

Fimco LG-25-SM

25 Gallon Spot Sprayer User Manual

Brand: [Fimco](#) | Model: [LG-25-SM](#)

1. PRODUCT OVERVIEW

The Fimco 25 Gallon Spot Sprayer is designed for efficient and targeted application of liquids. It features a durable low-profile polyethylene tank with molded recesses for convenient handling and storage. The unit is equipped with a 12V diaphragm pump, an adjustable pressure gauge, and a standard 18-inch aluminum spray gun with a trigger lock for precise control.

Key features include a 5-inch screw-on cap for easy filling, molded gallon marks for accurate measurement, and six molded inserts on the bottom for secure installation. The pump draws 10 amps and allows for an adjustable pressure range of 0-60 PSI. The handgun offers a maximum vertical throw of 26 feet and a maximum horizontal throw of 35 feet. A 9-foot lead wire with an on/off switch and alligator clips is included for battery connection, providing an output of 2.1 GPM.

This sprayer can be permanently mounted to an ATV and is compatible with optional accessories such as a five-nozzle boom kit (100-inch swath) and an ATV mounting kit, both sold separately.

2. SAFETY INFORMATION

WARNING:

- Always use appropriate protective equipment when handling harsh chemicals. This includes gloves, eye protection, and suitable clothing.
- Exercise caution when handling pressurized liquids. Ensure all connections are secure before operating.
- Clean the sprayer thoroughly between uses to prevent contamination and ensure longevity of the components.
- Do not use with flammable liquids.
- Always disconnect power before performing any maintenance or cleaning.

3. COMPONENTS OVERVIEW

The Fimco 25 Gallon Spot Sprayer comes with the following main components:



Figure 3.1: Main 25 Gallon Spot Sprayer unit. This image shows the complete sprayer assembly, including the tank, pump, pressure gauge, and spray gun attached.



Figure 3.2: The 12V Diaphragm Pump. This red and black pump is the heart of the sprayer, providing the necessary pressure for operation.



Figure 3.3: The 18-inch Aluminum Spray Gun with Trigger Lock. This handheld gun allows for precise application and features a trigger lock for continuous spraying.



Figure 3.4: The 15-foot, 3/8-inch Hose. This durable hose connects the pump to the spray gun, allowing for extended reach.



Figure 3.5: The 9-foot Lead Wire with On/Off Switch and Alligator Clips. This power cable connects the sprayer's pump to a 12V battery source.



Figure 3.6: The Adjustable Pressure Gauge. This gauge allows for monitoring and adjusting the spray pressure between 0-60 PSI.

4. SETUP

4.1 Initial Assembly

1. Unpack all components and verify against the Components Overview section.
2. Ensure all hose clamps are securely tightened before first use. The manufacturer may only snug them for shipping.
3. Connect the 15-foot hose to the pump outlet and the spray gun.
4. Connect the 9-foot lead wire to the 12V diaphragm pump.

4.2 Mounting the Sprayer

The sprayer is designed for easy installation. It can be placed on a flat surface or permanently mounted to an ATV using the six molded inserts on the bottom of the tank. An optional ATV mounting kit is available for secure attachment.



Figure 4.1: Fimco 25 Gallon Spot Sprayer mounted on an ATV. This image demonstrates how the sprayer can be securely placed on the rear rack of an ATV for mobile spraying operations.

4.3 Filling the Tank

1. Unscrew the 5-inch cap located on top of the tank.
2. Pour the desired liquid into the tank. The molded gallon marks on the tank provide clear volume indications.
3. Securely screw the cap back on to prevent leaks.
4. *Recommendation:* Always fill with clear water first and check for leaks before adding chemicals. Using a screen filter and funnel during filling can help prevent clogs.

5. OPERATING INSTRUCTIONS

5.1 Power Connection

1. Connect the alligator clips of the 9-foot lead wire to a 12V battery. Ensure correct polarity (red to positive, black to negative).
2. Flip the on/off switch on the lead wire to the "ON" position to activate the pump.

5.2 Adjusting Pressure

The sprayer features an adjustable pressure range from 0 to 60 PSI. Use the pressure adjustment knob located near the pump and gauge to set the desired pressure for your application. Monitor the pressure gauge for accurate calibration.

5.3 Spraying

1. Once the pump is active and pressure is set, aim the 18-inch aluminum spray gun at the target area.
2. Squeeze the trigger to begin spraying. Use the trigger lock for continuous operation.
3. The handgun provides a maximum vertical throw of 26 feet and a maximum horizontal throw of 35 feet.
4. For larger areas, consider using an optional five-nozzle boom kit (sold separately) which provides a 100-inch swath.

6. MAINTENANCE

6.1 After Each Use

- **Flush the System:** After each use, especially when spraying chemicals, thoroughly flush the tank, pump, and hose with clean water. Run clean water through the spray gun until it runs clear.
- **Clean Exterior:** Wipe down the exterior of the tank and components to remove any chemical residue.
- **Drain Tank:** Ensure the tank is completely drained to prevent residue buildup or freezing in cold weather.

