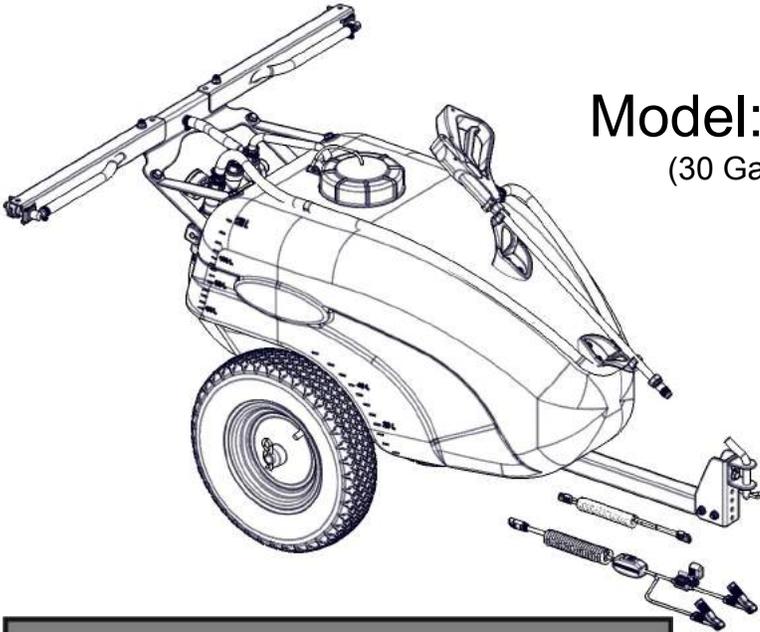


# OWNER'S MANUAL



## Model: LG-30-TRL (5302317) (30 Gallon Lawn & Garden Trailer Sprayer)

### Technical Specifications

- 30 Gal. Corrosion-Resistant Polyethylene Tank
- 12 Volt Diaphragm Pump, 2.1 g.p.m.—60 psi
- 15 Ft. Handgun Hose
- 25 Ft. max. vertical throw, 35 Ft. horizontal throw
- Pressure Gauge (0-100 psi)
- 2-Nozzle Steel Boom Assembly (80" Spray Coverage)
- Corrosion-Resistant Nylon Nozzles
- Bypass (recirculation) Line w/ON/OFF Control
- Heavy Duty 16" tires
- Easy access drainage port
- Front forward gun and hose wrap for easier access from transport vehicle
- Complete drain out tank

Streamlined tank design for compact storage and shorter turning radius.

**Caution:** Always check the vehicle load rating before using the sprayer. The loaded weight of this sprayer and boom assembly is approx.: 320 lbs. when the tank is full.

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](http://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.

### Assembly Instructions

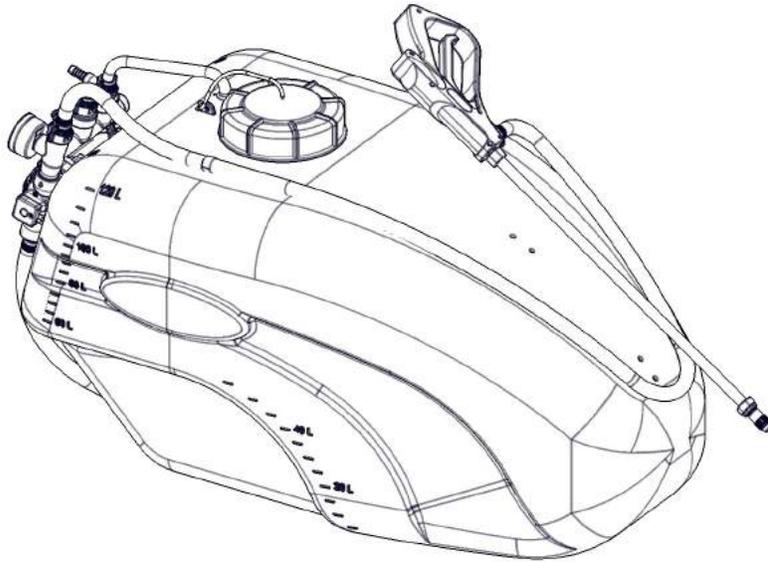
- Make sure the contents of the sprayers carton match the items shown on page 2 of the manual.
- Follow the steps on pages 3 & 4 to properly assemble the sprayer.



