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Dotool DTQ8010

Dotool HVLP Spray Gun Kit H827 Instruction Manual

Model: DTQ8010

1. Product Overview

The Dotool HVLP Spray Gun Kit H827 (Model DTQ8010) is a professional-grade air spray gun designed for a wide range of painting applications, including automotive, wood, plastic, metal, and furniture repair. This kit provides precise control and efficient material transfer for a smooth and even finish.



Image 1.1: The Dotool HVLP Spray Gun Kit H827, ready for use.

Key Features:

- **Professional Spray Gun:** Features a brass cover with a 15-hole design for fine, even atomization and an ideal fan pattern. The nozzle direction can be adjusted 360°.
- **Durable and Reliable:** Needle and nozzle materials are high-quality stainless steel for extended service life. Thickened paint cans and corrosion-resistant seals prevent air or paint leakage.
- **Water-based Compatibility:** Suitable for water-based paints of neutral viscosity. Offers a spraying speed of 10 to 12 m/m, ensuring uniform and high efficiency.
- **Gravity-fed Design:** Helps minimize waste of residual material in the cup, saving costs and materials.
- **Wide Application:** Ideal for primers, varnishes, and high-viscosity coatings in various industries.

2. Package Contents

Verify that all components listed below are included in your Dotool HVLP Spray Gun Kit H827 package.



Image 2.1: All components included in the Dotool HVLP Spray Gun Kit.

- 1 x HVLP Spray Gun
- 1 x 1.4mm Nozzle
- 1 x 1.7mm Nozzle
- 1 x 2.0mm Nozzle
- 1 x 600cc Capacity Cup
- 1 x Air Regulator with Gauge
- 3 x Stainless Steel Needles (corresponding to nozzle sizes)
- 1 x Cleaning Brush
- 1 x Socket Spanner
- 1 x PTFE Tape
- 1 x Hose Connector
- 1 x Filter
- 1 x Nut

- 1 x Wrench

3. Safety Information

Read and understand all safety warnings and instructions before operating the spray gun. Failure to follow these instructions may result in serious injury or property damage.

- Always use in a well-ventilated area.
- Avoid inhaling paint fumes. Use appropriate respiratory protection.
- Keep away from heat and open flames.
- Do not use with a damaged or leaking air compressor.
- Always wear appropriate safety gear, including gloves and eye protection.
- Dispose of paint and materials according to local regulations.
- Keep the spray gun and all accessories out of reach of children.

4. Setup

Proper setup is crucial for optimal performance and safety. Follow these steps to prepare your spray gun for use.

4.1. Assembly

1. Unpack all components and inspect for any damage.
2. Select the appropriate nozzle size (1.4mm, 1.7mm, or 2.0mm) for your paint material and desired finish.
3. Install the selected nozzle, needle, and air cap onto the spray gun body. Ensure they are securely tightened.
4. Attach the 600cc capacity cup to the top of the spray gun.
5. Connect the air regulator to the air inlet at the bottom of the spray gun handle. Use PTFE tape on threads for an airtight seal.
6. Connect your air compressor hose to the air regulator.



Image 4.1: Diagram illustrating the main components of the spray gun.

4.2. Paint Preparation

1. Ensure your paint is thoroughly mixed and free of lumps or debris.
2. If necessary, thin the paint according to the paint manufacturer's recommendations to achieve the correct viscosity for spraying. Use a viscosity cup if available.
3. Use the provided filter to strain the paint as you pour it into the 600cc capacity cup. This prevents clogging of the nozzle.
4. Securely close the cup lid after filling.

5. Operation

Follow these guidelines for effective and consistent paint application.

5.1. Air Pressure Adjustment

1. Connect the air hose to the air regulator.
2. Set the air pressure using the regulator. The recommended operating pressure for this spray gun is 2.0~3.5 bar (29-50 psi). Adjust as needed for your specific paint and desired finish.

5.2. Spray Pattern Adjustment

The spray gun features adjustable controls for flow and spray width.

- **Flow Control Valve:** Adjusts the amount of paint released. Turn clockwise for less paint, counter-clockwise for more.
- **Spray Width Adjustment:** Controls the fan pattern width. Turn clockwise for a narrower pattern, counter-clockwise for a wider pattern.
- **Air Cap Adjustment:** Rotate the air cap 360° to change the orientation of the fan pattern (horizontal, vertical, or round).