6.2 Seasonal Maintenance / Winterization

- **Drain Completely:** For winter storage, ensure all water is drained from the tank, pump, and hoses.
- **Protect Pump:** Loosen screws on the pump diaphragm and at the pressure switch to allow any trapped water to escape. This prevents damage from freezing.
- **Store Properly:** Store the sprayer in a dry, protected area away from extreme temperatures.

6.3 General Tips

- Regularly inspect hoses, connections, and the spray gun for any signs of wear, cracks, or leaks. Replace damaged parts immediately.
- Keep the pump clean and free of debris.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump not running	No power to pump; On/Off switch off; Loose battery connection; Blown fuse.	Check battery charge; Ensure switch is ON; Secure alligator clips; Check and replace fuse if necessary.
Low pressure or no spray	Clogged nozzle; Clogged filter; Air leak in suction line; Low liquid level; Pump malfunction.	Clean nozzle; Clean filter; Check all connections for tightness; Refill tank; Inspect pump for damage or wear.
Leaks from connections	Loose hose clamps; Damaged O-rings or seals; Cracked fittings.	Tighten hose clamps; Inspect and replace O-rings/seals; Replace any cracked plastic fittings.

Problem	Possible Cause	Solution
Pump runs continuously	Air in system; Leak in discharge line; Pressure switch malfunction.	Bleed air from system; Check for leaks in hose or gun; Consult manufacturer for pressure switch replacement.






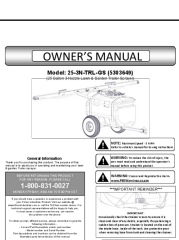
8. SPECIFICATIONS

- **Brand:** Fimco
- **Model Number:** LG-25-SM
- **Tank Volume:** 25 Gallons
- **Pump:** 12V Diaphragm Pump
- **Pump Current Draw:** 10 Amps
- **Output:** 2.1 GPM
- **Adjustable Pressure Range:** 0-60 PSI
- **Hose Length:** 15 Feet (3/8" diameter)
- **Spray Gun:** 18" Aluminum with Trigger Lock
- **Lead Wire:** 9 Feet with On/Off Switch and Alligator Clips
- **Tank Dimensions (approx.):** 36"L x 18"W x 17"H
- **Material:** Polyethylene (tank), Aluminum (spray gun)
- **Color:** Black, White
- **UPC:** 733029002570
- **Manufacturer:** Fimcom, Inc.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to order replacement parts, please contact Fimco, Inc. directly. Refer to the product packaging or the official Fimco website for the most current contact details and warranty terms.

Note: Protection plans may be available for purchase separately through your retailer. These plans are not directly provided by Fimco and their terms and conditions should be reviewed with the plan provider.

	<p>FIMCO LG-40-DLX 40 Gallon Deluxe Lawn & Garden Spot Sprayer Owner's Manual and Troubleshooting Guide</p> <p>Comprehensive owner's manual for the FIMCO LG-40-DLX (5302186) 40 Gallon Deluxe Lawn & Garden Spot Sprayer. Includes detailed information on operation, testing, maintenance, winter storage, troubleshooting, parts list, and warranty.</p>
	<p>FIMCO LG-40-3PT-PRO 3-Point Sprayer Owner's Manual</p> <p>Comprehensive owner's manual for the FIMCO LG-40-3PT-PRO 3-Point Sprayer. Includes assembly instructions, operation guidelines, maintenance tips, troubleshooting, and parts lists for this 40-gallon, 12-volt sprayer.</p>
	<p>FIMCO LG-2500-303 25 Gallon Lawn & Garden Trailer Sprayer Owner's Manual</p> <p>Comprehensive owner's manual for the FIMCO LG-2500-303 25 Gallon Lawn & Garden Trailer Sprayer, covering assembly, operation, testing, maintenance, troubleshooting, and parts identification.</p>
	<p>FIMCO LG-2500-303 25 Gallon Lawn & Garden Trailer Sprayer Owner's Manual</p> <p>Comprehensive owner's manual for the FIMCO LG-2500-303 25 Gallon Lawn & Garden Trailer Sprayer. This guide covers assembly, operation, testing, troubleshooting, technical specifications, and parts identification for optimal use and maintenance.</p>
	<p>FIMCO LG-30-3N-TRL 30 Gallon Lawn & Garden Trailer Sprayer Owner's Manual: Assembly, Operation, and Maintenance</p> <p>Comprehensive owner's manual for the FIMCO LG-30-3N-TRL 30 Gallon Lawn & Garden Trailer Sprayer (Model 5302950). Includes detailed assembly instructions, technical specifications, operation guide, maintenance tips, troubleshooting, and warranty information.</p>
	<p>FIMCO 25-3N-TRL-GS (5303649) Owner's Manual: Operation, Assembly, and Maintenance</p> <p>Comprehensive owner's manual for the FIMCO 25-3N-TRL-GS (5303649) 25 Gallon 3-Nozzle Lawn & Garden Trailer Sprayer. Includes assembly instructions, operation guide, technical specifications, maintenance tips, troubleshooting, and warranty information.</p>