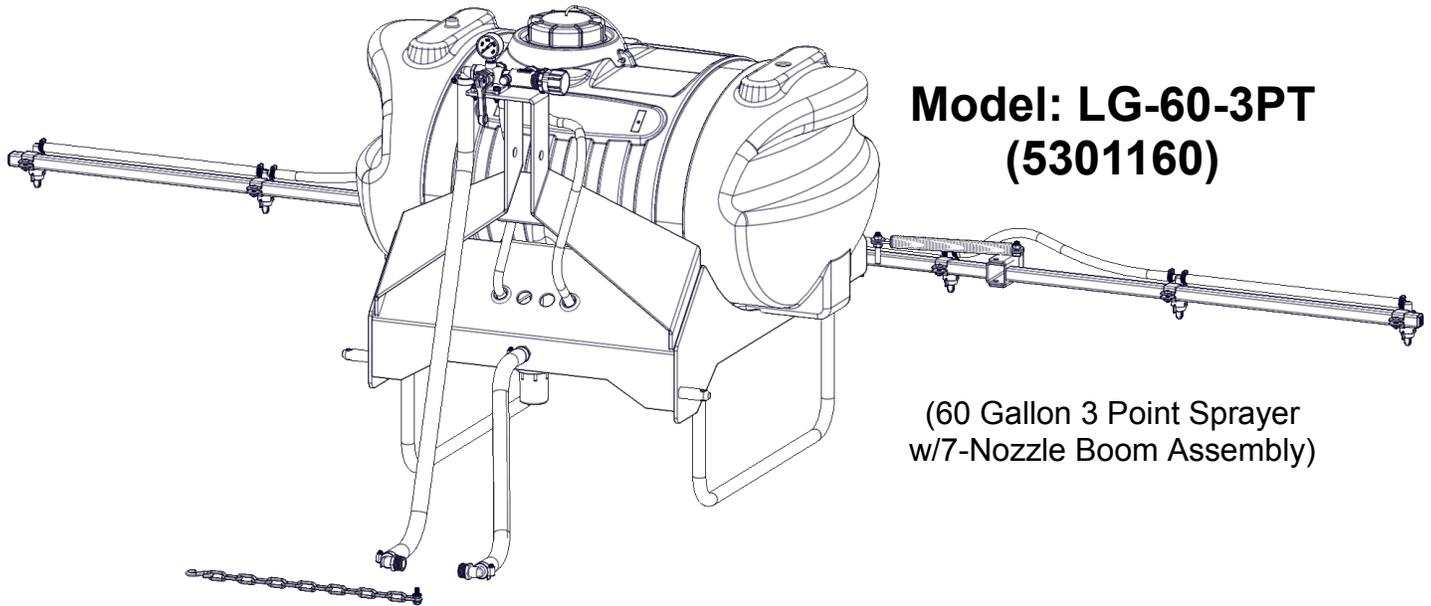


OWNER'S MANUAL



**Model: LG-60-3PT
(5301160)**

**(60 Gallon 3 Point Sprayer
w/7-Nozzle Boom Assembly)**

**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 3-Point sprayer. Please read it carefully, as it furnishes information which will help you achieve years of trouble-free operation.

Warranty

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

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

Our Technical Support Representatives will be happy to help you.

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

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

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

Information About the Sprayer

Roller pumps are positive displacement pumps, which means that the entire solution being pumped must go somewhere or the pump will break. In this roller pumping system, solution is drawn from the tank and forced to a planned source, such as boom nozzles, or handgun. The pressure is controlled by a pressure relief valve, which is a spring-loaded device that controls the amount of fluid bypassed (recirculated) to the tank. The gray adjusting cap is to be tightened to increase pressure and loosened to decrease pressure.

The 'directo-valve' is the on/off control which allows the operator to manually control the solution going to the boom.

Assembly Instructions

Most of the sprayer has been assembled at the factory.

Join the center boom member to the carrier frame with the (2) u-bolts and (4) whiz nuts provided. See exploded view later in this manual for reference.

Attach the boom feeder hose to the boom after routing it through the underside of the carrier frame as needed. Secure in place with a hose clamp provided.

Poly hose fittings (5010209) are included to be joined to the pump. A torque chain, 'S'-Hook and hardware are also included for the pump. The pump IS NOT included with this unit. It is intended for a pump to be mounted directly to the tractor PTO.



www.fimcoindustries.com

1000 FIMCO Lane, P.O. Box 1700, North Sioux City, SD 57049
Toll Free Phone: 800-831-0027 : Toll Free Fax: 800-494-0440

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Testing the Sprayer

Attach the sprayer to the tractor 3 point hitch. Mount the pump to the PTO and affix the torque chain. Open the tank lid and be sure the tank is clean and free of foreign material.

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

Fill the tank about 1/2 full with plain water.

Before starting, open the suction line valve (located underneath the carrier frame), turn the relief valve handle out to lower the line pressure. This will help prime the pump.

