# **OWNER'S MANUAL**

# Model: UTL-40-12V-BL (5301344)

(40 Gallon Lawn & Garden Utility Sprayer w/"Boomless' Boom)

#### **Technical Specifications**

- 40 Gal. Corrosion-Resistant Polyethylene Tank
- Deluxe Pistol-Grip Handgun
- 25 Ft. Handgun Hose
- 26 Ft. max. vertical throw, 35 Ft. horizontal throw
- 3-Nozzle Boomless Nozzle Assembly w/30 Ft. Spray Coverage
- Adjustable Boom Height
- 12 Volt, 4.5 GPM, 60 PSI Diaphragm Pump

Caution: When fully filled with water, this sprayer will weigh approx. 450 lbs.. Consult the owner's manual for your vehicle to verify that you are within it's load carrying capacity.



Thank you for purchasing this product. The purpose of this manual is to assist you in operating and maintaining your lawn & garden Utility sprayer.



**WARNING:** To reduce the risk of injury, the user must read and understand the operator's manual before using this product.



WARNING: Cancer and Reproductive Harm www.P65Warnings.ca.gov

BEFORE RETURNING THIS PRODUCT FOR ANY REASON, PLEASE CALL

1-800-831-0027

MONDAY-FRIDAY, 8:00 AM TO 5:00 PM CST

If you should have a question or experience a problem with your Fimco Industries Product: Visit our website @ www.fimcoindustries.com or call the Toll free number above. Our technical support representatives will be happy to help you. In most cases a customer service rep. can resolve the problem over the phone.

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

Correct Part Description and/or part number
 Model number and Serial Number

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

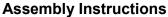
Retain a copy of your receipt for your unit, as it will be required to validate any warranty service.

Warranted against manufacturer or workmanship defects from date of purchase with copy of receipt:



Homeowner Usage: Sprayer-One Year and Pump-Two Years.

Commercial Usage: Sprayer and Pump-90 Days.

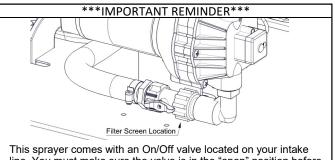


Most of the sprayer is assembled at the factory. The only assembly necessary is to thread the pressure gauge in place, attach the boom and to hook up the wiring to an existing 12 volt power source.

Attach the boom to the boom mounts with the hardware provided. Attach the boom feeder hose and secure in place with the provided hose clamps.

Connect the electrical hook-up to the end of your pump and clip the clips to a fully charged battery.

Read the operating instructions and then run the sprayer using only water for testing.

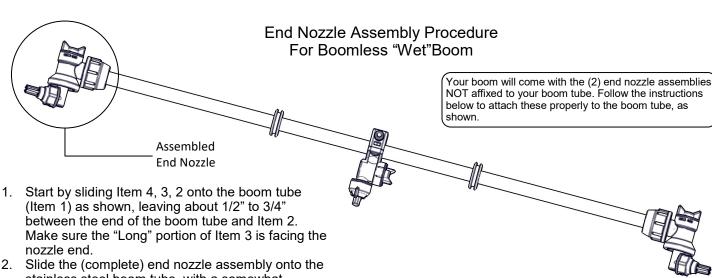


This sprayer comes with an On/Off valve located on your intake line. You must make sure the valve is in the "open" position before using your sprayer.



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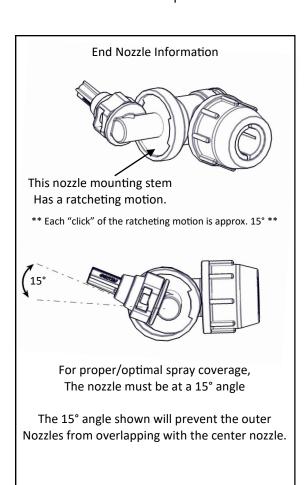
Slide the (complete) end nozzle assembly onto the stainless steel boom tube, with a somewhat "twisting" motion, so that the end face of the boom tube "butts" up against the surface face inside the nozzle body.

