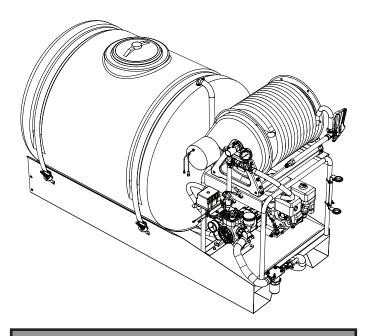
5301070 MODEL NO. LSS-235

200 GALLON SKID MOUNTED HIGH PRESSURE SPRAYER ASSEMBLY / OPERATION INSTRUCTIONS / PARTS



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

The purpose of this manual is to assist you in operating your sprayer. Please read it carefully as it furnishes information which will help you operate and maintain your sprayer.

WARRANTY / PARTS / SERVICE

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

Your authorized dealer is the best source of replacement parts and 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.
- 3. Serial number of your sprayer.

Part number and descriptions 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.

TECHNICAL SPECIFICATIONS

Maximum Flow: 10.6 GPM
Maximum Pressure: 580 PSI
Maximum Temp.: 140° F

BEFORE OPERATING THE SPRAYER

- 1. Add gasoline to the engine, and oil to engine crankcase. Refer to engine manual for correct oil type. Add SAE 30 to the sight level in diaphragm pump. Fill the gear case with 90W gear lube until the gear lube runs out the side plug hole.
- 2. Add plain water to the tank and check the system for leaks. Open the suction line valve. Open the lever valves by the pressure regulator that are connected to the handgun line and jet agitator line.
- 3. The pumping system includes an agitator, which will help keep the solution in suspension. Pressure to the agitator should never exceed 100 PSI. When spraying at pressures over 100 PSI, use the valve (in the agitator line) to throttle the pressure to the agitator by closing the valve. The valve may be opened slowly until the gauge reaches 100 PSI.

DO NOT EXCEED RECOMMENDED PRESSURE ON PUMP OR SPRAYER, AS IT MAY CAUSE HOSES TO BURST AND WILL SHORTEN PUMP LIFE.

OPERATING THE SPRAYER

- 1. Rotate the regulator tab clockwise as far as possible (0 PSI). This aids in the starting of the engine.
- 2. Make sure handgun is in "off" position and start the engine.



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- 3. Open the handgun. Water should start to flow from the handgun almost immediately. Leave the regulator tap in position (0 PSI) for about 1 minute. Allow any air in the system to be worked out before attempting to spray. Rotate the tap in the opposite direction to increase the pressure.
- 4. The pressure regulator (red knob on top) may now be rotated to get the desired operating pressure. Operate the sprayer for a short time with plain water and inspect the system again for any leakage. The sprayer is ready to use.
- 5. The valve in the agitator line may be used to limit flow and pressure to the agitator.

MAINTENANCE

Change the engine oil per the engine manufacturers specifications. Oil changes in the pump should be done after each 200 hours of use, or at least once a season. To fill the pump with oil, pour oil slowly into the sight tube while slowly turning the pump shaft. Turning the pump shaft purges all of the air from the crankcase. Use SAE 30 motor oil.

AFTER SPRAYING

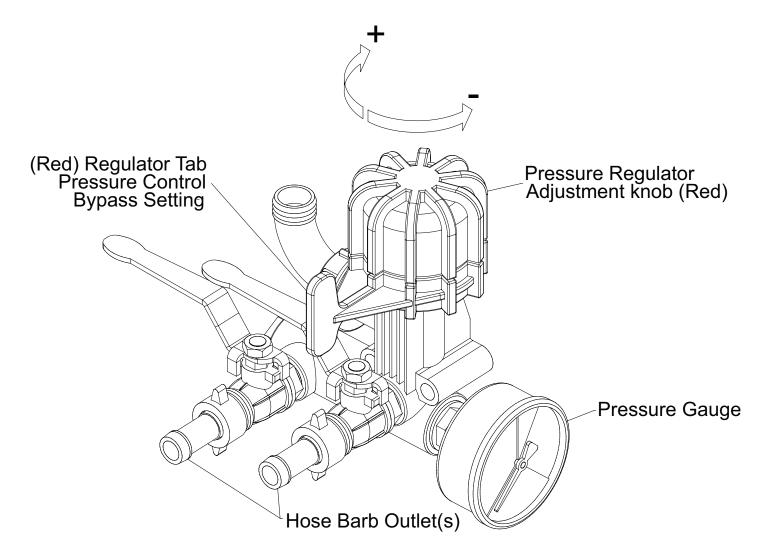
After use, fill the sprayer part way with water. Start the sprayer and allow clear water to be pumped through the plumbing system and out through the handgun. Use the handgun to thoroughly wash all internal parts of tank and tank cover.