CAUTION: Always be sure that the water (or solution) has reached the pump before starting your sprayer. If the pump is allowed to run dry, serious damage to the pump will result.

Always have the pressure line open to the tips so that the air which may be trapped in the line will be forced (or purged) out.

Start the tractor PTO. Check the entire system for leaks. Once the pump is primed, the pressure may be increased by turning the handle of the pressure relief valve in. Keep the pressure line open to the tips when setting the pressure. Set the pressure and then lock the relief valve handle in place. Shut off the directo-valve and check for leaks again. Pressure will increase when the pressure line valve is closed and then return to the preset pressure when the valve is opened again.

During the testing period, be sure to observe the spray pattern given by the spray nozzles. If there is any pattern distortion, it will be necessary to remove and clean the affected tips.

Caution: Never use a metal object or other sharp item for cleaning a nozzle tip. It is better to use a nozzle brush (NOT wire brush) or compressed air for tip cleaning.

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 & Calibration

The performance of any agricultural chemical depends upon the proper application.

The tips supplied as standard with the sprayer can be used for a wide variety of spraying applications. Other tip sizes are available for different coverages. The speed and pressure charts shown indicate the rates can be changed considerably by changing speed and pressure. The nozzles on the boom will spray a 140" wide swath. The proper nozzle height is a minimum of 17"-20" above the object being sprayed. 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.

- Activate 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)

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

When you are ready to spray, mix chemicals as follows. Add the proper amount of water to the tank. Run the sprayer while adding chemical to the water. Do NOT spray through the boom at this time. This will allow the solution to return ('bypass') to the tank. The movement of solution through the bypass will aid in mixing the water and chemicals. If this water movement is not enough to keep the chemical in suspension, it may be necessary to add an optional agitator kit. You should now be ready to spray.

Four things must be considered before spraying with the boom.

1. How much chemical must be mixed in the tank.
2. Rate of spray (gallons per acre to be sprayed).

3. What pressure (p.s.i.) will be used.
 4. Speed traveled (mph) while spraying.
- * Refer to the chemical label to determine your chemical mixture
 - * See the tip chart to determine the pressure to be used. The chart will also show the speed used when spraying.

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 2 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). The pressure can be set by running the sprayer with the boom nozzles 'on' and then adjusting the relief valve until the gauge reads the desired pressure. Notice that the pressure will go up when the boom line is shut off. This is normal and the pressure will return as before when you open the boom line. When selecting pressure from the tip chart, it is a good idea to try for the 20 or 30 p.s.i. range as this allows an excellent nozzle pattern. Spraying at 10 p.s.i. begins to break up the pattern and at 40 p.s.i. you may notice some drift.

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

Spray Tip Rate Chart (20" Spacing)									
Tip No.	Pressure (psi)	Capacity (GPM)	Gallons Per Acre - Based on Water						
			1 MPH	2 MPH	3 MPH	4 MPH	5 MPH	6 MPH	8 MPH
AIXR11002VP	15	.12	35.6	17.8	11.8	8.9	7.1	5.9	4.5
	20	.14	41.6	20.8	13.8	10.4	8.3	6.9	5.2
	30	.17	50.4	25.2	16.8	12.6	10.1	8.4	6.3
	40	.20	59.6	29.8	19.8	14.9	11.9	9.9	7.4
Tip No.	Pressure (psi)	Capacity (GPM)	Gallons Per 1000 Sq. Ft. - Based on Water						
			1 MPH	2 MPH	3 MPH	4 MPH	5 MPH	6 MPH	8 MPH
AIXR11002VP	15	.12		.41	.27	.20	.16		
	20	.14		.48	.32	.24	.19		
	30	.17		.58	.39	.29	.23		
	40	.20		.68	.45	.34	.27		

Maintenance During/After Spraying

Periodically check the strainer and clean the screen on your intake line.
Proper care and maintenance will prolong the life of your sprayer.

After use, fill the sprayer half way with clean water. Start the pump and allow the water to pump through the entire plumbing system and nozzles. Drain and then refill half full, add the recommended amount of a good quality tank cleaner, such as FIMCO Tank Neutralizer and Cleaner. (If no tank cleaner is available, you may substitute dish soap for this step). Turn pump on and circulate through system for 15 minutes and then spray out through boom and handgun nozzles. Refill sprayer sprayer half way with clean water and repeat. Follow the chemical manufacturer's disposal instructions of all wash or rinsing water.

If boom or handgun nozzles need cleaning, remove them from the sprayer and soak in warm soapy water. Clean with a soft bristled brush or toothpick if necessary. Never use a metal object. Even the slightest damage can change the flow rate and spray distribution. Water rinse and dry the tips before storing.

