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› NEIKO 31216A HVLP Air Spray Paint Gun Instruction Manual (2.0mm Nozzle)

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Model: 31216A

PRODUCT OVERVIEW

The NEIKO 31216A HVLP (High Volume Low Pressure) Air Spray Paint Gun is designed for professional-quality paint application. Its gravity-feed fluid delivery system ensures smooth operation and consistent coverage with minimal overspray. This model features a 2.0mm nozzle, ideal for clear coats and various automotive and household painting tasks.

Key Features

- **Heavy-Duty Construction:** One-piece all-steel gun body with 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.
- **2.0mm Nozzle:** Optimized for clear coats and a wide range of paints for automotive and home improvement projects.
- **600cc Capacity Cup:** Includes an aluminum cup with lid (20.3 fl. oz) for ample paint supply.
- **Adjustable Controls:** Three adjustable valve knobs for precise control over fluid flow, spray pattern, and air pressure.
- **Integrated Air Gauge/Regulator:** For accurate air pressure monitoring and adjustment.



The NEIKO 31216A HVLP Air Spray Paint Gun, featuring its 2.0mm nozzle and gravity feed cup.

SAFETY INFORMATION

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

- Always use in a well-ventilated area.
- Avoid inhaling paint fumes. Use appropriate respiratory protection.
- Wear appropriate safety gear, including gloves and eye protection.
- Keep away from heat sources and open flames.
- Do not use with flammable materials unless specifically designed and rated for such use, and always follow manufacturer guidelines for the specific material.
- Always follow the manufacturer's instructions for safe operation and maintenance of both the spray gun and the coating material being used.
- Ensure all connections are secure before operating.

COMPONENTS OVERVIEW

Familiarize yourself with the parts of your NEIKO 31216A spray gun for proper assembly and operation.



An exploded view showing the main components: spray gun body, gravity feed cup, air regulator with gauge, cleaning brush, and multi-size wrench.

Included Components:

- HVLP Gravity Feed Air Spray Paint Gun (with 2.0mm nozzle)
- 600cc Aluminum Cup with Lid
- Metal Air Gauge/Regulator
- Cleaning Brush
- Multi-size Wrench for Assembly/Disassembly

SETUP INSTRUCTIONS

Proper setup is crucial for optimal performance and safety.

