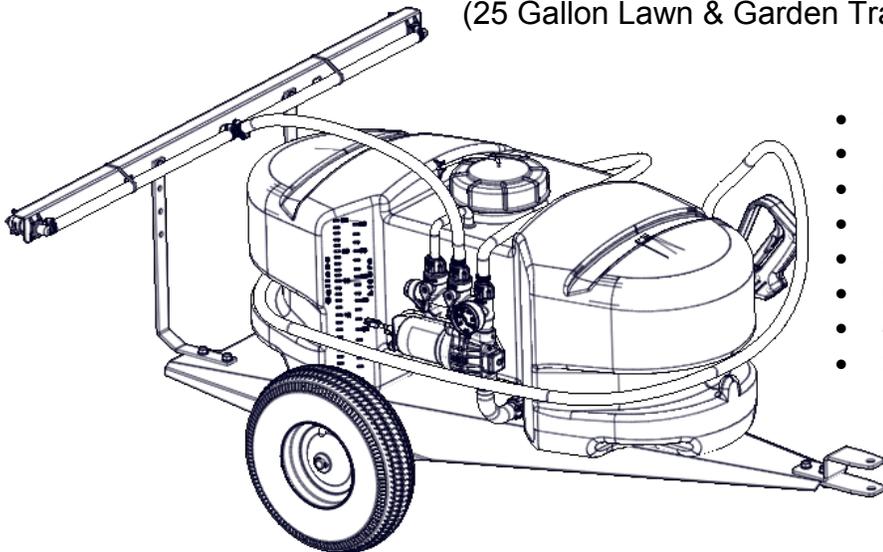


# OWNER'S MANUAL

## Model: LG-2500-304 (5301440)

(25 Gallon Lawn & Garden Trailer Sprayer)



### Technical Specifications

- 25 Gallon Corrosion-Resistant Polyethylene Tank
- 12 Volt Diaphragm Pump, 2.1 g.p.m.—60 psi
- Deluxe Pistol Grip Handgun
- 15 Ft. Handgun Hose (3/8" I.D.)
- 25 Ft. max. vertical throw, 35 Ft. horizontal throw
- Low Profile Trailer & tank
- 4.10/3.50 x 6" Pneumatic Tires
- 2-Nozzle Boom Assembly (80" Spray Coverage)

### Assembly Instructions

- Make sure the contents of the sprayer's carton match the items shown on page 2 of the manual.
- Follow the steps on pages 3 & 4 to properly assemble the sprayer.
- After assembly is complete and before testing your sprayer, make sure you connect the electrical hook-up to the end of your pump and clip the clips to a fully charged battery. The red wire must be connected to the positive (+) and the black wire should be connected to the negative (-).
- The drain plug assembly should already be attached to the tank

**BEFORE RETURNING THIS PRODUCT  
FOR ANY REASON, PLEASE CALL**

**1-800-831-0027**

**IF YOU SHOULD HAVE A QUESTION OR  
EXPERIENCE A PROBLEM WITH YOUR  
FIMCO INDUSTRIES PRODUCT:**

**1-800-831-0027**

**BEFORE YOU CALL, PLEASE HAVE THE  
FOLLOWING INFORMATION AVAILABLE:  
SALES RECEIPT & MODEL NUMBER. IN MOST  
CASES, A FIMCO INDUSTRIES EMPLOYEE CAN  
RESOLVE THE PROBLEM OVER THE PHONE.**

### General Information

Thank you for purchasing this product. The purpose of this manual is to assist you in operating and maintaining your lawn & garden trailer sprayer. Please read it carefully, as it furnishes information which will help you achieve years of trouble-free operation.

### Warranty

**Products are warranted for one year from date of purchase  
against manufacturer or workmanship defects for home owner  
usage and 90 days for commercial usage.**

For technical assistance, visit our website @  
www.fimcoindustries.com or call: **TOLL FREE @ 1-800-831-0027**

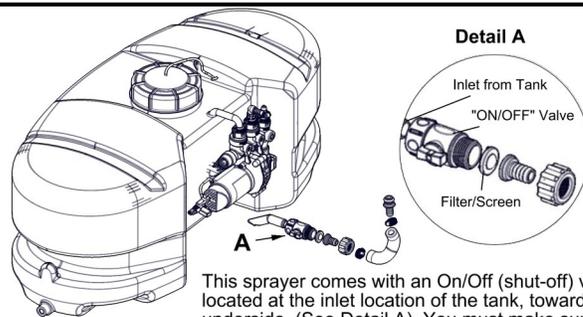
Our Technical Support Representatives will be happy to help you.

To obtain prompt, efficient service, always remember to give the following information...

- Correct Part Description and/or part number
- Model #/Serial # of your sprayer

Part descriptions and numbers can be obtained from the illustrated parts list section(s) of this manual.

### \*\*\*IMPORTANT REMINDER\*\*\*



This sprayer comes with an On/Off (shut-off) valve located at the inlet location of the tank, towards the underside. (See Detail A). You must make sure the valve is in the "open" position before using your sprayer.



**www.fimcoindustries.com**

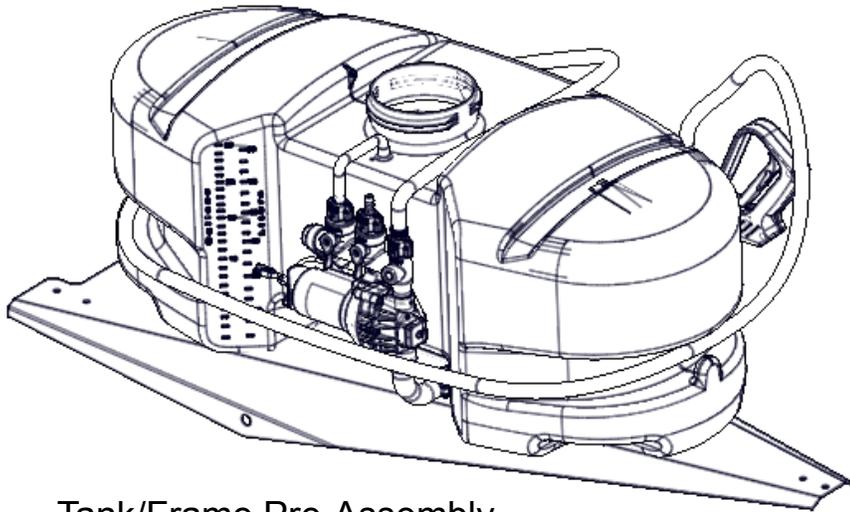
1000 FIMCO Lane, P.O. Box 1700, North Sioux City, SD 57049

