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SOLO 416-Li

SOLO 416-Li Battery-Powered Backpack Sprayer Instruction Manual

INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation, maintenance, and troubleshooting of your SOLO 416-Li Battery-Powered Backpack Sprayer. Please read this manual thoroughly before initial use and keep it for future reference.

The SOLO 416-Li is designed for various spraying tasks, including applications in enclosed spaces like greenhouses and office buildings where extended spraying is required. It is suitable for applying pesticides, herbicides, and for general spraying. This battery-powered sprayer operates quietly and produces no emissions.

KEY FEATURES

- Equipped with an 11 V pump for consistent spray performance.
- Features an 11 V 7.8Ah lithium-ion battery, fully charging in 5.5 hours.
- Includes a pressure gauge for monitoring pressure levels.
- Offers a two-step toggle switch to adjust pressure and output volume (36psi and 62psi).
- Designed with deluxe shoulder straps and a waist belt for user comfort.

COMPONENTS OVERVIEW

Main Unit

- **Tank:** 4.5 Gallon (approx. 17 liters) translucent tank for liquid solutions.
- **Battery Compartment:** Houses the 11V 7.8Ah Lithium-Ion battery.
- **Pump:** 11V electric pump for consistent pressure.
- **Pressure Gauge:** Displays current operating pressure.
- **Power Switch:** Two-step toggle switch for pressure adjustment.
- **Charging Port:** For connecting the battery charger.
- **Shoulder Straps & Waist Belt:** Padded for comfortable carrying.

Spray System

- **Wand:** 36-inch carbon fiber wand.

- **Hose:** Flexible hose connecting the tank to the wand.
- **Nozzle System:** Interchangeable spray nozzles for various applications.





This image displays the side profile of the SOLO 416-Li sprayer, highlighting the translucent tank with volume markings and the integrated pressure gauge on the spray wand for precise application control.





The rear view of the sprayer illustrates the ergonomic design with padded shoulder straps and a waist belt, ensuring comfort during extended use.

SETUP AND ASSEMBLY

Unpacking

Carefully remove all components from the packaging. Verify that all parts listed in the packing list are present and undamaged. Retain packaging for storage or potential returns.

Battery Installation and Initial Charge

Locate the battery compartment, typically at the base of the sprayer. Insert the 11V 7.8Ah lithium-ion battery. Connect the provided battery charger to the charging port on the sprayer and plug it into a standard electrical outlet. Allow approximately 5.5 hours for a full charge before first use.



This image shows the charging port located on the red base of the sprayer, with the battery charger plug inserted. Ensure a secure connection for proper charging.

Wand and Hose Connection

Attach the spray hose securely to the outlet on the sprayer's base. Connect the 36-inch carbon fiber wand to the other end of the hose. Ensure all connections are tight to prevent leaks.

Nozzle Selection

Select the appropriate nozzle for your spraying task from the interchangeable spray nozzle system. Attach it firmly to the end of the spray wand.

OPERATING INSTRUCTIONS

Filling the Tank

Ensure the sprayer is on a stable, level surface. Unscrew the tank cap. Prepare your liquid solution according to the chemical manufacturer's instructions. Use the integrated strainer to prevent debris from entering the tank. Fill the tank up to the desired level, not exceeding the maximum capacity of 4.5 gallons. Securely replace the tank cap.





This image demonstrates the SOLO 416-Li backpack sprayer in use within a greenhouse environment, showing a user applying liquid to plants. The translucent tank allows for easy monitoring of liquid levels.

Powering On and Pressure Adjustment

Locate the two-step toggle switch on the sprayer's base. Switch it to the desired pressure setting: 36psi for lower pressure or 62psi for higher pressure. The pump will activate, and the pressure gauge on the wand will indicate the current operating pressure.



This image highlights the two-step toggle switch on the sprayer's base, used to select between 36psi and 62psi pressure settings for varied spraying needs.

Spraying

Aim the nozzle at the target area. Press the trigger on the spray wand to begin spraying. Release the trigger to stop. Maintain a consistent distance and motion for even application.

MAINTENANCE

Cleaning After Use

After each use, especially when using chemicals, thoroughly rinse the tank, hose, and wand with clean water. Operate the sprayer with clean water for a few minutes to flush out any chemical residue from the pump and lines. This prevents clogging and extends the life of the sprayer.

Draining and Storage

To completely drain the tank, use the drain valve located at the bottom of the sprayer. Ensure all liquid is removed before storing. Store the sprayer in a cool, dry place, away from direct sunlight and freezing temperatures. Disconnect the battery if storing for extended periods.



This image shows the red drain valve at the base of the sprayer, designed for easy and complete emptying of the tank after use or before storage.

Battery Care

Recharge the lithium-ion battery after each use. Avoid completely draining the battery to prolong its lifespan. If storing for a long time, charge the battery to about 50% and store it in a cool, dry place. Recharge every 3-6 months if not in use.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Sprayer not turning on.	Battery not charged or improperly installed.	Ensure battery is fully charged and correctly seated in its compartment. Check charger connection.
No spray or weak spray.	Clogged nozzle or filter. Low battery. Air in the system.	Clean the nozzle and internal filter. Recharge battery. Prime the pump by spraying water until consistent flow is achieved.
Leaks from connections.	Loose hose connections or worn seals.	Tighten all hose connections. Inspect seals and O-rings for damage and replace if necessary.
Inconsistent pressure.	Low battery. Clogged components.	Ensure battery is fully charged. Clean all filters and nozzles.

SPECIFICATIONS

Feature	Detail
Brand	SOLO
Model Number	416-Li
Tank Volume	4.5 Gallons (approx. 17 liters)
Power Source	Battery Powered (11V 7.8Ah Lithium-Ion)
Charging Time	Approx. 5.5 hours
Maximum Pressure	62 PSI
Adjustable Pressure Settings	36 PSI and 62 PSI
Wand Length	36 inches (Carbon Fiber)
Included Components	Battery Charger, Interchangeable Spray Nozzle System
Item Weight	14 Pounds (empty)
Recommended Uses	Pest Control, Weed Control, Garden spraying, Sanitizing

SAFETY INFORMATION

- Always wear appropriate personal protective equipment (PPE) including safety glasses, gloves, and protective clothing when operating the sprayer.
- Read and follow all instructions and safety warnings on chemical labels.
- Do not spray flammable liquids.
- Keep children and pets away from the spraying area.
- Ensure proper ventilation when spraying in enclosed spaces.
- Never point the spray wand at people or animals.
- Disconnect the battery before performing any maintenance or cleaning.

WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product or visit the official SOLO website. For technical support or replacement parts, contact SOLO customer service.

Manufacturer: Solo

Website: us.solo.global

PRODUCT OVERVIEW VIDEO

Your browser does not support the video tag.

This video provides a general overview of Solo sprayers, including different types and their applications. It helps in understanding the versatility and features of Solo products.