

Assembly / Operation Instructions / Parts



40 & 60 GALLON DTS - UTL - 3 PT Series DELUXE SPRAYERS

Polyethylene Tank 12 Volt Diaphram Pump 2.2 or 4.0 G.P.M.

Deluxe Pistol Grip Handgun with Adjustable Brass Tip 25 Ft. of 3/8" Hose (handgun)

Pressure Gauge

Adjustable Pressure range (0-60 PSI Max.)



GENERAL INFORMATION

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

- ASSEMBLY

Tools required:

- 1 7/16" End Wrench
- 2 1/2" End Wrenches
- 1 Phillips Screwdriver
- 1 Pliers
- 1 Thread Sealant

— WARRANTY / PARTS / SERVICE

Workhorse products are warranted for one year from the date of purchase against manufacture or workmanship defects for personal or homeowner usage with proof of purchase. Workhorse products are warranted for 90 days for commercial users. Any unauthorized modification of a Workhorse brand sprayer will void warranty.

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

- 1. Correct part description and part number.
- 2. Model number of your sprayer.

Part description and part numbers can be obtained from the illustrated parts list section 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.

OPERATION

This sprayer is designed to be attached to an ATV rack or other stable surface. The pumping system draws solution from the tank, through the strainer and to the pump. The pump forces the solution under pressure to the spray wand and spray boom. The pump has a pressure switch which will shut the pump off when it reaches 60 PSI. Pressure may be regulated by opening or closing the bypass valve located on the top of the tank. Also, the boom can be cycled on and off with this valve. See the illustration in this manual for more details on using the bypass valve.

Regularly inspect the suction supply screen on the inside of the tank. Flush with water to clear any accumulated debris.

— 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 three 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). 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 **carefully.** Determining the proper speed of the tractor 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 tank and 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 once the pump is turned on. The pressure will decrease slightly when the boom is spraying.

WARNING: Some chemicals will damage the pump valves if allowed to soak untreated for a long period of time. Always flush the pump with water after use. Do not allow chemicals to sit in pump for extended times of idleness. Follow chemical manufacturers instructions on disposal of all waste water from the sprayer.

WARNING:

This product can expose you to chemicals including DEHP, known to the State of California to cause birth defects or other reproductive harm.

AFTER SPRAYING

After use, fill the sprayer part way with water. Start the sprayer and allow clear water to be pumped through the plumbing system and out through the spray wand and boom. Refill the tank about half full with plain water and use a chemical neutralizer such as Nutra-Sol® or equivalent and repeat cleaning instructions. Flush the entire sprayer with the neutralizing agent. Follow the chemical manufacturer's disposal instructions of all wash or rinsing water.

WINTER STORAGE

Drain all water and chemical out of sprayer, paying special attention to pump and valves. 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. Proper care and maintenance will prolong the life of the sprayer.

RATE CHART FOR 80/110-02 SPRAY TIP

Pressure	Capacity	GAI	LONS PE	R ACRE B	ASED ON	WATER -	20" SPAC	ING		
(PSI)	(GPM)	1 MPH 88 FPM	2 MPH 176 FPM	3 MPH 264 FPM	4 MPH 352 FPM	5 MPH 440 FPM	7.5 MPH 660 FPM	10 MPH 880 FPM		
20.0 30.0 40.0 50.0	0.14 0.17 0.20 0.23	41.8 51.2 59.2 66.4	20.9 25.6 29.6 33.2	14.0 17.2 19.8 22.2	10.5 12.9 14.9 16.6	8.4 10.3 11.9 13.3	5.6 6.9 7.9 8.8	4.2 5.1 5.9 6.6		
Pressure (PSI)	Capacity (GPM)	GALLO	GALLONS PER 1000 SQ. FT.BASED ON WATER - 20" SPACING							
20.0 30.0 40.0 50.0	0.14 0.17 0.20 0.23	.96 1.18 1.36 1.52	.48 .59 .68 .76	.32 .39 .45 .51	.24 .30 .34 .38	.19 .24 .27 .31	.13 .16 .18 .20	.10 .12 .14 .15		
Pressure (PSI)	Capacity (GPM)	GALLO	NS PER 1	00 SQ. F	Γ. BASED	ON WATE	R - 20" SI	PACING		
20.0 30.0 40.0 50.0	0.14 0.17 0.20 0.23	.096 .117 .135 .152	.048 .059 .066 .076	.032 .039 .045 .050	.024 .029 .034 .038	.019 .024 .027 .030	.012 .015 .018 .020	.009 .011 .013 .015		

MPH- Miles Per Hour • FPM- Feet Per Minute • PSI- Pounds Per Square Inch • GPM- Gallons Per Minute