**[www.fimcoindustries.com](http://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  
[5008450 (05/16)]

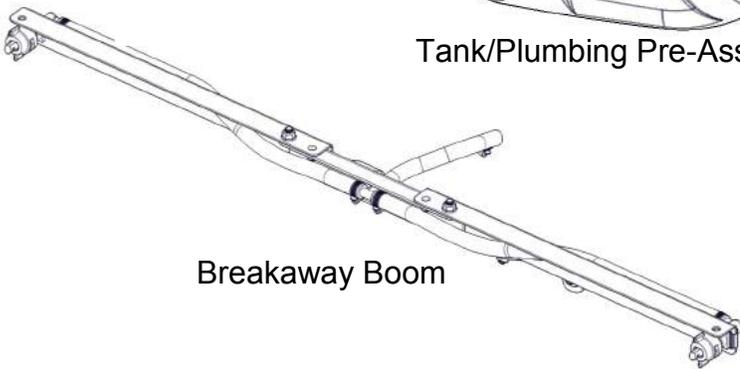
## Contents of your sprayer's carton (LG-30-TRL)



Tank/Plumbing Pre-Assembly

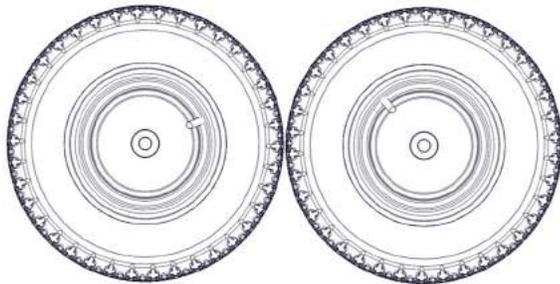


Owner's Manual

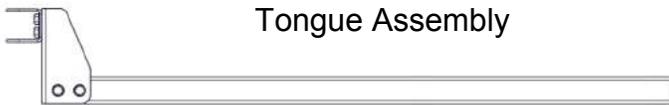
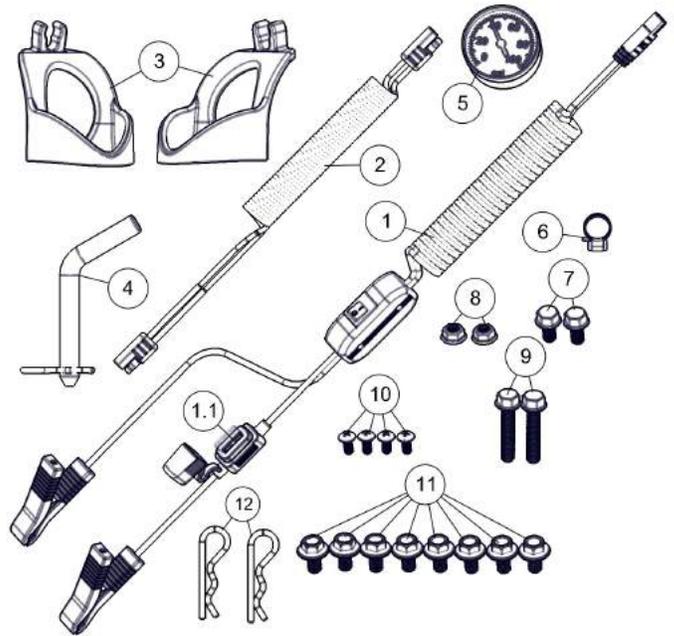


Breakaway Boom

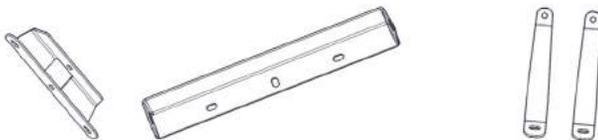
## Contents of Parts Bag (#5278364)