Toll Free Phone: 800-831-0027 : Toll Free Fax: 800-494-0440

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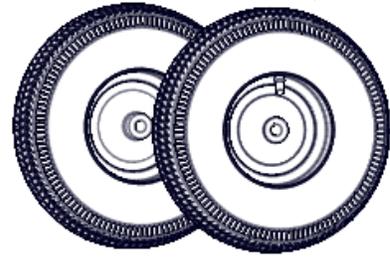
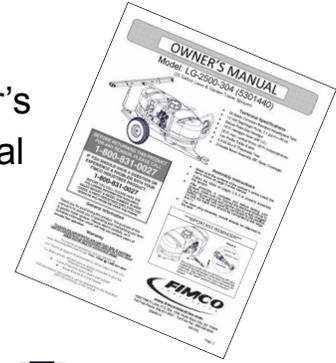
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# Contents of your sprayer's carton (LG-2500-304):

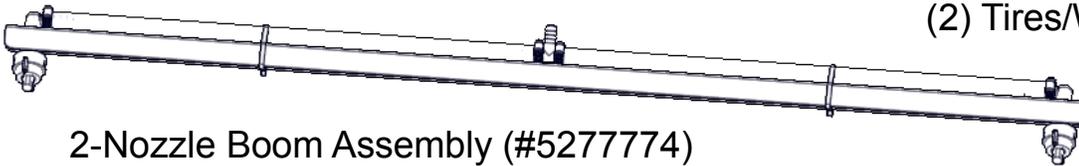


Tank/Frame Pre-Assembly

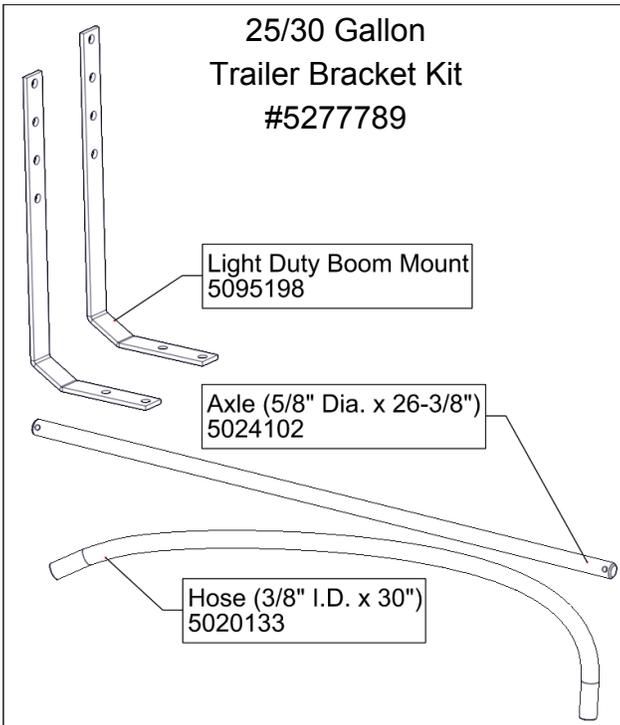
Owner's Manual



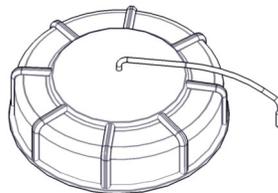
(2) Tires/Wheels (#5021102)



2-Nozzle Boom Assembly (#5277774)



Tank Lid & Lanyard (#5058188)

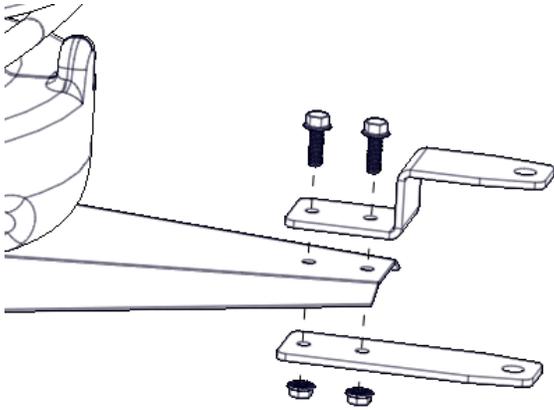


## Contents of Parts Bag #5278317



Ref. #	Part #	Description	Qty
1	5278114	Lead Wire Assembly w/15A Fuse & 30A Clips (96" Long)	1
1.1	5157238	15 Amp Regular Blade Fuse	1
2	5167097	2" Dry 100# Back Mount Gauge	1
3	5053112	Handgun Clip - Deluxe	2
4	5117334	#10-24 x 1/2" Machine Screw, Phillips Round Head	2
5	5038518	Hitch Bracket (Flat)	1
6	5038517	Hitch Bracket (Formed)	1
7	5051144	Hose Clamp, 3/8"	2
8	5101077	Cotter Pin, 1/8" x 1"	2
9	5127189	Wheel Spacer (for 5/8" Dia. axle)	2
10	5117300	H.H.C.S. Flanged 5/16"-18nc x 1" Long	2
11	5006307	5/16"-18nc Hex Flanged Whiz Nut Gr. 5	8
12	5117323	H.H.C.S. Flanged 5/16"-18nc x 3/4" Long	6

### Step 1



## Assembly Procedure (LG-2500-304)

Remove the hitch brackets, both flat (5038518) and formed (5038517) from the parts bag. The flat one is to be placed under the frame and the formed one gets placed on top of the frame.

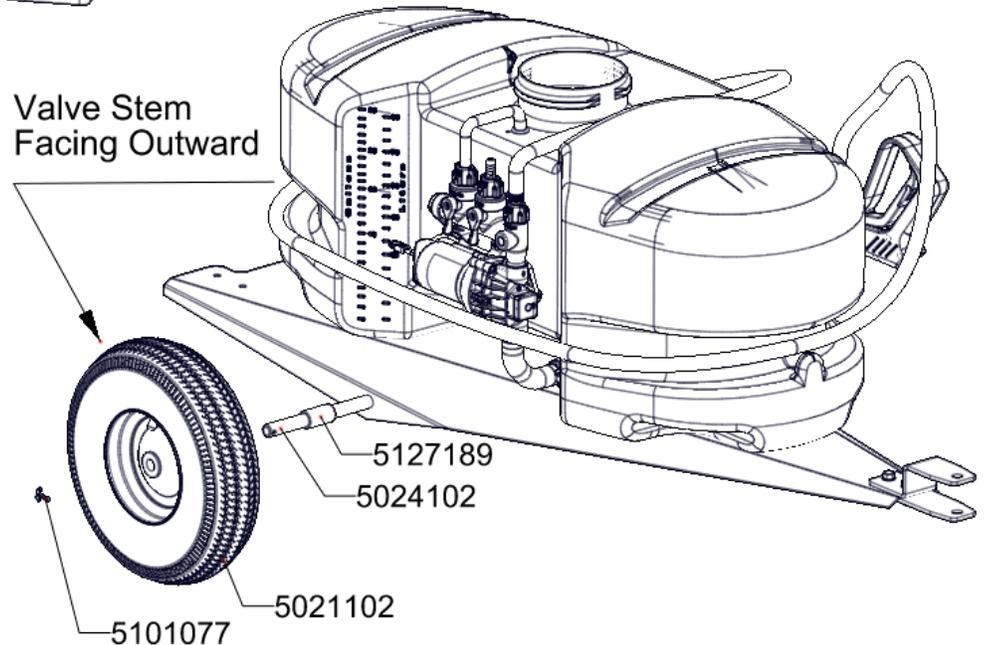
Bolt them together, 'sandwiching' the frame between both of the brackets.

