

## 3M 26778

# 3M Performance Spray Gun Starter Kit 26778

Instruction Manual

## 1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of the 3M Performance Spray Gun Starter Kit, Model 26778. This kit is designed for professional painters and includes the 3M Performance Spray Gun, PPS Series 2.0 Paint Spray Cup System, and various replaceable Gravity HVLP Atomizing Heads. The system is engineered to optimize paint application for automotive coatings, including solid colors, pearls, metallics, clearcoats, sealers, and primers.

The 3M Performance Spray Gun features a lightweight, impact-resistant composite body reinforced with stainless steel, and a unique replaceable nozzle system that prevents paint from passing through the gun body, simplifying cleaning and reducing cross-contamination risks.

## 2. IMPORTANT SAFETY INFORMATION

**WARNING:** This product is intended for industrial and professional use only. It is not designed or packaged for consumer sale or use. Users must be trained professionals and operate the equipment in compliance with all relevant regulations and standards (e.g., OSHA, ANSI), as well as all product documentation, instructions for use, warnings, and restrictions.

Improper use of 3M industrial and commercial products can lead to injury, illness, or death. Consult your safety professionals, industrial hygienists, or other local experts for assistance with product selection and use. For additional product information, visit [www.3M.com](http://www.3M.com).

- Always wear appropriate personal protective equipment (PPE), including respiratory protection, eye protection, and gloves, when operating the spray gun.
- Ensure adequate ventilation in the work area to prevent inhalation of hazardous fumes.
- Never point the spray gun at yourself or others.
- Disconnect the air supply before performing any maintenance, cleaning, or changing components.
- Use only genuine 3M replacement parts and accessories.
- Dispose of waste materials, including used atomizing heads and PPS cups, according to local environmental regulations.

## 3. KIT COMPONENTS

The 3M Performance Spray Gun Starter Kit 26778 includes the following items:

- 1 x 3M Performance Spray Gun body
- 15 x Gravity HVLP Atomizing Heads (5 each of sizes 1.2, 1.3, and 1.4)

- 1 x 3M PPS Series 2.0 Cup
- 5 x Standard size disposable liners
- 4 x Standard size disposable lids with 200 micron filter
- 1 x Standard size disposable lid with 125 micron filter
- 3 x Sealing plugs
- 1 x Locking collar
- 1 x Airflow control valve



*Image 1: All components of the 3M Performance Spray Gun Starter Kit 26778, including the spray gun, multiple atomizing heads, PPS cups, liners, and lids.*



Image 2: A closer view of the 3M Performance Spray Gun, PPS Series 2.0 cup, and various atomizing heads.

## 4. SETUP INSTRUCTIONS

1. **Attach Airflow Control Valve:** Connect the airflow control valve to the air inlet of the spray gun body. Ensure a secure, airtight connection.
2. **Select Atomizing Head:** Choose the appropriate atomizing head size (1.2, 1.3, or 1.4) based on the coating material and desired finish.
3. **Attach Atomizing Head:** Align the selected atomizing head with the front of the spray gun body. Secure it by turning the quick-turn locking collar until it is firmly in place.
4. **Assemble PPS Series 2.0 Cup:**
  - Insert a disposable liner into the PPS Series 2.0 Cup.
  - Pour the prepared coating material into the liner.
  - Select the appropriate disposable lid (200 micron for most coatings, 125 micron for finer finishes) and snap it onto the liner.
  - Attach the assembled PPS cup system to the spray gun body. Ensure the lid's connection point aligns with the atomizing head.
5. **Connect Air Supply:** Connect your air compressor hose to the airflow control valve. Ensure the air pressure is set according to the coating manufacturer's recommendations and the spray gun's specifications (maximum 130.53 PSI).



*Image 3: The 3M Performance Spray Gun and its components, illustrating how they fit together during assembly.*

## 5. OPERATING INSTRUCTIONS

The 3M Performance Spray Gun is designed for high transfer efficiency and a large, adjustable fan pattern, providing a smooth trigger pull for consistent application.