— BOOMLESS NOZZLE RATE CHART —

SPEED IN MPH	Time Required in Seconds to Travel a distance of:						
(Miles Per Hour)	100 ft	200 ft	300 ft				
1.0	68.0	136	205				
2.0	34.0	68	102				
3.0	23.0	45	68				
4.0	17.0	34	51				
5.0	14.0	27	41				
6.0	11.0	23	34				
7.0	9.7	19	29				

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

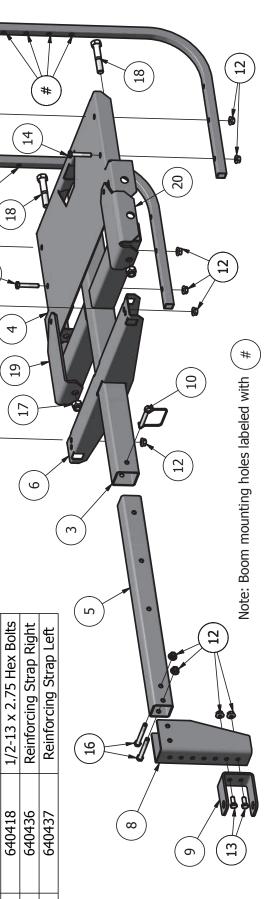
Models: LG 405 DTS, LG 407 DTS, LG 607 DTS

4 19 9 5/16-18 x .875 Hex Bolts 5/16-18 x 3.75 Hex Bolts 5/16-18 x 2.75 Hex Bolts 5/16-18 x 1.75 Hex Bolt 1/2-13 x 2.75 Hex Bolts Reinforcing Strap Right 5/16-18 Hex Lock Nut 1/2-13 Hex Lock Nut Reinforcing Strap Left Trailer Hitch Arm Trailer Hitch Pin 40 Gallon Tank 60 Gallon Tank DESCRIPTION Front Support **Boom Bracket Cross Member** Hitch Bracket 5/16 Washer **Trailer Pan** Hitch PARTS LIST PART NUMBER 640406 640411 640410 640409 640422 600269 640000 600100 640418 600240 640404 640400 640424 640423 640419 640436 640401 600247 600172 640437 \T 10 4 2 ~ 2 4 ITEM 10 12 13 14 15 16 18 19 20 디 4 2 9 ∞ 6

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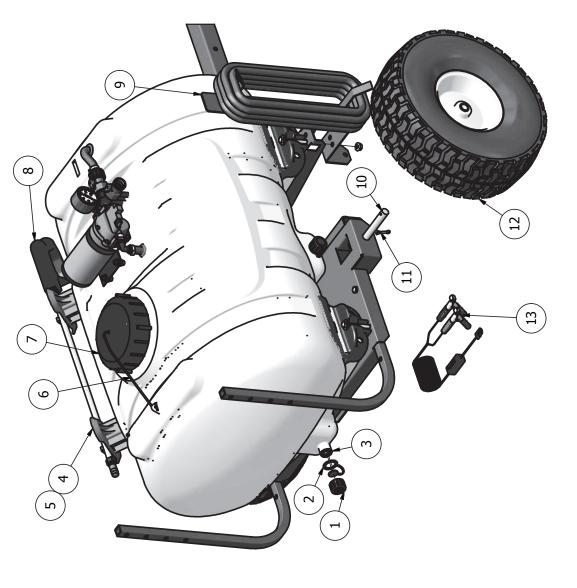
Assembly Instructions

1.0 --Assemble tank and trailer frame as illustrated on this page using hardware shown. Note the orientation of the Frame Member items as their orientation is essential for proper assembly. DO NOT OVER TIGHTEN BOLTS.



- **Assembly Instructions** 2.0 --Install Hose Wrap Bracket (Item 9) onto frame using 5/16 nut. 5/16 nut already installed on reinstalled with the Hose Wrap Bracket. frame, it will need to be removed and
- Wheel Assemblies over Axle and secure with 1/8" 2.1 --Install Axle (Item 10) through Rear Trailer Pan and Cross Member as shown, install the 15" Cotter Pins.
- 2.2 --Insert Lead Wire Assembly (Item 13) into plug at rear of the Pump.
- 2.3 --Join the red wire of the two wire cable to a +12V battery post. The black wire should be grounded Source such as a switch, ammeter, or positive
 - 12V receptacle on the vehicle. This can be used Assembly that will allow the use of a standard 2.4 -- An additional lead is supplied with Lead Wire or connected to the negative battery post. as a alternate to the battery clips.