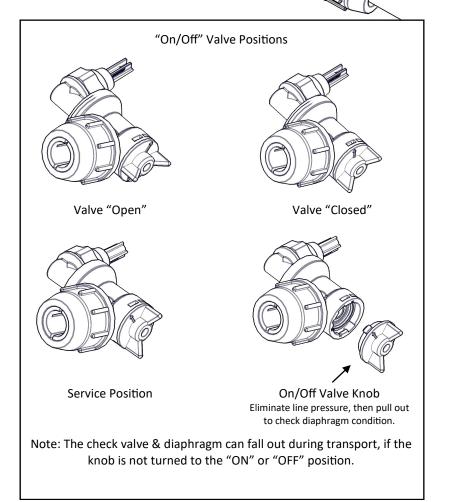
 Now push the "compression olive" (Item 3) against O-ring (Item 2) and slide (both) into the nozzle body opening firmly.

4. Firmly tighten flynut (Item 4) onto threads of nozzle body.

Repeat for other side.

NOTE: If water is shooting back on the boom tube, item 2 is not in the correct placement.





Item 2 is shipped inside of

the end nozzle assembly.

Remove & place on tube.

"Long" Portion

**IMPORTANT:** Remove tank lid and be sure the tank is clean and free of any foreign material. Rinse tank out of any tank residue before filling with water to test.

#### **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.

Fill the tank about 1/2 full with plain water and drive to the starting place for spraying.

When you are ready to spray, turn the boom valve to the "on" position (Detail A). 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 (Detail B). Make sure your pattern is sufficient. You may down-pressure the system by 'bypassing' solution back into the tank. This is achieved by opening the bypass valve. Regulating pressure is done in this manner.

Read the operating instructions and initially begin spraying by closing the 'Pressure Adjust' valve and opening the boom line valve (Detail A). 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!

#### 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. Connect to the positive (red) terminal first, then connect to the negative (black) terminal. Then connect the end of the lead wire to the end of the pump. When disconnecting, disconnect the end of the pump wire from the lead wire, then disconnect the negative (black) connection and finally the positive (red) connection. The lead wire has an On/Off switch to activate the pump. "-" is on and "O" is off.

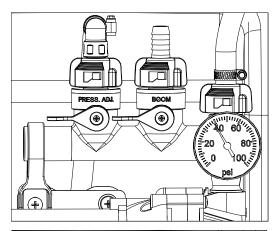
Fill the tank part way with water and then add the desired amount of chemical to be sprayed. Finish filling tank to proper level. Turn the pump on and by depressing the "-" side of the rocker switch. The pump is equipped with a pressure switch that is pre-set at the factory to shut the pump off when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

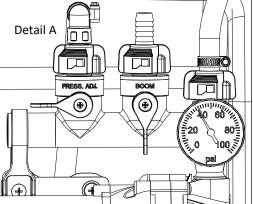
The pump will turn back on when one of the following actions occurs:

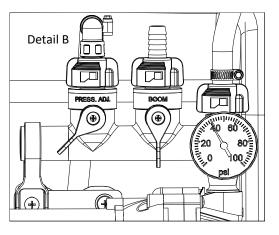
- ♦ Handgun lever is squeezed to spray the handgun.
- ♦ Boom valve is opened to broadcast spray with the boom.
- Bypass valve is opened to re-circulate solution back into the tank.

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

#### Manifold Valves CLOSED







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.

#### 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 & 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.

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	

#### **Using the Boom Nozzles**

Four things must be considered before spraying with the boom.

- How much chemical must be mixed in the tank. 1.
- 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. Usually you can see the coverage better on a solid concrete surface, such as a driveway.
- The boomless nozzles should be approx. 33" above the objects being sprayed.

#### 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, drain the tank and store or dispose of chemical properly. 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, about 1-2 oz. per gallon). 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 instructions on disposal of all waste water from the sprayer.

#### Winter Storage

Prepare the sprayer 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. Note: RV antifreeze is non-toxic and biodegradable and generally safer for the environment than automotive antifreeze

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.

