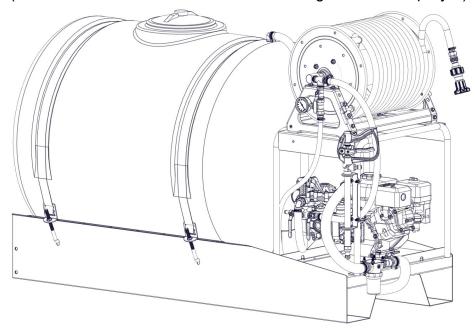
OWNER'S MANUAL

Model: LSS-240 (5301259)

(200 Gallon Lawn Service Skid-Mounted High Pressure Sprayer)



General Information

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

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: One Year Commercial Usage: 90 Days.



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

IMPORTANT REMINDER:

Add proper oil to the engine crankcase and gasoline to the gas tank. Refer to the engine manual for the correct type and amount.

WARNING

This product when used can be dangerous and can cause bodily harm, only 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.



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 [5004575 (10/22)]

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Model: LSS-240 (5301259)

(200 Gallon Lawn Service Skid-Mounted High Pressure Sprayer)

Technical Specifications

- 200 Gallon Polyethylene Tank
- 212cc Engine w/Diaphragm Pump
- Maximum Flow = 9.6 GPM
- Maximum Pressure = 580 PSI
- Maximum Temperature = 140°F
- High Pressure Spray Gun w/1/2" x 300' of Hose
- Banjo Garden Hose Spray Nozzle
- Delta Jet Agitator

Caution: When fully filled with water, this sprayer will weigh approx. 2,005 lbs..

Consult the owner's manual for your vehicle to verify that you are within it's load carrying capacity.

~~~~~~~~~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.