Tires & Axle



Tongue Assembly



Tank Supports

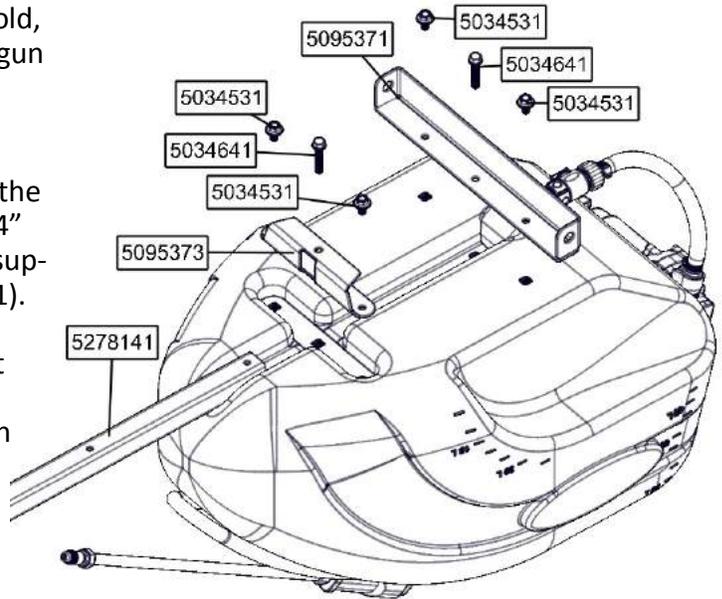
Boom  
Top Straps

Ref. #	Part #	Description	Qty
1	5278114	Lead Wire Assembly w/15A Fuse & 30A Clips (96")	1
1.1	5157238	15 Amp Regular Blade Fuse	1
2	5273212	5 Ft Extension Cable	1
3	5133276	30 Gal Hose Wrap	2
4	5101202	Bent Clevis Pin (1/2" Dia.) W/Clip	1
5	5167097	2" Dry 100# Back Mount Gauge	1
6	5051144	Hose Clamp (3/8")	1
7	5034634	H.H.C.S. Flanged 5/16"-18nc x 5/8"	2
8	5006307	5/16-18nc Hex Flanged Whiz Nut Gr. 5	2
9	5034641	H.H.C.S. Flanged 5/16"-18nc x 2-1/4"	2
10	5117234	#10-24 x 1/2" Phillips Truss Head Machine Screw	4
11	5034531	5/16"-18 x 5/8" Flange Lock Screw	8
12	5101065	#211 Hitch Pin Clip (Zinc Plated)	2

Your tank comes pre-assembled with the pump, manifold, bypass, intake assembly, lid w/lanyard, handgun, handgun hose, handgun hose quick connect and loom clamp already attached.

To assemble the tongue and frame to the tank. Locate the (4) 5/16"x5/8" flanged bolts (5034531), (2) 5/16"x2-1/4" flanged bolts (5034641), tank support (5095373), axle support (5095371) and the preassembled tongue (5278141).

Turn the tank upside down and attach the tank support with (2) 5034531 bolts, attach the axle support with (2) 5034531 bolts. Just start the bolts, do not tighten on either support. Then slide the tongue assembly into place and using the (2) 5034641 bolts, attach to the tank and tighten. Then tighten the (4) 5034531 bolts down. Do Not Overtighten.



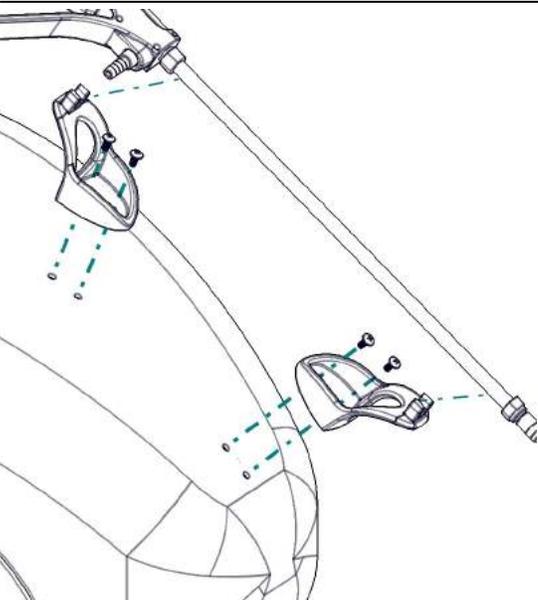
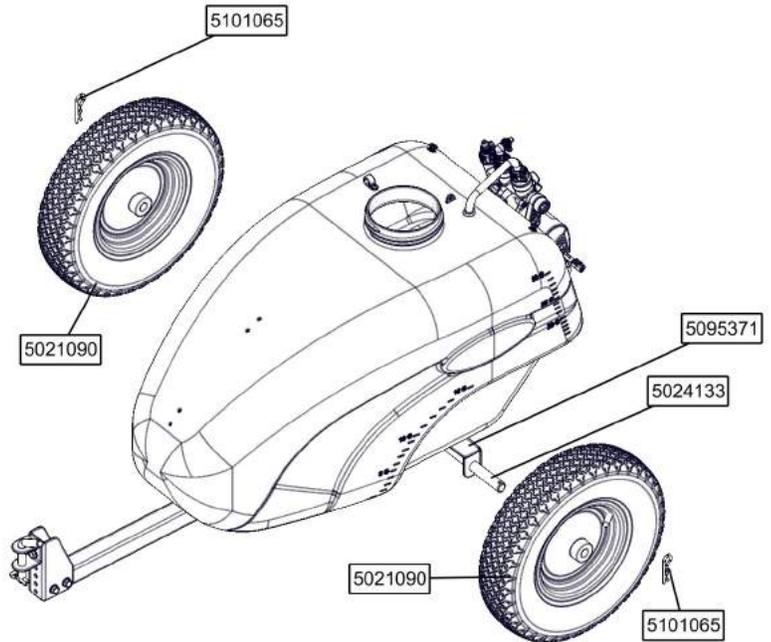
Remove the axle (5024133) and (2) wheels (5021090) from the carton.

Remove the (2) Hitch Pins (5101065) from the parts bag.

Slide the axle through the hole in one side of the axle mount (5095371) and through the corresponding hole on the other side.

Slide the wheels over the axle, making sure the valve stems are facing outward.

Retain the wheels on the axle with the hitch pins. Place the pins through the holes at the end of the axle.



Turn the trailer right side up.

Locate the (4) #10x1/2" Screws (5117234) and the (2) Hose Wraps (5133276) from the parts bag.

To assemble the hose and spraygun holders. A phillips head screwdriver is required for this step.

