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Crivnhar L18PC

Crivnhar Cordless Paint Sprayer (Model L18PC)

Instruction Manual

1. Important Safety Information

Please read and understand all safety warnings and instructions before operating this product. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- **Battery Compatibility:** This paint sprayer is designed to work seamlessly with all 18V Li-ion/Ni-CD batteries (e.g., P100, P102-P105, P107-P109). **Battery & Charger NOT Included.**
- **Motor Protection:** The built-in anti-backflow system safeguards the motor from paint damage. However, avoid spraying at extreme angles that could force paint into unintended areas.
- **Ventilation:** Always operate in a well-ventilated area to prevent inhalation of paint fumes.
- **Personal Protective Equipment:** Wear appropriate personal protective equipment, including eye protection, gloves, and a respirator, when operating the sprayer.
- **Flammable Materials:** Do not spray flammable materials near open flames or ignition sources.

2. Product Overview and Components

The Crivnhar Cordless Paint Sprayer is a high-volume, low-pressure (HVLP) handheld spray gun designed for efficient and even paint application. It features a 70000RPM brushless motor for professional-grade results.

Included Components:

- 1 Cordless Paint Sprayer (Main Unit)
- 1 Paint Container (1200mL Capacity)
- 4 Size Nozzles (1.0mm, 1.8mm, 2.5mm, 3.0mm)
- 5 Paint Filters
- 1 Viscosity Cup
- 1 Cleaning Needle
- 1 Cleaning Brush
- 1 Dust Blower Joint

- 1 Clean Connector
- 1 Pot Lid
- 1 User Manual

Key Features:

- **Cordless Design:** Offers freedom of movement without power cords.
- **Brushless Motor:** High-torque 70000RPM motor for smooth, even spray.
- **Multiple Nozzles:** Four copper nozzles for various materials and finishes.
- **Adjustable Spray Patterns:** Horizontal, vertical, and circular options.
- **Top Fill Hatch:** Convenient paint refilling without detaching the container.
- **Integrated LED Light:** Illuminates the spraying area for improved visibility.



Figure 1: Crivnhar Cordless Paint Sprayer and its included accessories.



Figure 2: Detailed diagram of the paint sprayer's main parts including cap nut, air cap, nozzle, shape width adjuster, flow rate adjusting knob, trigger switch, suction pipe, container, and motor housing.

3. Setup

3.1 Battery Installation

1. Ensure the sprayer is turned off.
2. Align your compatible 18V Ryobi battery with the battery slot at the base of the sprayer handle.
3. Slide the battery into place until it clicks securely.

3.2 Assembling the Spray Head and Container

1. Attach the spray head unit to the main body of the sprayer by aligning the connection points and pushing until it clicks into place.
2. Screw the 1200mL paint container onto the bottom of the spray head until it is finger-tight. Ensure the suction pipe is correctly positioned inside the container.

3.3 Nozzle Selection and Installation

Select the appropriate copper nozzle based on the material you are spraying:

- **1.0mm:** Ideal for stains and sealers.
- **1.8mm:** Suitable for enamels.
- **2.5mm:** Recommended for latex paints.
- **3.0mm:** Best for thicker paints.

1. Unscrew the cap nut from the front of the spray head.
2. Remove the existing air cap and nozzle.
3. Insert the chosen copper nozzle and needle, ensuring the needle corresponds to the nozzle size.
4. Place the air cap back on, then screw the cap nut firmly to secure all components.



Figure 3: The four copper nozzles (1.0mm, 1.8mm, 2.5mm, 3.0mm) included for various paint types.

3.4 Paint Preparation and Filling

Proper paint thinning is crucial for optimal spray performance and to prevent clogging.