~~~~~~~~~IMPORTANT~~~~~~~

It is <u>VERY</u> important to test this sprayer with plain water before actual spraying is attempted. This will enable you to familiarize yourself with the sprayer and check for leaks without the possibility of losing any expensive chemicals.

~~~~~~~~~WARNING~~~~~



Read and Understand the Owner's Manual before using this sprayer. Test and use in accordance to instructions. **Read and Follow** chemical label instructions and wear protective gear when filling, using, cleaning and servicing the sprayer.

Exercise Caution in vehicle handling when towing/hauling a filled sprayer to avoid loss of control or overturning.

Keep Sprayer and Spray materials away from other people, children and pets.

Do Not Turn on Power to the sprayer, until ready to spray in order to avoid unintentional spray release.

Do Not Use on steep slopes. A full sprayer could cause loss of control or overturn sprayer and vehicle.

Always operate up and down a slope, never across the face of a slope.

Keep all movement on slopes slow and gradual. Do not make sudden changes in speed, directions or turning. Do not start or stop suddenly when going uphill or downhill.

Stop on level ground, set the parking brake and shut off engine before leaving the operator's position for any reason.

Keep all parts in good condition and properly installed. Fix damaged or worn parts immediately.

Caution should be taken when towing and/or using any sprayer. This sprayer combined with the weight distribution, turning radius and speed of vehicle can result in damage to vehicle and/or sprayer or severe injury or death, if not used properly.

Improper use of this sprayer or handling of chemicals could result in serious injury or illness, or could cause damage to the environment.

Assembly Instructions

The sprayer is completely assembled. It is ready to operate after mounting it securely on a truck bed. Make sure all hose clamps are tight before testing or spraying for the first time.

ADD proper oil to the engine crankcase and gasoline to the gas tank. Refer to the engine manual for the correct type and amount.

The Sprayer is now ready to TEST w/plain water before actual use

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 important to test this sprayer for leakage and proper spray patterns with plain water before chemical application is attempted. This will also give you the opportunity to familiarize yourself with the operation of the sprayer, without the possibility of losing any expensive chemicals.

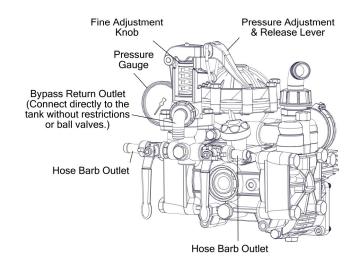
Before Operating the Sprayer

- 1. Add proper oil to the engine crankcase and gasoline to the gas tank. Always check the oil in the gear box. Refer to engine manual for correct oil type. Add SAE 30 to the sight level in the 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.
- 4. Read and understand your pump manual and follow directions for pump operation, safety and maintenance.

Do not exceed recommended pressure on pump or sprayer, as it may cause hoses to burst and will shorten pump life.

Operating the Sprayer

- Adjust the pressure by clamping the relief valve adjustment lever down.
- 2. With the bale hook in the number one position, the pressure is about 100 psi; number two is about 250 psi; number three is about 450 psi; number four is about 550 psi.
- Pressure can be adjusted by using the fine adjustment knob, located on top of the relief valve spring. The fine adjustment knob can be rotated when the relief valve lever is in the up position.
- 4. Pressure is released by lifting up the relief valve adjustment lever with the bale hook on the number one position.



NOTICE

- 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 the 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.
- 10. Only fill the tank with what you're going to spray in a day, never leave chemicals sit in tank.

Maintenance During/After Spraying