Using a 1/2" socket or wrench, tighten the 1" long bolts (5117300) securely.

Use the 5/16" whiz nuts (5006307) with the bolts.

They should grab tightly against the frame as you tighten the bolts down.

### Step 2



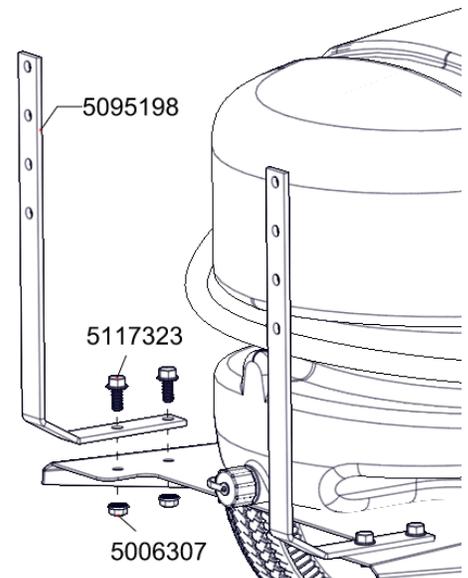
Remove the axle (5024102) and (2) wheels (5021102) from the carton. Remove the (2) wheel spacers (5127189) and (2) cotter pins (5101077) from the parts bag. Slide the axle through the hole in one side of the frame and through the corresponding hole on the other side of the frame. You may need to maneuver (squeeze) the frame slightly while doing this to get the axle through both holes. Center the axle about the frame as best as possible. Slide a wheel spacer onto the axle. Now slide a wheel over the axle and up against the wheel spacer. Make sure the valve stems of the wheel is facing outward. Place a cotter pin through the hole at the end of the axle. Using a needle nose pliers or similar tool, bend the pin so that it will not slip out and the wheel will be retained on the axle. Repeat procedure for the other side.

\*\*With another person helping by holding axle in place (if needed), slightly push on tire until the hole in the axle clears the wheel and place cotter pin in the hole to retain the wheel.

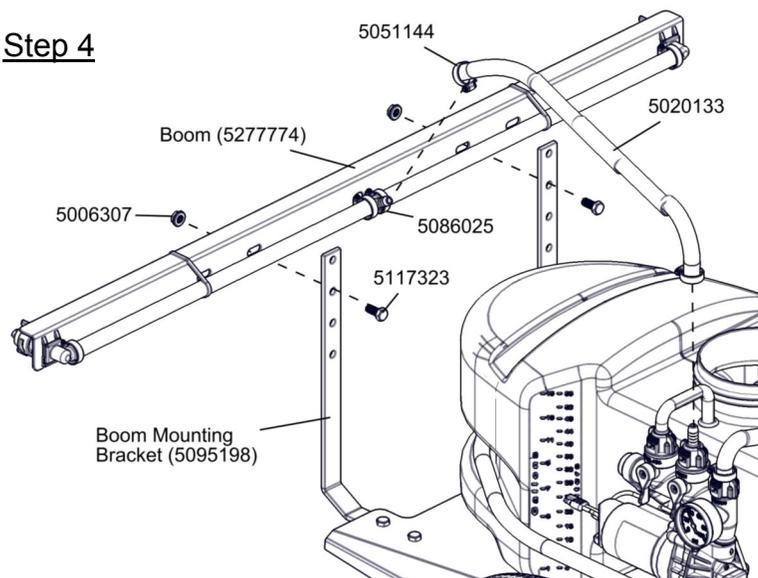
### Step 3

Locate the (2) boom mounting brackets (5095198). These two brackets mount to the rear of the frame with (2) bolts (5117323) and (2) whiz nuts (5006307). (Each Bracket)

Using a 1/2" socket or wrench, tighten the hardware securely. The whiz nuts will grab tightly against the frame as you tighten the bolts down.



## Step 4

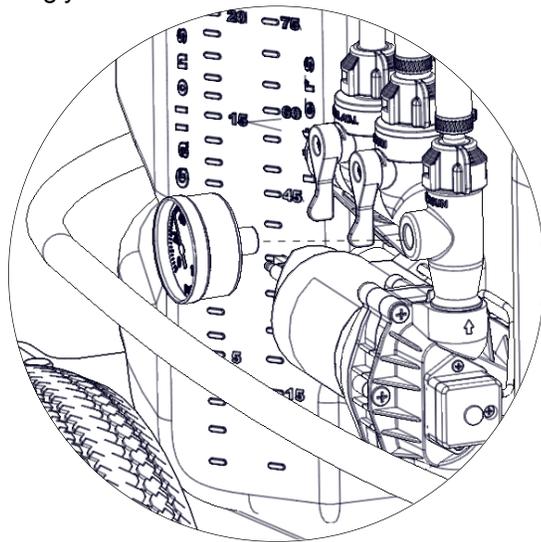


## Assembly Procedure (LG-2500-304)

Remove the 2-nozzle boom assembly (5277774) from the carton. Using (2) bolts (5117323) and (2) whiz nuts (5006307), bolt the boom to the upright boom mounting brackets. There are four holes in the boom brackets, so you can choose the most optimal (height) position for your spraying purposes.

Tighten the hardware down, using a 1/2" socket or wrench.

Find the 3/8" hose (30" long) (5020133) and place hose clamps (5051144) loosely onto each end of the hose. Connect this hose to the 'TEE' fitting on the boom and to the 'Boom' line on the manifold. Tighten the hose clamps snugly.



