is a comprehensive term that applies to insecticides, herbicides, fungicides, and various other substances used to control pests.

The pump is intended for use in spraying pesticides in liquid form only. The pump is NOT intended for use in spraying pesticides in dry or aerosolized form, or for use with fumigants.

SPRAYING OTHER LIQUIDS:

In addition to spraying pesticides, this pump may be used to spray other non-flammable liquids. Example uses include: watering plants/trees or spraying water for dust control, applying ice control chemicals, or applying water-based, non-flammable sealant or stain to outdoor wood surfaces.

However, **WE RECOMMEND THAT THE PUMP NOT BE USED FOR OTHER PURPOSES ONCE IT HAS ALREADY BEEN USED FOR SPRAYING PESTICIDES.** Any chemical will leave some residual in the pump, even after the pump has been properly cleaned. These residual chemicals can have unexpected effects on future uses. For example, spraying water or other liquids that are contaminated with residual pesticide may result in unforeseen hazards to plant or animal life.

Contact Everflo Product Support at 1-800-864-1649 for any questions about the appropriate use of the pump and/or optional accessories.

Summary of Important Information

⚠ WARNING

Read and understand **this owner's manual** completely before using the pump. Read each **chemical label's instructions** before handling the chemical.

Improper use of the pump or handling of chemicals could result in serious injury or illness for the operator or nearby persons/animals, or cause damage to the environment.

LISTED BELOW is a summary of safety information of particular importance. See individual sections of this owner's manual for more details.

----- DURING ASSEMBLY -----

- **EXERCISE CAUTION** when attaching remote switch to battery terminals. Follow the steps listed in the Assembly section of this manual in *exact sequence* when connecting the pump to battery terminals. *Caution must be exercised to avoid contact with battery acid and to prevent sparking.*
- **CHECK and TEST completed assembly** as directed in this manual. Serious injury could result from chemical leaks if pump is improperly assembled.
- **DO NOT MODIFY pump design.**

-----DURING OPERATION-----

General Chemical Safety

- **READ and FOLLOW** each chemical label's instructions and warnings.
- **AVOID inhaling, ingesting, or coming into contact with any chemicals.**
- **KNOW applicable licensing and regulatory requirements** for the chemical you plan to use.
- **KNOW emergency procedures before handling chemicals.** Carefully review "Chemical Accident Procedures" listed below and later in this manual. Also see First Aid instructions on the chemical label.
- **WEAR protective clothing, eye protection, and chemical resistant gloves** when operating the pump. Wear additional protective gear, such as facemask or apron, as recommended on the chemical label.
- **EXERCISE EXTRA CAUTION around children and pets.** Pesticides are especially toxic to them. Keep pump and spray materials away from them at all times.
- **DO NOT MIX OR POUR chemicals in an enclosed, unventilated area**
- **DO NOT USE flammable or corrosive chemicals** in the pump.
- **FLUSH the pump before switching chemicals** in order to prevent dangerous chemical interactions.
- **STORE pesticides in a correctly labeled container and in a secure location.**
- **MONITOR the health of operators frequently exposed to pesticides**, as recommended by the chemical label or local/federal regulations.

Chemical Application Safety

Before Spraying

- **INSPECT and PREPARE pump before each use** as directed in this manual.
- **DO NOT TURN ON POWER to pump until ready to spray** in order to avoid unintentional spray release.
- **DO NOT SPRAY** when wind speed exceeds 4 MPH in order to minimize spray drift.
- **CLEAR work area of people/ pets and POST warning notices** to restrict access for the period recommended on chemical label.
- **KEEP pump and spray materials away from children/pets.** Pesticides can be especially toxic to children and animals.
- **DO NOT ALLOW anyone younger than 16 to operate the pump** since pesticides are especially toxic to children.

During Spraying

- **DO NOT OVERAPPLY pesticide.** Apply at rate recommended by chemical manufacturer. Excess pesticide can be dangerous to humans/animals, damage desirable plants, and contaminate soil and water sources.

Summary of Important Information

- **DO NOT EAT, DRINK, SMOKE, RUB YOUR EYES, or TOUCH YOUR BARE SKIN** while handling chemicals and spraying.
- **NEVER POINT A SPRAY GUN** at people or animals.
- **EXERCISE EXTRA CAUTION** when spraying near areas accessible to children and pets.
- **CLEAN up spills immediately** per instructions on the chemical label.
- **TURN OFF power to pump, and RELIEVE system pressure** before leaving pump unattended.
- **SEE Troubleshooting section of this manual before attempting any repairs.** Wear personal protective equipment and follow safety instructions.

After Spraying

- **CLEAN pump immediately after use** according to the directions provided in this manual.
- **DECONTAMINATE yourself after you are** done spraying and have cleaned the pump. Wash all exposed areas of the body with soap and water, and remove and launder clothing.
- **DISPOSE OF or STORE remaining chemicals in secure storage with correctly marked container.**

Chemical accident procedures

Immediate response is necessary in the event of pump leaks, bodily chemical contact, poisoning, or spills. See instructions below:

Pump leak	If the pump develops a leak, immediately stop spraying. Turn off power to the pump and follow directions below, as applicable.
Bodily chemical contact	<p>Personal contamination can occur when chemicals splash, spill, or spray directly onto a person.</p> <ol style="list-style-type: none"> 1. Immediately follow First Aid instructions on <u>chemical label</u>. <p style="margin-left: 20px;"><u>General procedures can include:</u></p> <ol style="list-style-type: none"> a) Eyes – immediately flush with water. b) Skin – wash all contaminated skin surfaces with soap and water. c) Clothing – remove contaminated clothing. Dispose of heavily contaminated clothing per chemical label instructions. 2. Seek medical advice if instructed on the label or the victim experiences symptoms of harmful effects. <u>Bring the chemical label for reference.</u>
Poisoning by ingestion or inhalation	<p>In case of poisoning from ingestion or inhalation:</p> <p><i>If the victim has collapsed or is not breathing, <u>call 911</u>.</i> Otherwise:</p> <ol style="list-style-type: none"> 1. If you are the victim, immediately seek assistance from nearby personnel because you may become incapacitated. 2. Immediately follow first aid instructions on <u>chemical label</u>. 3. Call a poison control center for further advice. In the U.S., call 1-800-222-1222. Have the chemical label available for reference.
Chemical spills	<p>Chemical spills must be quickly contained and properly cleaned up.</p> <p>Refer to the chemical label for any specific clean-up instructions.</p> <p><u>General procedures include:</u></p> <ol style="list-style-type: none"> 1. Controlling the spill by stopping the source of the spill. 2. Containing the spill so that it does not spread and get into water sources. 3. Cleaning up the spill immediately. 4. Seeking additional advice from: <ul style="list-style-type: none"> - <u>Chemical manufacturer</u>. See chemical label for contact information. - <u>State pesticide regulatory agency</u>. In the U.S., call the National Pesticide Info. Ctr. at 800-858-7378 for assistance in contacting your state’s agency.

Installation

Step One: Mounting

- This Everflo pump is self-priming.
- The pump should be located in an area that is dry and provides adequate ventilation.

CAUTION

DO NOT locate the motor near low temperature plastics or combustible material. The surface temperature of the motor may exceed 250°F [121°C].

- The pump may be mounted in any position. However, if mounting the pump vertically the pump head should be in the down position so that in the unlikely event of a leak, fluid will not enter the motor.
- Secure the rubber feet with #10 fasteners. **DO NOT** compress the feet, doing so will reduce their ability to isolate vibration/noise.

Step Two: Plumbing

- See table below for port size and recommended hose sizes. For pumps with female NPT ports, use plastic male NPT (Tapered pipe thread) fittings to connect flexible high-pressure tubing to the pump. For pumps with QA ports use Everflo QA fittings.

Pump Model	Ports	Minimum inlet hose size	Minimum outlet hose size
EF1000	3/8" Hose barb	3/8" (9.5mm) Inside diameter	3/8" (9.5mm) Inside diameter
EF2200	3/8" Female NPT	3/8" (9.5mm) Inside diameter	3/8" (9.5mm) Inside diameter
EF2200-QA	QA	3/8" (9.5mm) Inside diameter	3/8" (9.5mm) Inside diameter
EF3000	1/2" Female NPT	1/2" (13mm) Inside diameter	1/2" (13mm) Inside diameter
EF3000-QA	QA	1/2" (13mm) Inside diameter	1/2" (13mm) Inside diameter
EF4000	1/2" Female NPT	1/2" (13mm) Inside diameter	1/2" (13mm) Inside diameter
EF3000-QA	QA	1/2" (13mm) Inside diameter	1/2" (13mm) Inside diameter
EF5500	1/2" Female NPT	1/2" (13mm) Inside diameter	1/2" (13mm) Inside diameter
EF5500-QA	QA	1/2" (13mm) Inside diameter	1/2" (13mm) Inside diameter

NOTE: Everflo does not recommend the use of metal fittings or rigid pipe to plumb the inlet/outlet ports. Standard plastic threaded fittings are available by calling Everflo Product Support at 1-800-864-1649.

- In some cases, the ports may require a suitable thread sealer applied sparingly. **DO NOT** over-tighten, maximum torque is 45 in/lb [5 N-m].
- Tubing should be compatible with the spraying fluid. At least 18" [450mm] length is suggested to minimize stress on the fitting/ports and reduce noise. Allow for the shortest possible tubing route and avoid sharp bends that may kink over time.
- Installation of a 50-mesh strainer is recommended to prevent foreign debris from entering the system. Failures due to foreign debris are not covered under the warranty.

NOTE: Restrictions on the inlet may cause a loss in performance. Inlet pressure must not exceed 30 psi [2.1 bar]

- If a check valve is installed in the plumbing, it must have a cracking pressure of no more than 2 psi [.14 bar].

CAUTION

Sealers and Teflon tape may act as lubricant causing cracked housings or stripped threads due to over tightening. Care should be used when applying sealers; it may enter the pump inhibiting valve action, causing no prime or no shut-off. Failures due to foreign debris are not covered under the warranty.

Installation

Step Three: Connect pump to battery or 12V supply

WARNING

Batteries are hazardous because they contain caustic acid, can emit explosive gases, and can cause electric shock.

Caution must be exercised when making connections to a battery to avoid shock and contact with the acid, and to prevent any sparking that could lead to an explosion.

ALWAYS follow the safety instructions and steps listed below in *exact sequence* when connecting the pump to the battery terminals.

1. Preparatory safety

Preparatory safety steps:

- ALWAYS use eye protection
- NEVER smoke or work near sparks or other sources of ignition.
- NEVER touch both battery terminals at the same time or with any non-insulated tools.
- If battery acid contacts skin or clothing, flush immediately with water and neutralize with baking soda.

2. Electrical requirements

- The pump should be on a dedicated (individual) circuit, controlled with a double pole switch (UL/CSA certified) rated at or above the fuse ampere indicated by the pump motor label. Depending on distance of the power source from the pump and ampere load on the circuit, wire may need to be heavier than indicated by the chart.
- The pump is **protected with a fuse**. Use an approved wire of the size specified or heavier.