Periodically close the suction line valve and check the line strainer and clean the screen. Stop the engine and shut off the valve near the strainer. Remove the bowl and screen portions of the strainer and wash them free from all impurities. You may also drain the tank by uncoupling the suction line near the strainer. Open the valve and pour the contents into another container. Read the chemical label for disposal instructions.

Proper care and maintenance will keep your pump wear at a minimum and will keep it running smoothly and trouble-free for a long time and prolong the life of your sprayer.

Change the engine oil per the engine manufacturer's 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.

Refer to the pump and motor owners manuals for their respective replacement parts and service recommendations.

After use, fill the sprayer tank part way with water. Start the sprayer and allow the water to pump through the entire plumbing system and nozzles. Drain and then refill half full with plain water, add the recommended amount of good quality tank cleaner such as FIMCO Sprayer Tank Neutralizer and Cleaner. (If no tank cleaner is available, you may substitute dish soap for this step, about 1-2 oz. per gallon). But a neutralizer/cleaner should be used to thoroughly clean the system. Turn sprayer on and circulate through system for 15 minutes and then spray out through handgun nozzle (and boom nozzles if applicable). Refill tank half way with clean water and repeat. Follow the chemical manufacturer's disposal instructions of all wash or rinsing water.

WARNING: Never pump corrosive or abrasive liquids as these will cause rapid wear or deterioration of body, rotor, shaft and seals in the pump. Never run pump dry. 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. Failure to follow this warning will void the product warranty.

Follow the chemical manufacturer's instructions on disposal of all waste water from the sprayer.

Tank Care & Maintenance

Warning: Do not use the tank as a container for fuel oils, kerosene, gasoline or any other petroleum distillate product. All polyolefins are softened and permeated by such products. In an enclosed area the vaporization of these materials from the outside surface of the tank could create a dangerous condition.

The tank should not be used as a pressure vessel nor used with chemicals or solutions having a weight of more than 12 pounds per gallon.

Store the tank in a dry dark place when not in use. Storage out of sunlight will prolong the life of the tank.

Do not drop, strike or kick the tank, especially at low temperatures. Tanks become brittle and are subject to cracking at temperatures below 20° Fahrenheit.

Always flush the tank with water and a neutralizing agent at the end of each use, to prevent contamination of solutions.

Winter Storage

Prepare the sprayer for end-of-season storage by draining all water out of your sprayer, paying special attention to the pump, handgun and valve(s). These items are especially prone to damage from chemicals and freezing weather.

The sprayer should be winterized before storage by pumping a solution of automotive antifreeze (containing a rust inhibitor) through the entire plumbing system. This antifreeze solution should remain in the plumbing system during the winter months.

Proper care and maintenance will prolong the life of your sprayer.

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.

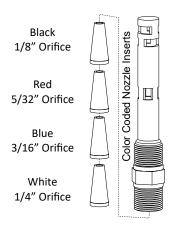


Operation

As solution is forced through the agitator, the venturi action more than triples the effective flow through the agitator.

The valve in the line may shut off the agitation completely when not needed or it can throttle the amount of solution going to the agitator if too much agitation occurs.

Orifice Color	Orifice	P.S.I.	Inlet Flow (G.P.M.)	Outlet Flow (G.P.M.)
Black	1/8"	30	2.9	9.5
Red	5/32"	30	4.1	13.2
Blue	3/16"	30	5.3	15.4
White	1/4"	30	6.5	19.5

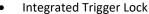