Removing from storage: drain the antifreeze. Fill the tank with fresh water and run through the system. Dispose of antifreeze and flush water properly.

	es of idleness. Follow the chemical manufacturer's
	Troubleshooting
	Check for loose wiring
Pump will not run:	Make sure the ON/OFF switch is on
ump wiii not rum.	Check the fuse
	Check for defective pressure switch
	Check for a clogged strainer
Low Pressure/Low Flow:	Check for proper voltage
2011 1 100001 0, 2011 1 1011	Try another 12-Volt battery
	Check for worn or dirty check valve
	Low flow may cause pump to surge
	Spray wand is adjusted for a small or fine spray pattern
Pump surges:	Slightly open bypass (if applicable) to overcome
	If needed, pressure switch may need to be adjusted
	Quarter turn at a time clockwise until surging stops
	Bypass is not completely closed
Pump continues to run:	System has leaks
	Check for worn or dirty check valve
	Excessive voltage
Fuse blows:	Improper adjustment of pressure switch
asc piows.	Damaged or defective wiring harness
	Defective pressure switch

Rate Chart for Boomless Nozzle (Set of 3)

3 MPH 4 MPH

7.0

8.6

9.9

4 MPH

0.16

0.20

0.23

0.078 | 0.039 | 0.026 | 0.020 | 0.016 | 0.013 | 0.010

2 MPH | 3 MPH | 4 MPH | 5 MPH | 6 MPH | 8 MPH

0.032 | 0.021 | 0.016 | 0.013 | 0.011 | 0.008

Sq. Ft. Based on Water - 17-1/2" Spacing

9.4

11.4

13.2

3 MPH

0.21

0.26

0.30

5 MPH

5.6

6.9

7.9

5 MPH

0.13

0.16

0.18

6 MPH

4.7

5.7

6.6

6 MPH

0.11

0.13

0.15

Spacing

8 MPH

3.5

4.3

5.0

8 MPH

0.08

0.10

0.12

Gallons per Acre Based on Water - 17-1/2" Spacing

2 MPH

14.0

17.2

19.8

Gallons per 1000 Sq. Ft. Based on Water - 17-1/2"

2 MPH

0.32

0.39

0.45

1 MPH

28.0

34.4

'39.6

1 MPH

0.64

0.78

0.90

1 MPH

0.064

Capacity

G.P.M.

(3 Nozzles)

1.68

2.05

2.40

Capacity

G.P.M.

(3 Nozzles

1.68

2.05

2.40

G.P.M.

(3 Nozzles)

1.68

2.05

2.40

Gallons per 100 Capacity

Pressure

P.S.I.

20

30

40

Pressure

P.S.I.

20

30

40

Pressure

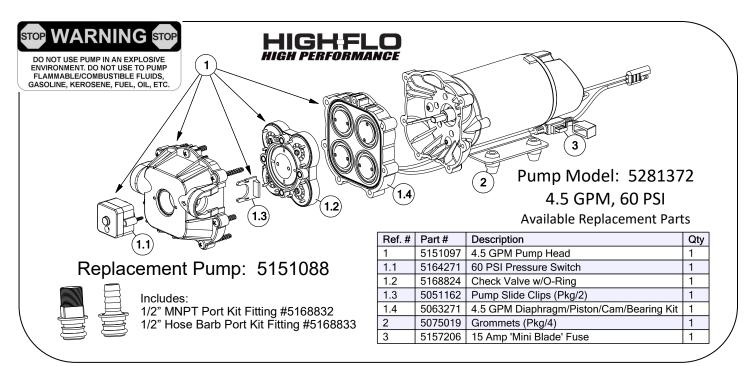
P.S.I.

20

30

40

<sup>0.090 0.045 0.030 0.023 0.018 0.015 0.012</sup> The rate of spray as shown in the chart will remain the same with 1, 2 or 3 Nozzles The only difference will be with the width of the spray swath





- 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.

#### **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.

#### Low Pressure/Low Flow:

- Check for leaks in the discharge line.
- Check for restriction in the discharge line.
- Check for debris in nozzle orifice.
- Check for clogged strainer.
- Check for proper voltage—try another 12-volt battery.



- 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

# 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.

#### Pulsating flow (surging):

- Low flow may cause pump to surge.
- Spray wand is adjusted for a small or fine spray pattern.
- Slightly open bypass (if applicable) to overcome.
- If needed, pressure switch may need to be adjusted adjust a quarter turn at a time clockwise until surging stops.
- 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 pressure switch.
- System has leaks.