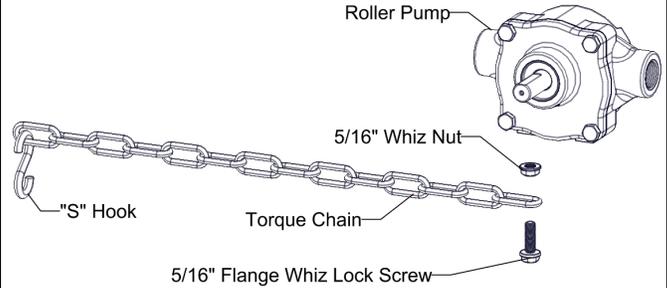
WARNING: Some chemicals will damage the pump valves if allowed to soak untreated for a length of time! ALWAYS flush the pump as instructed after each use. DO NOT allow chemicals to sit in the pump for extended times of idleness. Follow the chemical manufacturer's instructions on disposal of all waste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

Winter Storage

Before storing your sprayer for winter or long term storage, thoroughly clean and drain it as much as possible. Then pour enough pink RV antifreeze into the tank so that when the pump is turned on you can pump the antifreeze throughout the entire plumbing system, including the bypass. Make sure to operate the boom and handgun until you see pink fluid spraying from the nozzles. Leave any remaining antifreeze in the tank. Before your next usage, rinse the antifreeze from the sprayer with clean water.

It is nearly impossible to drain all of the water from the sprayer and any trapped water can freeze in cold weather and damage parts of the sprayer. Pumping the antifreeze through the system will displace the water and help prevent this damage.

Torque Chain Attachment to a Roller Pump



A torque chain, 'S' hook, nut and bolt are included in this assembly to secure your pump during operation.

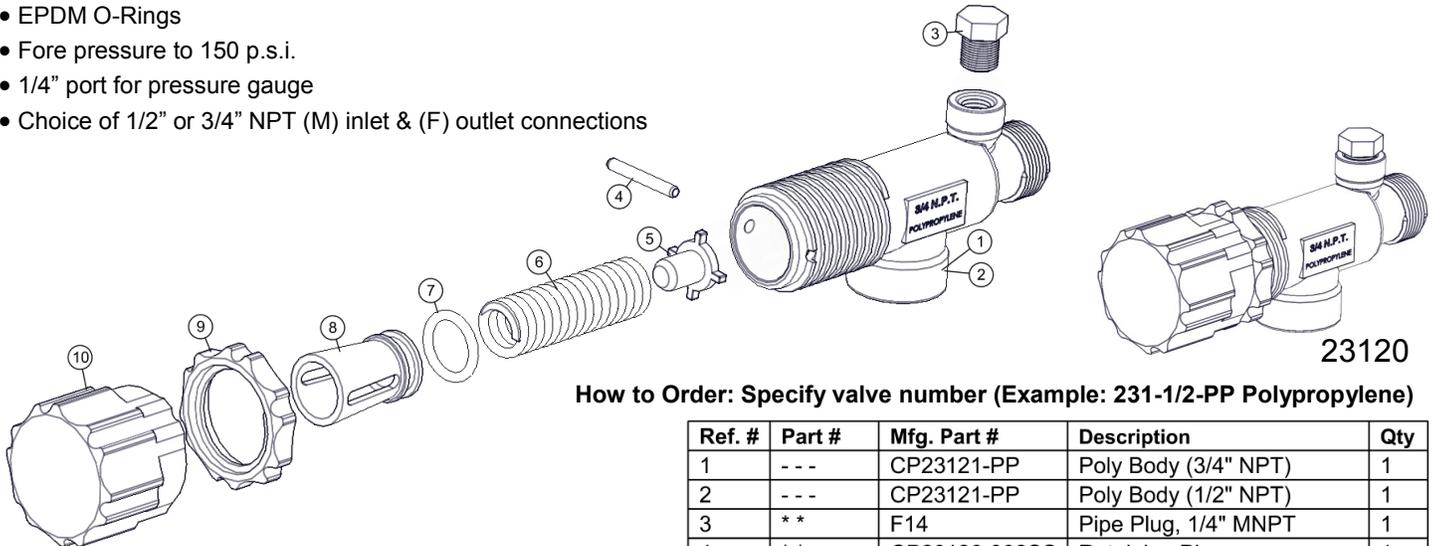
1. Attach one end of the torque chain over the threaded stem of the bolt
2. Thread the whiz nut onto the bolt. Hand-tighten
3. Thread the bolt, chain and nut 'pre-assembly' into the threaded hole on the underside of the pump. Tighten sufficiently
4. Affix the 'S' Hook to your frame (or hitch). Wrap the chain around the frame or hitch and 'S-Hook' it in place. Make sure this connection is very secure! Not having a good, tight connection may result in the pump spinning on your PTO shaft and damaging some components of your sprayer

*** Insure that this connection point will not allow the roller pump to spin on the PTO shaft ***

Piston Type Pressure Relief/Regulating Valves

Bypasses excess fluid. Adjustable to maintain control of line pressure at any pressure within the valve operating range. Selected pressure setting firmly held in place by locknut. Extra large passages to handle large flows.