Voltage	Model	Fuse (amp)	Wire Leads	Wire Size
12 VDC	EF1000	5.0	RED (positive +) BLACK (negative -)	#14 AWG (2.5Mm ²) (or heavier)
12 VDC	EF2200	15	RED (positive +) BLACK (negative -)	#14 AWG (2.5Mm ²) (or heavier)
12 VDC	EF3000	15	RED (positive +) BLACK (negative -)	#14 AWG (2.5Mm ²) (or heavier)
	EF4000	15		
	EF5500	20		

CAUTION: Improper duty cycle and/or rapid start/stop conditions may cause the internal thermal breaker (if equipped) to trip, or can result in premature motor failure due to excessive heat.

Installation

3. Connect pump to battery

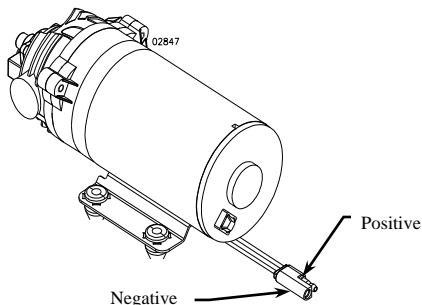
Connect the pump to a vehicle battery using the following procedure:

- a) Disconnect the vehicle battery ground wire.
- b) Connect the pump's red wire to the *positive* (+) terminal of the battery.
- c) Connect the pump's black wire to the *negative* (-) terminal of the battery.
- d) Reconnect the vehicle battery ground wire.

Note: Skip steps (a) and (d) if battery is not in a vehicle.

WA

le shock.



4. Disconnect after use

AFTE
procedure:

following

- a) Disconnect the vehicle battery ground wire.
- b) Disconnect the pump's black wire from the *negative* (-) terminal of the battery.
- c) Disconnect the pump's red wire from the *positive* (+) terminal of the battery.
- d) Reconnect the vehicle battery ground wire.

Note: Skip steps (a) and (d) if battery is not in a vehicle.

WARNING: Always disconnect in this sequence to avoid possible shock.

NOTE: It is important to disconnect power to the pump when not in use for safety reasons. ALWAYS verify that the power has been disconnected before adding chemicals or servicing.

A remote switch is recommended for temporarily shutting off the pump's operation. Call Everflo Product Support at 1-800-864-1649 to order Everflo Item #33-103233.

Installation

Step Four: Check and test completed assembly.

WARNING

Check and test completed assembly

Serious injury could result from chemical leaks if pump is improperly assembled or the design of the pump is modified.

Follow the steps below to ensure the pump is properly assembled. Never modify the pump design.

1. Check assembly	Check assembly to assure the pump is properly assembled and in safe working condition:
2. Test with water	Test the system for leaks with water: <ul style="list-style-type: none">a) Fill the tank with water.b) The pump is an “on demand” pump. When turned on, the pump will prime itself, then turn off once reaching pressure. When the flow continues, the pump will automatically re-start.c) Check for leaks throughout the system. If a leak is detected, fix the leak and re-test the system with water.

Operation – Important Safety Information

Now that you have completed and tested your assembly, there is some important safety and health information you need to know with regard to handling and spraying chemicals.

WARNING

Carefully read and make sure you understand the following safety information before using the pump.

General Chemical Safety:

WARNING

Pesticides are hazardous chemicals.
Heed the warnings below and follow all instructions carefully.
Improper handling of chemicals can result in serious injury or illness, or cause damage to the environment.

- **Chemical label.** ALWAYS READ and FOLLOW all chemical label instructions.
- **Licensing/regulation.** Refer to any applicable licensing restrictions or state/federal regulations with regard to the application of the particular chemical you plan to use.
- **Emergency procedures.** Before handling chemicals, carefully review the “Chemical Accident Procedures” listed later in this section, as well as the “Statement of Practical Treatment” on the chemical label.
- **Inhalation/contact.** ALWAYS take precautions to avoid inhaling or coming into contact with the chemical.
- **Personal protective equipment.** ALWAYS wear protective clothing, eye protection, and chemical-resistant gloves when operating and cleaning the pump. Wear additional protective gear (such as facemask or apron) as recommended on the chemical label.
- **Children/pets.** Pesticides can be especially toxic to children and animals. ALWAYS exercise extra caution around children. Keep pump and all spray materials away from children and animals.
- **Ventilation.** ALWAYS ensure there is adequate ventilation when mixing, pouring, or spraying.
- **Flammables.** NEVER use any flammable chemicals in the pump.
- **Corrosives.** DO NOT use corrosive chemicals in the pump. They can weaken the pump and its parts, resulting in leaks. Check with the chemical manufacturer to ensure chemical is compatible with all components of the pump.
- **Chemical interaction.** ALWAYS flush the pump before switching chemicals. Different chemicals may interact dangerously with each other.
- **Chemical storage.** ALWAYS store pesticides in a properly labeled container and in a secure location per the manufacturer’s recommendations.
- **Health monitoring.** Monitor the health of operators who are frequently exposed to pesticides, as recommended by the chemical label or local/federal regulations.

Operation – Important Safety Information (continued)

Chemical Application Safety:

WARNING

Caution must be used when spraying chemicals to avoid unsafe exposure to humans and the environment.

Heed the warnings below and follow all instructions carefully.