#### Fuse blows:

- Excessive voltage.
- Improper adjustment of pressure switch.
- Damaged or defective wiring harness.
- Half-moon & counterweight are sticking.
- Defective pressure switch.

#### Checking the Pressure Switch:

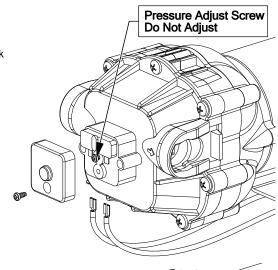
If your motor is not running and you've checked the following: for loose wiring connections, fuse, the switch on the lead wire was "ON" and made sure you were connected to a fully charged battery and everything is fine, but the motor won't run, then it's time to check to see if the pressure switch is bad.

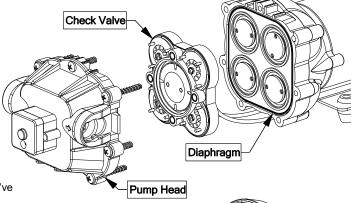
- Remove the cover off the 1" square box (pressure switch) on the head of the pump, the cover is held on by one phillips-head screw. This will expose the two red wires.
- With the pump connected to a good 12 volt power source and everything on.
- Slip the two red wires off the terminals and touch them together.

If the motor runs, it means the pressure switch is bad and needs to be replaced. If it still doesn't run, try bypassing the switch in the lead wire or using another lead wire. Even if a tester shows power to the pressure switch, it still could be the switch in the wire that is causing the problem. If still not responsive, use a voltmeter or electrical tester to make sure you are getting power to the head of the pump, as it could possibly be something in one of the wires or even the lead wire assembly may need to be replaced.

<u>Warning:</u> It is NOT recommended to run the pump this way, as the pump will continue to run and not shut off.

This could result in blown hoses when all discharges are closed. Also, this could result in premature failure of the pump completely.





#### Cleaning the Check Valve:

If you're experiencing little to no pressure or the pump is not priming and you've checked your filter screen and it's clean, and you've gone through the other trouble shooting tips, you may need to clean the check valve.

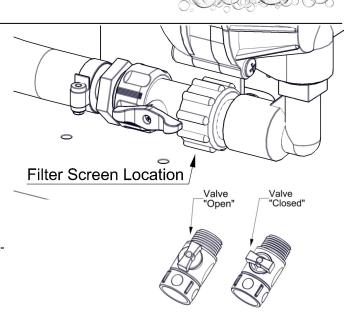
- Remove the head of the pump, which is held on by 7 screws.
- The first piece inside the head of the pump is called a check valve, it's the part responsible for building up pressure and pumping water/solution through the lines.
- Clean the check valve under hot, soapy water (such as a good grade dish soap).
- Give it a very light scrubbing with something like an old toothbrush, something with soft bristles.
- Then let it soak for about an hour or so in the hot soapy solution and replace in the pump and reassemble the pump.

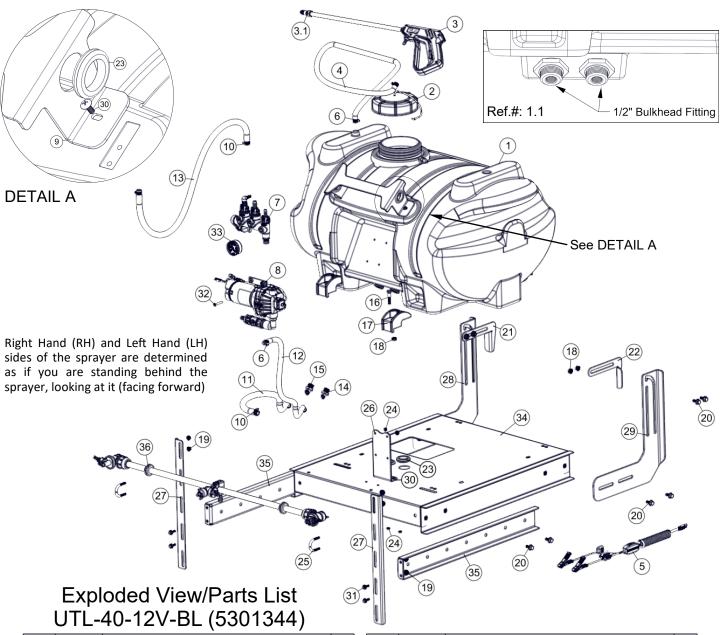
Most times this will restore most, if not all of the prime of a pump. If you're still having issues with pressure after this step, it would be recommended to replace this part.