- Polypropylene with stainless steel spring
- Excellent chemical resistance
- EPDM O-Rings
- Fore pressure to 150 p.s.i.
- 1/4" port for pressure gauge
- Choice of 1/2" or 3/4" NPT (M) inlet & (F) outlet connections



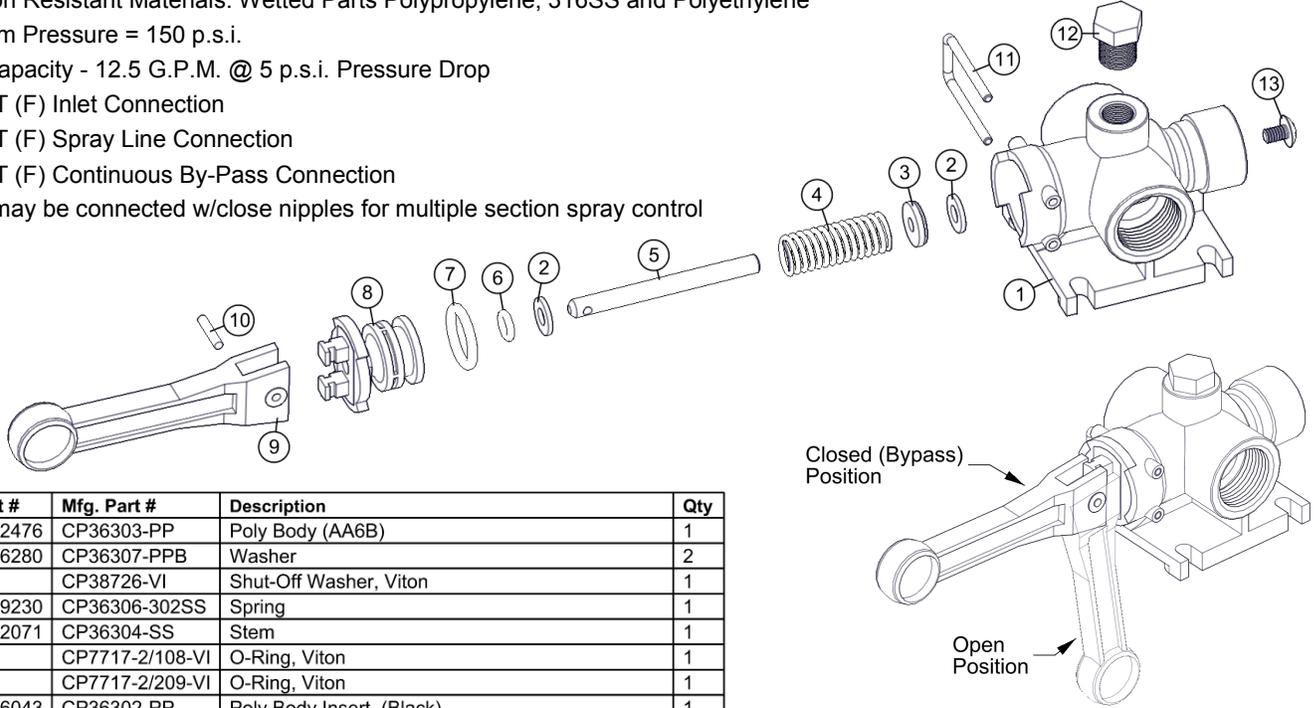
How to Order: Specify valve number (Example: 231-1/2-PP Polypropylene)

Part #	Mfg. Part #	Description
5143199	23120-3/4-PP	Pressure Relief Valve, (3/4" NPT)
5143200	23120-1/2-PP	Pressure Relief Valve, (1/2" NPT)
5168717	PK-AB23120-KIT	Repair Kit, Items Marked **

Ref. #	Part #	Mfg. Part #	Description	Qty
1	---	CP23121-PP	Poly Body (3/4" NPT)	1
2	---	CP23121-PP	Poly Body (1/2" NPT)	1
3	**	F14	Pipe Plug, 1/4" MNPT	1
4	**	CP23126-302SS	Retaining Pin	1
5	5115078	CP23125-PP	Guide Seat	1
6	**	CP23127-302SS	Spring	1
7	**	CP7717-15-EPR	O-Ring, EPDM Rubber	1
8	5108095	CP23124-PP	Spring Retainer	1
9	5110266	CP23123-PP	Lock Ring	1
10	5046270	CP23122-NY	Adjusting Cap, Nylon (Gray)	1