Place a screw through the holes in the hose wrap and bring it up to the tank. Use the phillips head screwdriver to secure the holders in place. Tighten so the holders are secure. **\*\*Do Not Over-Tighten\*\***

Wrap the hose and clip in the handgun. Do not use excessive force when placing the handgun into the clips, as this could cause breakage.

Boom Assembly (5278354) is preassembled. Follow the directions below to mount to your tank.

To install the Breakaway boom assembly. Locate the (2) Boom Top Straps (5037868) and then in the parts bag, locate (4) 5/16-18x5/8" Flanged Lock Screws (5034531), (2) 5/16-18x5/8" Flanged Bolts (5034634) and (2) Whiz Nuts (5006307).

Do Not Tighten until Step 4

Step 1: Attach the Boom Top Straps to the tank, using (2) 5034531 Screws

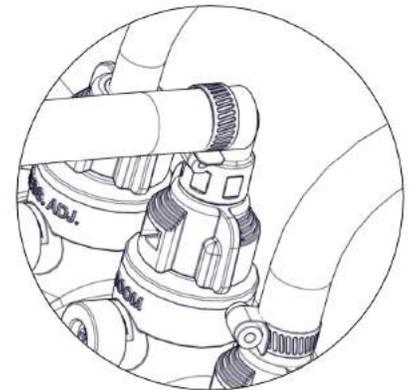
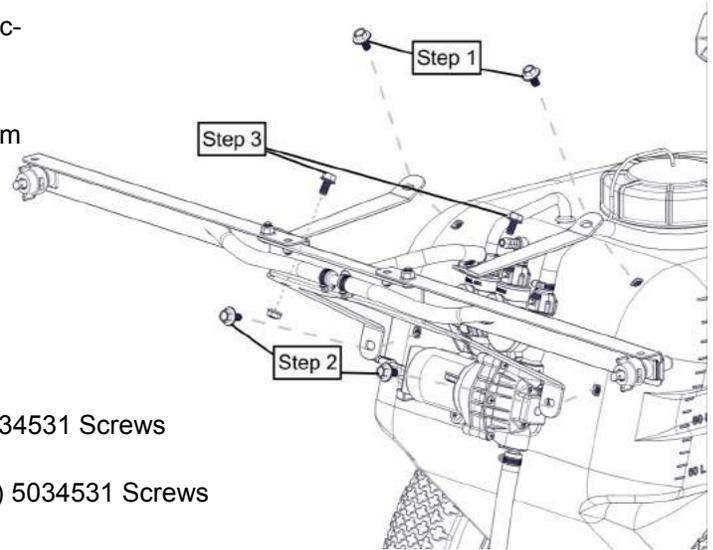
Step 2: Attach the Boom Lower Support to the tank, using (2) 5034531 Screws

Step 3: Attach the Boom Top Straps to the Boom Lower Support, using (2) 5034634 Bolts and (2) 5006307 Whiz Nuts

Step 4: Tighten all Bolts—DO NOT OVERTIGHTEN

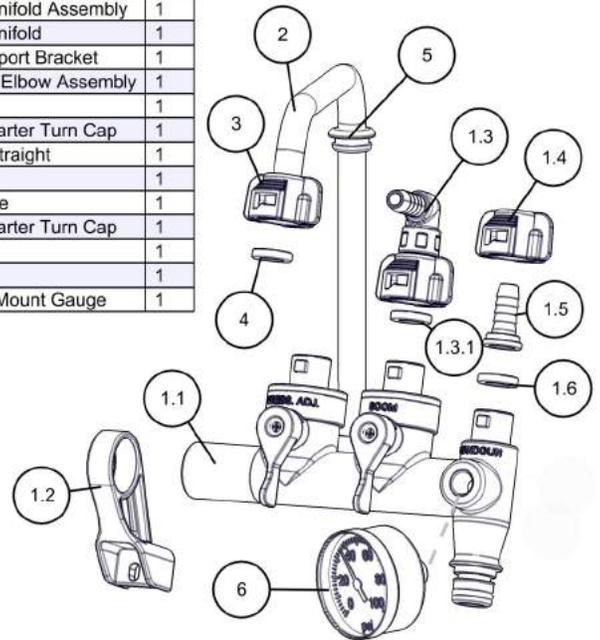
After the boom is installed, attach the 6½" Feeder Hose to the 90° HB Elbow on the manifold.

The boom is now installed.

