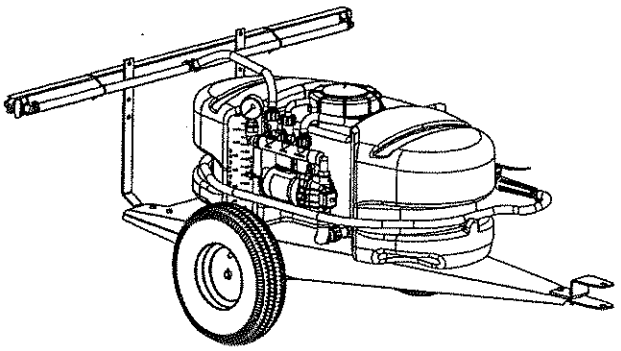
OWNER'S MANUAL

Model: SC15-TRLNS (5301734)

(15 Gallon Lawn & Garden Trailer Sprayer)



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 SCORPION PRODUCT:

1-800-831-0027

BEFORE YOU CALL, PLEASE HAVE THE FOLLOWING INFORMATION AVAILABLE: SALES RECEIPT & MODEL NUMBER. IN MOST CASES, A CUSTOMER SERVICE REPRESENTATIVE 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/Parts/Service

Products are warranted for one year from date of purchase against manufacturer or workmanship defects.

Commercial users have a 90 day warranty.

Your authorized dealer is the best source of replacement parts and service. To obtain prompt, efficient service, always remember to give the following information...

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

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

Whenever you need parts or repair service, contact your distributor/dealer first. For warranty work, always take your original sales slip, or other evidence of purchase date, to your distributor/dealer.

Technical Specifications

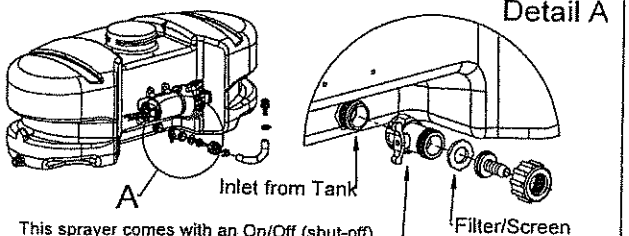
- 15 Gal. Corrosion-Resistant Polyethylene Tank
- 12 Volt Diaphragm Pump, 2.1 g.p.m. - 60 p.s.i.
- Lever Handgun
- 15 Ft. Handgun Hose
- 15 Ft. max. vertical throw, 30 Ft. max. horizontal throw
- Low Profile Trailer & Tank
- 4.10/3.50 x 4 Pneumatic Tires
- Pressure Gauge
- Adjustable Pressure
- 2-Nozzle Boom Assembly, 80" Coverage

General Assembly

Your sprayer has been partially assembled at the factory. Follow the instructions below to complete the assembly of this unit. (Refer to the exploded view drawing later in this manual)

1. Bolt the hitch brackets, both formed and flat, to the trailer frame.
2. Slide the axle through the frame holes, centering it as best as possible.
3. Slide a wheel spacer and a wheel (valve stem out) onto each end of the axle, then use a cotter pin to secure the wheels in place.
4. Bolt the boom brackets to the back of the frame.
5. Bolt the boom assembly to the boom brackets with the tips of the boom facing rearward. The tips need to be approximately 18" above the spraying surface. Secure in place with (2) bolts and nuts provided.
6. Thread the pressure gauge into the end of the manifold assembly. Use a good grade of thread sealant, to insure no leaks.
7. Remove the drain plug and handgun clips from the parts bag and attach them to the tank, as shown.
8. Attach the 'loose' boom feeder hose to the center hose barb on the manifold assembly and to the nylon feeder "tee" on the boom. Secure in place with the supplied hose clamps.
9. 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 (-).

*** 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.

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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Testing the Sprayer

NOTE:
It is VERY important for you to test your sprayer with plain water before actual spraying is attempted. This will enable you to check the sprayer for leaks, without the possibility of losing any expensive chemicals.

Add water to the tank & drive to the starting place for spraying. When you are ready to spray, 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 bypass line valve.

Read the operating instructions and Initially begin spraying by closing the 'bypass' valve (this is the center ON/OFF valve located at the center port of your manifold assembly) and opening the boom line valve (this is the 'other' valve on the manifold). 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, & 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) correctly!