'Directo Valve' - Manually Operated Control Valve

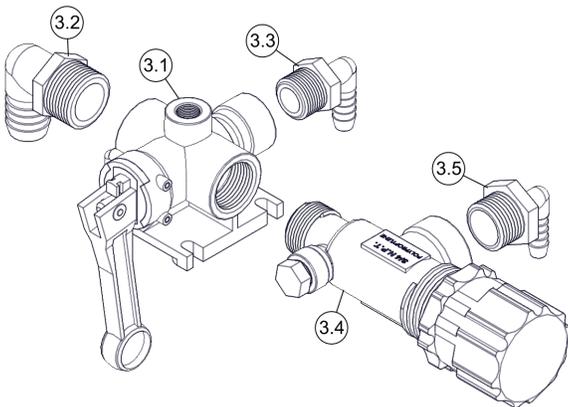
- Corrosion Resistant Materials: Wetted Parts Polypropylene, 316SS and Polyethylene
- Maximum Pressure = 150 p.s.i.
- Large Capacity - 12.5 G.P.M. @ 5 p.s.i. Pressure Drop
- 3/4" NPT (F) Inlet Connection
- 1/2" NPT (F) Spray Line Connection
- 3/4" NPT (F) Continuous By-Pass Connection
- Valves may be connected w/close nipples for multiple section spray control



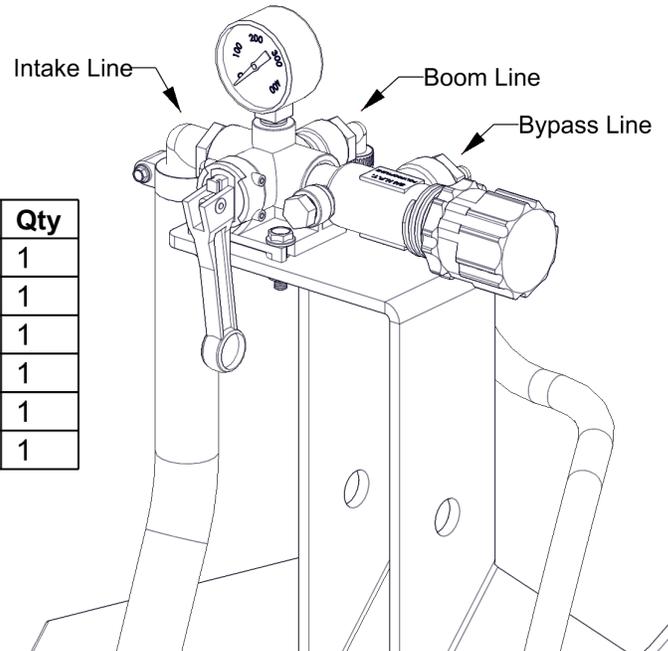
Ref. #	Part #	Mfg. Part #	Description	Qty
1	5002476	CP36303-PP	Poly Body (AA6B)	1
2	5016280	CP36307-PPB	Washer	2
3	**	CP38726-VI	Shut-Off Washer, Viton	1
4	5019230	CP36306-302SS	Spring	1
5	5132071	CP36304-SS	Stem	1
6	**	CP7717-2/108-VI	O-Ring, Viton	1
7	**	CP7717-2/209-VI	O-Ring, Viton	1
8	5086043	CP36302-PP	Poly Body Insert, (Black)	1
9	5078178	CP36301-NY	Handle (Gray)	1
10	5101220	CP36308-SS	Groove Pin	1
11	5053091	CP36309-302SS	Retaining Clip	1
12	**	F14	Pipe Plug, 1/4" MNPT	1
13	5117281	CP38725-SS	#10-24 x 5/16" Phillips Truss Head Machine Screw	1

Part #	Mfg. Part #	Description
5143316	AA6B	Directo-Valve (AA6B)
5168718	PK-AB6B-KIT	Repair Kit, Marked **