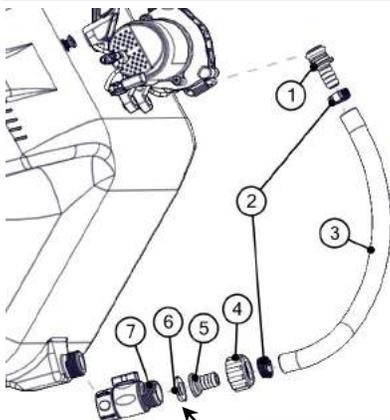


## Manifold Assembly 5302352

Ref. #	Part #	Description	Qty
1	5302352	Quick Connect Manifold Assembly	1
1.1	5302347	Quick Connect Manifold	1
1.2	5143422	QC Manifold - Support Bracket	1
1.3	5302802	QC 3/8 Swivel 90° Elbow Assembly	1
1.3.1	5143430	Flat Washer	1
1.4	5143429	Quick Connect Quarter Turn Cap	1
1.5	5143431	3/8" Hose Barb - Straight	1
1.6	5143430	Flat Washer	1
2	5149152	Rigid By-Pass Tube	1
3	5143429	Quick Connect Quarter Turn Cap	1
4	5143430	Flat Washer	1
5	5075018	Grommet	1
6	5167097	2" Dry 100# Back Mount Gauge	1



## Intake Assembly 5278143



Ref. #	Part #	Description	Qty
1	5168833	Port Kit Fitting, 1/2" Hose Barb	1
2	5051114	Hose Clamp (3/8"-1/2")	2
3	5020566	Hose 1/2" Polyspring x 12.75"	1
4	5006209	Poly Knurled Swivel Nut, 3/4" FGHT	1
5	5149035	Poly Swivel, 1/2" Hose Barb	1
6	5116242	Strainer, 1" Filter Washer	1
7	5143419	Swivel Shut-Off	1

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

Information Tag about cleaning strainer

## 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 and drive to the starting place for spraying. When you are ready to spray, position booms out 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 bypass line valve.

Read the operating instructions and initially begin spraying by closing the 'bypass' valve (this is the valve marked Press. Adj. on your manifold assembly) and opening the boom line valve (this is the center 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 and good pressure, 40 psi), 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

## Operation

Your sprayer is equipped with (1) ON/OFF switch. It is on the wire assembly that you hook up to your battery. The "o" is the "ON" position and the "o" is the "OFF" position for the switch. Make sure the switch is depressed in the "-" position for operation.

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 bypass 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 (fine 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.

## 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

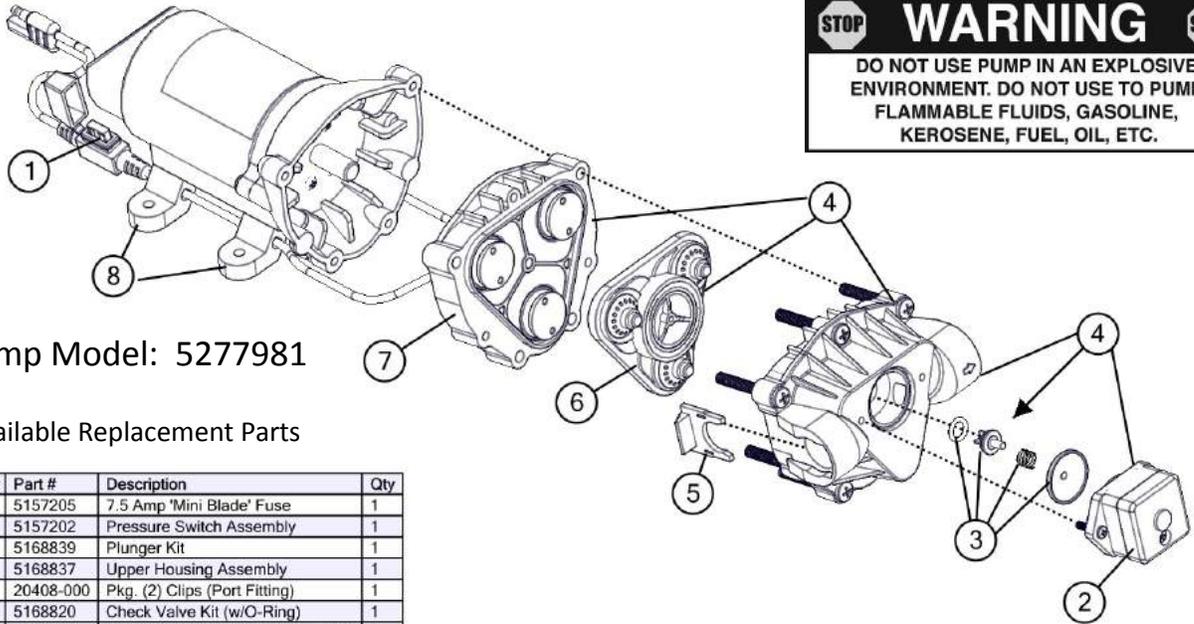
Drain all water out of your sprayer, paying special attention to the pump, handgun and valve(s). These items are especially prone to damage from chemicals and freezing weather.