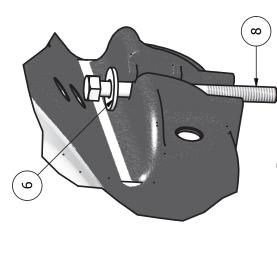
LIST	DESCRIPTION	B 3400 P	Tank Drain Cap Tether	W 406	Plastic Hose Wrap	Wand Clip Screws	Tank Lid Tether	Tank Lid	18" Deluxe Spray Wand	Hose Wrap Bracket	5/8 Axle	1/8 Cotter Pin	15" Wheel	Lead Wire Assembly with	Switch (96")
PARTS LIST	PART NUMBER	600139	600268	600124	600279	600152	600134	600133	600147	640407	640405	600108	640104	600270	
	ΛŢ	2	2	2	2	2	П	1	1	1	1	2	2	П	
	ITEM	П	2	33	4	5	9	7	8	6	10	11	12	13	



Models: UTL 401, UTL 402, UTL 405, UTL 407, UTL 408, UTL 40 BL, UTL 601, UTL 602, UTL 607, UTL 608, UTL 60 BL

Assembly Instructions

1.0 --Assemble tank and frame as illustrated on this page using hardware shown. Note the orientation of the Frame Member items as their orientation is essential for proper assembly. DO NOT OVER TIGHTEN BOLTS.

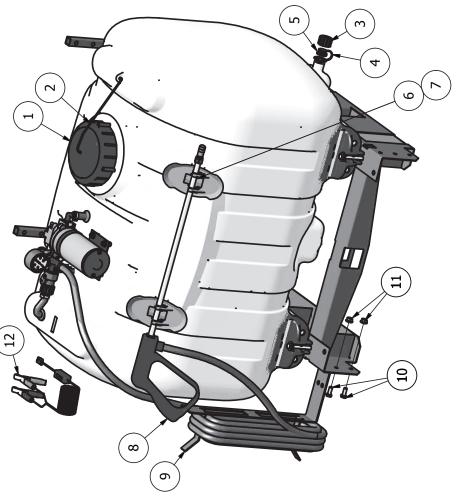


Note: Boom mounting holes labeled with $\left(egin{array}{c} \# \end{array}
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Note: Secondary Boom Bracket mounting locations labeled with $(\ imes\)$

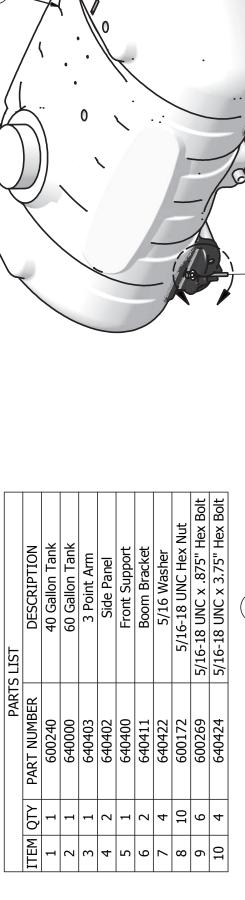
Assembly Instructions

- onto frame using 5/16 screws (item 10) 2.0 -- Install Hose Wrap Bracket (item 9) and nuts (item 11)
- 2.1 -- Insert Lead Wire Assembly (Item 12) into plug
- at rear of the pump 2.2 --Join the red wire of the two wire cable to a +12V battery post. The black wire should be grounded Source such as a switch, ammeter, or positive or connected to the negative battery post.
 - 12V receptacle on the vehicle. This can be used Assembly that will allow the use of a standard 2.3 -- An additional lead is supplied with Lead Wire as a alternate to the battery clips



PARTS LIST	DESCRIPTION	Tank Lid	Tank Lid Tether	B 3400 P	Tank Drain Cap Tether	W 406	Plastic Hose Wrap	Wand Clip Screw	18" Deluxe Spray Wand	Hose Wrap Bracket	5/16-18 x .875" UNC Hex Bolt	5/16-18 UNC Lock Nut	Lead Wire Assembly with Swtich (96")
	PART NUMBER	600133	600134	600139	600268	600124	600579	600152	600147	640407	690096	600172	600270
	QTY	1	н	4	2	4	7	7	1	1	7	2	2
	ITEM QTY	1	2	3	4	2	9	7	8	6	10	11	12

Models: 1G 404 3PT, 1G 405 3PT, 1G 407 3PT, 1G 40BL 3PT , 1G 607 3PT, 1G 608 3PT, 1G 60BL 3PT



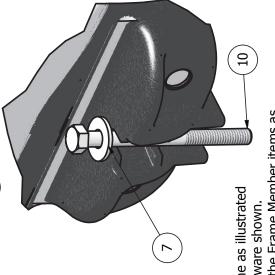
Note: Boom mounting holes labeled with $\left(egin{array}{c} \# \end{array}
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Assembly Instructions

1.0 --Assemble tank and frame as illustrated on this page using hardware shown.

Note the orientation of the Frame Member items as their orientation is essential for proper assembly.