PRO SERIES Long Range Ergonomic Handguns

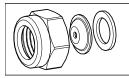
Technical Specifications:

- Adjustable Spray Pattern
- No Drip Shut Off
- Adjustable On/Off Trigger Stop for Precise Spray Pattern
- Aluminum Barrel
- Ergonomic Handgun Design





- Convenient Hanger Hole
- 600 PSI, 8 GPM
- Chemical Resistant Construction
- 38' Horizontal, 27' Vertical Maximum Spray Distance



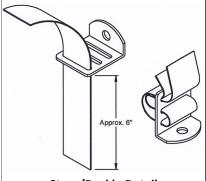
#7772092 End Cap Replacement Kit Kit consists of: End Cap, Gasket & Orifice Disc



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#7772093 Repair Kit for 5163136



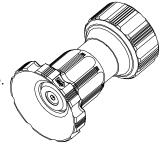


Strap/Buckle Detail
Strap Attachment
to a "Bent" Buckle

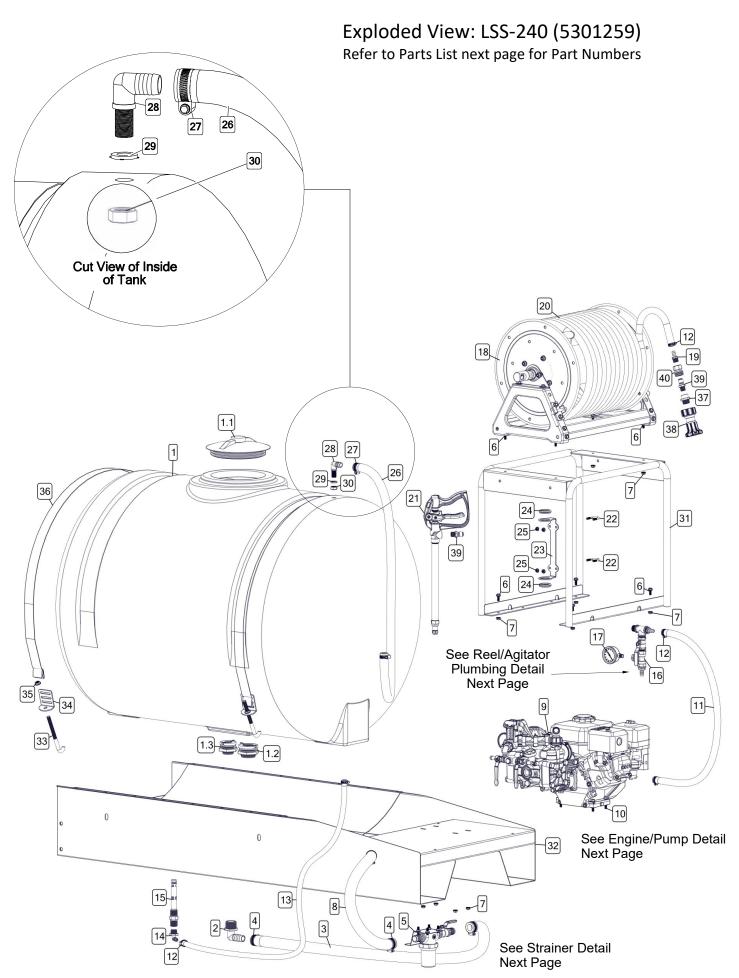
The nylon straps are to be inserted in and out of the slots in the buckle, as shown. Be sure the straps are snug before tightening the hook bolts. In most cases, it will be necessary to re-tighten the straps after filling the tank with liquid.

3/4" Garden Hose Spray Nozzle

- Heavy-duty aluminum construction, stands up to hard use, will not rust.
- Comfort-grip soft rubber provides a comfortable gripping texture.
- Resists dents, mars and scratches and also protects any surface that comes in contact with nozzle.
- Multiple spray pattern adjusts from a powerful jet stream to a gentle fan spray.
- Ideal for all your spraying needs.







Parts List: LSS-240 (5301259)

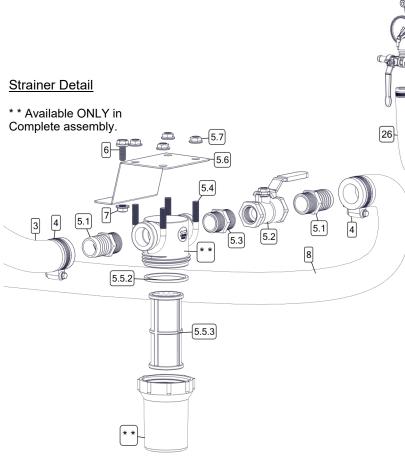
Ref. #	Part #	Description	Qty
1	5169004	200 Gallon Horizontal Tank (White)	
1.1	63480	8" Lid w/Blue Snap-In Vent	
1.2	5274362	1-1/4" Double-Threaded Bulkhead	1
1.3	5273736	3/4" Double-Threaded Tank Bulkhead	1
2	5010215	Poly Elbow, 1 1/4" MNPT x 1" HB	1
3	5020314	Hose, 1"-2 Brd. x 60"	1
4	5051025	Hose Clamp, 1"	4
5	5275463	Strainer Assembly	1
5.1	5067128	Poly Fitting, 3/4" MNPT x 1" HB	2
5.2	5143190	3/4" "T-800" Brass Ball Valve	1
5.3	5011140	Poly Close Nipple, 3/4" MNPT	1
5.4	5034065	5/16-18 x 1.5 x 2.1875 Round U-Bolt	2
5.5	5116443	3/4" Black Poly Strainer, 50 Mesh Screen	1
5.5.1	**	Strainer Cap	1
5.5.2	5072540	Strainer Gasket	1
5.5.3	5116456	50 Mesh Strainer Screen	1
5.5.4	* *	Strainer Bowl	1
5.6	5038258-BLK	Strainer Bracket	1
5.7	5006307	5/16-18 Serrated Fing Hex Nut	4
6	5117323	5/16-18 x 0.75 Flng Hex Bolt	8
7	5006307	5/16-18 Serrated Fing Hex Nut	12
8	5020975	Hose, 1"-2 Brd. x 27"	1
9	5282507	AR30 Diaphragm Pump/212cc Engine Assembly	1
9.1	5151161	AR Two Diaphraghm Pump w/6:1 & Control	1
9.2	5152105	PowerPro Engine, 212cc EPA/CARB (Less Gear Reduction)	1
10	5034638	5/16-18 x 1.50 Fing Hex Bolt (Full Thread)	4
11	5020372	Hose, 1/2" Yellow PVC Hose x 36"	1
12	5051114	Hose Clamp, 1/2"	6
13	5020509	Hose, 1/2" EPDM x 5 Ft.	1
14	5010207	Poly Elbow, 3/4" MNPT x 1/2" HB	1
15	5014011	Delta Jet Agitator	1
16	5275335	Hose Reel/Agitator Plumbing	1

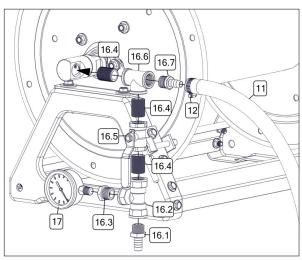
Ref. #	Part #	Description	Qty
16.1	5067131	Poly Fitting, 1/2" MNPT x 1/2" HB	1
16.2	5010230	Poly Tee, 1/2" FNPT	1
16.3	5041073	Poly Reducing Bushing, 1/2" MNPT x 1/4" FNPT	1
16.4	5011046	1/2" Galvanized Close Nipple	3
16.5	5143197	1/2" T-800 Brass Ball Valve	1
16.6	5010086	1/2" NPT Galvanized Tee	1
16.7	5067052	Steel Fitting, 1/2" MNPT x 1/2" HB	1
17	5167034	Gauge, Liquid-Filled, 0-400# p.s.i.	1
18	5272182	Manual Hose Reel	1
19	5067052	Steel Fitting, 1/2" MNPT x 1/2" HB	2
20	5153097	Hose, 1/2" PVC 600# (Yellow) x 300 Ft.	1
21	5163136	High Pressure Aluminum Spray Gun 22"	1
22	5034197	1/4-20 x 1.00 x 1.75 Round U-Bolt	2
23	5038637-BLK	Handgun Holder Bracket	1
24	5075014	Rubber Grommet (Black)	2
25	5006306	1/4-20 Serrated Fing Hex Nut	4
26	5020191	Hose, 3/4"-2 Brd. x 54"	1
27	5051024	Hose Clamp, 3/4"	2
28	5056097	11/16" MPS X 3/4" HB Nozzle Body Elbow - 90°	1
29	5016066	1" Rubber Washer	1
30	5006212	Poly Nut (11/16" Nozzle Thread)	1
31	5274195-BLK	Reel Mount Weldment	1
32	5272229-RED	Skid Weldment (LSS-200)	1
33	5034111	1/2-13 x 6.00 Hook Bolt	4
34	5108041-BLK	Tank Strap Buckle, Bent	4