Refill the tank about half full with plain water and use a chemical neutralizer such as NUTRA-SOL or equivalent and repeat cleaning instructions above. Flush the entire sprayer with the neutralizing agent. Follow the chemical manufacturers disposal instructions of all wash and rinsing water.

WINTER STORAGE

Drain all water out of the sprayer, paying special attention to pump, valves, and spray gun. These items are especially prone to damage from chemicals and freezing weather.

The sprayer should be winterized before storing by pumping a solution of RV antifreeze through the entire plumbing. Proper care and maintenance will prolong the life of the sprayer.



TROUBLESHOOTING

SYSTEM	PROBABLE CAUSE(S) CORRECTIVE ACTION		
The pump does not draw water	One or more valves are seating improperly.	Examine the valve seatings and clean them	
	Suction line is plugged or collapsed. Clogged strainer.	Examine suction line. Clean strainer.	
Pressure gauge fluctuates excessively	The pump is sucking in air through the suction line or air has not been entirely evacuated from the pump.	Examine the suction hose and make sure it is firmly secured. Run the pump with the outlet line open to evacuate air from pump.	
The liquid flow is irregular.	One or more valves are seating improperly.	Examine the valve seatings and clean them.	
Output drops and the pump is noisy.	Oil level is too low.	Add oil to correct level	
Oil comes out of the discharge port.	One or more diaphragms split.	Drain the pump of oil. Dismantle the heads and fit new diaphragms. Fill to correct oil level with motor oil (SAE 30).	

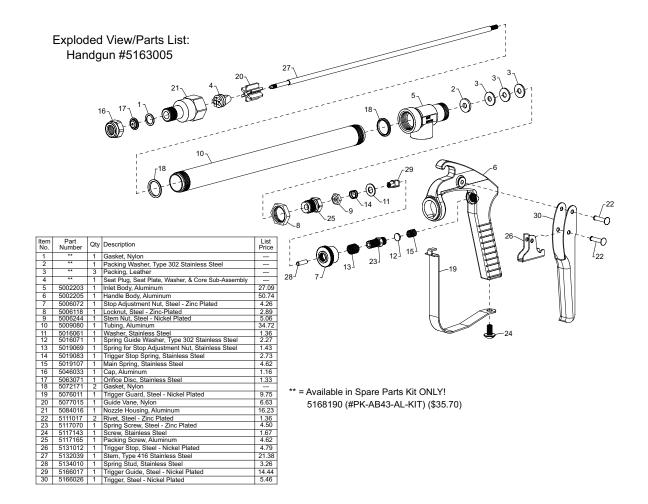
WARNING!

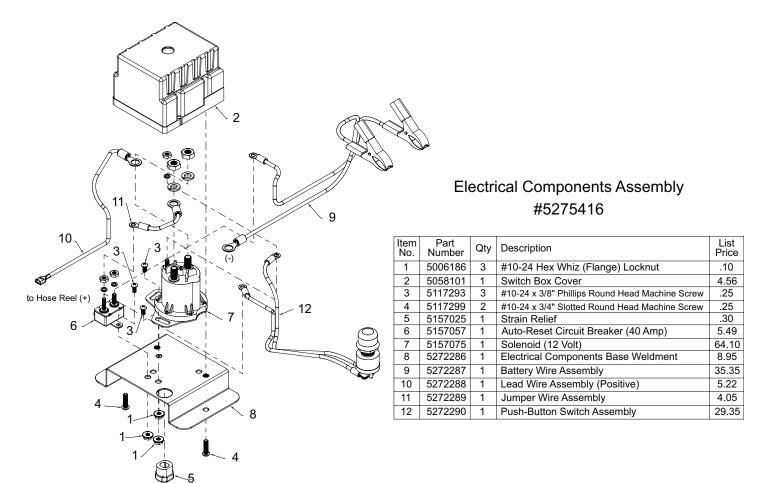
This product when used can be dangerous and can cause bodily harm 0nly if not properly used or guarded.