Before Spraying

- **Pump prep.** ALWAYS inspect and prepare the pump before use according to the directions provided in this manual.
- **Keep pump off.** Do not turn on power to the pump until ready to spray in order to avoid unintentional spray release.
- **Wind speed.** NEVER spray when wind speed exceeds 4 MPH in order to minimize spray drift.
- **Clear area/post.** ALWAYS keep the work area clear of people and pets. POST warning notices to restrict access by the public for the period recommended on chemical label.
- **Operator age.** You must be 16 years of age or older to operate this pump. Pesticides are especially toxic to children.

During Spraying

- **Over application.** DO NOT over apply pesticide. Apply at a rate recommended by chemical manufacturer. Excess pesticide can be dangerous to humans, damage desirable plants, and contaminate soil and water sources.
- **Children/pets.** ALWAYS exercise extra caution when spraying near areas accessible to children and pets.
- **Eating/smoking.** DO NOT eat, drink, smoke, rub your eyes, or touch any part of your bare skin while handling chemicals and spraying.
- **Heat/flames.** DO NOT spray near open flames or sources of heat.
- **Spills.** ALWAYS clean up spills immediately per instructions on the chemical label.
- **Unattended.** ALWAYS turn off power to pump, and relieve system pressure before leaving pump unattended.
- **Troubleshooting.** ALWAYS refer to the safety instructions in the Troubleshooting Section before attempting any repairs.

After Spraying

- **Clean pump.** ALWAYS clean the pump immediately after use according to the directions provided in this manual.
- **Decontaminate.** ALWAYS decontaminate yourself immediately after you are finished spraying and handling chemicals. Wash all exposed areas of the body with soap and water and remove and launder clothing.
- **Chemical disposal/storage.** ALWAYS dispose of or store remaining chemicals properly as recommended on the chemical label.

Operation – Important Safety Information (continued)

Chemical accident procedures:

WARNING

Before you use the pump, review the information with regard to handling accidents. Chemical spills, pump leaks, personal contamination, and poisoning are accident situations which you may encounter.

All require an immediate response – See instructions below.

Pump leak	<p>In the event that the pump develops a leak while spraying chemicals, you must <i>immediately stop spraying.</i></p> <p>Turn off power to the pump and follow the directions below, as applicable.</p>
Bodily chemical contact	<p>Personal contamination can occur when chemicals splash, spill, or spray directly onto a person.</p> <p>1. Follow the emergency first aid instructions on the chemical label listed in the “First Aid” or “Statements of Practical Treatment” section.</p> <p><u>General procedures include:</u></p> <p>a) Eyes – immediately flush with water or follow other directions as specified on the chemical label.</p> <p>b) Skin – immediately wash all contaminated skin surfaces with soap and water, or follow directions as specified on the chemical label.</p> <p>c) Clothing – remove contaminated clothing immediately. Dispose of heavily contaminated clothing per the instructions on the chemical label for safe chemical/container disposal.</p> <p>2. Seek medical advice if instructed on the label, or if the victim experiences symptoms of harmful effects such as burning, swelling, nausea, chest pain, difficulty breathing, dizziness or confusion. When seeking medical advice, be sure to bring the chemical product label.</p>
Poisoning by ingestion or inhalation	<p>In case of poisoning from ingestion or inhalation:</p> <p>IF THE VICTIM HAS COLLAPSED OR IS NOT BREATHING, <u>CALL 911.</u> Otherwise:</p> <p>1. If you are the victim, immediately seek assistance from nearby personnel because you may become incapacitated.</p> <p>2. Follow the emergency first aid instructions on the chemical label in the “First Aid” or “Statement of Practical Treatment” section.</p> <p>3. Call a poison control center for further advice. In the U.S., call 1-800-222-1222 to be automatically linked to the nearest certified poison control center. Have the chemical label available for reference.</p>

Operation – Important Safety Information (continued)

Chemical spills

Chemical spills must be quickly contained and properly cleaned up.

Refer to the chemical label for any specific clean-up instructions with regard to the chemical spilled.

General procedures include:

1. Control the spill by stopping the source of the spill. If the source of the spill is a container leak, place the leaking container in a larger, watertight container. Keep unprotected people away from the spill site.
2. Contain the spill so that it does not spread and get into water sources. Use a shovel or other tool to make a dike around the spill with soil, sod, or absorbent material.
3. Clean up the spill immediately -- Absorbent materials like ground corncobs or pet litter should be spread on the spill area to soak up the pesticide. The contaminated material should then shoveled into a leak proof container. Do not flush the spill area with water until you receive advice as directed below.
4. Seek additional advice from the chemical manufacturer and your state's pesticide regulatory agency regarding decontamination of the spill site:
 - Chemical manufacturer. The chemical label provides contact information for the chemical manufacturer.
 - State pesticide regulatory agency. In the U.S., call the National Pesticide Information Center at 1-800-858-7378 for assistance in determining how to contact your state's pesticide regulatory agency.

Operation – Preparing the Pump for Each Use

If the pump has been used previously, it must be prepared BEFORE EACH SUBSEQUENT USE.

WARNING

Read instructions below carefully for inspecting and preparing the pump.

Damaged or clogged equipment could result in leaks or uncontrolled spray.

Leaks could result in injury to the operator or bystanders from chemical exposure, or cause damage to the environment.

Important safety rules:

- **Power off.** Make sure all power is OFF before cleaning, inspecting, or servicing the pump.
- **Guards / shields.** Make sure all guards and shields are replaced after servicing the pump.
- **Replacement parts.** If a part needs replacement, only use parts that meet the manufacturer's specifications. Replacement parts that do not meet specifications may result in a safety hazard or poor operation of the sprayer.