WARNING: Some chemicals will damage the pump valves if allowed to soak untreated for a length of time! ALWAYS thoroughly flush the pump with water after 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.

Operation

Your sprayer is equipped with (2) ON/OFF switches. One is on the wire assembly that you hook up to your battery, the other is on the pump itself, on the opposite end of the pressure switch. The "-" is the "ON" position and the "o" is the "OFF" position for the switches. Make sure both switches are depressed in the "-" position for operation.

In addition to the ON/OFF switch, the pump is equipped with an electronic pressure switch that is factory pre-set for it to shut off at 60 p.s.i.. This switch assembly is the 'square box' on the head portion of the pump.

Always fill the tank with a desired amount of water first, and then add the chemical slowly, mixing as you pour the chemical into the tank. You may use the handgun to spray into the solution in order to mix the chemical and water.

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

- Open the handgun by squeezing the handle lever.
- Rotating the adjustable nozzle tip on the handgun will change the tip pattern from a straight stream to a cone pattern (finer mist).

This sprayer is designed to be towed behind a garden tractor.

The nozzles on the boom will spray an 80 inch wide swath. Check the nozzle pattern by spraying water on a concrete surface. Raise the boom to a higher mounting position to get more spray pattern overlap, if desired.

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 all 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, & 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.

After Spraying

After use, fill the sprayer tank part way with water. Start the sprayer, and allow the clear water to be pumped through the plumbing system and out through the spray nozzles.
Refill the tank about half full with plain water and use FIMCO Tank Neutralizer and Cleaner, and repeat cleaning instructions above. Flush the entire sprayer with the neutralizing/cleaning agent, then flush out one more time with plain water. Follow the chemical manufacturer's disposal instructions of all wash or rinsing water. For the boom, (if applicable) remove the tips and screens from the nozzle assemblies. Wash these items out thoroughly. Blow the orifice clean and dry. If the orifice remains clogged, clean it with a fine bristle (NOT WIRE) brush, or with a toothpick. Do not damage the orifice. 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.

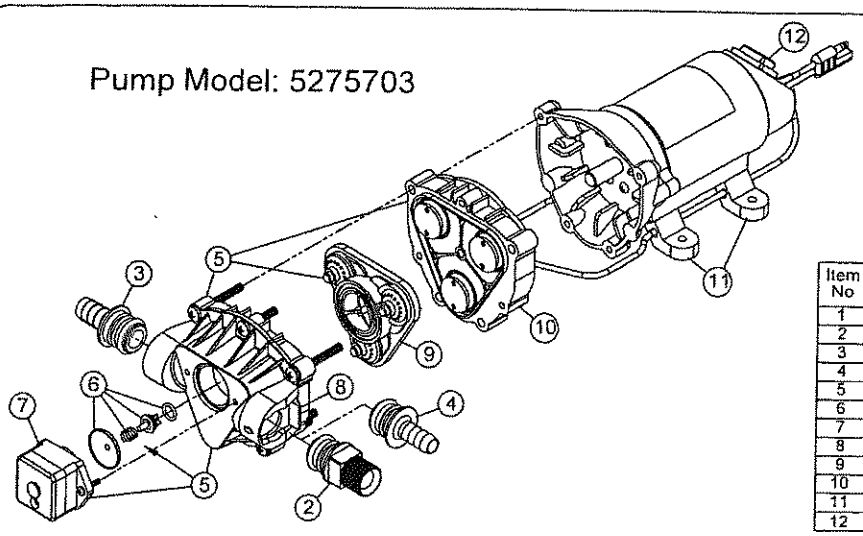
Winter Storage

Drain all water out of your sprayer, paying special attention to the pump, handgun, and valve(s). These items are especially prone to damage from chemicals and freezing weather.

The sprayer should be winterized before storage by pumping a solution of RV antifreeze through the entire plumbing system. This antifreeze solution should remain in the plumbing system during the winter months. When spring time comes and you are preparing your sprayer for the spray season, rinse the entire plumbing system out, clearing the lines of the antifreeze solution. Proper care and maintenance will prolong the life of your sprayer.