DO NOT OVER TIGHTEN BOLTS.

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- **Assembly Instructions** 2.0 --Install Wand Hose Wrap Bracket (Item 9) onto frame using (2) 5/16 screws (Item 12) and 5/16 nuts.
 - 2.1 --Install (2) Lower Link Pins (Item 10) in 3 Point Arm. 2.2 --Insert Lead Wire Assembly (Item 13) into plug at

Tank Drain Cap Tether

600268

600139 600133 600134 600279

> 4 2 9

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600124

4 2 4

B 3400 P Tank Lid

DESCRIPTION

PARTS LIST

PART NUMBER

P

ITEM

W 406

- rear of the pump.
- 2.3 --Join the red wire of the two wire cable to a +12V battery post. The black wire should be grounded Source such as a switch, ammeter, or positive or connected to the negative battery post
 - 12V receptacle on the vehicle. This can be used Assembly that will allow the use of a standard 2.4 -- An additional lead is supplied with Lead Wire as a alternate to the battery clips.

18" Deluxe Spray Wand

Plastic Hose Wrap Wand Clip Screw

> 600152 600147

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Tank Lid Tether

Hose Wrap Bracket

640425 640407

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600172

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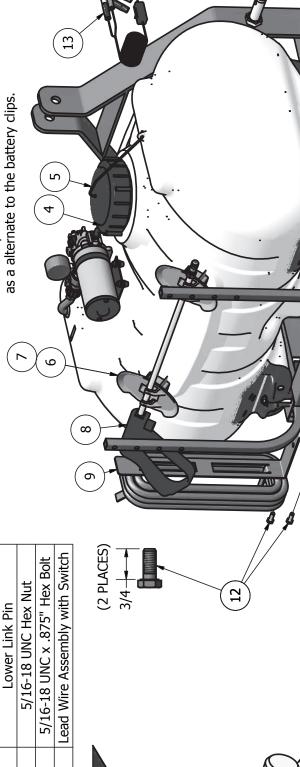
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600269 600270

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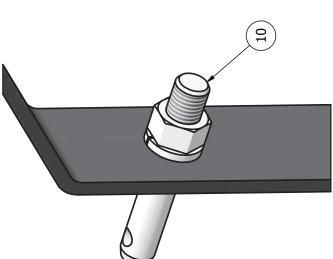


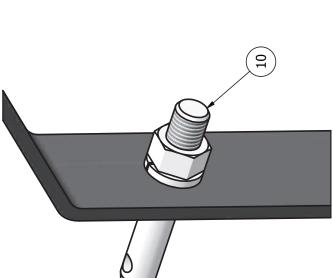
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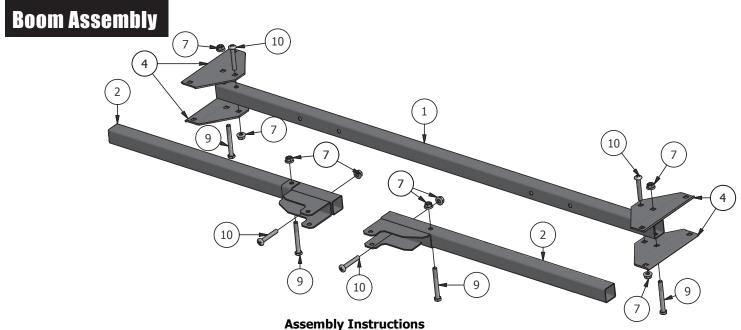
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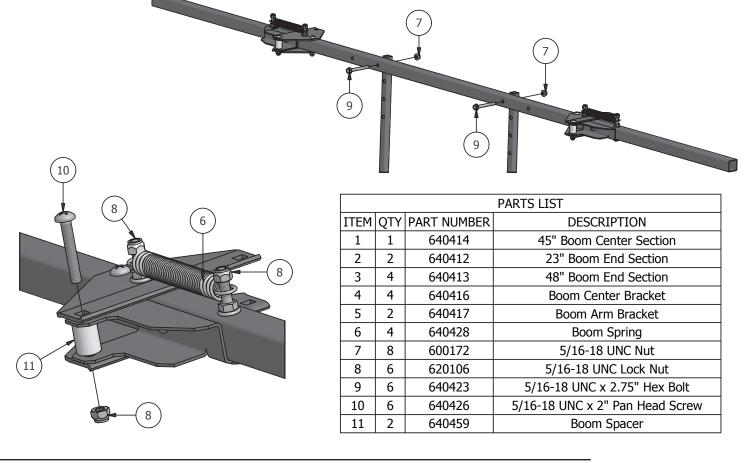
(2 PLACES)