1. **Thinning:** Use the provided viscosity cup to test paint thickness. Pour paint into a bucket, add thinner (water for latex, appropriate solvent for oil-based) gradually, and mix thoroughly. A full cup of paint should run out in a specific time (e.g., 80 seconds for 80 DINS viscosity). The maximum recommended viscosity is 120 DINS.
2. **Filtering:** Use the included paint filters to remove any impurities or clumps from the paint, preventing nozzle clogs.
3. **Filling:** The sprayer offers two convenient ways to add paint:
    - **Top Fill Hatch:** Open the feed cap on top of the spray head and pour the prepared paint directly into the container.
    - **Container Removal:** Unscrew the paint container, fill it with prepared paint, and reattach it securely.

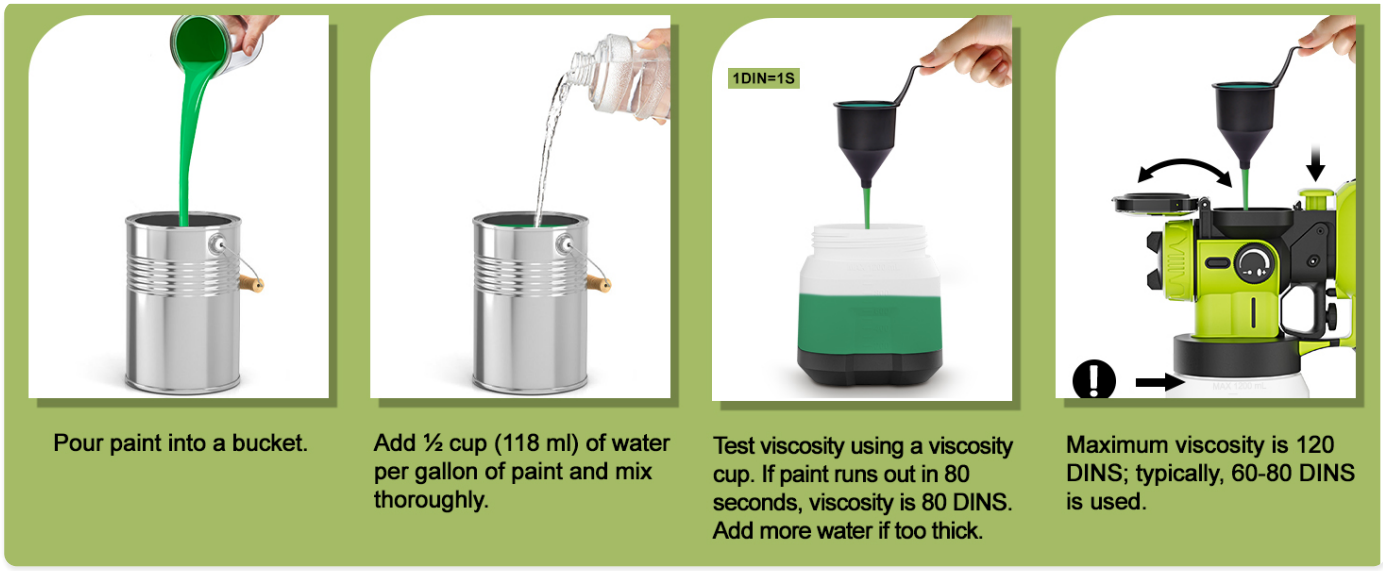


Figure 4: Guide for thinning paint using the viscosity cup to achieve optimal consistency for spraying.



Figure 5: The two convenient methods for filling the paint sprayer: directly into the container or through the top feed hatch.

Video: Paint Sprayer Setup and Filling

Video 1: This video demonstrates the initial setup of the Crivnhar Cordless Paint Sprayer, including how to open the top hatch and pour paint into the container. It also shows the auto-lock feature for continuous spraying.

4. Operating Instructions

4.1 Powering On/Off and Auto Mode

1. **Power On:** Insert a charged 18V battery. Pull the trigger to activate the sprayer.
2. **Auto Mode:** For continuous spraying, pull the trigger and then push the 'Auto Lock' button. This frees your finger from holding the trigger. To disengage, simply pull the trigger again.
3. **Power Off:** Release the trigger. If in auto mode, pull the trigger to disengage auto mode, then release. Remove the battery for extended storage.