1. Assembly

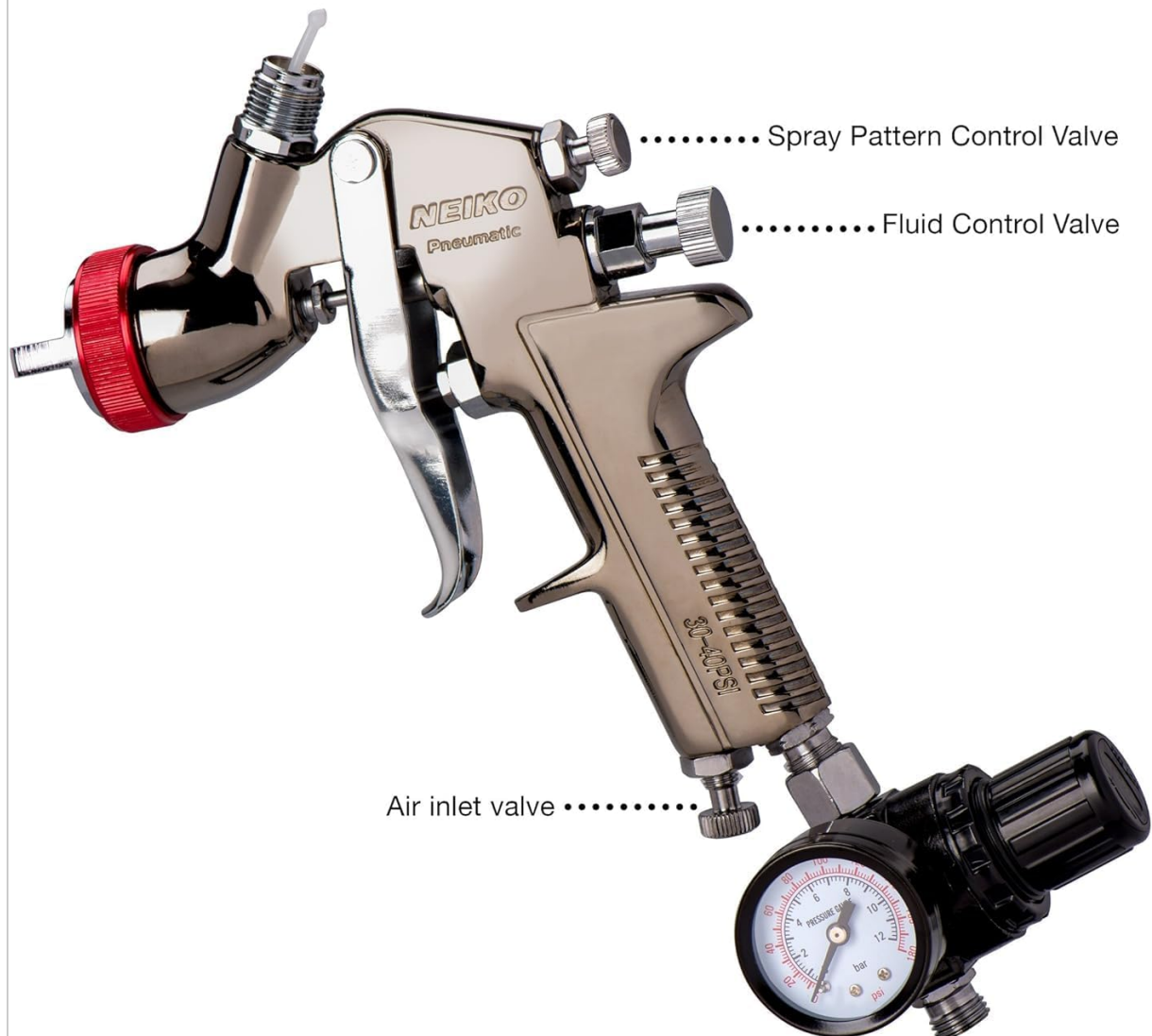
1. **Attach Air Regulator:** Screw the metal air gauge/regulator onto the air inlet valve at the bottom of the spray gun handle. Ensure it is hand-tightened securely.
2. **Attach Gravity Feed Cup:** Screw the 600cc aluminum cup onto the top of the spray gun body. Ensure a tight seal to prevent leaks.
3. **Connect Air Hose:** Connect your air compressor hose to the air regulator. Ensure the connection is secure and leak-free.

2. Paint Preparation

- Always refer to the paint manufacturer's instructions for recommended thinning ratios and suitable solvents.
- Thoroughly mix and thin your paint to the appropriate viscosity. Inadequate thinning can lead to poor atomization and an uneven finish.
- **Filter Paint:** Always filter your paint through a fine-mesh paint strainer before pouring it into the gravity feed cup. This prevents clogs in the nozzle and ensures a smooth finish.
- Fill the gravity feed cup with the prepared paint, ensuring not to overfill. Secure the cup lid.

ALL-IN-ONE

Features three adjustment valves and built-in air gauge for precision use



A user demonstrating the proper grip and angle for operating the spray gun, connected to an air hose and wearing safety gear.

OPERATING INSTRUCTIONS

Achieve optimal results by understanding and utilizing the spray gun's adjustable controls.

1. Adjusting Controls



Diagram illustrating the location of the Spray Pattern Control Valve, Fluid Control Valve, and Air Inlet Valve with gauge.

- **Air Pressure:** Set the operating air pressure to 40 PSI using the integrated air gauge/regulator. The working pressure at the air cap should be around 10 PSI. Adjust as needed for different materials and desired finish.
- **Fluid Control Valve:** Located at the rear of the gun, this knob controls the amount of paint flowing through

the nozzle. Turn clockwise to decrease fluid flow, counter-clockwise to increase.