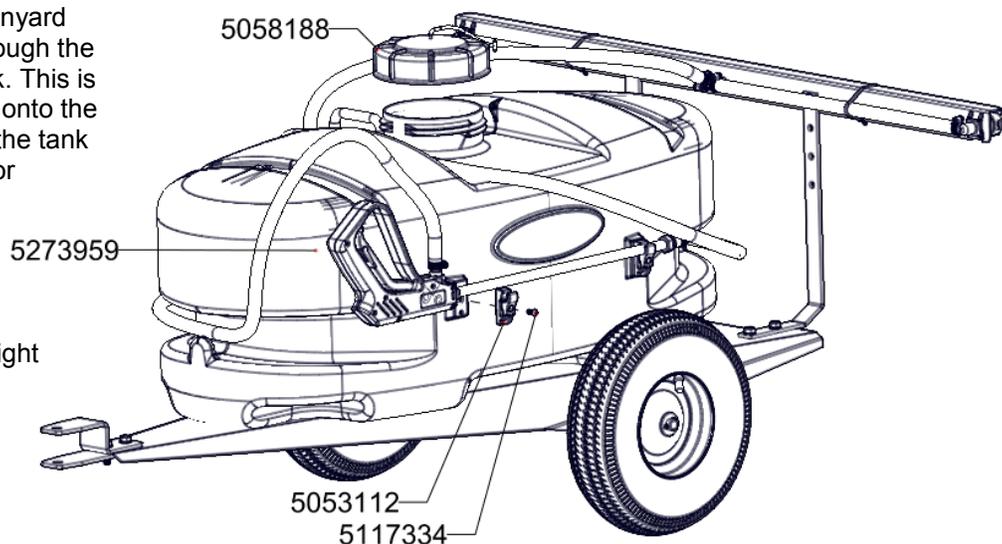
## Step 5

Using Teflon tape or plumbers thread sealant, screw the pressure gauge into the manifold. Hand tight should be sufficient.

## Step 6

The tank lid (5058188) has an 8" lanyard attached to it. Slide the lanyard through the hole in the tab at the top of the tank. This is so the lid can 'hang' or be retained onto the tank while you are filling or rinsing the tank out. This should help prevent loss or damage of the lid.

Screw the lid onto the tank. Hand-tight should be sufficient.



## Step 7

Remove the (2) handgun clips (5053112) and (2) screws (5117334) from the parts bag. Use a phillips head screwdriver to screw them onto the tank. Do not over tighten. These clips are where the spray wand (5273959) is secured to the tank, while not in use.

### NOTE:

The spray wand should already be attached to the 15 foot hose prior to assembly.

**\*\*\* The Sprayer should now be ready for use \*\*\***

## Testing the Sprayer

**NOTE:** It is important that you test your sprayer for leakage and proper spray patterns with plain water before chemical application is attempted. This will also give you the opportunity to familiarize yourself with the operation of the sprayer, without the possibility of losing any expensive chemicals.

Add water to the tank and drive to the starting place for spraying. When you are ready to spray, position booms for spraying and turn the boom valve to the "on" position. This will start solution spraying from the tips of the boom. The pressure will decrease slightly when the boom is spraying. Adjust the pressure by turning the "ON/OFF" valve lever on the pressure adj. valve.

Read the operating instructions and initially begin spraying by closing the pressure adj. valve and opening the boom valve. This will enable the air in the line to be eliminated (purged) through all the tips, while building pressure. When everything tests all right (no leaks and good pressure), add the desired chemicals to the mixture and water combination and start your spraying operation. Adjust the pressure and spray as you did in the testing procedure.

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(s) before application!**

## Calibration

Chemical labels may show application rates in gallons per acre, gallons per 1000 square feet or gallons per 100 square feet. You will note that the tip chart shows 3 of these rating systems.

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).

Determining the proper speed of the pulling vehicle can be done by marking off 100, 200 and 300 feet. The speed chart indicates the number of seconds it takes to travel the distances. Set the throttle and with a running start, travel the distances. Adjust the throttle until you travel the distances in the number of seconds indicated by the speed chart. Once you have reached the throttle setting needed, mark the throttle location so you can stop and go again, returning to the same speed.

Add water and proper amount of chemical to the tank and drive to the starting place for spraying.

## Operation

The pumping system draws solution from the tank, through the strainer and to the pump. The pump forces the solution under pressure to the handgun or boom nozzles.

Connect the lead wire to a fully charged 12 volt battery. You may use either a stand-alone battery or the battery on your towing vehicle. The lead wire has an On/Off switch to activate the pump. "-" is on and "O" is off.

Fill the tank part way with water and then add the desired amount of chemical to be sprayed. Finish filling tank to proper level. Turn the pump on and by depressing the "-" side of the rocker switch. The pump is equipped with a pressure switch that is pre-set at the factory to shut the pump off when all discharges are closed.

The pump will turn back on when one of the following actions occurs: the handgun lever is squeezed to spray the handgun, or the boom valve is opened to broadcast spray with the boom, or the bypass valve is opened to re-circulate solution back into the tank.

When spraying with either the boom or the handgun, pressure may be reduced by slowly opening the pressure adj. valve until desired pressure is achieved. Opening the valve decreases pressure, closing the valve increases pressure.

When spraying with the boom, the proper method to set the pressure is to open the boom valve completely and if a lower pressure is desired, then slowly open the bypass valve until that pressure is obtained.

For the safest and most efficient chemical application, you will need to calibrate your sprayer using the tip and speed charts. Once you have determined the proper speed and pressure settings, you will need to consult your chemical label for the amount of chemical to be added to the tank. Read the entire label. Use only according to label directions.

The nozzles on the boom will spray an 80 inch wide swath. Check the nozzle pattern by spraying water on a concrete surface.

## Using the Boom Nozzles

Four things must be considered before spraying with the boom.