4.2 Adjusting Spray Patterns

The sprayer offers three adjustable spray patterns:

- **Horizontal:** For wide, horizontal surfaces.
- **Vertical:** For tall, vertical surfaces.
- **Circular:** For detailed work or small areas.

To change the pattern, rotate the air cap at the front of the spray head to align the desired pattern with the nozzle.



Figure 6: The sprayer's versatile spray methods, allowing adjustment between horizontal, vertical, and circular patterns.

4.3 Adjusting Flow Rate

Use the flow rate adjusting knob located on the side of the spray head to control the volume of paint dispensed. Turn the knob to increase or decrease the flow as needed for your project.

4.4 Using the Integrated LED Light

The sprayer features a built-in LED light to illuminate your spraying area, which is particularly useful in low-light conditions or for detailed work.

1. Locate the LED light switch on the top of the sprayer.
2. Press the switch to turn the LED light on or off.



Figure 7: The built-in LED light provides illumination for precise spraying, especially in dimly lit areas.

Video: Brushless Motor and LED Light Demonstration

Video 2: This video highlights the powerful brushless motor and demonstrates the functionality of the integrated LED light during operation.

Video: Cordless Paint Sprayer Motor in Action

Video 3: This video showcases the 70000RPM brushless motor and its performance during paint application.

5. Maintenance

Regular cleaning and maintenance will ensure the longevity and optimal performance of your paint sprayer.

5.1 Cleaning After Use

1. **Empty Container:** Empty any remaining paint from the container.

2. **Disassemble:** Remove the paint container, unscrew the cap nut, and detach the air cap, nozzle, and needle.
3. **Clean Components:** Clean all disassembled parts (container, suction pipe, nozzles, needle, air cap, cap nut) thoroughly with water (for water-based paints) or appropriate cleaning solvent (for oil-based paints). Use the provided cleaning brush and needle to clear any paint residue from the nozzles and internal passages.
4. **Main Unit:** Wipe down the exterior of the main unit with a damp cloth.**Do not immerse the motor housing in water.**
5. **Dry:** Allow all components to dry completely before reassembling or storing.



Figure 8: Steps for easy cleaning of the sprayer parts using water and the provided cleaning tools.

5.2 Storage

Store the sprayer and its accessories in a clean, dry place. The sprayer body has a convenient storage compartment for extra nozzles and the cleaning needle/wrench.

6. Troubleshooting

- **Uneven Spray/Spitting:**
  - Ensure paint is properly thinned according to viscosity guidelines.
  - Check for clogged nozzles or air caps; clean thoroughly.
  - Verify that all components are securely assembled and tightened.
- **No Spray/Low Pressure:**
  - Confirm the battery is charged and properly installed.
  - Check for blockages in the suction pipe or nozzle.
  - Ensure the paint container is not empty.
- **Motor Stops/Overheating:**
  - Allow the unit to cool down if it has been used continuously for an extended period.
  - Ensure proper ventilation around the motor housing.
  - Verify that the paint is not too thick, which can strain the motor.

7. Specifications

Feature	Specification
Brand	Crivnhar
Model Name	L18PC
Power Source	Battery Powered (Compatible with 18V Li-ion/Ni-CD batteries)
Motor Type	Brushless Motor
Motor Speed	70000 RPM
Tank Volume	1200 Milliliters
Nozzle Sizes	1.0mm, 1.8mm, 2.5mm, 3.0mm (Copper)
Recommended Uses	Painting (Cabinets, Furniture, Fence, Trim, House)
Material	Copper, Plastic
Item Dimensions (W x H)	7.5"W x 11.8"H

8. Warranty and Support

Specific warranty details are not provided in this manual. For warranty information, technical support, or replacement parts, please contact Crivnhar customer service or refer to the product's official website or purchase platform.

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