- 1.0--Install Boom Arm Brackets to Boom End Sections (23" End Sections for 5 Nozzle and 38" End Sections for 7 Nozzle) using 5/16 x 2.75" Hex Bolts, 5/16 x 2" Pan Head Screws, and 5/16 Hex Nuts. Note the orientation and position of these parts as it is essential for proper assembly.
- 1.1--Install (2) Boom Center Brackets to each end of the 45" Center Boom Section using 5/16 x 2" Pan Head Screws as shown.
- 1.2--Install the Boom Hinge Bolts (5/16 x 2" Pan Head Screws) Throught the Boom Center Brackets and the Boom End Brackets as shown in the close up detailed view. Secure in place with the 5/16 Lock Nuts. Making sure not to overtighten bolts so boom can rotate freely.
- 1.3--Install the Boom Springs to Boom Center Brackets and 5/16 x 2.75 Hex bolts as shown in the close up detailed view.
- 1.4--Install the 5/16 Lock Nuts onto 2.75" Hex Bolts to secure the Boom Springs in place. As shown in close up detailed view.
- 1.5--Install the now completed Boom Assembly to the Square Boom Brackets of the Frame Assembly at the desired height, using 5/16 x 2.75" Hex Bolts and 5/16 nuts.

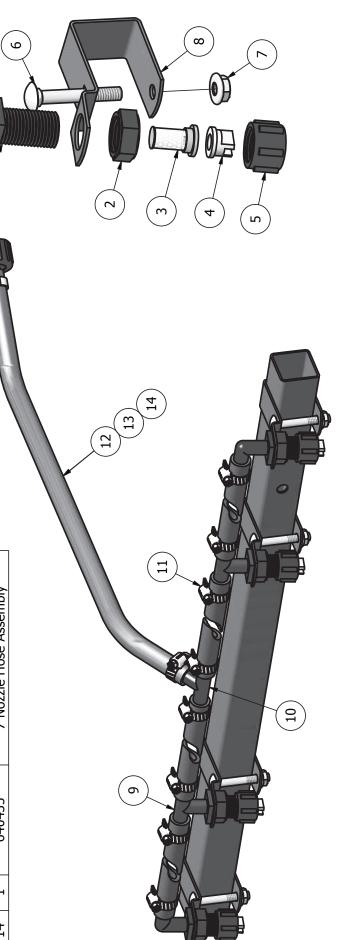


101 - 310	PARTS LIST R DESCRIPTION	NTL38 P Fitting	N1116 P Nut	Check Valve / Strainer	Spray Tip 110-02	8027 P Nut	1/4-20 UNC x 1.75 Carriage Bolt	1/4-20 Lock Nut	Boom Clamp	NTT 38 P Fitting	T38 P Fitting	5/8" Hose Clamp	4 Nozzle Hose Assembly	5 Nozzle Hose Assembly	7 Nozzle Hose Assembly
	PART NUMBER	600112	600116	600117	640432	600119	640427	600107	640415	620112	600142	600120	640433	640434	640435
	ΥLO	7	4	4	4	4	4	4	4	2	П	6	П	н	П
	TTEM OTY	1	2	3	4	2	9	7	8	6	10	11	12	13	14

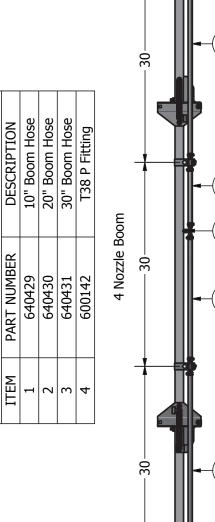
Assembly Instructions

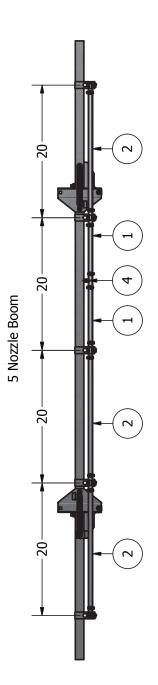
- 2.0 --Install Boom Clamps onto Boom Assembly using 1/4" x 1.75" carriage bolts (Item 6) and 1/4" lock nuts (item 7).

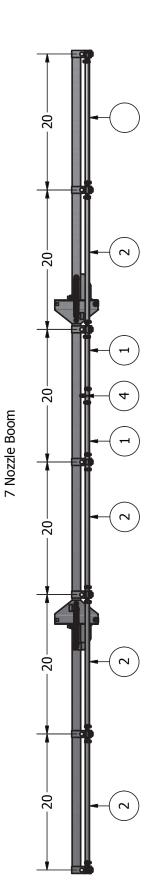
 Note: Reference the Boom Layout page to determine the boom clamp mounting locations for your boom.
 - 2.1 --Install fittings (Item 1 and 9) thru Boom Clamps (Item 8) and install Nuts (Item 2) (Do not over tighten nuts)
 - 2.2 --Insert Check Valves / Strainers (Item 3) into fittings (Items 1 and 9).
- 2.3 --Insert Spray Tips (Item 4) in Nuts (Item 5) and screw nuts onto fittings (Items 1 and 9) (assure that tips are oriented correctly to assure proper spray pattern)
- 2.4 --Install Hose Assembly (Item 12,13 or 14 depending on boom) to the Inline Garden Hose Valve that is attached to the pump.