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

Tip Chart for TKT-VP3, TF-VP3 & 30DT3.0 Tips										
Tip No. (Color)	Spray Height	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)	18"	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)	Spray Height	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)	18"	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)	Spray Height	Pressure (psi)	Capacity (GPM)	Gallons Per 100 Sq. Ft. - Based on Water						
				1 MPH	2 MPH	3 MPH	4 MPH	5 MPH	7.5 MPH	10 MPH
3 (Gray)	18"	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):

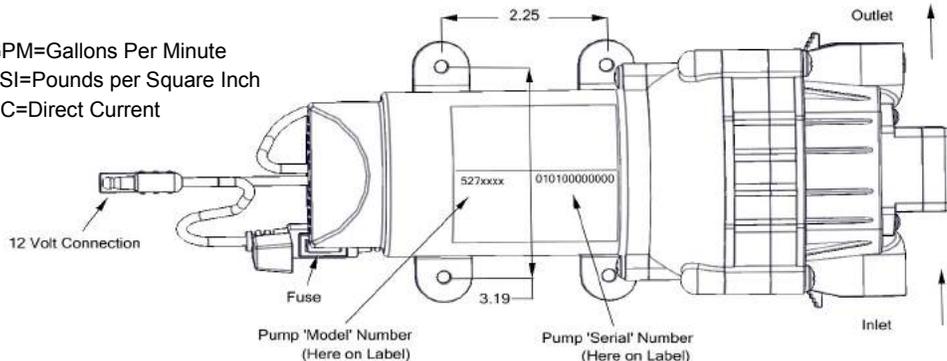
- Check for defective pressure switch.
- Check for leaks in the discharge line.
- Check for restriction in the discharge line.
- Check for debris in nozzle orifice.
- Discharge hose may be too long.
- Check for clogged strainer.

Motor continues to run after discharge is shut off:

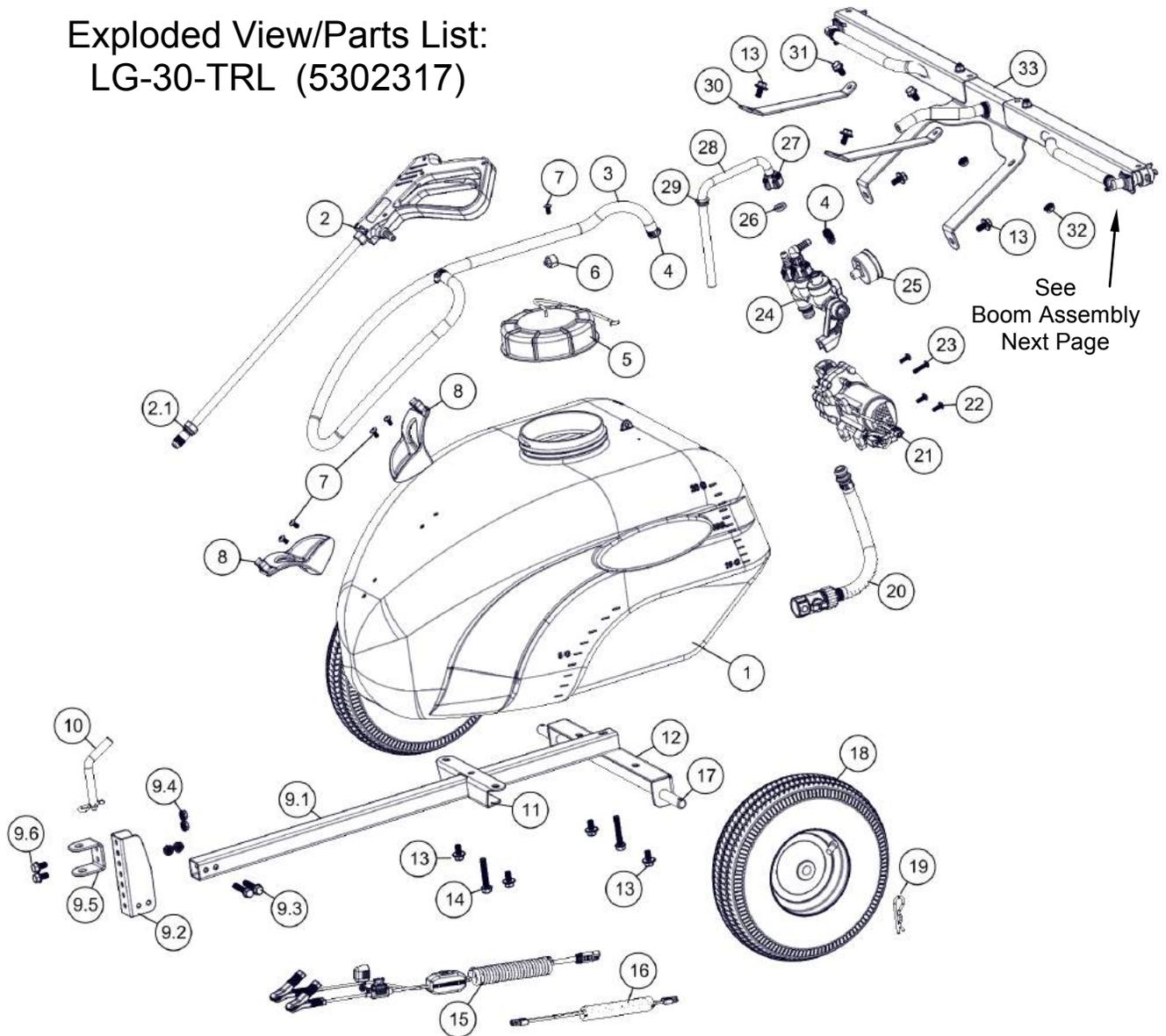
- Check for empty product supply.
- Check for open bypass valve. (if equipped)
- Check for low voltage.
- Check for leak in discharge line.
- Check for defective or dirty check valve.
- Check for defective pressure switch.