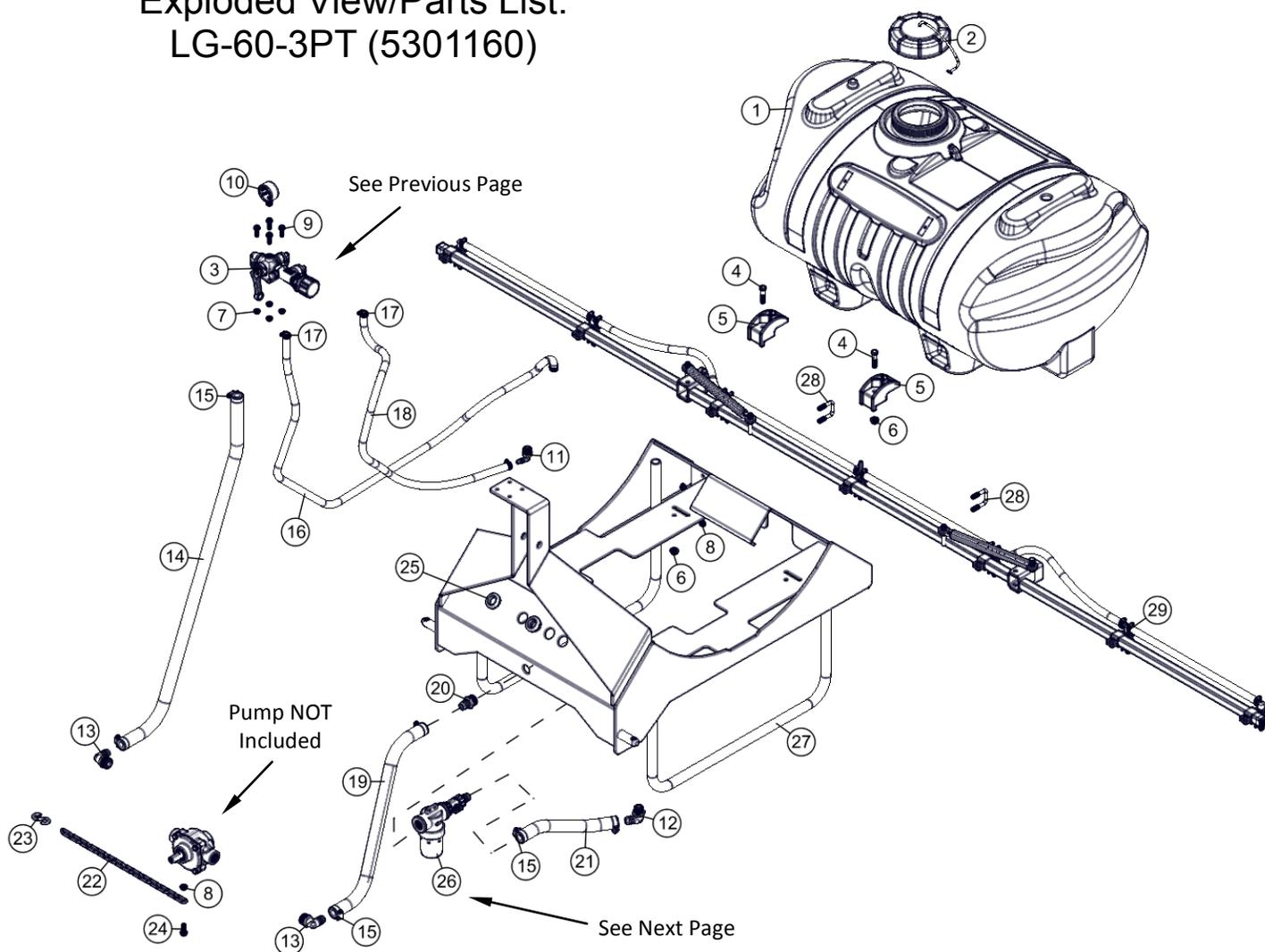
Valve Sub-Assembly #5277756



Ref. #	Part #	Description	Qty
3	5277756	Valve Sub-Assembly	1
3.1	5143316	Directo-Valve (AA6B)	1
3.2	5010209	Poly Elbow, 3/4" MNPT x 3/4" HB	1
3.3	5010202	Poly Elbow, 1/2" MNPT x 3/8" HB	1
3.4	5143199	Pressure Relief Valve, (3/4" NPT)	1
3.5	5010206	Poly Elbow, 3/4" MNPT x 3/8" HB	1

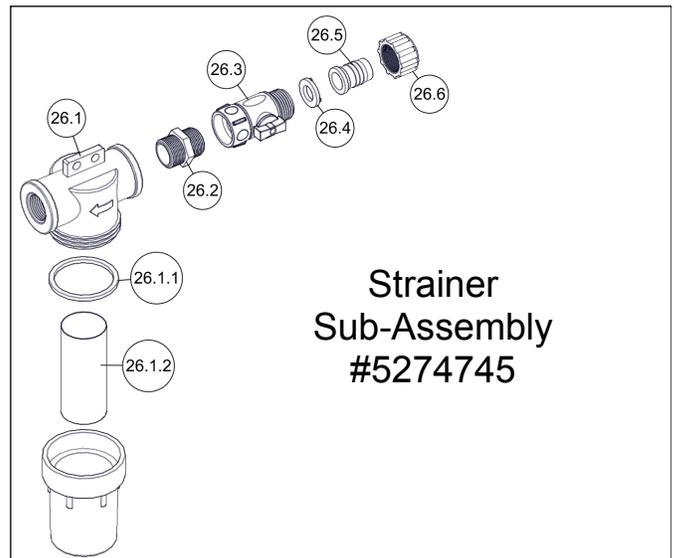
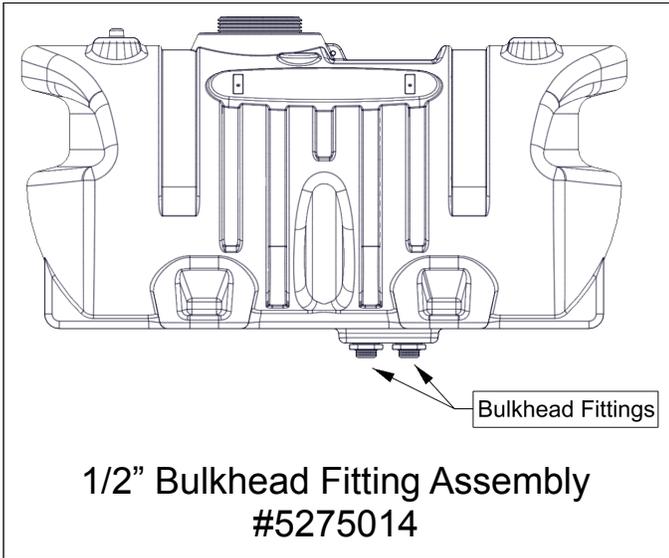