1. Ensure clean system	Ensure the pump has been thoroughly flushed and drained of all residual chemicals from prior uses.
2. Inspect & repair	<p>Inspect and test the sprayer thoroughly:</p> <ul style="list-style-type: none"> a) Inspect hoses/ lines for exposed mesh and holes. Replace all worn or damaged hoses/ lines. b) Inspect fittings for cracks and leaks. Replace all damaged fittings with original Everflo parts. c) Partially fill system with plain water and spray to test for leaks. Repair as needed. <p><i>IMPORTANT: After any repair work has been done, ALWAYS test for leaks with water one final time before using.</i></p>

Be certain the pump materials will be compatible with the chemical being pumped. Everflo pumps are intended for intermittent or continuous duty when the proper operating criteria are met. If unsure of the chemical compatibility with the Everflo pump components or the motors intended design, please call Everflo Product Support at 1-800-864-1649 for assistance.

Operation – Using the Pump

Step One: Assess wind conditions and clear work area.

Before you decide to spray, you must determine whether wind conditions are suitable. You must also restrict access to the work area to ensure the safety of bystanders.

WARNING

Do not spray if wind speeds are greater than 4 MPH or if there are bystanders in the intended spray area.

1. Assess wind speed	<p>Assess weather conditions to ensure that it is not too windy to spray.</p> <p>DO NOT SPRAY if wind speeds are greater than 4 MPH.</p> <p><i>Visible indication of wind speed:</i> If leaves are in constant motion or there is any branch movement, DO NOT spray because the wind is too strong.</p>
2. Clear work area	<p>Clear the work area of all bystanders and pets.</p> <p>Restrict access by the public for the period recommended on chemical label.</p>

Step Two: Operate the pump.

WARNING

ALWAYS wear personal protective equipment as directed on the chemical label when spraying. Long pants and sleeves, chemical-resistant gloves, and eye protection are strongly recommended. Additional protective gear may be required depending on the particular pesticide.

1. Review safety information	<p>Review the “Operation – Important Safety Information” related to <u>Chemical Application Safety</u> provided in this manual.</p>
2. Wear personal protective equipment	<p>Wear personal protective equipment as directed on the chemical label.</p>
3. Turn on power	<p>Turn on the power to the pump.</p> <p><i>Note: The pump will start automatically when power is turned on. The pump will cycle on and off as needed to retain pressure in the hose.</i></p>

Operation – Using the Pump (continued)

4. Pressure Switch Operation	<p>The pressure switch reacts to outlet pressure, and interrupts power at the preset shut-off pressure indicated on the pump label. When outlet pressure drops below a predetermined limit the switch will close and the pump operates until the shut-off pressure is achieved. The shut-off pressure is set to factory calibrated standards.</p> <p><i>Note: If the plumbing is restrictive or the flow rate is very low, the pump may re-pressurize the outlet faster than the fluid is being released, causing rapid cycling (*ON/OFF within 2 seconds). If the pump is subjected to rapid cycling during normal operation, or for infrequent periods, damage may occur. Applications which exhibit rapid cycling should have restrictions in the outlet minimized.</i></p>
5. Leaving unattended	<p>If the pump must be left unattended at any time:</p> <ol style="list-style-type: none"> a) Disconnect power to the pump. b) Relieve system pressure.
6. Discontinue use if clogged or inoperative	<p>If the pump becomes clogged or inoperative during use, discontinue use immediately.</p> <ul style="list-style-type: none"> - DO NOT attempt to service while chemicals are in the pump and power is connected. - Return to service area to review instructions for troubleshooting before attempting to service.

CAUTION

DO NOT operate the pump at pressures which cause the motor to exceed the amperes rating indicated on the name plate.

Improper adjustment of the pressure switch setting may cause severe overload or premature failure. Failures due to improper adjustment for the pressure switch setting will not be covered under the warranty.

“Intermittent Duty” is defined as: operated and/or frequently started within a period of time that would cause the motor to reach its maximum thermal limits. Once the maximum thermal limit is obtained, the motor must be allowed to return to ambient temperature before resuming operation.

Note: A reserve, clean container capable of holding at least the volume of the entire pump system should be kept for use when the pump system needs to be emptied temporarily for repairs. The container should be properly labeled as to its contents if it is used.

Operation – Using the Pump (continued)

Step Three: Clean pump and decontaminate after use.

When done using the sprayer, it is important to clean the pump and decontaminate yourself. Do not store the pump when saturated with chemicals, as it is unsafe and could also result in damage to the equipment.

WARNING

Clean up and decontamination procedures must be followed after each use.

Improper equipment clean up and disposal of chemicals can result in dangerous chemical exposure to humans and the environment, as well as equipment damage.

Personal decontamination is required after spraying to minimize unsafe exposure to chemicals and potential illness.

1. Drain pump system	<p>If there is excess pesticide left in the pump system, drain the pump system:</p> <ul style="list-style-type: none"> a) Disconnect power to the pump and relieve system pressure. b) Find a suitable container in which to drain the unused pesticide. c) While wearing rubber gloves, eye protection, and all other required personal protective equipment, allow pesticide to drain into container.
2. Unused chemical	<p>Properly store or dispose of unused chemical:</p> <ul style="list-style-type: none"> a) <u>If the unused pesticide is to be stored for future use:</u> Store all unused pesticide in its original, or a suitably marked, container in a secure location out of the reach of children & animals. b) <u>If remaining pesticide is to be disposed:</u> Properly dispose of the remaining chemical and its container per the chemical manufacturer's recommendation and according to local hazardous waste disposal regulations.
3. Flush pump	<p>Flush the pump per the chemical manufacturer's recommendations. A general procedure is as follows:</p> <ul style="list-style-type: none"> a) Add fresh water to the pump system. b) Reconnect power to the pump. c) Operate the pump system and discharge all rinse water onto an area that can accept dilute pesticide application. d) Add 5 gallons of the chemical manufacturer's recommended cleaning solution. Operate the pump system, collecting the discharged solution if recommended by the manufacturer. e) After flushing, disconnect power to the pump and be sure all system pressure is relieved. f) Dispose of cleaning solution discharge as recommended by the manufacturer of the solution.
4. Decontaminate & launder	<p>Decontaminate yourself after you are finished handling chemicals:</p> <ul style="list-style-type: none"> a) Remove all clothing worn during spraying and chemical handling. b) Wash all exposed parts of the body with soap and water. c) Launder clothing separately from other wash.