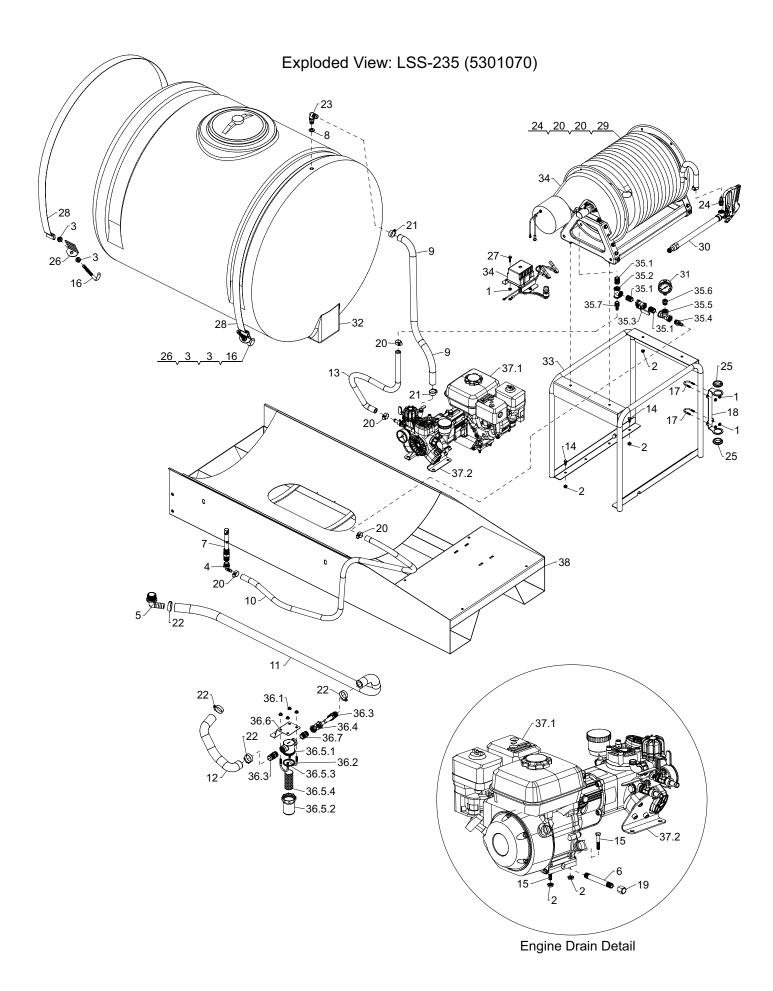
STAY AWAY FROM EQUIPMENT WHEN IT IS IN OPERATION

Read information and the full instructions furnished with the product before installing and operating

- 1. Be sure all guards covering exposed moving parts, such as shafts, are in place at all times. DO NOT USE the sprayer unless all guards are in place.
- 2. Test sprayer with plain water before adding chemicals to the tank.
- 3. DO NOT EXCEED recommended speed, pressure and temperature for the sprayer and pump.
- 4. High pressure spray can cause serious bodily injury. Handle with care. Grasp gun firmly before starting to spray. During spraying operation, hold gun firmly.
- 5. DO NOT put hands or fingers in front of the gun or point the gun at your body or anyone else.
- 6. Before working on, servicing or making adjustments to equipment, disengage power, shut off engine, make sure all moving parts have stopped, and all pressure in the system is relieved.
- 7. Perform periodic cleaning, maintenance and inspection of fittings and hoses for operator safety. Replace any fittings or hoses that are shown to have defects.
- 8. DO NOT use sprayer for pumping water or other liquid for human or animal consumption.
- 9. If equipment is used in freezing or near freezing conditions, protect pump and plumbing on sprayer from freezing. Drain liquid from system and add RV antifreeze.