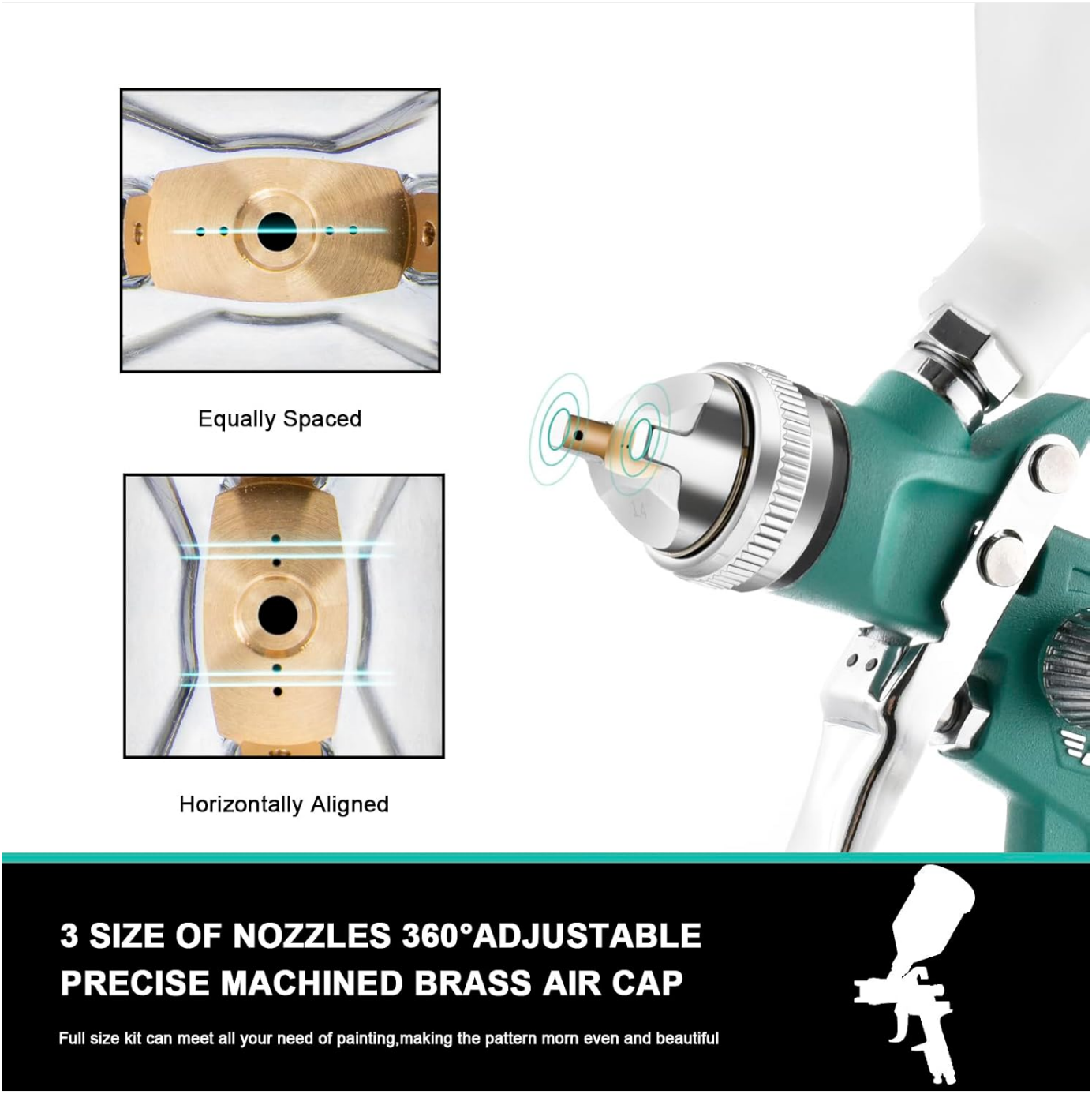


Image 5.1: Detailed view of the nozzle and adjustment controls.

5.3. Spraying Technique

1. Hold the spray gun perpendicular to the surface, maintaining a consistent distance (typically 6-8 inches).
2. Begin spraying off the workpiece, move across the surface in even, overlapping passes, and release the trigger off the workpiece.
3. Apply thin, even coats rather than one thick coat to prevent runs and drips. Allow adequate drying time between coats.
4. Practice on scrap material to achieve the desired spray pattern and finish before working on your main project.