Speed Chart			
	Time Required in seconds to travel a distance of		
Speed in M.P.H. (Miles per Hour)	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

Pump Model: 5275703



Available Replacement Parts

Item No	Part Number	Qty	Description
1	5157205	1	7.5 Amp 'Mini Blade' Fuse
2	5168832	1	Port Kit Fitting, 1/2" MNPT
3	5168833	1	Port Kit Fitting, 1/2" Hose Barb
4	5168836	1	Port Kit Fitting, 3/8" Hose Barb
5	5168837	1	Upper Housing Assembly
6	5168839	1	Plunger Kit
7	5157202	1	Pressure Switch Assembly
8	20408-000	1	Pkg. (2) Clips (Port Fitting)
9	5168820	1	Check Valve Kit (w/O-Ring)
10	5168838	1	Diaphragm/Piston/Cam/Bearing Kit
11	5095202	1	Mounting Feet (Pkg of 4)
12	5157207	1	On/Off Rocker Switch w/Cover

Troubleshooting the Pump:

STOP WARNING STOP

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

Motor does not run:
- Check for loose wiring connection(s).
- Make sure the 'ON/OFF' switches in both the lead wire assembly & on the pump motor are 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 your 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.

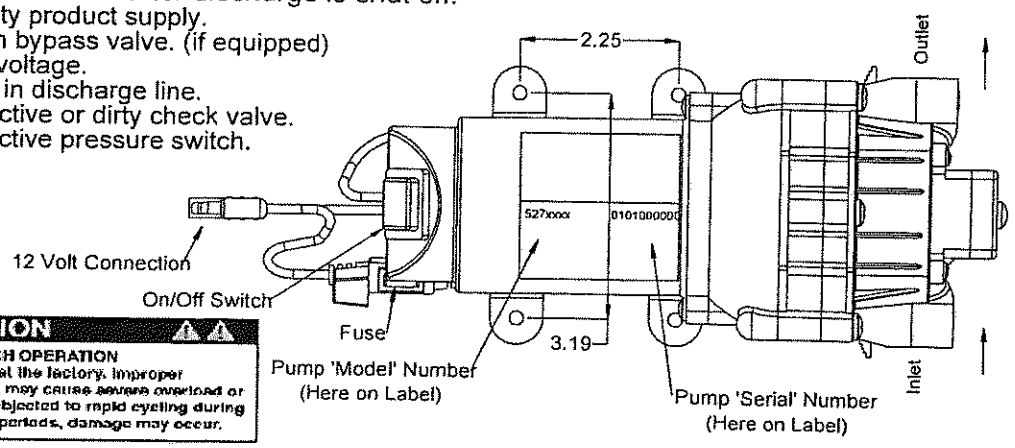
Pump does not prime:
- Check for air leaks in supply line.
- Check for debris in the check valve assembly.
- Check for defective check valve.
- Check for clogged strainer/filter.
- Check for cracks in the pump housing.
- Check for empty product supply.

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	
Flow Rate:	2.1 GPM @ Open Flow
Current:	4.5 Amps @ 30 PSI
Check Valve:	Viton
Port Type:	Plug-In Port
Motor Voltage:	12 Volts DC
Wetted Parts Housing:	Polypropylene
Diaphragm:	Santoprene
Liquid Temperature:	130° F max.