Ŀ	DESCRIPTION	10" Boom Hose	20" Boom Hose	30" Boom Hose	T38 P Fitting
PARTS LIST	PART NUMBER	640429	640430	640431	600142
	ITEM	1	2	3	4







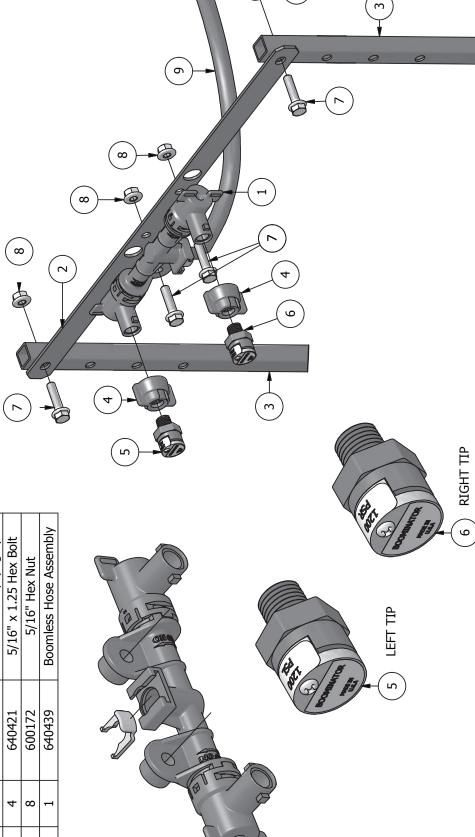
Green Leaf, Inc. 9490 N BALDWIN ST FONTANET, IN 47851 www.green-leaf.us 800-654-9808

Boomless Assembly

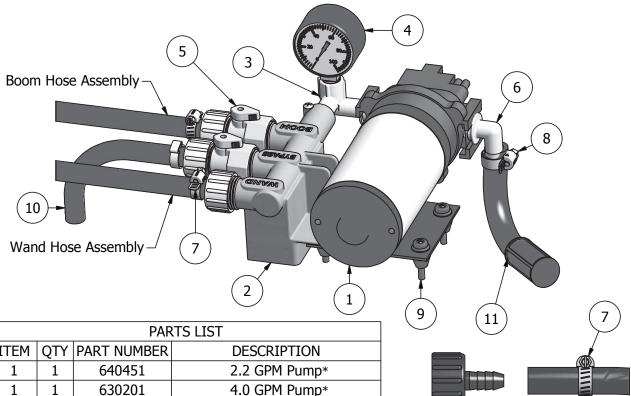
IST	DESCRIPTION	Boomless Manifold Assembly	Boomless Bracket	Boom Bracket	Bonnet Cap	1200 PSL Tip (Left)	1200 PSL Tip (Right)	5/16" x 1.25 Hex Bolt	5/16" Hex Nut	Boomless Hose Assembly
PARTS LIST	PART NUMBER	600283	640408	640411	600282	600248	600249	640421	600172	640439
	QTY	1	1	2	2	1	1	4	8	1
	ITEM	1	2	3	4	2	9	7	8	6

Boomless Assembly Instructions

- 1.1--Slide Quick Clip into the back of the Boomless Manifold Assembly. (Quick Clip can only 1.0-Install Boomless Bracket onto Square Boom Brackets using 5/16" bolts and 5/16" nut be installed while the Boomless Manifold is not installed on the Boomless Bracket and is used to secure the hose to the Manifold)
 - 1.2--Install Boomless Manifold Assembly onto the Boomless Bracket using 5/16" bolts and 5/16" nuts
- 1.3-Install Bonnet Caps onto both ends of the Boomless Manifold Assembly. I.4--Using a quaility thread tape install the Left Boomless Tip onto the Left Bonnet Cap and the Right Boomless Tip onto the Right Bonnet Cap. Making sure both are oriented correctly to achieve the correct spray pattern. DO NOT OVERTIGHTEN.
 - 1.5-Install Boomless Hose Assembly to Boomless Manifold and secure with Quick Clip. Then Install the other end to Pump Manifold.



