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› [SPRAYIT SP-33000 LVLP Gravity Feed Spray Gun User Manual](#)

SPRAYIT SP-33000

SPRAYIT SP-33000 LVLP Gravity Feed Spray Gun

User Instruction Manual

1. INTRODUCTION

Thank you for choosing the SPRAYIT SP-33000 LVLP Gravity Feed Spray Gun. This manual provides essential information for the safe and effective use, maintenance, and troubleshooting of your new spray gun. The SP-33000 is designed for a variety of applications, including automotive, industrial, marine, and woodworking, offering precise control and reduced overspray due to its Low Volume Low Pressure (LVLP) technology. Please read this manual thoroughly before operation.





Figure 1: SPRAYIT SP-33000 LVLP Gravity Feed Spray Gun with gravity feed cup.

2. SAFETY INFORMATION

WARNING: Always prioritize safety when operating the spray gun. Failure to follow these instructions may result in serious injury or property damage.

- Handle with extreme care due to the presence of pressurized liquids and potential exposure to hazardous chemicals.
- Always wear appropriate personal protective equipment (PPE), including but not limited to, safety glasses, respirators, gloves, and protective clothing.
- Ensure adequate ventilation in the work area to prevent the buildup of hazardous fumes.
- Never point the spray gun at yourself or others.
- Disconnect the air supply before cleaning, performing maintenance, or changing components.
- Follow all manufacturer instructions for the specific coatings and cleaning agents used.

3. PRODUCT OVERVIEW

The SPRAYIT SP-33000 features a lightweight aluminum body and a 20 oz. (0.6 L) plastic gravity feed cup. Its stainless steel fluid

needle and nozzle are corrosion resistant, ensuring durability and consistent performance. The gun is equipped with separate and adjustable controls for fluid, fan pattern, and air, allowing for precise application.

Key Features:

- One-piece lightweight aluminum gun body with 20 oz./0.6 l plastic cup.
- Separate and adjustable fluid, fan pattern, and air controls for precise application.
- Air consumption: 3.5 to 3.9 CFM @ 30 PSI.
- Working pressure: 28-45 PSI. Maximum pressure: 60 PSI.
- Fan Pattern: 7.0" to 10.9".



Figure 2: Side view of the spray gun, showing the ergonomic handle and control knobs.

4. SETUP

Proper setup is crucial for optimal performance and safety.

- 1. Unpacking and Inspection:** Carefully remove all components from the packaging. Inspect the spray gun and accessories for any signs of damage. Ensure all parts listed in the packaging are present.
- 2. Attaching the Gravity Feed Cup:** Securely screw the 20 oz. (0.6 L) plastic cup onto the top of the spray gun body. Ensure a tight seal to prevent leaks.
- 3. Nozzle and Needle Installation:** The spray gun typically comes with a 1.5mm nozzle installed. If changing the nozzle or needle, ensure the air cap, fluid nozzle, and fluid needle are correctly matched and installed. Use the provided wrench to loosen or tighten the nozzle. Some nozzles may be very tight from the factory and require firm but careful force to loosen.
- 4. Air Compressor Connection:** Connect the spray gun to your air compressor using a suitable air hose. The spray gun includes a pressure regulator; attach this to the air inlet of the gun. Ensure all connections are secure and leak-free.





Figure 3: Close-up view of the spray gun, highlighting the adjustable controls for fluid, fan, and air.

5. OPERATING INSTRUCTIONS

Follow these steps for effective operation of your SPRAYIT SP-33000.