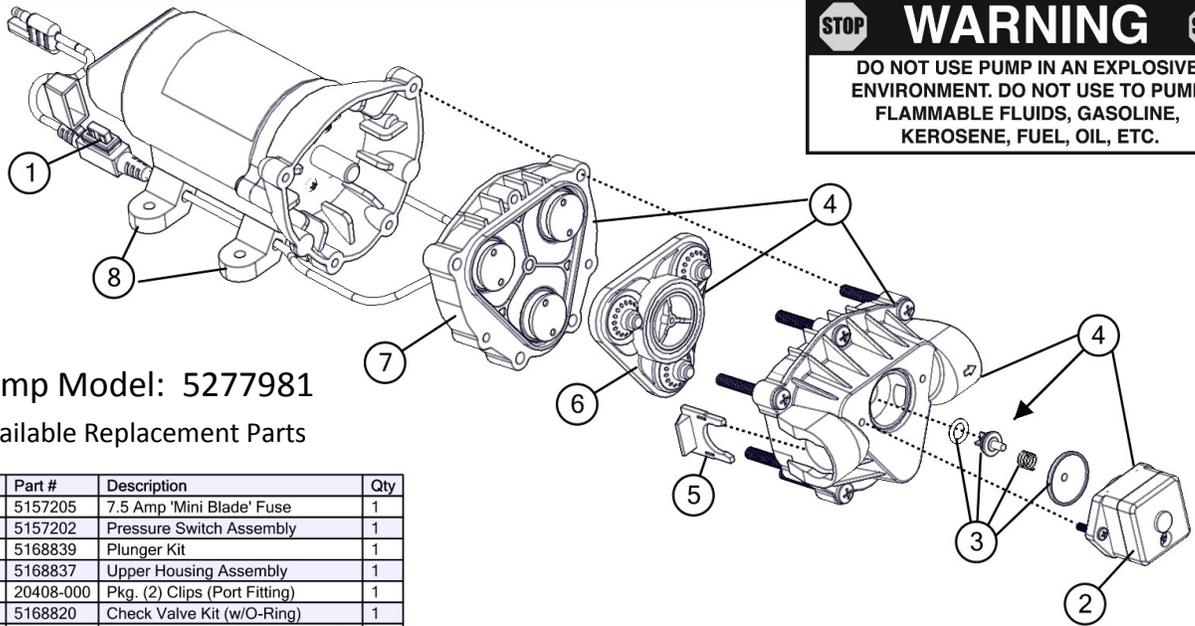
1. How much chemical must be mixed in the tank.
  2. Rate of spray (gallons per acre to be sprayed).
  3. What pressure (p.s.i.) will be used.
  4. Speed traveled (mph) while spraying.
- \* Refer to the chemical label to determine your chemical mixture
  - \* See the tip chart to determine the pressure to be used. The chart will also show the speed used when spraying.
  - \* Start the pump and open the valve to the boom nozzles.
  - \* Check the spray pattern.
  - \* Raise or lower the nozzles so that you will have a good coverage pattern.

See Page 8 for Maintenance and Winter Storage instructions.

Speed Chart			
Speed in M.P.H. (Miles Per Hour)	Time Required in seconds to travel a distance of		
	100 Ft.	200 Ft.	300 Ft.
1.0	68 sec.	136 sec.	205 sec.
2.0	34	68	102
3.0	23	45	68
4.0	17	34	51
5.0	14	27	41
6.0	11	23	34
7.0	9.7	19	29
8.0	8.5	17	26
9.0	7.6	15	23
10.0	6.8	14	20

Tip Chart for TKT-VP3, TF-VP3 & 30DT3.0 Tips									
Tip No. (Color)	Pressure (psi)	Capacity (GPM)	Gallons Per Acre - Based on Water						
			1 MPH	2 MPH	3 MPH	4 MPH	5 MPH	7.5 MPH	10 MPH
3 (Gray)	10	.30	44	22	14.9	11.1	8.9	5.9	4.5
	20	.42	63	31.5	20.9	15.7	12.6	8.4	6.3
	30	.52	76	38	26	19.3	15.4	10.3	7.7
	40	.60	90	45	30	22	17.8	11.8	8.9
Tip No. (Color)	Pressure (psi)	Capacity (GPM)	Gallons Per 1000 Sq. Ft. - Based on Water						
			1 MPH	2 MPH	3 MPH	4 MPH	5 MPH	7.5 MPH	10 MPH
3 (Gray)	10	.30	1.01	.5	.34	.254	.204	.135	.103
	20	.42	1.4	.72	.48	.36	.29	.19	.14
	30	.52	1.74	.87	.596	.44	.35	.236	.176
	40	.60	2.06	1.00	.688	.50	.408	.27	.20
Tip No. (Color)	Pressure (psi)	Capacity (GPM)	Gallons Per Acre - Based on Water						
			1 MPH	2 MPH	3 MPH	4 MPH	5 MPH	7.5 MPH	10 MPH
3 (Gray)	10	.30	.10	.05	.034	.025	.02	.013	.01
	20	.42	.14	.072	.048	.036	.029	.019	.014
	30	.52	.174	.087	.059	.044	.035	.023	.017
	40	.60	.206	.10	.068	.05	.04	.027	.02

**STOP WARNING STOP**  
**DO NOT USE PUMP IN AN EXPLOSIVE ENVIRONMENT. DO NOT USE TO PUMP FLAMMABLE FLUIDS, GASOLINE, KEROSENE, FUEL, OIL, ETC.**



**Pump Model: 5277981**  
**Available Replacement Parts**

Ref #	Part #	Description	Qty
1	5157205	7.5 Amp 'Mini Blade' Fuse	1
2	5157202	Pressure Switch Assembly	1
3	5168839	Plunger Kit	1
4	5168837	Upper Housing Assembly	1
5	20408-000	Pkg. (2) Clips (Port Fitting)	1
6	5168820	Check Valve Kit (w/O-Ring)	1
7	5168838	Diaphragm/Piston/Cam/Bearing Kit	1
8	5095202	Mounting Feet (Pkg of 4)	1

**DO**

- Clean and rinse your pump after each use with Fimco Tank Neutralizer
- Winterize your pump or sprayer by rinsing, draining and running RV Antifreeze through it before storing for the winter.
- Use clean water for your spray mixture
- Store inside a building when not in use.

**DON'T**

- Use to pump bleach.
- Use to pump petroleum products such as diesel fuel, gasoline or kerosene
- Leave your pump sit with spray mixture in it for extended periods
- Use dirty or unfiltered water for spraying

**CAUTION**   
**PRESSURE SWITCH OPERATION**  
**Pressure switch is pre-set at the factory. Improper adjustment of the pressure switch, may cause severe overload or premature failure. If the pump is subjected to rapid cycling during normal operation, or infrequent periods, damage may occur.**

Troubleshooting the Pump:

Motor does not run:

- Check for loose wiring connection(s).
- Make sure the 'ON/OFF' switch in the lead wire assembly is in the 'ON' position. "I" is the 'ON' position and 'O' is the 'OFF' position.
- Check for defective pressure switch. Make sure you are connected to a good 12 volt power source. Make sure any on/off switches are in the 'on' position.
- Remove the cap to the pressure switch. Pull both red wires off of their terminals, and touch the two ends together. If your pump runs when you do this, your pressure switch will need to be replaced.
- Check the fuse.
- Check for low voltage at the power supply.

Pump does not prime:

- Check for air leaks in supply line.
- Check for debris in the check valve assembly.
- Check for defective check valve.
- Check for clogged strainer/filter.
- Check for cracks in the pump housing.
- Check for empty product supply.