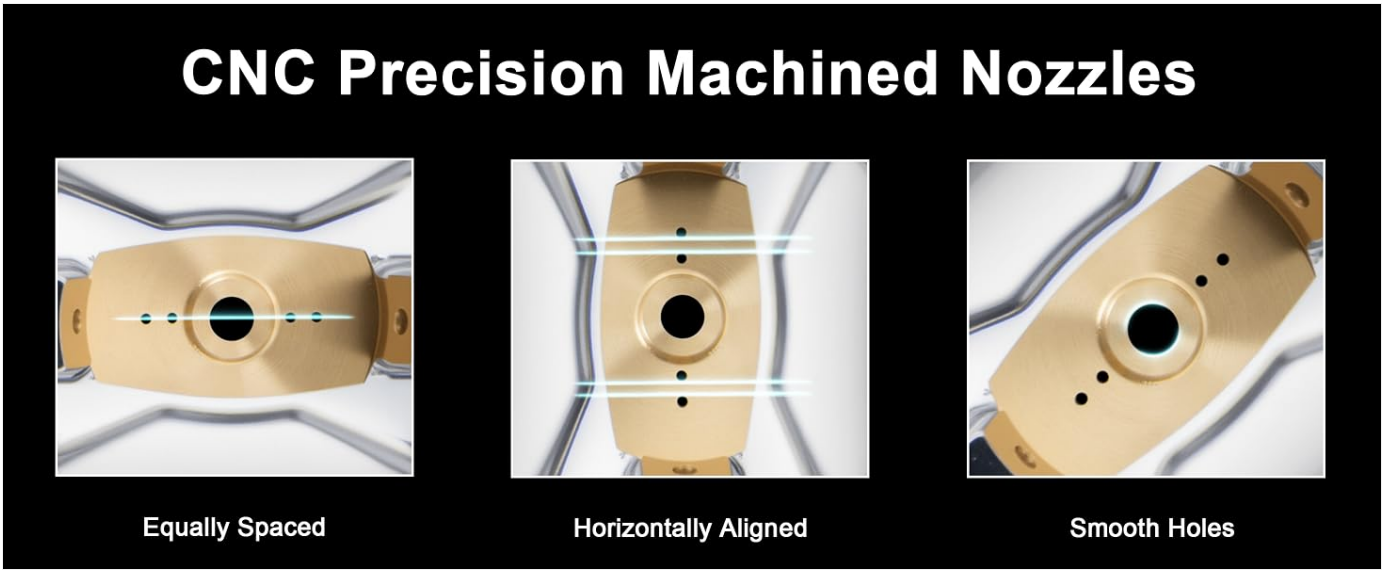


Image 5.2: Example of the spray gun in use for automotive painting.

6. Maintenance

Regular cleaning and maintenance will prolong the life of your spray gun and ensure consistent performance.

1. **Immediate Cleaning:** After each use, empty any remaining paint from the cup. Pour a small amount of appropriate cleaning solvent (e.g., paint thinner for oil-based paints, water for water-based paints) into the cup. Spray the solvent through the gun until it runs clear.
2. **Disassembly and Detailed Cleaning:** Disassemble the air cap, nozzle, and needle. Use the provided cleaning brush and solvent to thoroughly clean all paint passages and components. Pay close attention to the air cap holes and nozzle tip.
3. **Lubrication:** Apply a small amount of spray gun lubricant to the needle packing and air valve stem periodically.
4. **Reassembly:** Reassemble the spray gun, ensuring all parts are correctly seated and tightened. Do not overtighten.
5. **Storage:** Store the clean and dry spray gun in a safe, dry place away from extreme temperatures.

7. Troubleshooting

If you encounter issues with your spray gun, refer to the common problems and solutions below.

Problem	Possible Cause	Solution
Pulsating or uneven spray	Low air pressure, clogged air cap/nozzle, loose fluid nozzle, insufficient paint in cup.	Increase air pressure, clean air cap/nozzle, tighten fluid nozzle, refill paint cup.
Excessive overspray	Too high air pressure, paint too thin, gun too far from surface.	Reduce air pressure, thicken paint, move gun closer to surface.
Heavy in center or ends of pattern	Dirty or damaged air cap horns, incorrect air cap adjustment.	Clean or replace air cap, adjust air cap for even pattern.

Problem	Possible Cause	Solution
Paint leaking from nozzle	Damaged needle packing, worn needle or nozzle, loose fluid nozzle.	Replace needle packing, replace needle/nozzle, tighten fluid nozzle.

8. Specifications

Detailed technical specifications for the Dotool HVLP Spray Gun Kit H827.

- **Brand:** Dotool
- **Model Name:** DTQ8010
- **Nozzle Sizes:** 1.4mm, 1.7mm, 2.0mm
- **Operating Pressure:** 2.0~3.5 bar (29-50 psi)
- **Paint Capacity:** 600cc
- **Material:** Alloy Steel, Brass, Stainless Steel
- **Color:** Green
- **Item Weight:** 1.43 Kilograms
- **Power Source:** Air-powered
- **Item Dimensions (W x H):** 9"W x 7.5"H

9. Warranty and Support

For warranty information, technical support, or replacement parts, please contact Dotool customer service through the retailer where the product was purchased. Keep your purchase receipt as proof of purchase.

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