Pump & Valve Assembly

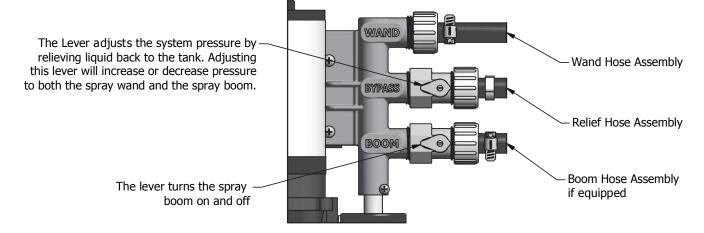


ITEM 5.0 GPM Pump* Manifold Body Elbow (2.2 pumps) Elbow (4.0 & 5.0 pumps) Gauge 0-100 PSI Inline Valve QD EL 12 5/8" Hose Clamp 1/2" Hose Clamp 10-24 x 1.25 Screw Relief Hose Assembly **Suction Hose Assembly** Cap Assembly (not shown)

Install Wand Hose Assembly onto Swivel Barb Assembly, by placing a Hose Clamp over the open end of the hose on the Wand Hose Assembly. Then pressing the open end of the hose onto the Swivel Barb Assembly like shown. Secure in place by tightening the Hose Clamp as shown.



^{*}Pump included depends upon model purchased.



PowerFLO™ Series Pumps

12 Volt DC Motor-Driven Diaphragm Pumps



Model: 7802: 2.2 GPM



Specifications —

Motor:

Type: 12 VDC, permanent magnet, totally enclosed, non-ventilated

Leads: 18 AWG, 12" long Duty Cycle: See Heat Rise graph

Temperature Limits: Motor is not equipped with thermal protection. For user safety, optimal performance, and maximum motor life, the motor surface temperature should not exceed 150°F (66°C) (see Heat Rise graph above right).

Type: 3 chamber positive displacement diaphragm pump, self priming, capable of being run dry, demand or bypass model.

Certifications: NSF Standard 58 Liquid Temperature: 140°F (60°C) Max. Priming Capabilities: 14 feet (4 m)

Max Pressure: 60 PSI

Inlet/Outlet Ports: 7802: Quick Attach

Materials of Construction:

Housing: Polypropylene Diaphragm: Santoprene Valves: Viton Fasteners: Stainless steel

Weight: 6 lbs (2.7 kg)

Installation and Operation Precautions —

- 1. The pump is equipped with a pressure sensing demand switch that
- controls the maximum operating pressure.

 In addition, never subject the pump to pressures above 125 PSI (8.5 bars).
- As long as there is inlet water pressure, the pump will not stop forward flow of water even if the motor is turned off. Be sure the system has positive means of shutting off water supply.
- Do not operate pump in an explosive environment. Arcing from the motor brushes, switch or excessive heat from an improperly cycled motor may cause an explosion.
- Do not locate the pump motor near low temperature plastics or combustible material. The surface temperature of the motor may exceed 250°F (120°C).
- 6. Do not pump gasoline or other flammable liquids. Pump head materials are designed for use with water only. Do not use with petroleum products.
- 7. Do not assume fluid compatibility. If the fluid is improperly matched to the pumps' elastomers, a leak may occur.
 8. To prevent electrical shoup, disconnect power before initiating any work. In the case of pump failure, the motor housing and/or pump fluid now companies to pulper the property and pump fluid now companies. fluid may carry high voltage to components normally considered safe. Therefore, always consider electrical shock hazard when working with and handling electrical equipment. If uncertain, consult an electrician. Electrical wiring should only be done by a qualified electrician per local and state electrical codes.

Specifications —

Type: 12 VDC, permanent magnet, totally enclosed, non-ventilated

Leads: 14 AWG, 12" long Duty Cycle: See Heat Rise graph

Temperature Limits: Motor is not equipped with thermal protection. For user safety, optimal performance, and maximum motor life, the motor surface temperature should not exceed 180°F (82°C) (see Heat Rise graph above right).

Type: 5 chamber positive displacement diaphragm pump, self priming, capable of being run dry, demand or bypass mode.

Certifications: NSF Standard 58 Liquid Temperature: 140°F (60°C) Max. Priming Capabilities: 14 feet (4 m)

Max Pressure: 60 PSI

Inlet/Outlet Ports: 5900: Quick Attach

Materials of Construction:

Housing: Polypropylene Diaphragm: Santoprene

Valves: Viton Fasteners: Stainless steel & Zinc plated

Weight: 6 lbs (2.7 kg)

Recommendations —

Electrical:

- The PowerFlo™ series pumps are designed for intermittent duty. Make sure that "OFF" periods are sufficient. Refer to Rapid ON/OFF Operation. Consult the factory for particular data and design criteria.
- 2. Be sure power supply used is adequate for the application.
- Pump and motor specifictions are based on an alternator charged battery (13.7 VDC)
- 4. Use sufficient battery supply power. UTV and lawn tractor batteries may affect pump performance due to low voltage and amp ratings.