Pulsating flow (surging):

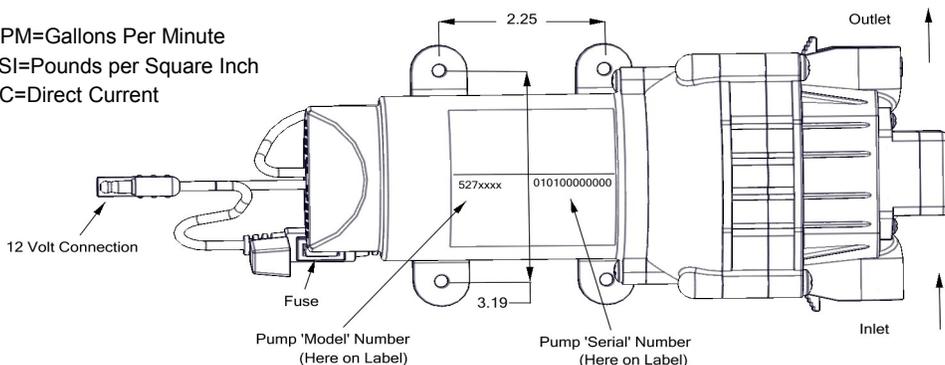
- Check for defective pressure switch.
- Check for leaks in the discharge line.
- Check for restriction in the discharge line.
- Check for debris in nozzle orifice.
- Discharge hose may be too long.
- Check for clogged strainer.

Motor continues to run after discharge is shut off:

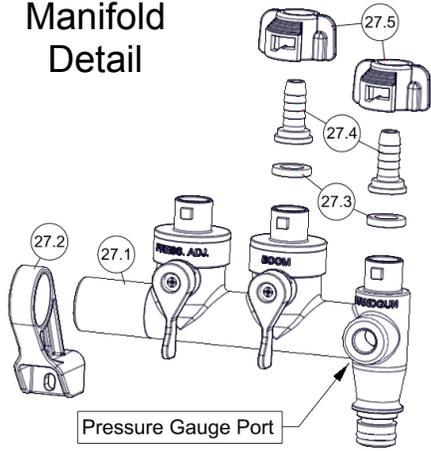
- Check for empty product supply.
- Check for open bypass valve. (if equipped)
- Check for low voltage.
- Check for leak in discharge line.
- Check for defective or dirty check valve.
- Check for defective pressure switch.

Pump Specifications	
Current:	4.5 Amps @ 30 PSI
Check Valve:	Viton
Wetted Parts Housing:	Polypropylene
Diaphragm:	Santoprene
Liquid Temperature:	130° F max.

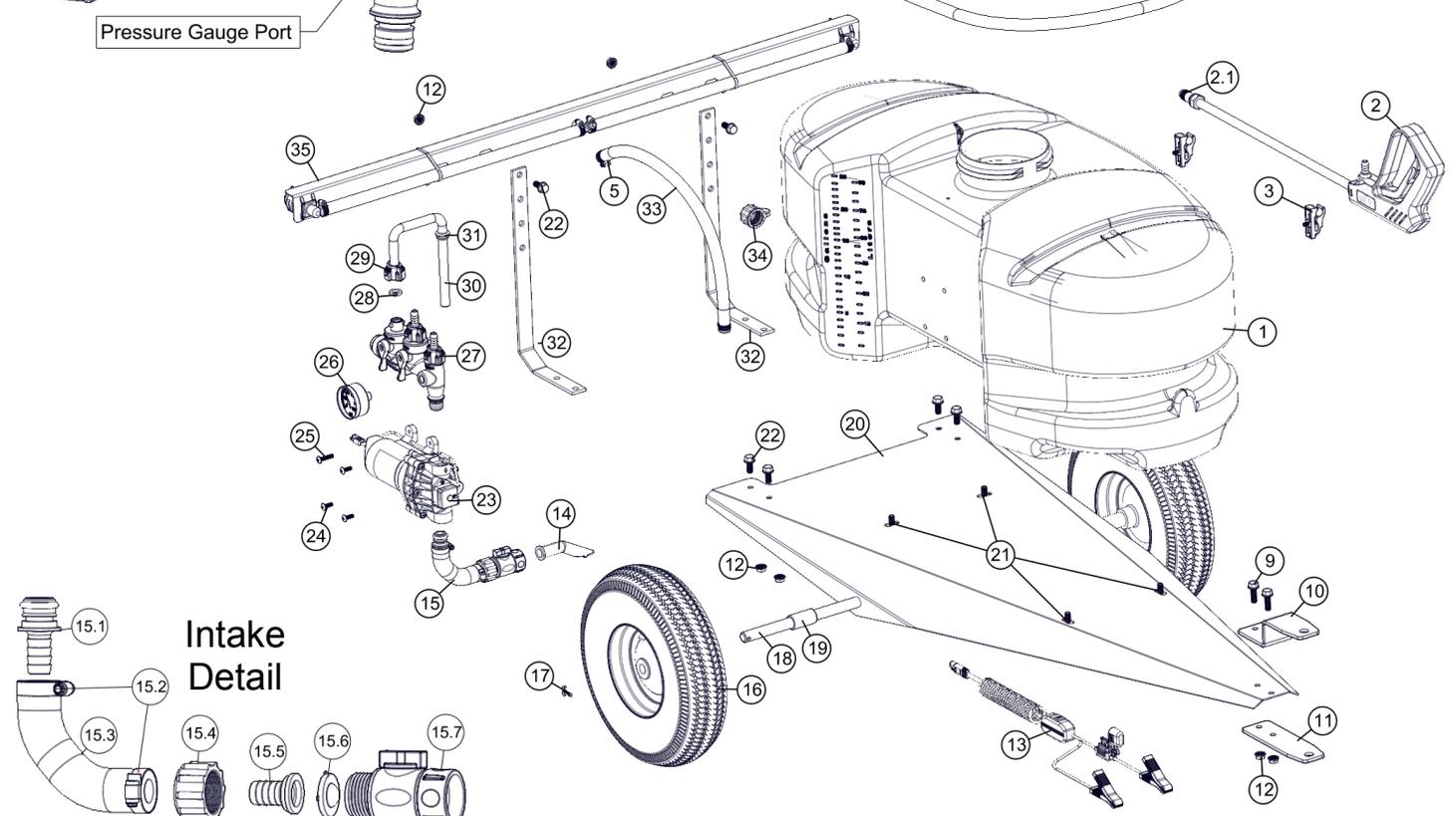
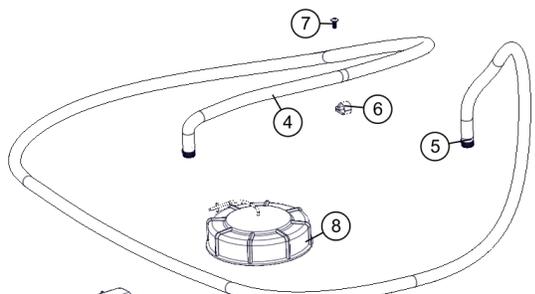
GPM=Gallons Per Minute  
 PSI=Pounds per Square Inch  
 DC=Direct Current



