

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [Master Airbrush](#) /
- › [Master Airbrush PRO-55 Series HVLP Pressure Feed Spray Gun 1.2mm Tip User Manual](#)

Master Airbrush PRO-55

Master Airbrush PRO-55 Series HVLP Pressure Feed Spray Gun 1.2mm Tip User Manual

Model: PRO-55 | Tip Size: 1.2mm

1. INTRODUCTION AND OVERVIEW

The Master Airbrush PRO-55 Series HVLP Pressure Feed Spray Gun with a 1.2mm fluid tip is engineered for professional painting applications. This high-performance tool is suitable for a wide range of coatings, including automotive basecoats, clearcoats, primers, and various industrial and woodworking finishes. Its design focuses on superior paint atomization and an ideal fan pattern for consistent, high-quality results. Key features include a coaxial linear air valve for smooth trigger action, a unique no O-ring design for chemical agent compatibility and easy maintenance, and advanced atomization technology for optimal performance with all paint types, including waterborne coatings.

MASTER[®]

ELITE SERIES

1.2 MM NEEDLE HVLP PRESSURE FEED SPRAY GUN

PRO-55

Coaxial linear air valve

- Gives a smooth, kick-free trigger action
- Easy cleaning and maintenance

HVLP technology

- Advanced superior atomization technology
- Perfect performance for all coatings

No O-ring design

- Chemical agent friendly, durable and extremely easy cleaning and maintenance

Pressure Feed Function

- Precision engineered high grade stainless steel components designed to work with industry standard HVLP Hoses

Professional high flow air pressure regulator with gauge

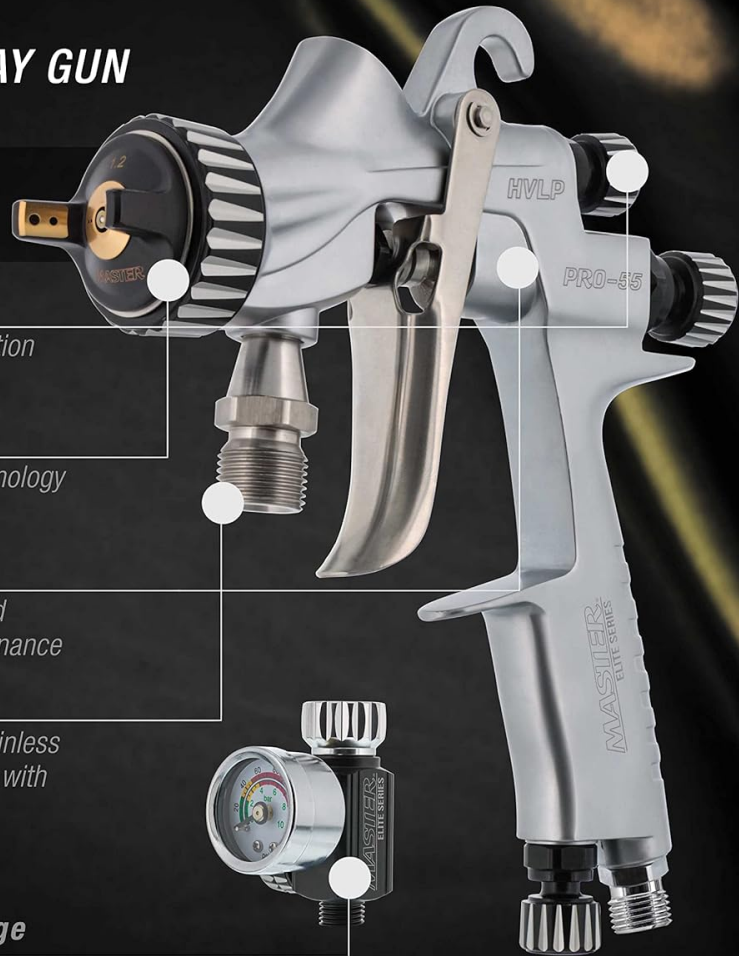


Figure 1.1: Overview of the Master Airbrush PRO-55 Series HVLP Spray Gun, highlighting its coaxial linear air valve, HVLP technology, no O-ring design, pressure feed function, and professional high-flow air pressure regulator with gauge.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- Always wear appropriate personal protective equipment (PPE), including gloves, safety goggles, and a respirator, when operating the spray gun.
- Ensure adequate ventilation in the work area to prevent inhalation of paint fumes.
- Avoid direct contact with skin and eyes. In case of contact, flush immediately with water and seek medical attention.
- Do not ingest paint or cleaning solvents.
- Keep the spray gun and all associated materials away from heat sources, open flames, and sparks.
- Always disconnect the air supply before performing any maintenance, cleaning, or assembly tasks.
- Ensure all connections are secure before operating the spray gun.
- Dispose of paint, solvents, and cleaning materials according to local environmental regulations.

- Do not use the spray gun with incompatible materials or for purposes other than its intended use.

3. PACKAGE CONTENTS

Carefully unpack the box and ensure all the following items are present:

- Master Airbrush PRO-55 Series HVLP Pressure Feed Spray Gun (1.2mm tip installed)
- Professional High-Flow Air Pressure Regulator with Gauge
- Gun Maintenance Wrench
- Cleaning Brush
- Gun Coupler Plug
- Instruction Manual (this document)

ALSO INCLUDES:



Gun Cleaning Brush

Gun Maintenance Wrench

Gun Coupler Plug

Cup Filter

Detailed Instruction Manual

**DESIGNED TO WORK WITH
MAS AHP HOSES**



MAS Elite PRO-55 is a perfectly crafted pressure feed spray gun and is designed to work with the MAS AHP double-walled & insulated fluid hoses.