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

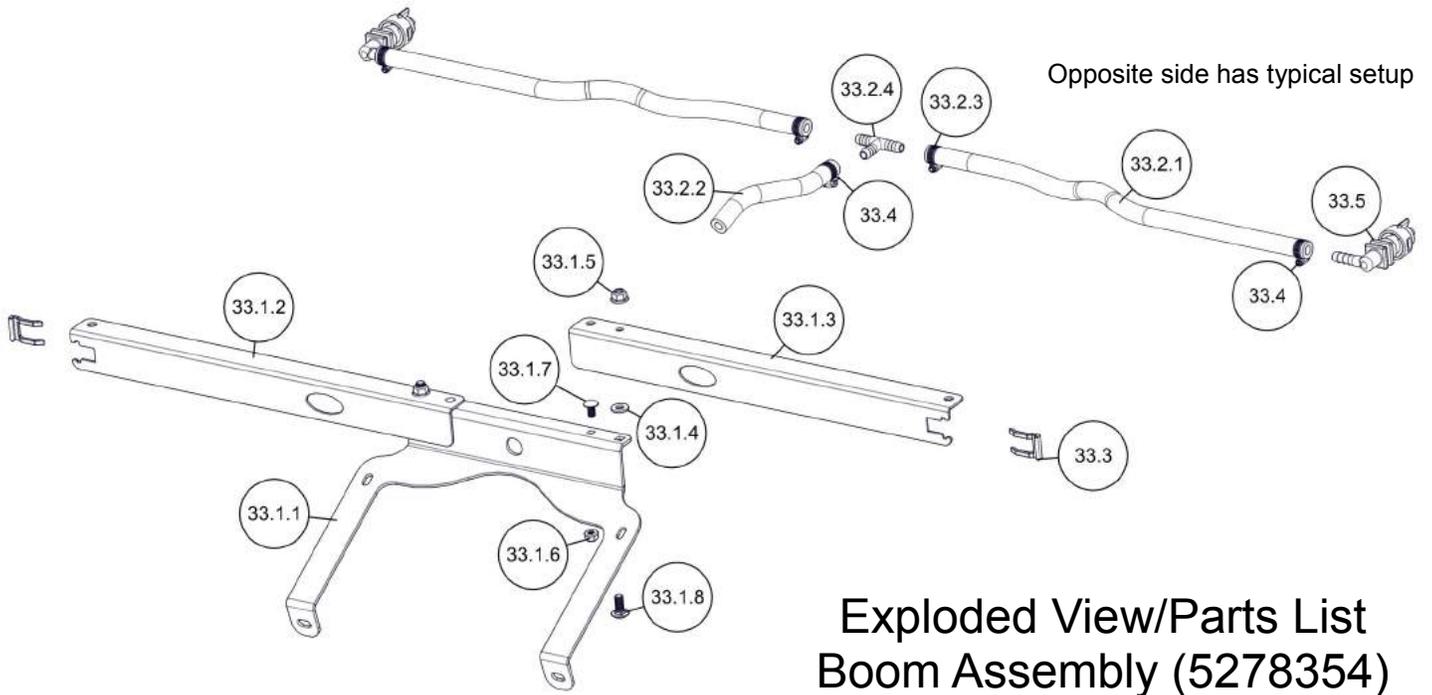


# Exploded View/Parts List: LG-30-TRL (5302317)



Ref. #	Part #	Description	Qty
1	5169321	30 Gal Trailer Tank - White	1
1.1	5157238	15 Amp Regular Blade Fuse	1
2	5273959	Deluxe Pistol-Grip Handgun w/X-26 Tip	1
2.1	5018331	Brass Handgun Tip (X-26)	1
3	5020524	Hose, 3/8"-1 Brd. x 15 Ft.	1
4	5051144	Hose Clamp (3/8")	3
5	5058188	Tank Lid w/Lanyard	1
6	5051122	5/8" Black Nylon Loom Cable Clamp	1
7	5117234	#10-24 x 1/2" Phillips Truss Head Machine Screw	5
8	5133276	30 Gallon Hose Wrap	2
9	5278141	Tongue Assembly LG-30-TRL	1
9.1	5096112	30 Gallon Trailer Tongue	1
9.2	5038870	Hitch Bracket	1
9.3	5034641	H.H.C.S. Flanged 5/16"-18nc x 2-1/4" Long	2
9.4	5006307	5/16-18nc Hex Flanged Whiz Nut Gr. 5	4
9.5	5038854	Hitch	1
9.6	5034634	H.H.C.S. Flanged 5/16"-18nc x 5/8" Long	2
10	5101202	Bent Clevis Pin (1/2" DIA.)	1
11	5095373	30 Gallon Tank Support	1
12	5095371	Axle Mount	1
13	5034531	5/16"-18 x 5/8" Flange Lock Screw	8
14	5034641	H.H.C.S. Flanged 5/16"-18nc x 2-1/4" Long	2
15	5278114	Lead Wire Assembly w/15A Fuse & 30A Clips (96" Long)	1
15.1	5157238	15 Amp Regular Blade Fuse	1
16	5273212	5 Ft Extension Cable	1
17	5024133	Trailer Axle (21-13/16")	1
18	5021090	4.80/400 x 8 Wheel (White) w/2 1/4" Offset & 5/8" BB	2
18.1	5031141	3/4" Wheel Ball Bearing	2
19	5101065	#211 Hitch Pin Clip (Zinc Plated)	2

Ref. #	Part #	Description	Qty
20	5278143	Intake Assembly	1
20.1	5168833	Port Kit Fitting, 1/2" Hose Barb	1
20.2	5020566	Hose 1/2" Polyspring X 12.75"	1
20.3	5051114	Hose Clamp - 1/2"	2
20.4	5006209	Poly Knurled Swivel Nut, 3/4" FGHT	1
20.5	5149035	Poly Swivel, 1/2" Hose Barb	1
20.6	5116242	Strainer, 1" Filter Washer	1
20.7	5143419	Swivel Shut-Off	1
21	5277981	High Flo Gold Series 2.1 GPM Pump	1
22	5117167	#10-24 x 5/8" Phillips Truss Head Machine Screw	3