Parts List: LSS-235 (5301070)

Item No	Part Number	Qty	Description	List Price
1	5006306	6	1/4"-20 Hex Whiz (Flange) Locknut	.05
2	5006307	12	5/16"-18 Hex Whiz (Flange) Locknut	.25
3	5006337	8	1/2"-13 Hex Whiz (Flange) Locknut	.17
4	5010036	1	Nylon Elbow, 3/4" MNPT x 1/2" HB	.96
5	5010151	1	Nylon Elbow, 1 1/4" MNPT x 1" HB	3.12
6	5011126	1	1/4" x 4 1/2" Galv. Pipe Nipple	3.80
7	5014011	1	Delta Jet Agitator	4.21
8	5016066	1	Garden Hose Washer	.20
9	5020076	1	Hose, 3/4"-2 Brd. x 38"	4.83
10	5020112	1	Hose, 1/2"-2 Brd. x 60"	4.97
11	5020314	1	Hose, 1"-2 Brd. x 60"	10.52
12	5020315	1	Hose, 1"-2 Brd. x 24"	5.93
13	5020372	1	Hose, 1/2" Yellow PVC Hose x 36"	3.77
14	5034038	8	H.H.C.S., 5/16"-18 x 3/4"	.55
15	5034088	4	H.H.C.S., 5/16"-18 x 1 3/4"	.25
16	5034111	4	1/2" x 6" Hook Bolt	2.60
17	5034197	2	Round U-Bolt, 1/4"-20 x 1" x 1 3/4" (3/4" Thread)	.90
18	5038637	1	Handgun Holder Bracket	4.29
19	5046057	1	1/4" N.P.T. Galv. Hex Pipe Cap	1.25
20	5051022	6	Hose Clamp, 1/2"	.62
21	5051024	2	Hose Clamp, 3/4"	.67
22	5051025	4	Hose Clamp, 1"	.73
23 24	5056057	1 2	Nylon Elbow, 11/16" U.N.F. x 3/4" HB Steel Fitting, 1/2" MNPT x 1/2" HB	1.24 4.60
	5067052		<u> </u>	
25 26	5075014 5108041	2	Rubber Grommet (Black) Tank Strap Buckle, Bent	2.79 3.10
27	5108041	2	1/4"-20 x 1" Hex Flange Screw	.14
28	5133103	2	Nylon Strap (1 3/4" x 96")	7.00
29	5153103	1	Hose, 1/2" PVC 600# (Yellow) x 300 Ft.	568.00
30	5163005	1	GunJet Spray Gun	120.98
31	5167034	1	Gauge, Liquid-Filled, 0-400# p.s.i.	14.50
32	5169004	1	200 Gallon Horizontal Tank	349.00
33	5274195	1	Reel Mount Weldment	67.00
34	5274309	1	Electric Hose Reel Assembly	1299.00
35	5275335	1	Hose Reel/Agitator Plumbing Assembly (LSS-280)	19.15
35.1	5011046	3	1/2" Galvanized Close Nipple	1.32
35.2	5010086	1	1/2" NPT Galvanized Tee	1.95
35.3	5143197	1	1/2" T-800 Brass Ball Valve	8.99
35.4	5067017	1	Nylon Fitting, 1/2" MNPT x 1/2" HB	.48
35.5	5010113	1	Nylon "Tee" Fitting, 1/2" FNPT	3.09
35.6	5041055	1	Nylon Reducing Bushing, 1/2" MNPT x 1/4" FNPT	1.12
35.7	5067052	1	Steel Fitting, 1/2" MNPT x 1/2" HB	4.60
36	5275463	1	Strainer Assembly (LSS-235)	35.89
36.1	5006307	4	5/16"-18 Hex Whiz (Flange) Locknut	.25
36.2	5034065	2	Round U-Bolt, 5/16"-18 x 1 1/2" x 2 3/16"	1.15
36.3	5067014	2	Nylon Fitting, 3/4" MNPT x 1" HB	.82
36.4	5143190	1	3/4" "T-800" Brass Ball Valve	9.99
36.5	5116136	1	Strainer	14.25
36.5.1	5046173	1	Strainer Cap	.94
36.5.2	5058035	1	Strainer Bowl	3.55
36.5.3	5072194	1	Viton Gasket	5.85
36.5.4	5116131	1	Screen (50 Mesh)	5.25
36.6	5038258	1	Strainer Bracket	3.99
36.7	5011055	1	Nylon Close Nipple, 3/4" MNPT	.56
	5275672	1	Diaphragm Pump/Engine Assembly	1726.58
37		-		
37.1	5152105	1	Engine, 6.5 HP EPA/CARB (Less Gear Reduction)	4404.00
		1 1 1	Engine, 6.5 HP EPA/CARB (Less Gear Reduction) 3-Diaphragm Pump Skid (9-200 - RED)	1421.00 312.25