Servicina —

Every Year: Check system against operating standards. Every 2-3 Years: We recommend replacing the diaphragm and checking against operating standards.

* Important return safety instructions:

When you return your pump for warranty or repair, you must always do the following:
1. Flush chemical residue from the pump (best done in the field).
2. Tag pump with type of chemicals having been sprayed.

 Tag pump with type of chemicals naving been sprayed.
 Include complete description of operation problem, such as how pump was used, symptoms of malfunction, etc. Since pumps can contain residues of toxic chemicals these steps are necessary to protect all the people who handle return shipments, and to help pinpoint the reason for the breakdown.

Troubleshooting Guide —

Problem/Causes and Remedies:

Pump will not Start

Check:

- Correct voltage (±10%) and electrical connections
- Fuse or breaker
- Pressure switch operation and correct voltage at switch
- Rectifier or motor for open or grounded circuit
- Locked drive assembly

Pump will not Prime (No discharge with motor running) Check:

- Debris in strainer
- Restriction (kinks) in inlet/outlet tubes
- Debris or swelling in inlet/outlet valves

Pump will not Shut Off (Output line closed and no leaks) Check:

- Air trapped in outlet line or pump head
- Correct voltage to pump
- Debris in pump inlet/outlet valves
- Loose drive assembly or pump head screws
- Pressure switch operations/adjustments

Leaks from Pump Head or Switch Check:

- Loose screws at switch or pump head
- Switch diaphragm ruptured or pinched
- Punctured diaphragm if fluid is present

Spray & Pump FAQs —

--Why does the pump not run all the time?

This is a demand pump and only runs with flow; spray wand, by-pass, spray tips or leak in system

--Why does the pump surge while using the spray wand?

Low flow may cause the pump to surge (or cycle). This could happen when the spray wand is adjusted for a small or fine spray pattern. To overcome, slightly open the by-pass valve.

--How do I adust the pressure?

Pressure should be adjusted by regulating the by-pass valve (slightly opening or closing).

--What is the optimal operating pressure?

40 PSI - This can be accomplished by turning on the pump and adjusting the bypass valve until the gauge reads 40 PSI (or slightly higher). The pump will run continuously. Ensure that the boom and/or handgun is not spraying while you set the pressure. The pressure will drop slightly when the boom and/or handgun is operated.

--What pressure should the pressure gauge read?

Please refer to the operation instructions for boom operating pressures, varying boom pressures can be achieved by regulating or adjusting the by-pass valve. Typically the spray wand will be operated between 20 and 40 PSI.

--What is the recommended PSI to inflate the tires?

30 PSI Max

--My pump quit and will not restart - what should I check?

Check all electrical connections. Ensure switch is in the on position. Check in-line fuse and/or fuse in car adapter end. Ensure correct voltage +/- 10%. 12-13 volt

--Low flow or no flow at all - what should I check?

Check for a clogged suction hose and/or suction strainer. Often you will need to clean the suction strainer. Check for proper voltage.

--Is there a fuse for the sprayer?

Yes, either an in-line fuse, a fuse located in the car adapter housing or both.

--What size fuse should I use as a replacement?

7.5 amp

--What is the range of the spray wand?

35 feet max

--How should I clean the tank after use?

Tank should be cleaned with Nutrasol® or similar tank cleaning agent, and then rinsed with water.

-- Is there an adjustment screw on the pump to adjust pressure?

Yes, please refer to the operation instructions, "Adjusting the Pressure Switch".

--How do I remove / replace fuse?

Unscrew in-line fuse connector, or unscrew the car adapter housing.

-- Can the spray tip on the wand be replaced with a different type of tip?

Yes, however your wand comes with a #18 tip which is standard. Brass tips generally produce better spray patterns than plastic.

-- Each time I turn on the pump my fuse blows.

1) Excessive voltage 2) Improper adjustment of the pressure switch 3) Damaged wiring harness.

--What is the warranty (time duration) on pump, tank, trailer pieces, and accessories?

1 year as stated in operation instructions.

--Pressure gauge reads 85 -90 psi before shutting off - should pump shut off at 60 psi?

Pump 7802 2.0 GPM comes preset from the factory to shut off at 60 PSI. Should this vary please see, "Adjusting the Pressure Switch" in the operation manual. Turn on pump and hold spray wand open, slowing adjust until the pump shuts off at 60 PSI.

--Pump continues to run and surge when not spraying.

Ensure the by-pass is completely closed and your system has no leaks. Check by-pass hose to ensure no fluid is passing through the valve while in the closed postion. If so replace valve.

WARNING - Ensure the wiring harness does not become pinched or damaged in any way. This may damage the pump or cause the wiring harness to overheat, resulting in a melt down or fire.