Exploded View/Parts List: LG-60-3PT (5301160)

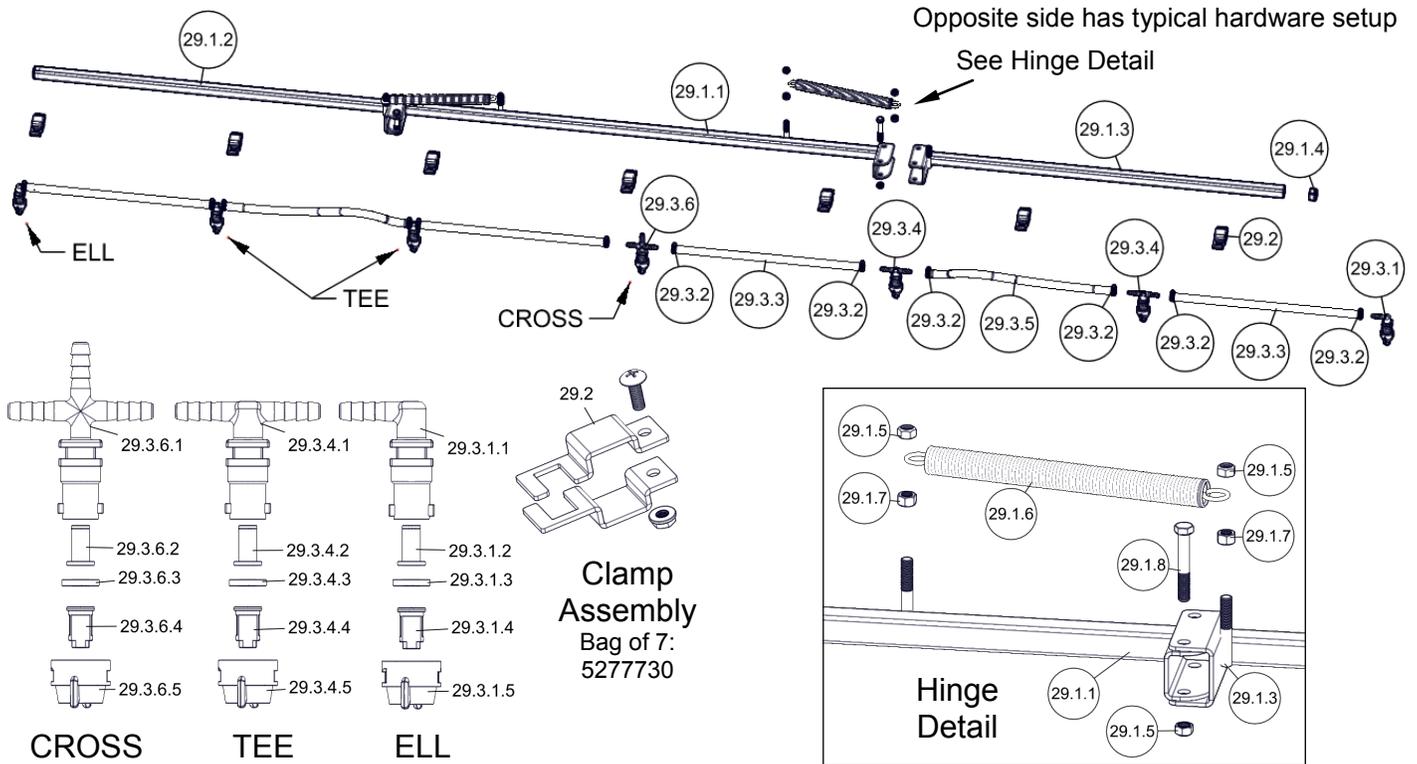


Ref. #	Part #	Description	Qty
1	5169249	60 Gallon Elliptical Tank (White)	1
1.1	5275014	1/2" Bulkhead Fitting Assembly	2
2	5058188	Tank Lid w/Lanyard	1
3	5277756	Valve Sub-Assembly	1
3.1	5143316	Directo-Valve (AA6B)	1
3.2	5010209	Poly Elbow, 3/4" MNPT x 3/4" HB	1
3.3	5010202	Poly Elbow, 1/2" MNPT x 3/8" HB	1
3.4	5143199	Pressure Relief Valve, (3/4" NPT)	1
3.5	5010206	Poly Elbow, 3/4" MNPT x 3/8" HB	1
4	5034101	H.H.C.S., 3/8"-16 x 1 3/4"	4
5	5038698	Plastic Tank Hold-Down Leg Clip	4
6	5006259	3/8"-16 Hex Whiz (Flange) Locknut	4
7	5006306	1/4"-20 Hex Whiz (Flange) Locknut	4
8	5006307	5/16"-18 Hex Whiz (Flange) Locknut	5
9	5117301	1/4"-20 x 1" Hex Flange Screw	4
10	5167005	Gauge, 0-400 p.s.i. (Dry)	1
11	5010202	Poly Elbow, 1/2" MNPT x 3/8" HB	1
12	5010205	Poly Elbow, 1/2" MNPT x 3/4" HB	1
13	5010209	Poly Elbow, 3/4" MNPT x 3/4" HB	2
14	5020227	Hose, 3/4"-1 Brd. x 48"	1
15	5051024	Hose Clamp, 3/4"	6
16	5020519	Hose, 3/8"-1 Brd. x 64"	1