Storage

Prepare the pump for end-of-season storage by running RV antifreeze through the system. This will keep internal parts lubricated, protect against corrosion, and keep the unit from freezing.

CAUTION

The pump will be damaged if it freezes.
Protect the pump from freezing during storage by following the instructions below.

Preparing for storage:

1. Add antifreeze	Pour RV antifreeze into the pump system. <i>Note: RV antifreeze is non-toxic and biodegradable and generally safer for the environment than automotive antifreeze.</i>
2. Spray briefly	Turn on the pump and run the pump system briefly until fluid sprays.

Removing from storage:

1. Drain	Drain the antifreeze left in the pump system into a suitable container.
2. Flush with water	Fill the pump system with fresh water and run through the system. Operate the pump system until the system is completely flushed. Be sure to set up containers to capture the antifreeze flush water.
3. Disposal	Dispose of the antifreeze and flush water properly.

Troubleshooting

⚠ WARNING

Before troubleshooting or attempting to service, read the following safety rules to avoid accidental exposure to chemical and also risk of electric shock.

Note: A reserve, clean container capable of holding at least the volume of the entire pump system should be kept for use when the pump system needs to be emptied temporarily for repairs. The container should be properly labeled as to its contents if it is used.

Before attempting to service the pump:

1. Personal protective equipment	Wear personal protective equipment as directed on the chemical label while servicing your pump.
2. Review troubleshooting table	Review the Troubleshooting Table below for the type of problem you are experiencing. However, DO NOT attempt to repair until the steps listed below are followed.
3. Empty and flush	<p>If the cause listed for your problem is Clogged intake tube: empty the pump system and flush the pump with water as directed in the section, “Operation – Step Three”.</p> <p style="text-align: center;"><i>- In order to avoid accidental exposure to chemicals, never attempt to unclog the intake tube until the pump system has been emptied and the pump flushed with water.</i></p>
4. Disconnect power/relieve pressure	Disconnect power to the pump and be sure all system pressure is relieved.
5. Perform repairs	Follow the directions provided in the troubleshooting table to repair the pump.
6. Test after servicing	After servicing, ALWAYS test the pump for leaks with plain water before using.

Troubleshooting (continued)

PROBLEM	CAUSE	SOLUTION
Pump will not turn on	Bad electrical connection	Check battery connections
	Short in wires	Check condition of wires
	Locked drive	Replace diaphragm assembly
	Faulty pressure switch	Replace pressure switch assembly
	Incorrect voltage	Check voltage ($\pm 10\%$)
	Fuse Blown	Check and/or replace fuse
Pump will not prime	Out of product	Refill supply container
	Inlet air leak	Tighten fittings/ Replace cracked fittings
	Inlet/ Outlet tube restriction	Remove restriction
	Incorrect voltage	Check voltage ($\pm 10\%$)
	Clogged intake valves	Remove obstruction
	Clogged intake tube	Remove obstruction
Low pressure/ flow	Worn wobble plate	Replace diaphragm assembly
	Worn diaphragm	Replace diaphragm assembly
	Worn pressure switch	Replace pressure switch assembly
	Inlet/ Outlet tube restriction	Remove restriction
	Incorrect voltage	Check voltage ($\pm 10\%$)
	Clogged intake valves	Remove obstruction
	Clogged intake tube	Remove obstruction
Pump leaks	Inlet air leak	Tighten fittings/ Replace cracked fittings
	Loose fasteners	Tighten fasteners
	Pump seals degraded	Replace pump head assembly
Pump cycles while not spraying	Leak in diaphragm	Replace diaphragm assembly
	Leak in the system	Tighten leaking hose clamps/ fittings
	Faulty pressure switch	Replace pressure switch assembly
	Incorrect voltage	Check voltage ($\pm 10\%$)
Rough operation	Air trapped in system	Purge the air from the system
	Flexible mounting surface	Mount pump on rigid surface
	Loose pump head	Tighten fasteners
	Compressed base feet	Decompress base feet
	Rigid plumbing	Plumb pump with flexible plumbing