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

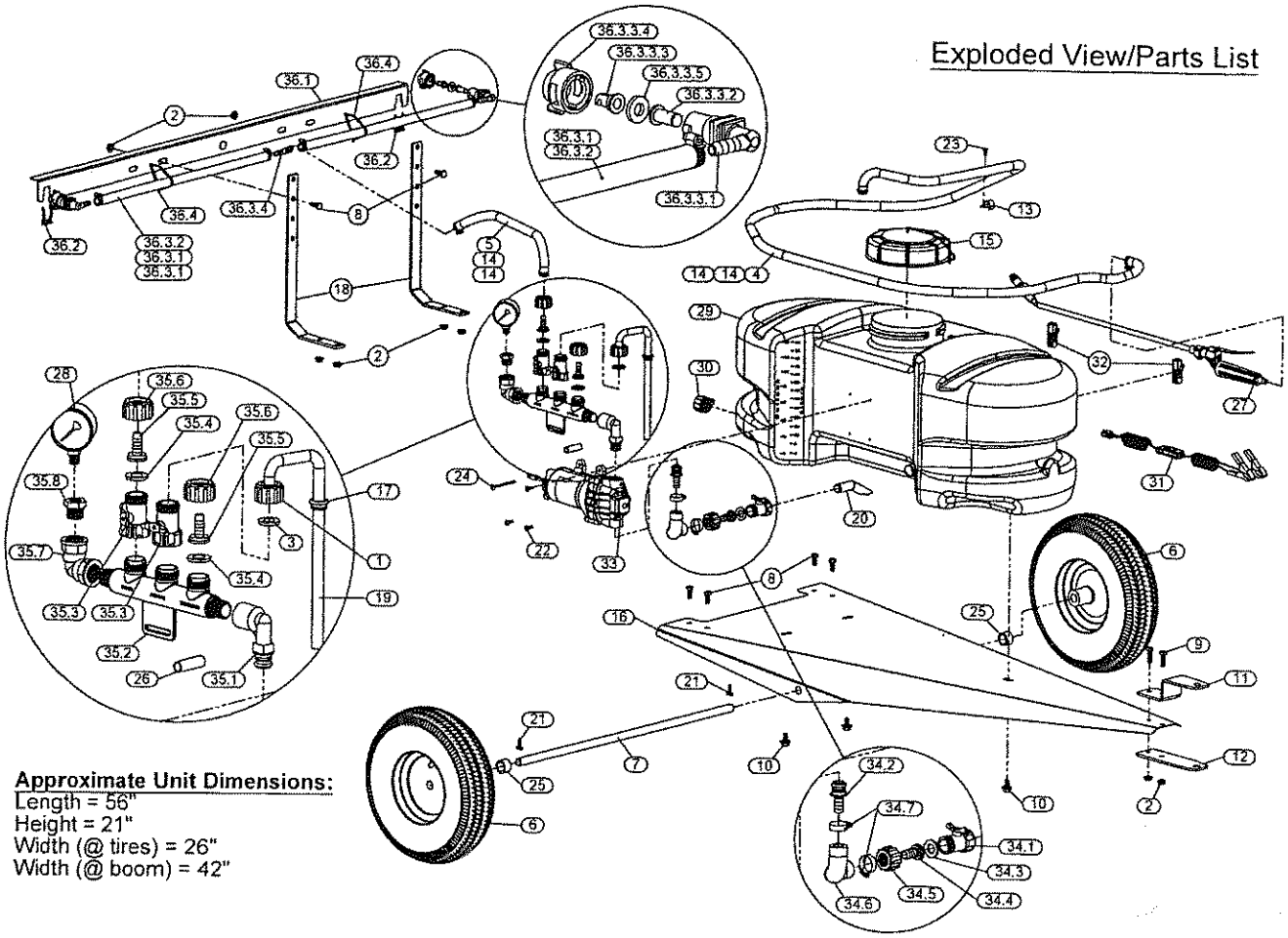


CAUTION

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.

Exploded View/Parts List



Approximate Unit Dimensions:
Length = 56"
Height = 21"
Width (@ tires) = 26"
Width (@ boom) = 42"