There is a shut-off valve on the intake line, next to the pump. 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 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.

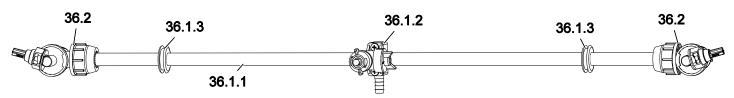




Ref.#	Part #	Description	Qty
1	5169245	40 Gallon Elliptical Tank (White)	1
1.1	TF50DTN	1/2" Bulkhead Fitting Assembly	2
2	5058188	Tank Lid w/Lanyard	1
3	5273959	Deluxe Pistol-Grip Handgun w/X-26 Tip	1
3.1	5018331	Brass Handgun Tip (X-26)	1
4	5020527	Hose, 3/8"-1 Brd. x 25 Ft.	1
5	5278114	Lead Wire Assembly w/15A Fuse & 30A Clips (96" Long)	1
5.1	5157238	15 Amp Regular Blade Fuse	1
6	5051144	Hose Clamp, 3/8"	4
7	5302506	Quick Connect Manifold Assembly	1
7.1	5302347	Quick Connect Manifold	1
7.2	5143422	QC Manifold - Support Bracket	1
7.3	5143430	Flat Washer - Hose Barb Seal	2
7.4	5143431	QC Manifold - 3/8" Hose Barb - Straight	1
7.5	5143432	QC Manifold - 1/2" Hose Barb - Straight	1
7.6	5302802	QC Manifold 3/8 Swivel 90° Elbow Assembly	1
7.7	5143429	QC Manifold - QC Quarter Turn Cap	2
8	5278021	Pump Assembly (Utility Sprayers)	1
8.1	5281372	High-Flo High Performance 4.5 GPM Pump, 60 PSI	1
8.2	5117168	#10-24 x 1" Phillips Truss Head Machine Screw	3
8.3	5275570	Filter/Valve Sub-Assembly	1
8.3.1	5010430	Port Kit Elbow, 1/2" FNPT	1
8.3.2	5006209	Poly Knurled Swivel Nut, 3/4" FGHT	1
8.3.3	5005287	Poly Swivel Adapter Spud, 1/2" NPT	1
8.3.4	5116242	Strainer, 1" Filter Washer	1
8.3.5	5143419	Swivel Shut-Off	1
8.3.6	5067121	Poly Hose Fitting, 3/4" MGHT 1/2" HB	1
9	5038775	Handgun Bracket	1

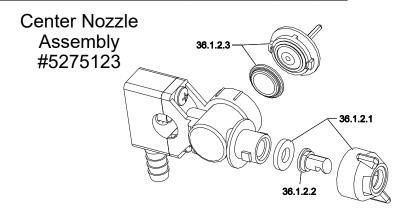
Ref. #	Part #	Description	Qty
10	5051114	Hose Clamp, 1/2"	4
11	5020575	Hose 1/2" (2SP) X 18"	1
12	5020528	Hose, 3/8"-1 Brd. x 25"	1
13	5020506	Hose, 1/2"-1 Brd. x 42"	1
14	5010202	Poly Elbow, 1/2" MNPT x 3/8" HB	1
15	5010203	Poly Elbow, 1/2" MNPT x 1/2" HB	1
16	5034101	H.H.C.S., 3/8"-16 x 1 3/4"	4
17	5038698	Plastic Tank Hold-Down Leg Clip	4
18	5006259	3/8-16nc Hex Flanged Whiz Nut Gr. 5	8
19	5006307	5/16-18nc Hex Flanged Whiz Nut Gr. 5	8
20	5034660	H.H.C.S. Flanged 3/8"-16nc x 3/4" Long	12
21	5023126	Clamp Arm R.H.	1
22	5023127	Clamp Arm L.H.	1
23	5075014	Rubber Grommet (Black)	4
24	5006186	#10-24 Hex Whiz (Flange) Locknut	6
25	5034220	Round U-Bolt, 5/16"-18 x 1 5/16" x 1 3/4"	2
26	5038855	Pump Mount Bracket	1
27	5095176	Boom Mount, 40/60 Gallon Utility Sprayer	2
28	5095348	Upright Tube Mount L.H.	1
29	5095349	Upright Tube Mount R.H.	1
30	5117234	#10-24 x 1/2" Phillips Truss Head Machine Screw	4
31	5117323	5/16"-18 x 3/4" Flange Whiz Lock Screw	4
32	5117338	#10-24 x 1 1/2 Long Truss Head Machine Screw	1
33	5167097	2" Dry 100# Back Mount Gauge	1
34	5277932	40/60 Gallon Utility Sprayer Frame Weldment	1
35	5277933	Boom Bracket, 40/60 Gallon Utility Weldment	2
36	5275260	"Wet Boom" Assembly	1