- **Spray Pattern Control Valve:** Located on the side of the gun, this knob adjusts the shape of the spray pattern from a round spot to a wide fan. Turn clockwise for a narrower pattern, counter-clockwise for a wider pattern.
- **Test Spray:** Before applying to your workpiece, always perform a test spray on a scrap piece of material to fine-tune your settings and ensure the desired pattern and coverage.

2. Spraying Technique

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

MAINTENANCE AND CLEANING

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

1. Disassembly for Cleaning

1. Disconnect the air supply.
2. Empty any remaining paint from the cup.
3. Remove the gravity feed cup.
4. Unscrew the air cap and fluid nozzle. Use the provided multi-size wrench if necessary, but be careful not to overtighten during reassembly.
5. Remove the fluid needle by loosening the fluid control knob and pulling the needle out from the rear.

2. Cleaning Procedure

- Use appropriate cleaning solvent (e.g., paint thinner for oil-based paints, water for water-based paints).
- Clean all disassembled parts thoroughly using the provided cleaning brush. Pay special attention to the air cap, fluid nozzle, and fluid needle to remove all paint residue.
- Clean the inside of the paint cup.
- Never use metal objects to clean the nozzle or air cap holes, as this can damage them.
- Rinse all parts with clean solvent/water.

3. Lubrication and Storage

- Apply a small amount of spray gun lubricant to the fluid needle packing and air valve packing before reassembly.
- Reassemble the gun, ensuring all parts are correctly seated and tightened. Do not overtighten.
- Store the spray gun in a clean, dry place.



CARRYING CAPACITY

Holds 600cc and features protective lid to prevent spillage

The durable, one-piece steel construction of the spray gun, designed for longevity and ease of maintenance.

TROUBLESHOOTING GUIDE

Refer to this guide for common issues and their solutions.

Problem	Possible Cause	Solution
Poor spray pattern / Uneven coverage	Improper paint thinning; Clogged nozzle/air cap; Incorrect air pressure; Damaged air cap.	Adjust paint viscosity; Clean nozzle/air cap; Adjust air pressure to 40 PSI; Inspect and replace damaged parts.
No paint flow	Clogged nozzle/fluid passage; Fluid control knob closed; No paint in cup; Air vent in cup lid blocked.	Clean all fluid passages; Open fluid control knob; Refill cup; Clear air vent.
Paint leaks from nozzle	Loose fluid nozzle; Damaged fluid needle packing; Fluid needle not seating properly.	Tighten fluid nozzle; Replace fluid needle packing; Clean fluid needle and seat.

Problem	Possible Cause	Solution
Air leaks from connections	Loose fittings; Damaged O-rings/seals.	Tighten all connections; Inspect and replace O-rings/seals as needed.
Control knobs are stiff	Lack of lubrication; Paint residue buildup.	Disassemble and clean thoroughly; Apply spray gun lubricant to threads and moving parts.

TECHNICAL SPECIFICATIONS

Specification	Detail
Model Name	31216A
Nozzle Size	2.0 mm
Tank Volume	600 Milliliters (20.3 fl. oz)
Operating Pressure	40 PSI
Working Pressure (at air cap)	10 PSI
Average Air Consumption	4.5 CFM
Material	Aluminum, Stainless Steel, Metal
Power Source	Air-powered
Included Components	Air Spray Gun, Aluminum Cup, Air Gauge/Regulator, Cleaning Brush, Wrench

WARRANTY AND CUSTOMER SUPPORT

NEIKO tools are designed and manufactured for durability and reliable performance. While specific warranty details are not provided in this manual, NEIKO stands behind the quality of its products.

For any questions regarding product operation, maintenance, troubleshooting, or warranty claims, please contact NEIKO customer support through their official website or the retailer where the product was purchased. Please have your model number (31216A) and purchase information ready when contacting support.