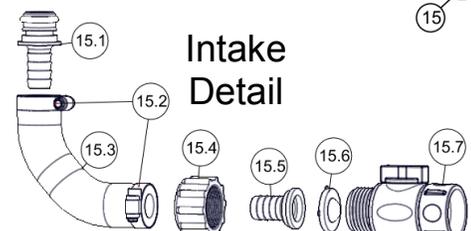
# Manifold Detail



# Exploded View/Parts List: LG-2500-304 (5301440)

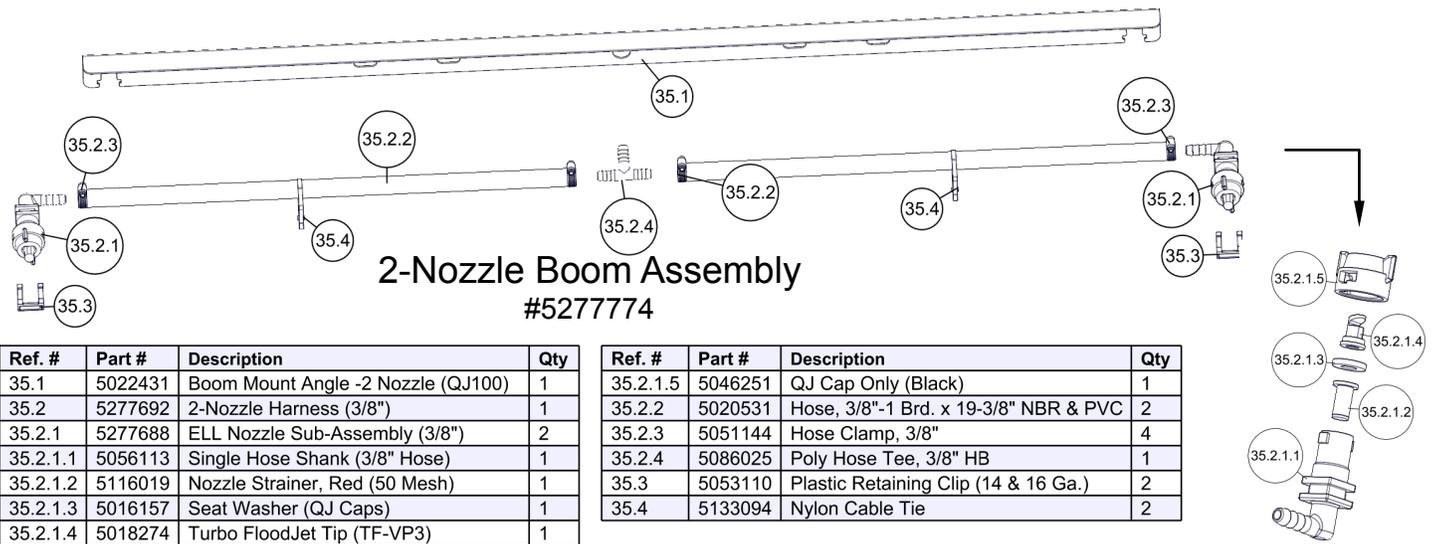


# Intake Detail



Ref. #	Part #	Description	Qty
1	5169243	25 Gallon Tank (White)	1
2	5273959	Deluxe Pistol-Grip Handgun w/X-26 Tip	1
2.1	5018331	Brass Handgun Tip (X-26)	1
3	5278348	Deluxe Wand Clips & Screws (Pkg/2) (#10-24 Thread)	1
4	5020524	Hose, 3/8"-1 Brd. x 15 Ft.	1
5	5051144	Hose Clamp, 3/8"	4
6	5051122	5/8" Black Nylon Loom Cable Clamp	1
7	5117234	#10-24 x 1/2" Phillips Truss Head Machine Screw	1
8	5058188	Tank Lid w/Lanyard	1
9	5117300	H.H.C.S. Flanged 5/16"-18nc x 1" Long	2
10	5038517	Hitch Bracket (Formed)	1
11	5038518	Hitch Bracket (Flat)	1
12	5006307	5/16-18nc Hex Flanged Whiz Nut Gr. 5	8
13	5278114	Lead Wire Assembly w/15A Fuse & 30A Clips (96" Long)	1
13.1	5157238	15 Amp Regular Blade Fuse	1
14	5100452	Siphon Tube	1
15	5275877	Intake Sub-Assembly	1
15.1	5168833	Port Kit Fitting, 1/2" Hose Barb	1
15.2	5051114	Hose Clamp, 1/2"	2
15.3	5020557	1/2" Polyspring Hose x 5 1/4"	1
15.4	5006209	Poly Knurled Swivel Nut, 3/4" FGHT	1
15.5	5149035	Poly Swivel, 1/2" Hose Barb	1
15.6	5116242	Strainer, 1" Filter Washer	1
15.7	5143419	Swivel Shut-Off	1
16	5021102	4.10/3.50-6 Wheel (White) w/2 1/4" Offset & 5/8" BB	2
16.1	5031175	5/8" Wheel Ball Bearing	2