1. **Adjust Air Pressure:** Use the airflow control valve to fine-tune the air pressure to achieve the desired spray pattern and atomization for your specific coating. Refer to the coating manufacturer's data sheet for recommended pressure settings.
2. **Adjust Fan Pattern:** The spray gun allows for adjustment of the fan pattern. Consult the gun's specific controls for widening or narrowing the spray.
3. **Test Spray:** Before applying to the final surface, perform a test spray on a scrap piece of material to verify the spray pattern, atomization, and fluid output. Adjust settings as necessary.
4. **Application:** Maintain a consistent distance and speed while spraying to ensure an even coating. Overlap each pass by approximately 50% for uniform coverage.
5. **Trigger Control:** Engage the trigger fully for consistent spray. Release the trigger at the end of each pass to avoid excessive material buildup.

## 6. MAINTENANCE AND CLEANING

One of the key advantages of the 3M Performance Spray Gun system is its simplified cleaning process, as paint does not pass through the gun body.

1. **Disconnect Air Supply:** Always disconnect the air supply from the spray gun before cleaning or disassembling.
2. **Remove PPS Cup System:** Detach the PPS Series 2.0 Cup system from the spray gun body.
3. **Dispose of Liner and Lid:** Remove the disposable liner and lid containing any remaining coating material. Dispose of these components according to local environmental regulations.
4. **Remove Atomizing Head:** Unscrew the locking collar and remove the atomizing head.
5. **Clean Atomizing Head:** The atomizing head can be cleaned with appropriate solvent or cleaning solution. Ensure all paint residue is removed from the nozzles and air passages. Allow to dry completely.
6. **Clean Spray Gun Body:** Wipe down the exterior of the spray gun body with a clean cloth dampened with solvent, if necessary. Since paint does not pass through the gun body, internal cleaning is generally not required.
7. **Storage:** Store the spray gun and components in a clean, dry environment.

*Note: The replaceable atomizing heads are designed for multiple uses, provided they are cleaned thoroughly after each use.*

## 7. TROUBLESHOOTING

This section addresses common issues that may arise during the operation of the 3M Performance Spray Gun. For more complex problems, contact 3M technical support.

Problem	Possible Cause	Solution
Poor spray pattern or inconsistent atomization	Incorrect air pressure; clogged atomizing head; improper material viscosity.	Adjust air pressure; clean or replace atomizing head; adjust material viscosity according to manufacturer's recommendations.
Paint leaking from atomizing head	Atomizing head not securely attached; damaged atomizing head or seal.	Ensure locking collar is tight; inspect atomizing head for damage and replace if necessary.
No paint flow	Clogged atomizing head; empty PPS liner; air supply disconnected.	Clean or replace atomizing head; refill PPS liner; check air supply connection.
Excessive overspray	Too high air pressure; incorrect fan pattern adjustment; gun too far from surface.	Reduce air pressure; adjust fan pattern; maintain proper gun-to-surface distance.

## 8. SPECIFICATIONS

Feature	Detail
Brand	3M
Model Name	26778
Style	Gravity Cup Kit
Recommended Uses	Car painting, application of car coatings
Material	Stainless Steel (reinforced composite body)
Item Weight	2.24 Kilograms (approx. 4.93 pounds)
Product Dimensions	9.45 x 7.09 x 9.06 inches
Maximum Pressure	130.53 Pound per Square Inch (PSI)
Special Features	High Volume, Low Pressure (HVLP) technology, Replaceable Nozzles, PPS 2.0 System
Included Components	Performance Spray Gun, 15 Atomizing Heads, PPS 2.0 Cup System (liners, lids, plugs), Air Control Valve

## 9. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or service, please contact 3M directly through their official website or customer service channels. Ensure you have your product model number (26778) and purchase details available when contacting support.

Visit [www.3M.com](http://www.3M.com) for further details and contact information.