- 1. Prepare the Coating Material:** Ensure your paint or coating material is properly mixed and thinned according to the manufacturer's recommendations. For optimal flow and finish, especially with thicker materials like primers, slight dilution with appropriate thinner (e.g., water for water-based paints, or Floetrol) may be necessary. Strain the material to remove any particles that could clog the gun.
- 2. Fill the Gravity Cup:** Pour the prepared coating material into the gravity feed cup. Do not overfill.
- 3. Adjust Air Pressure:** Set your air compressor to provide the recommended working pressure of 28-45 PSI at the gun. The gun's integrated pressure regulator should be used for fine-tuning. Ensure the air flow control knob (typically on the bottom of the handle) is fully open. Adjust the pressure using the regulator's knob until the gauge needle is within the white zone, indicating the optimal pressure range. The maximum pressure for this gun is 60 PSI.
- 4. Adjust Fluid and Fan Controls:**
 - Fluid Control:** Adjust the fluid control knob (usually at the back of the gun) to regulate the amount of material flowing through the nozzle.
 - Fan Pattern Control:** Adjust the fan pattern control knob (typically on the side) to change the shape and size of the spray pattern, from a narrow circle to a wide fan (7.0" to 10.9").
- 5. Test Spray:** Before applying to your workpiece, perform a test spray on a piece of scrap material. Adjust the fluid, fan, and air pressure settings until you achieve a consistent, even spray pattern without spitting or excessive overspray.
- 6. Application Technique:** Maintain a consistent distance from the workpiece (typically 6-8 inches) and move the gun at a steady, even pace. Overlap each pass by approximately 50% to ensure uniform coverage. For best results, apply multiple thin coats rather than one thick coat.

6. MAINTENANCE

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

- 1. Immediate Cleaning After Use:** Disconnect the air supply. Empty any remaining material from the gravity cup. Pour appropriate cleaning solution (e.g., warm water for water-based paints, or paint thinner for oil-based paints) into the cup and spray it through the gun until clear.
- 2. Disassembly and Detailed Cleaning:** Disassemble the air cap, fluid nozzle, and fluid needle. Use the provided cleaning brushes to thoroughly scrub all components, paying special attention to the small air holes in the air cap and the nozzle tip. Ensure all paint residue is removed.
- 3. Cup Cleaning:** Clean the inside and outside of the gravity cup. If the plastic cup shows signs of cracking, replace it with a compatible part to prevent leaks.
- 4. Drying and Reassembly:** Allow all parts to dry completely before reassembling the gun. Lubricate moving parts, such as the fluid needle, with a small amount of non-silicone lubricant if necessary.
- 5. Storage:** Store the clean and dry spray gun in a safe, dry place away from extreme temperatures.

7. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Paint spitting or inconsistent flow	Material too thick; clogged nozzle/air cap; insufficient air pressure; loose fluid nozzle.	Thin material appropriately; clean nozzle and air cap thoroughly; increase air pressure to recommended range; tighten fluid nozzle.
Uneven spray pattern or large drops	Incorrect air pressure; partially clogged air cap horns; damaged nozzle.	Ensure consistent air pressure; clean air cap horns; inspect and replace damaged nozzle if necessary.
Excessive overspray	Too high air pressure; gun too far from surface; incorrect fan pattern setting.	Reduce air pressure; move gun closer to workpiece; adjust fan pattern for optimal coverage.
Paint leaks from cup or connections	Loose cup or connections; damaged cup or seals.	Tighten all connections; inspect and replace damaged cup or seals.
Nozzle difficult to remove/install	Factory overtightening; paint residue buildup.	Use appropriate wrench and firm, steady force; ensure gun is clean before disassembly.

8. SPECIFICATIONS

Detailed technical specifications for the SPRAYIT SP-33000 LVLP Gravity Feed Spray Gun.

Specification	Value
Brand	SPRAYIT
Model Name	SP-33000
Style	LVLP SPRAY GUN
Power Source	Air-Powered
Tank Volume	0.6 Liters (20 oz.)
Material	Aluminum, Stainless Steel, Plastic

Specification	Value
Color	Silver metallic
Recommended Uses	Painting
Air Consumption	3.5 to 3.9 CFM @ 30 PSI
Working Pressure	28-45 PSI
Maximum Pressure	60 PSI
Fan Pattern	7.0" to 10.9"
Included Components	1.5mm Dia. Nozzle
Item Weight	2.18 pounds (0.99 Kilograms)
Product Dimensions	6"W x 13"H
UPC	743369330004

9. WARRANTY AND SUPPORT

The SPRAYIT SP-33000 LVLP Gravity Feed Spray Gun comes with a **1 Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or replacement parts, please contact SPRAYIT customer service. Keep your proof of purchase for warranty validation.

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Model: SP-33000