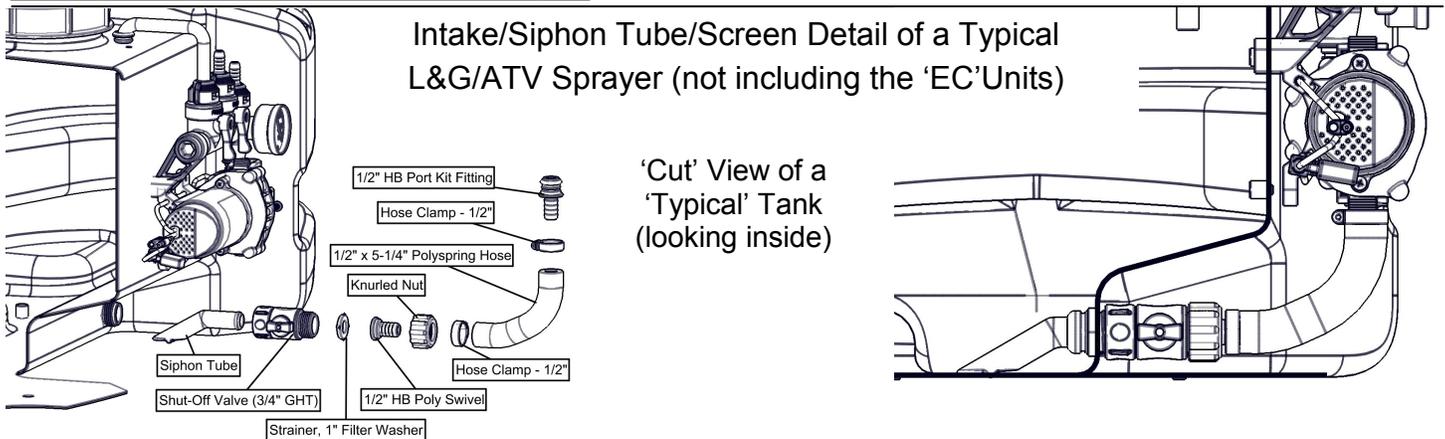
Ref. #	Part #	Description	Qty
17	5101077	Cotter Pin, 1/8" x 1"	2
18	5024102	Axle (5/8" Dia. x 26-3/8")	1
19	5127189	Wheel Spacer (for 5/8" Dia. axle)	2
20	5070060	Trailer Frame (Red)	1
21	5034531	5/16"-18 x 5/8" Flange Lock Screw	4
22	5117323	H.H.C.S. Flanged 5/16"-18nc x 3/4" Long	6
23	5277981	High Flo Gold Series 2.1 GPM Pump	1
24	5117167	#10-24 x 5/8" Phillips Truss Head Machine Screw	3
25	5117168	#10-24 x 1" Phillips Truss Head Machine Screw	1
26	5167097	2" Dry 100# Back Mount Gauge	1
27	5302793	Quick Connect Manifold Assembly	1
27.1	5302347	Quick Connect Manifold	1
27.2	5143422	QC Manifold - Support Bracket	1
27.3	5143430	Flat Washer - Hose Barb Seal	2
27.4	5143431	QC Manifold - 3/8" Hose Barb - Straight	2
27.5	5143429	QC Manifold - QC Quarter Turn Cap	2
28	5143430	Flat Washer - Hose Barb Seal	1
29	5143429	QC Manifold - QC Quarter Turn Cap	1
30	5100803	Rigid By-Pass Tube Assembly	1
31	5075018	Grommet, 1/2" I.D.	1
32	5095198	Boom Bracket (Light Duty)	2
33	5020133	Hose, 3/8"-1 Brd. x 30"	1
34	5274373	Drain Plug Cap, Tether, and Washer Assembly	1
35	5277774	2-Nozzle Boom (QJ)	1



**2-Nozzle Boom Assembly  
#5277774**

Ref. #	Part #	Description	Qty
35.1	5022431	Boom Mount Angle -2 Nozzle (QJ100)	1
35.2	5277692	2-Nozzle Harness (3/8")	1
35.2.1	5277688	ELL Nozzle Sub-Assembly (3/8")	2
35.2.1.1	5056113	Single Hose Shank (3/8" Hose)	1
35.2.1.2	5116019	Nozzle Strainer, Red (50 Mesh)	1
35.2.1.3	5016157	Seat Washer (QJ Caps)	1
35.2.1.4	5018274	Turbo FloodJet Tip (TF-VP3)	1

Ref. #	Part #	Description	Qty
35.2.1.5	5046251	QJ Cap Only (Black)	1
35.2.2	5020531	Hose, 3/8"-1 Brd. x 19-3/8" NBR & PVC	2
35.2.3	5051144	Hose Clamp, 3/8"	4
35.2.4	5086025	Poly Hose Tee, 3/8" HB	1
35.3	5053110	Plastic Retaining Clip (14 & 16 Ga.)	2
35.4	5133094	Nylon Cable Tie	2



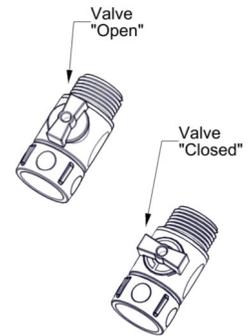
**Intake/Siphon Tube/Screen Detail of a Typical  
L&G/ATV Sprayer (not including the 'EC'Units)**

**'Cut' View of a  
'Typical' Tank  
(looking inside)**

The suction line of your sprayer should contain a 'siphon tube' or intake tube which should be rotated so that it just touches the bottom of the tank surface. (see Detail Views). Reach in and rotate it, as needed, if not already in this position. A nylon shut-off valve is threaded onto the pipe nipple at the intake location on the tank. It is at this location so you can shut off the flow of solution to access your system's screen for cleaning.

### Checking/Cleaning the sprayer's filter/screen:

- ◆ Start your pump and before it shuts off, reach down and Shut the nylon valve to the 'Closed' position (lever is perpendicular to the flow of fluid), then shut off your pump.
- ◆ Unscrew the knurled nut from the shut-off valve, leaving the valve connected to the tank.
- ◆ Swing (swivel) the intake assembly towards you. Look in the nut you JUST unscrewed. There is a screen/washer there.
- ◆ Remove the screen and clean as necessary. Replace when done and reassemble the entire assembly.
- ◆ Make sure the valve is turned to the 'Open' position before restarting your pump.



### Maintenance During/After Spraying

Periodically check the strainer and clean the screen on your intake line. Proper care and maintenance will prolong the life of your sprayer. After use, fill the sprayer half way with clean water. Start the pump and allow the water to pump through the entire plumbing system and nozzles. Drain and then refill half full, add the recommended amount of a good quality tank cleaner, such as FIMCO Tank Neutralizer and Cleaner. (If no tank cleaner is available, you may substitute dish soap for this step). Turn pump on and circulate through system for 15 minutes and then spray out through boom and handgun nozzles. Refill sprayer half way with clean water and repeat. Follow the chemical manufacturer's disposal instructions of all wash or rinsing water. If boom or handgun nozzles need cleaning, remove them from the sprayer and soak in warm soapy water. Clean with a soft bristled brush or toothpick if necessary. Never use a metal object. Even the slightest damage can change the flow rate and spray distribution. Water rinse and dry the tips before storing.

**WARNING: Some chemicals will damage the pump valves if allowed to soak untreated for a length of time! ALWAYS flush the pump as instructed after each use. DO NOT allow chemicals to sit in the pump for extended times of idleness. Follow the chemical manufacturer's instructions on disposal of all waste water from the sprayer.**

### Winter Storage

Before storing your sprayer for winter or long term storage, thoroughly clean and drain it as much as possible. Then pour enough pink RV antifreeze into the tank so that when the pump is turned on you can pump the antifreeze throughout the entire plumbing system, including the bypass. Make sure to operate the boom and handgun until you see pink fluid spraying from the nozzles. Leave any remaining antifreeze in the tank. Before your next usage, rinse the antifreeze from the sprayer with clean water. It is nearly impossible to drain all of the water from the sprayer and any trapped water can freeze in cold weather and damage parts of the sprayer. Pumping the antifreeze through the system will displace the water and help prevent this damage.