Specifications

Pump Model Number	EF1000	EF2200	EF3000	EF4000	EF5500
Electrical connection	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC
Maximum amp draw	4.0 Amps	8.0 Amps	10 Amps	13 Amps	17 Amps
Maximum flow	1.0 GPM [3.8 LPM]	2.2 GPM [8.3 LPM]	3.0 GPM [11.4 LPM]	4.0 GPM [15.1 LPM]	5.5 GPM [20.8 LPM]
Maximum pressure	40 PSI [2.8 bar]	70 PSI [4.8 bar]	60 PSI [4.1 bar]	60 PSI [4.1 bar]	60 PSI [4.1 bar]
Ports (NPT Models)	3/8" Hose barb	3/8" Female NPT	1/2" Female NPT	1/2" Female NPT	1/2" Female NPT
Ports (QA Models)	N/A	Quick Attach Port (19mm)	Quick Attach Port (19mm)	Quick Attach Port (19mm)	Quick Attach Port (19mm)
Overall dimensions	6.89"x 3.95"x 2.41" [175mm x 100mm x 61mm]	8.53"x 4.02"x 3.64" [217mm x 102mm x 92mm]	8.75"x 5.2"x 4.75" [222mm x 132mm x 121mm]	8.75"x 5.2"x 4.75" [222mm x 132mm x 121mm]	8.75"x 5.2"x 4.75" [222mm x 132mm x 121mm]
Dry Weight	1.3 lbs. [0.59 kg]	4.8 lbs. [2.18 kg]	5.6 lbs. [2.54 kg]	5.6 lbs. [2.54 kg]	5.6 lbs. [2.54 kg]

Component Materials*

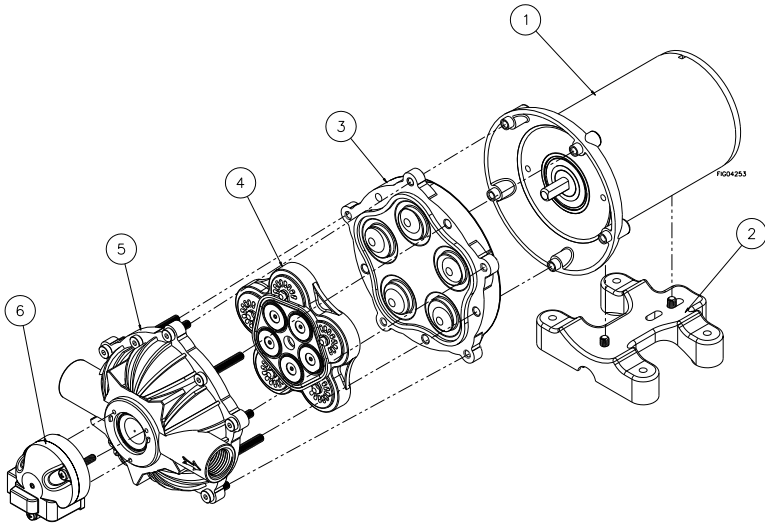
Pump Head.....	Polypropylene, Viton [®] , Stainless Steel
Diaphragm.....	Santoprene [™]
Valves.....	Viton [®] , Polypropylene

*Before using any chemical, check to ensure the chemical is compatible with all materials in the system.

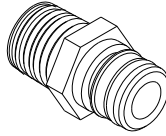
The manufacturer reserves the right to make improvements in design and/or changes in specifications at any time without incurring any obligation to install them on units previously sold.

Any Questions, Comments, Problems or Parts Orders
Call Everflo Product Support 1-800-864-1649

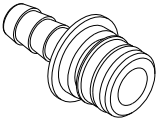
Exploded View – EF3000, EF4000, EF5500



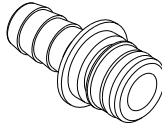
Item	Part#	Description	Model	Qty
1	NA	Motor with fuse	EF3000, EF4000	1
	NA		EF5500	
2	EF800428	Base plate assembly	All	1
3	EF788017	Diaphragm assembly	EF3000	1
	EF788018		EF4000	
	EF788019		EF5500	
4	EF788015	Valve plate assembly	All	1
5	EF787165	Pump head assembly	All	1
6	EF788690	Pressure switch assembly	All	1
N/A	EF787381	Replacement Fuse	EF3000 EF4000	1
	EF791416	Replacement Fuse	EF5500	1



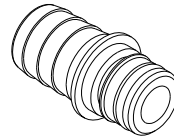
Quick Attach x 1/2" MNPT
Part # EF-QC-M12



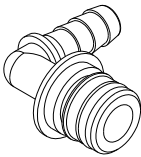
Quick Attach x 3/8" Hose barb
Part # EF-QC-A38



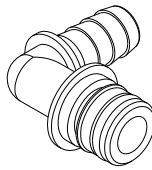
Quick Attach x 1/2" Hose barb
Part # EF-QC-A12



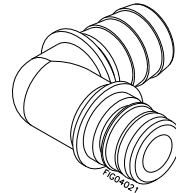
Quick Attach x 3/4" Hose barb
Part # EF-QC-A34



Quick Attach x 3/8" Hose
barb elbow
Part # EF-QC-EL38



Quick Attach x 1/2" Hose
barb elbow
Part # EF-QC-EL12



Quick Attach x 3/4" Hose
barb elbow
Part # EF-QC-EL34

Part#	Description	Supplied w/Model	Qty Supplied
EF-QC-M12	Quick Attach x 1/2" MNPT	EF2200-QA EF3000-QA EF4000-QA EF5500-QA	1
EF-QC-A38	Quick Attach x 3/8" Hose barb	EF2200-QA	2
EF-QC-A12	Quick Attach x 1/2" Hose barb	EF3000-QA EF4000-QA	1
EF-QC-A34	Quick Attach x 3/4" Hose barb	EF5500-QA	1
EF-QC-EL38	Quick Attach x 3/8" Hose barb elbow	N/A	0
EF-QC-EL12	Quick Attach x 1/2" Hose barb elbow	N/A	0
EF-QC-EL34	Quick Attach x 3/4" Hose barb elbow	N/A	0

BOOMINATOR®

BOOMLESS SPRAY NOZZLES

WORLD LEADER IN BOOMLESS SPRAY NOZZLES

BOOMINATOR® ECO SERIES FULL SPRAY BOOMLESS SPRAY NOZZLES

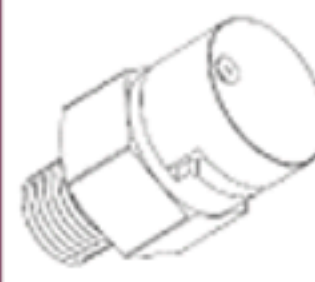
Specifically designed for the A.T.V., tow behind & three point hitch sprayer market.