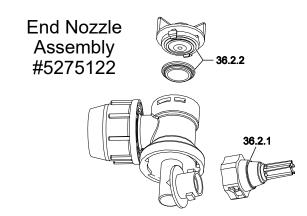
## Exploded View/Parts List Boomless "Wet" Boom Assembly (5275260)

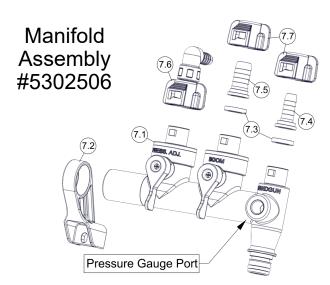


Ref. #	Part #	Description	Qty
36	5275260	"Wet Boom" Assembly	1
36.1	5275712	Wet Boom Sub-Assembly	1
36.1.1	5100316	Boom Tube	1
36.1.2	5275123	Center Nozzle Assembly (Wet Boom)	1
36.1.2.1	5274862	Center Boomless Nozzle Cap w/Gasket	1
36.1.2.2	5018329	Center Spray Tip	1
36.1.2.3	5088024	Valve (On/Off) Knob w/Diaphragm	1

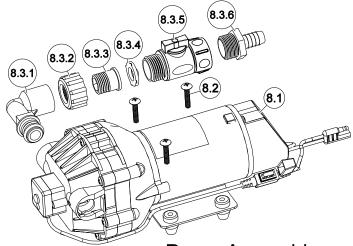
Ref. #	Part #	Description	Qty
36.1.2.3.1	5063255	Diaphragm	1
36.1.3	5075016	Rubber Grommet	2
36.2	5275122	End Nozzle Assembly (Wet Boom)	2
36.2.1	5274861	XT Spray Nozzle, Cap, & O-Ring	1
36.2.2	5088024	Valve (On/Off) Knob w/Diaphragm	1
36.2.2.1	5063255	Diaphragm	1







Ref. #	Part #	Description	Qty
7	5302506	Quick Connect Manifold Assembly	1
7.1	5302347	Quick Connect Manifold	1
7.2	5143422	QC Manifold - Support Bracket	1
7.3	5143430	Flat Washer - Hose Barb Seal	2
7.4	5143431	QC Manifold - 3/8" Hose Barb - Straight	1
7.5	5143432	QC Manifold - 1/2" Hose Barb - Straight	1
7.6	5302802	QC Manifold 3/8 Swivel 90° Elbow Assembly	1
7.7	5143429	QC Manifold - QC Quarter Turn Cap	2



Pump Assembly #5278021

Ref. #	Part #	Description	Qty
8	5278021	Pump Assembly (Utility Sprayers)	1
8.1	5281372	High-Flo High Performance 4.5 GPM Pump, 60 PSI	1
8.2	5117168	#10-24 x 1" Phillips Truss Head Machine Screw	3
8.3	5275570	Filter/Valve Sub-Assembly	1
8.3.1	5010430	Port Kit Elbow, 1/2" FNPT	1
8.3.2	5006209	Poly Knurled Swivel Nut, 3/4" FGHT	1
8.3.3	5005287	Poly Swivel Adapter Spud, 1/2" NPT	1
8.3.4	5116242	Strainer, 1" Filter Washer	1
8.3.5	5143419	Swivel Shut-Off	1
8.3.6	5067121	Poly Hose Fitting, 3/4" MGHT 1/2" HB	1

