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Model: 31214A

Brand: NEIKO

1. SAFETY INFORMATION

WARNING: Always wear appropriate protective gear, including a respirator, when using this product. Avoid contact with skin and eyes. Do not ingest. Dispose of paint and materials responsibly. Keep away from heat and open flames. Store in a cool, dry place. Do not use with compressed air.

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

2. PRODUCT OVERVIEW

The NEIKO 31214A Air Spray Paint Gun is a professional-quality High-Volume, Low-Pressure (HVLP) spray gun designed for precise paint application. It features a durable all-steel body, rust-resistant stainless-steel nozzle, and a solid brass cap, ensuring longevity and consistent performance.





Figure 1: NEIKO 31214A HVLP Air Spray Paint Gun with attached air regulator.

Key Features:

- **Heavy-Duty Construction:** One-piece all-steel gun body, rust-resistant stainless-steel nozzle, and solid brass cap for durability.
- **HVLP Technology:** High-Volume, Low-Pressure design for efficient paint transfer and reduced overspray.

- **1.5mm Nozzle:** Ideal for base coats, clear coats, and various automotive and household painting projects.
- **600cc Aluminum Cup:** Gravity-feed design with a 600cc (20.3 fl. oz) aluminum cup and lid.
- **Included Accessories:** Comes with a metal air gauge/regulator, cleaning brush, and a multi-size wrench for assembly/disassembly.

3. SETUP

3.1 Unpacking and Inspection

Carefully remove all components from the packaging. Inspect the spray gun and accessories for any signs of damage during transit. Ensure all listed components are present:

- HVLP Air Spray Gun body
- 600cc Aluminum Cup with lid
- Metal Air Gauge/Regulator
- Cleaning Brush
- Multi-size Wrench

3.2 Assembly

1. **Attach Air Regulator:** Screw the metal air gauge/regulator onto the air inlet at the bottom of the spray gun handle. Ensure it is hand-tightened securely.



Figure 2: Air regulator attached to the spray gun.

2. **Attach Gravity Feed Cup:** Screw the 600cc aluminum cup onto the top of the spray gun body. Ensure a tight seal to prevent leaks.





Figure 3: The 600cc aluminum cup for paint.

3. **Connect Air Hose:** Connect your air compressor hose to the air regulator.
4. **Prepare Paint:** Ensure your paint material is properly thinned and strained according to the paint manufacturer's recommendations. Pour the prepared paint into the gravity feed cup.

4. OPERATING INSTRUCTIONS

4.1 Air Pressure Settings

The recommended operating pressure for this spray gun is 40 PSI, with a working pressure of 10 PSI. The average air consumption is 4.5 CFM. Use the included air regulator to precisely adjust the air pressure to suit your specific paint material and project requirements.

Note: Different paint types and viscosities may require slight adjustments to air pressure for optimal atomization and spray pattern. Always test on a scrap surface before applying to your final project.

4.2 Adjusting Spray Pattern and Fluid Flow

The NEIKO 31214A features three adjustable valve knobs for precise control:

- **Fluid Control Knob:** Located at the back of the gun, this knob controls the amount of paint released. Turn clockwise to decrease fluid flow, counter-clockwise to increase.
- **Fan Pattern Control Knob:** Typically located on the side, this knob adjusts the shape of the spray pattern from a round spot to a wide fan.
- **Air Adjustment Knob:** Located near the air inlet, this knob fine-tunes the air pressure at the gun.



Figure 4: Side view illustrating the various adjustment knobs.

4.3 Spraying Technique

Maintain a consistent distance from the surface (typically 6-8 inches) and move the gun parallel to the surface. Overlap each pass by about 50% to ensure even coverage. Release the trigger at the end of each pass to avoid paint buildup.



Figure 5: Proper technique for using the spray gun.

5. MAINTENANCE

Proper cleaning and maintenance are crucial for the longevity and optimal performance of your NEIKO spray gun.

5.1 Cleaning After Each Use

1. **Empty Paint Cup:** Remove any remaining paint from the cup.
2. **Flush with Solvent:** 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.
3. **Disassemble:** Carefully disassemble the air cap, fluid nozzle, and needle. Use the multi-size wrench for assistance if needed.

- 4. **Clean Components:** Use the provided cleaning brush and solvent to thoroughly clean all paint-contacting parts. Pay special attention to the air cap holes and fluid nozzle.
- 5. **Clean Cup:** Clean the inside of the aluminum cup. Some users find that paint does not stick to the plastic cups as much, but thorough cleaning is always recommended.
- 6. **Dry and Reassemble:** Ensure all parts are completely dry before reassembling. For water-based paints, spraying a small amount of denatured alcohol through the gun after water can help evaporate residual moisture and prevent rust.

5.2 Long-Term Storage

For long-term storage, ensure the gun is completely clean and dry. Store in a cool, dry place to prevent rust and damage.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Inconsistent Spray Pattern / Spitting	Improper air pressure, paint too thick, clogged nozzle/air cap, loose components.	Adjust air pressure (start at 30-40 PSI), thin paint, clean nozzle/air cap, ensure all parts are tightened.
Paint Leaking from Air Cap Threads	Loose air cap, damaged threads, lack of sealant.	Ensure air cap is tightened. Consider using thread tape on the air cap threads if leaking persists.
Needle Not Returning Fully / Paint Dribbling	Dirty needle, stiff gasket, weak return spring.	Clean the needle and the area around the brass screw. If the spring is weak, it may need to be stretched slightly or replaced.
Rust Development	Improper drying after cleaning, high humidity.	After cleaning with water, spray denatured alcohol through the gun to displace water and promote quick drying. Ensure thorough drying before storage.

If issues persist, contact NEIKO customer support for further assistance.

7. SPECIFICATIONS

Attribute	Value
Brand	NEIKO
Model Name	31214A
Tank Volume	600 Milliliters (20.3 fl. oz)
Color	Green

Attribute	Value
Recommended Uses	Painting (Walls, Automotive, Home Improvement)
Material	Aluminum, Metal, Stainless-steel
Item Weight	0.01 Ounces <i>(Note: This value may be a data entry error)</i>
Product Dimensions	5.83"W x 8.94"H
Style	Paint Gun
Power Source	Air Powered
Included Components	Air Spray Gun, Aluminum Cup
Maximum Operating Pressure	40 PSI
Working Pressure	10 PSI
Average Air Consumption	4.5 CFM
Nozzle Size	1.5mm
UPC	837013312147
Manufacturer	Ridgerock Tools Inc.
Country of Origin	China
Special Features	Low Pressure, High Volume, Gravity Feed

8. WARRANTY AND SUPPORT

For specific warranty information regarding your NEIKO 31214A HVLP Air Spray Paint Gun, please refer to the documentation included with your purchase or contact the manufacturer directly.

Manufacturer: Ridgerock Tools Inc.

For technical support, parts, or service inquiries, please visit the official NEIKO website or contact their customer service department. Always provide your product model number (31214A) when seeking support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question