Boominator® Eco Series Features

- All nozzles made in USA. 🇺🇸
- All nozzles feature a multi patented round covered orifice design which improves spray pattern & distribution.
- No small orifices or slots to get plugged up.
- All nozzles have 1/4" MNPT inlet thread.
- All nozzles are individually factory tested.

Boominator® Eco Series Benefits

- All nozzles produce a very even large droplet spray pattern.
- All nozzles have superior wear & chemical resistance.
- Eliminate cumbersome boomarms.
- Eliminate all boom maintenance.
- Spray easily around obstacles and over uneven terrain.



You CAN TELL IT'S A BOOMINATOR® NOZZLE ON SIGHT

Boominator's® unique round head shape lets you know it is a genuine Boominator® nozzle. It is also patented and with patents pending. Boominator®.

FULL SPRAY MODELS

MODEL	PSI	GPM	TESTED HEIGHT 24' SPRAY DISTANCE	TESTED HEIGHT 36' SPRAY DISTANCE	MODEL	PSI	GPM	TESTED HEIGHT 24' SPRAY DISTANCE	TESTED HEIGHT 36' SPRAY DISTANCE
1200 PSS	15 PSI	.9 GPM	6 ft	10 ft	1400 PL	20 PSI	2.0 GPM	20 ft	25 ft
	20 PSI	1.0 GPM	6 ft	10 ft		30 PSI	2.4 GPM	20 ft	25 ft
	25 PSI	1.1 GPM	6 ft	10 ft		40 PSI	2.8 GPM	20 ft	25 ft
1200 PS	20 PSI	1.0 GPM	12 ft	14 ft	1870 PL	20 PSI	3.0 GPM	25 ft	30 ft
	30 PSI	1.2 GPM	12 ft	14 ft		30 PSI	3.5 GPM	25 ft	30 ft
	40 PSI	1.4 GPM	12 ft	14 ft		40 PSI	4.3 GPM	25 ft	30 ft
1400 PS	20 PSI	1.7 GPM	12 ft	14 ft	 Technology That Works Made in USA		★ See reverse side ★ for gallons per acre charts and conversion formulas.		
	30 PSI	2.0 GPM	12 ft	14 ft					
	40 PSI	2.5 GPM	12 ft	14 ft					

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Eco Series Full Spray Nozzles

Tested Height: 36"

Recommended Operating Range: 16" – 48"

1200 PSS	(1/4" MNPT)			SPEED (MPH)						
	PSI	GPM	SPRAY	1	2	3	4	5	6	7
			DISTANCE	GALLONS PER ACRE						
	15	.09	10 ft.	44.5	22	15	11	9	7.5	6
	20	1.0	10 ft.	49.5	25	16.5	12	10	8	7
	25	1.1	10 ft.	54.5	27	18	13.5	11	9	7.5

1200 PS	(1/4" MNPT)			SPEED (MPH)						
	PSI	GPM	SPRAY	1	2	3	4	5	6	7
			DISTANCE	GALLONS PER ACRE						
	20	1.0	14 ft.	35	18	12	9	7	6	5
	30	1.2	14 ft.	42	21	14	10	8	7	6
	40	1.4	14 ft.	49.5	25	16.5	12	10	8	7

1400 PS	(1/4" MNPT)			SPEED (MPH)						
	PSI	GPM	SPRAY	1	2	3	4	5	6	7
			DISTANCE	GALLONS PER ACRE						
	20	1.7	14 ft.	60	30	20	15	12	10	8.5
	30	2.0	14 ft.	70	35	24	18	14	12	10
	40	2.5	14 ft.	88	44	29	22	18	15	12.5

1400 PL	(1/4" MNPT)			SPEED (MPH)							
	PSI	GPM	SPRAY	1	2	3	4	5	6	7	
			DISTANCE	GALLONS PER ACRE							
	20	2.0	25 ft.	49.5	25	16.5	12	10	8	7	
	30	2.4	25 ft.	60	30	20	15	12	10	8.5	
	40	2.8	25 ft.	70	35	23	17	14	11.5	10	

1870 PL	(1/4" MNPT)			SPEED (MPH)											
	PSI	GPM	SPRAY	2	3	4	5	6	7	8	9	10	11	12	
			DISTANCE	GALLONS PER ACRE											
	20	3.0	30 ft.	25	17	12	10	8	7	6	5.5	5	4.5	4	
	30	3.5	30 ft.	29	19	14	12	10	8	7	6	5.5	5	4.5	
	40	4.3	30 ft.	36	25	18	14	12	10	9	8	7	6.5	6	

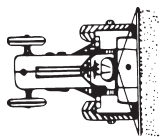
BOOMINATOR® SPRAY NOZZLE CONVERSION FORMULAS

$$\text{Gallons per 1000 sq. ft.} = \frac{\text{GPM} \times 136}{\text{MPH} \times \text{Spray Width in Inches}}$$

$$\text{Gallons per Acre} = \frac{\text{GPM} \times 5940}{\text{MPH} \times \text{Spray width in Inches}}$$



(PRICES SUBJECT TO CHANGE WITHOUT NOTICE)



van's

EQUIPMENT COMPANY

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