MAS AHP High Pressure Hoses for fluid delivery are Not included, but are Available Separately



Figure 3.1: Included accessories with the Master Airbrush PRO-55 spray gun, designed to assist with setup and maintenance.

4. SETUP

Follow these steps for initial setup of your PRO-55 spray gun:

1. **Attach Air Pressure Regulator:** Screw the professional high-flow air pressure regulator with gauge onto the air inlet at the bottom of the spray gun handle. Ensure it is hand-tightened securely.
2. **Connect Air Supply:** Attach your air hose (not included) to the gun coupler plug, then connect the coupler plug to the air pressure regulator. Ensure all connections are airtight.
3. **Prepare Fluid Container:** For pressure feed systems, ensure your fluid container (not included) is properly sealed and connected to the fluid inlet of the spray gun via a suitable fluid hose (not included).
4. **Initial Inspection:** Before first use, inspect the fluid tip, needle, and air cap for any debris or damage. Ensure they are clean and properly seated.



Figure 4.1: Detailed view of the PRO-55 spray gun components and adjustment knobs, including the 1.2mm fluid tip, airflow control knob, fluid control knob, and air inlet with regulator.

5. OPERATION

Achieving optimal results requires proper technique and adjustment:

1. **Prepare Coating Material:** Ensure your paint or coating material is properly mixed and thinned according to the manufacturer's specifications. Strain the material to remove any particles that could clog

the gun.

2. **Fill Fluid Container:** Fill your pressure pot or fluid container with the prepared coating material.
3. **Adjust Air Pressure:** Connect the air supply and set the desired air pressure using the regulator gauge. Recommended pressure will vary based on the coating material and desired finish. Start with the manufacturer's recommended pressure for your specific coating.
4. **Adjust Fluid Control:** The fluid control knob (located at the rear of the gun) regulates the amount of fluid flow. Turn it clockwise to decrease fluid flow and counter-clockwise to increase it.
5. **Adjust Fan Pattern:** The airflow control knob (located on the side of the gun) adjusts the fan pattern from a round spot to a wide fan. Experiment on a test surface to achieve the desired pattern.
6. **Test Spray:** Always test the spray pattern and fluid output on a scrap piece of material before applying to your actual workpiece. Adjust settings as needed.
7. **Spraying Technique:** Maintain a consistent distance from the surface (typically 6-8 inches) and move the gun at a steady speed, overlapping each pass by approximately 50%. Release the trigger at the end of each pass.



Figure 5.1: The Master Airbrush PRO-55 spray gun in action, demonstrating its use for applying coatings with precision and control.

6. MAINTENANCE

Regular cleaning and maintenance are crucial for the longevity and performance of your spray gun:

- 1. Immediate Cleaning After Use:** After each use, empty any remaining coating material from the fluid container. Flush the spray gun with an appropriate cleaning solvent (e.g., paint thinner for oil-based paints, water for waterborne paints) until the solvent sprays clear.
- 2. Disassembly for Thorough Cleaning:** Disconnect the air supply. Carefully remove the air cap, fluid tip, and fluid needle. Use the provided cleaning brush and appropriate solvent to clean all components thoroughly. Pay special attention to the air passages and fluid channels.
- 3. No O-Ring Design:** The PRO-55 features a unique no O-ring design, making it chemical agent-friendly and simplifying cleaning. Ensure all surfaces are free of paint residue.
- 4. Reassembly:** Once all components are clean and dry, reassemble the spray gun. Ensure the fluid needle is properly seated and the fluid tip and air cap are tightened securely but not overtightened.
- 5. Lubrication:** Apply a small amount of spray gun lubricant (not included) to the fluid needle packing and trigger pivot points as needed to ensure smooth operation.
- 6. Storage:** Store the clean and dry spray gun in a protective case or a clean, dry environment to prevent damage and contamination.

7. TROUBLESHOOTING

This section addresses common issues you might encounter during operation:

Problem	Possible Cause	Solution
Pulsating or inconsistent spray	Low fluid level, clogged fluid passage, loose fluid tip, insufficient air pressure.	Check fluid level, clean fluid tip and passages, tighten fluid tip, increase air pressure.
Poor atomization (heavy droplets)	Insufficient air pressure, paint too thick, clogged air cap holes.	Increase air pressure, thin paint, clean air cap holes.
Fan pattern distorted or uneven	Clogged air cap horns, damaged air cap, fluid tip partially blocked.	Clean air cap horns, replace damaged air cap, clean fluid tip.
Fluid leaking from fluid tip	Fluid needle not seating properly, damaged fluid tip, fluid control knob too loose.	Inspect and clean fluid needle and seat, replace damaged fluid tip, tighten fluid control knob.
Air leaking from air cap	Loose air cap, damaged air cap threads.	Tighten air cap, replace damaged air cap.

8. SPECIFICATIONS

Feature	Specification
---------	---------------

Feature	Specification
Model Number	PRO-55
Brand	Master Airbrush
Fluid Tip Size	1.2mm
Spray Gun Type	HVLP Pressure Feed
Material	Stainless Steel Components
Weight	Approximately 549 g (1.21 lbs)
Special Features	High Volume, Lightweight, Low Pressure, No O-Ring Design, Waterborne Compatible
Recommended Uses	Automotive, Industrial, Woodworking Coatings
Included Components	Regulator with gauge, wrench, cleaning brush, coupler plug

9. WARRANTY AND SUPPORT

Master Airbrush products are designed for durability and performance. For specific warranty details, please refer to the documentation included with your purchase or visit the official Master Airbrush website. For technical support, replacement parts, or further assistance, please contact Master Airbrush customer service through their official channels.