35	5006337	1/2-13 Serrated Fing Hex Nut	4
36	5133103	Nylon Strap (2" x 96")	2
37	5005191	Poly Fitting, 3/4" MGHT x 1/2" FNPT	1
38	GHN075	Banjo Hose Nozzle	1
39	5102121	SS Quick Connector Male Coupler Plug	2
40	5126003	SS Quick Connector Female Coupler Socket	1

* * Available ONLY in Complete assembly.

Engine/Pump Detail

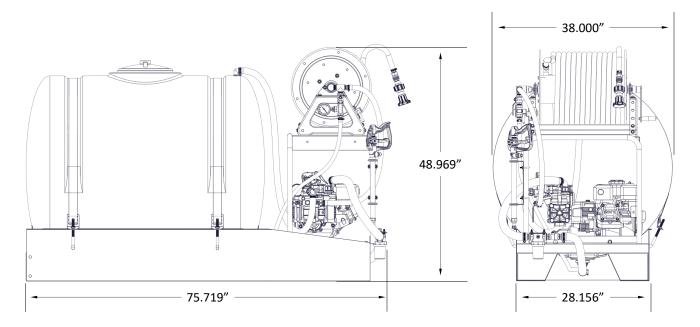
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	Pump Troubleshooting	
Problem	Cause	Remedy
		Tighten, repair or replace
Duran doos not	Intake circuit not airtight.	hoses and fittings,
Pump does not prime properly.		as necessary.
	Control unit switching lever	Move control switching lever to
	on "Pressure" setting.	"By-pass" setting.
	Seat and plate of intake and	
	delivery valves worn.	Replace the worn valves.
Pump does not require the	Nozzle worn or too large in	Replace the worn nozzles. Use
required pressure.	diameter.	nozzles of suitable diameter.
required pressure.	Restriction in intake circuit.	Remove the restriction from
	Restriction in intake circuit.	the circuit.
	Intake filter fouled.	Clean the filter cartridge.
	Intake circuit not airtight.	Clean or replace the intake
	mtake circuit not antignt.	and delivery valves.
		Discharge the air by opening a
	Residual air left inside pump.	ball valve/central unit connected
Pressure gauge needle	Residual all left histae pump.	to the delivery side with the
wobbles, pressure pulsating.		pump in operation.
	Valve plate stuck to it's seat.	Tighten, repair or replace
	varve prace stack to resseat.	hose and fittings as necessary.
	Pressure accumulator	Inflate accumulator to the
	deflated.	correct pressure.
Uneven flow of liquid to	Pressure accumulator	Inflate accumulator to the
nozzles.	deflated.	correct pressure.
	Restriction in intake circuit.	Remove the restriction from
Increase in noise and	Restriction in intake circuit.	the circuit.
simultaneous drop in oil	Intake filter fouled.	Clean the filter cartridge.
level (pump cavitation).	Pump drawing in liquid	See "Pump Intake Conditions"
	from too low a level.	section in Pump Manual.
Oil on pump body or base.	Oil seal on pump shaft worn.	Replace the worn oil seal.
,	Oil pressure inside pump too high.	Restore correct oil level in tank.
Pump using too much oil(oil flowing from delivery port) or oil whitish in color (water/oil emulsion in tank).	One or more disphragms ruptured.	Stop the pump at once. Replace the diaphragm.

Approx. Dimensions:



Notes:

Warranty Info

LIMITED WARRANTY FOR NEW FIMCO, INC.

WHO MAY USE THIS LIMITED WARRANTY. This limited warranty (the "Limited Warranty") is provided by Fimco, Inc. to the original purchaser ("you") of the Equipment (as defined below) from Fimco, Inc. or one of Fimco, Inc.'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, Inc. warrants that any registered new Equipment will be free from defects in material and workmanship for a period of **one (1) year** (homeowner), **90 days** (commercial user), after delivery of the Equipment to you (the "Warranty Period"). The Warranty Period is not extended if Fimco, Inc. 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, Inc. or its authorized dealers; (3) damage or depreciation due to normal wear and tear; (4) defects or damage due to failure to follow Fimco, Inc.'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, Inc.'s reasonable control; (6) accessories, attachments, tools or parts that were not manufactured by Fimco, Inc., 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, Inc. 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, Inc., 1000 Fimco Lane, North Sioux City, SD 57049; and (2) make the Equipment available to Fimco, Inc. 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, Inc. shall, at its own cost, and at its option, either repair or replace the defective Equipment or part. Fimco, Inc. will pay for shipping and handling fees to return the repaired or replacement Equipment or part to you.

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