Ref. #	Part #	Description	Qty
17	5051144	Hose Clamp, 3/8"	4
18	5020514	Hose, 3/8"-1 Brd. x 43"	1
19	5020105	Hose, 3/4"-2 Brd. x 36"	1
20	5067127	Poly Fitting, 3/4" MNPT x 3/4" HB	1
21	5020290	Hose, 3/4"-2 Brd. x 16"	1
22	5049017	Torque Chain, 24"	1
23	5082006	"S" Hook	1
24	5117300	5/16"-18 x 1" Flange Whiz Lock Screw	1
25	5075015	Rubber Grommet	2
26	5274745	Strainer Sub-Assembly	1
26.1	5116322	3/4" Black Poly Strainer	1
26.1.1	5072229	EPDM Gasket	1
26.1.2	5116323	40 Mesh Screen	1
26.2	5005196	Poly Adapter, 3/4" MNPT x 3/4" MGHT	1
26.3	5143419	Swivel Shut-Off Valve	1
26.4	5016066	Garden Hose Washer	1
26.5	5149037	Poly Swivel, 3/4" Flat Seat Hose Barb	1
26.6	5006209	Poly Knurled Swivel Nut, 3/4" FGHT	1
27	5274542	60 Gallon 3-Point Carrier (RED)	1
28	5034159	Square U-Bolt, 5/16" x 1 5/16" x 1 7/8"	2
29	5301897	7-Nozzle Boom Assembly	1



Exploded View/Parts List: 7-Nozzle Boom Assembly



Ref. #	Part #	Description	Qty
29	5301897	7-Nozzle Boom Assembly	1
29.1	5277780	7-Nozzle Boom Assembly	1
29.1.1	5277838	Center Boom Weldment 1" Sq. Tube	1
29.1.2	5277837	Outer Boom Weldment (LH) (1" Sq Tube)	1
29.1.3	5277836	Outer Boom Weldment (RH) (1" Sq Tube)	1
29.1.4	5046106	Square Cap, Black (1" Square Tube)	2
29.1.5	5006345	3/8"-16 Hex Locknut	6
29.1.6	5019228	Extension Spring	2
29.1.7	5006259	3/8"-16 Hex Nut	4
29.1.8	5034169	H.H.C.S., 3/8"-16 x 2 1/2"	2
29.2	5277923	Boom Clamp Assembly (1in Sq.)	7
29.3	5277696	7-Nozzle Harness (3/8")	1
29.3.1	5277689	"ELL" Nozzle Sub-Assembly (3/8")	2
29.3.1.1	5056113	Single Hose Shank (3/8" Hose)	1
29.3.1.2	5116019	Nozzle Strainer, Red (50 Mesh)	1
29.3.1.3	5016157	Seat Washer (QJ Caps)	1
29.3.1.4	5018371	Air-Induction XR Flat Spray Tip (AIXR11002VP)	1

Ref. #	Part #	Description	Qty
29.3.1.5	5046219	Quick TeeJet Cap ONLY (Yellow)	1
29.3.2	5051144	Hose Clamp, 3/8"	12
29.3.3	5020510	Hose, 3/8"-1 Brd. x 19-3/8"	4
29.3.4	5277690	"TEE" Nozzle Sub-Assembly (3/8")	4
29.3.4.1	5056114	Double Hose Shank (3/8" Hose)	1
29.3.4.2	5116019	Nozzle Strainer, Red (50 Mesh)	1
29.3.4.3	5016157	Seat Washer (QJ Caps)	1
29.3.4.4	5018371	Air-Induction XR Flat Spray Tip (AIXR11002VP)	1
29.3.4.5	5046219	Quick TeeJet Cap ONLY (Yellow)	1
29.3.5	5020347	Hose, 3/8"-1 Brd. x 21"	2
29.3.6	5277691	"Cross" Nozzle Sub-Assembly (3/8")	1
29.3.6.1	5056115	Triple Hose Shank (3/8" Hose)	1
29.3.6.2	5116019	Nozzle Strainer, Red (50 Mesh)	1
29.3.6.3	5016157	Seat Washer (QJ Caps)	1
29.3.6.4	5018371	Air-Induction XR Flat Spray Tip (AIXR11002VP)	1
29.3.6.5	5046219	Quick TeeJet Cap ONLY (Yellow)	1