## Warranty

#### LIMITED WARRANTY FOR NEW FIMCO, IND. EQUIPMENT

WHO MAY USE THIS LIMITED WARRANTY. This limited warranty (the "Limited Warranty") is provided by Fimco, Ind. to the original purchaser ("you") of the Equipment (as defined below) from Fimco, Ind. or one of Fimco, Ind.'s authorized dealers. This Limited Warranty does not apply to any subsequent owner or other transferee of the Equipment. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

WHAT THIS LIMITED WARRANTY COVERS AND FOR HOW LONG. Fimco, Ind. warrants that any new Equipment will be free from defects in material and workmanship for a period of **one (1) year** for sprayer and **two (2) years** for High-Flo High Performance pump (homeowner), **90 days** for sprayer and pump (commercial user), after delivery of the Equipment to you (the "Warranty Period"). The Warranty Period is not extended if Fimco, Ind. repairs or replaces the Equipment.

WHAT IS NOT COVERED BY THIS LIMITED WARRANTY. This Limited Warranty does not apply to: (1) used Equipment; (2) any Equipment that has been altered, changed, repaired or treated since its delivery to you, other than by Fimco, Ind. or its authorized dealers; (3) damage or depreciation due to normal wear and tear; (4) defects or damage due to failure to follow Fimco, Ind.'s operator's manual, specifications or other written instructions, or improper storage, operation, maintenance, application or installation of parts; (5) defects or damage due to misuse, accident or neglect, "acts of God" or other events beyond Fimco, Ind.'s reasonable control; (6) accessories, attachments, tools or parts that were not manufactured by Fimco, Ind., whether or not sold or operated with the Equipment; or (7) rubber parts, such as tires, hoses and grommets.

HOW TO OBTAIN WARRANTY SERVICE. To obtain warranty service under this Limited Warranty, you must (1) provide written notice to Fimco, Ind. of the defect during the Warranty Period and within **thirty (30)** days after the defect becomes apparent or the repair becomes necessary, at the following address: Fimco, Ind., 1000 Fimco Lane, North Sioux City, SD 57049; and (2) make the Equipment available to Fimco, Ind. or an authorized dealer within a reasonable period of time. For more information about this Limited Warranty, please call: **800-831-0027**.

WHAT REMEDIES ARE AVAILABLE UNDER THIS LIMITED WARRANTY. If the conditions set forth above are fulfilled and the Equipment or any part thereof is found to be defective, Fimco, Ind. shall, at its own cost, and at its option, either repair or replace the defective Equipment or part. Fimco, Ind. will pay for shipping and handling fees to return the repaired or replacement Equipment or part to you.

LIMITATION OF IMPLIED WARRANTIES AND OTHER REMEDIES. THE REMEDIES DESCRIBED ABOVE ARE YOUR SOLE AND EXCLUSIVE REMEDIES, AND FIMCO, IND.'S SOLE LIABILITY, FOR ANY BREACH OF THIS LIMITED WARRANTY. TO THE EXTENT APPLICABLE, ANY IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE WARRANTY PERIOD, AND THE REMEDIES AVAILABLE FOR BREACH THEREOF SHALL BE LIMITED TO THE REMEDIES AVAILABLE UNDER THIS EXPRESS LIMITED WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. IN NO EVENT SHALL FIMCO, IND.'S LIABILITY UNDER THIS LIMITED WARRANTY EXCEED THE ACTUAL AMOUNT PAID BY YOU FOR THE DEFECTIVE EQUIPMENT, NOR SHALL FIMCO, IND. BE LIABLE, UNDER ANY CIRCUMSTANCES, FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL OR PUNITIVE DAMAGES OR LOSSES, WHETHER DIRECT OR INDIRECT. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.