Item No	Part Number	Qty	Description
1	5006209	1	Poly Knurled Swivel Nut, 3/4" FGHT
2	5006307	8	5/16"-18 Hex Whiz (Flange) Locknut
3	5016066	1	Garden Hose Washer
4	5020215	1	Hose, 3/8"-1 Brd. x 15 Ft.
5	5020251	1	Hose, 3/8"-1 Brd. x 24"
6	5021092	2	4.10/3.50-4 Wheel (White) (5/8" Bearing)
7	5024105	1	Axle (5/8" Dia. x 24")
8	5034038	6	H.H.C.S. 5/16"-18nc x 3/4" Long
9	5034042	2	H.H.C.S. 5/16"-18nc x 1" Long
10	5034531	3	5/16"-18 x 5/8" Flange Lock Screw
11	5038517	1	Hitch Bracket (Formed)
12	5038519	1	Hitch Bracket (Flat)
13	5051122	1	5/8" Black Nylon Loom Cable Clamp
14	5051144	4	Hose Clamp (3/8")
15	5058188	1	Tank Lid w/Lanyard
16	5070067	1	Trailer Frame (Red), 5/8" Axle (15 & 20 Gal.)
17	5075018	1	Grommet
18	5095198	2	Boom Bracket (Light Duty)
19	5100357	1	Poly Bypass "J" Hose (Triplex 15 & 20 G.)
20	5100452	1	Siphon Tube
21	5101077	2	Cotter Pin, 1/8" x 1"
22	5117167	3	#10-24 x 5/8" Phillips Truss Head Machine Screw
23	5117234	1	#10-24 x 1/2" Phillips Truss Head Machine Screw
24	5117313	1	#10-24 x 2 1/2" Truss Head Machine Screw
25	5127181	2	Spacer
26	5127191	1	Manifold Spacer (2.1gpm)
27	5163100	1	Low-Flow Handgun w/X-25 Tip
28	5167007	1	Pressure Gauge, 0-100 p.s.i.
29	5169252	1	15 Gallon Tank (Yellow)
30	5274373	1	Drain Plug Cap, Tether, and Washer Assembly
31	5274443	1	Lead Wire Assembly (w/Switch), 96"
32	5274880	1	Handgun Clips & Screws (Pkg/2) (#10-24 Thread)

Item No	Part Number	Qty	Description
33	5275703	1	Gold Series 2.1 g.p.m. Pump (60 psi, 8 Amp)
34	5275877	1	Intake Sub-Assembly
34.1	5143198	1	Nylon Shut-Off Valve (3/4" GHT)
34.2	5168833	1	Port Kit Fitting, 1/2" Hose Barb
34.3	5116242	1	Strainer, 1" Filler Washer
34.4	5148035	1	Poly Swivel, 1/2" Hose Barb
34.5	5006209	1	Poly Knurled Swivel Nut, 3/4" FGHT
34.6	5020497	1	1/2" Polyspring Hose x 6"
34.7	5051114	2	Hose Clamp (3/8"-1/2")
35	5277685	1	Manifold Assembly (Trailer/ATV)
35.1	5010430	1	Port Kit Elbow, 1/2" FNPT
35.2	5143405	1	Manifold w/Mounting Tab
35.3	5143188	2	Nylon Shut-Off Valve (3/4" GHT)
35.4	5016066	2	Garden Hose Washer
35.5	5149034	2	Poly Swivel, 3/8" Hose Barb
35.6	5006209	2	Poly Knurled Swivel Nut, 3/4" FGHT
35.7	5010236	1	Poly Elbow, 1/2" FNPT x 1/2" FNPT
35.8	5041073	1	Poly Reducing Bushing, 1/2" MNPT x 1/4" FNPT
36	5277774	1	2-Nozzle Boom (QJ)
36.1	5022431	1	Boom Mount Angle -2 Nozzle (QJ100)
36.2	5053110	2	Plastic Retaining Clip 14 Ga. & 16 Ga.
36.3	5277692	1	2-Nozzle Harness (3/8")
36.3.1	5051144	4	Hose Clamp (3/8")
36.3.2	5020510	2	Hose, 3/8"-1 Brd. x 19-3/8"
36.3.3	5277688	2	ELL Nozzle Sub-Assembly (3/8")
36.3.3.1	5056113	1	Single Hose Shank (3/8" Hose)
36.3.3.2	5116019	1	Nozzle Strainer, Red (50 Mesh)
36.3.3.3	5018274	1	Turbo FloodJet Tip (TF-VP3)
36.3.3.4	5046251	1	QJ Cap Only (Black)
36.3.3.5	5016157	1	Seat Washer (QJ Caps)
36.3.4	5086025	1	Poly Hose Tee, 3/8" HB
36.4	5133094	2	Nylon Cable Tie

ON/OFF Switch Information For Your Sprayer

Your sprayer may be equipped with (2) ON/OFF switches. The one on the pump will be at the 'rear' of the pump, located underneath a clear plastic cover. A similar switch will be located on your battery connecting cable. (in most cases)
Things you need to know about the switches:
"-" is for the ON position
"o" is for the OFF position
(These symbols are based off the binary number system, where 1=ON and 0=OFF)
Make sure BOTH of these switches are in the "ON" position before operating your sprayer.