23	5117168	#10-24 x 1" Phillips Truss Head Machine Screw	1
24	5302352	Quick Connect Manifold Assembly	1
24.1	5302347	Quick Connect Manifold	1
24.2	5143422	QC Manifold - Support Bracket	1
24.3	5143430	Flat Washer - Hose Barb Seal	1
24.4	5143429	QC Manifold - QC Quarter Turn Cap	1
24.5	5143431	QC Manifold - 3/8" Hose Barb - Straight	1
24.6	5302802	QC Manifold 3/8 Swivel 90° Elbow Assembly	1
25	5167097	2" Dry 100# Back Mount Gauge	1
26	5143430	Flat Washer - Hose Barb Seal	1
27	5143429	QC Manifold - QC Quarter Turn Cap	1
28	5149152	Rigid By-Pass Tube	1
29	5075018	Grommet, 1/2" I.D.	1
30	5037868	Boom Top Strap	2
31	5034606	H.H.C.S. Flanged 5/16"-18nc x 5/8" Long	2
32	5006307	5/16-18nc Hex Flanged Whiz Nut Gr. 5	2
33	5278354	Boom Assembly	1



## Exploded View/Parts List Boom Assembly (5278354)

Ref. #	Part #	Description	Qty
33.1	5278355	LG-TRL Boom Sub-Assembly	1
33.1.1	5037867	Boom Lower Support	1
33.1.2	5095345	Boom Angle (QJ100) (R.H.)	1
33.1.3	5095344	Boom Angle (QJ100) (L.H.)	1
33.1.4	5016020	Flatwasher - 5/16	2
33.1.5	5006389	5/16-18nc Hex Flanged Toplock Nut Gr. 5	2
33.1.6	5006344	1/4-20nc Hex Flanged Toplock Nut Gr. 5	2
33.1.7	5034606	1/4"-20 x 1/2" Carriage Bolt (Full Thread)	2
33.1.8	5034578	Carriage Bolt, 5/16"-18 x 3/4" (short neck)	2
33.2	5278356	Boom Plumbing Sub-Assembly	1
33.2.1	5020198	Hose, 3/8"-1 Brd. x 20"	2
33.2.2	5020535	Hose, 3/8"-1 Brd. x 6 1/2"	1

Ref. #	Part #	Description	Qty
33.2.3	5051144	Hose Clamp, 3/8"	2
33.2.4	5086025	Poly Hose Tee, 3/8" HB	1
33.3	5053110	Plastic Retaining Clip (14 & 16 Ga.)	2
33.4	5051144	Hose Clamp, 3/8"	3
33.5	5277688	ELL Nozzle Sub-Assembly (3/8")	2
33.5.1	5056113	Single Hose Shank (3/8" Hose)	1
33.5.2	5116019	Nozzle Strainer, Red (50 Mesh)	1
33.5.3	5016157	Seat Washer (QJ Caps)	1
33.5.4	5018274	Turbo FloodJet Tip (TF-VP3)	1
33.5.5	5046251	QJ Cap Only (Black)	1

