DeVilbiss DEV802789

DeVilbiss 802789 Complete Spraying System User Manual

For Automotive Primer, Finish Coats, and Touch-Up Applications

1. Introduction

Thank you for choosing the DeVilbiss 802789 Complete Spraying System. This kit is designed for professional and enthusiast use in automotive refinishing, providing high-quality application for primer, finish coats, and touch-up work. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your new spray gun system. Please read this manual thoroughly before initial use and retain it for future reference.

2. Safety Information

Your safety is paramount. Always adhere to the following safety guidelines when operating the DeVilbiss 802789 Spraying System:

- **Use protective equipment:** Always wear appropriate personal protective equipment (PPE), including respirators, safety glasses, gloves, and protective clothing, to prevent exposure to paint fumes and overspray.
- **Avoid skin and eye contact with spray:** Direct contact with paint or solvents can cause irritation or chemical burns. In case of contact, flush immediately with water and seek medical attention.
- **Handle pressurized liquids carefully:** The system operates under pressure. Ensure all connections are secure and never point the spray gun at yourself or others. Relieve pressure before disassembling any part of the system.
- **Operate mechanically with caution:** Be aware of moving parts and potential pinch points. Ensure the work area is well-ventilated to prevent the accumulation of flammable vapors.
- **Read material safety data sheets (MSDS):** Always consult the MSDS for the specific paints and solvents you are using for detailed safety precautions and handling instructions.

3. Product Overview

The DeVilbiss 802789 kit is a 3-gun system designed for versatility in automotive painting. It includes:

- One HVLP Spray Gun (primer) with a 1.8mm fluid tip.
- One HVLP Spray Gun (finish coats) with a 1.3mm fluid tip.

- One HVLP Touch-Up Spray Gun with a 1.0mm fluid tip.
- Two 600cc (20 oz) cups for the larger guns.
- One 100cc (4 oz) plastic cup for the touch-up gun.
- Cleaning brushes and wrench.
- Air adjusting valve with gauge.

Figure 3.1: Overview of the DeVilbiss 802789 Complete Spraying System, showing the three spray guns (primer, finish, touch-up), two large metal cups, one small plastic cup, an air pressure gauge, cleaning brushes, and a wrench.

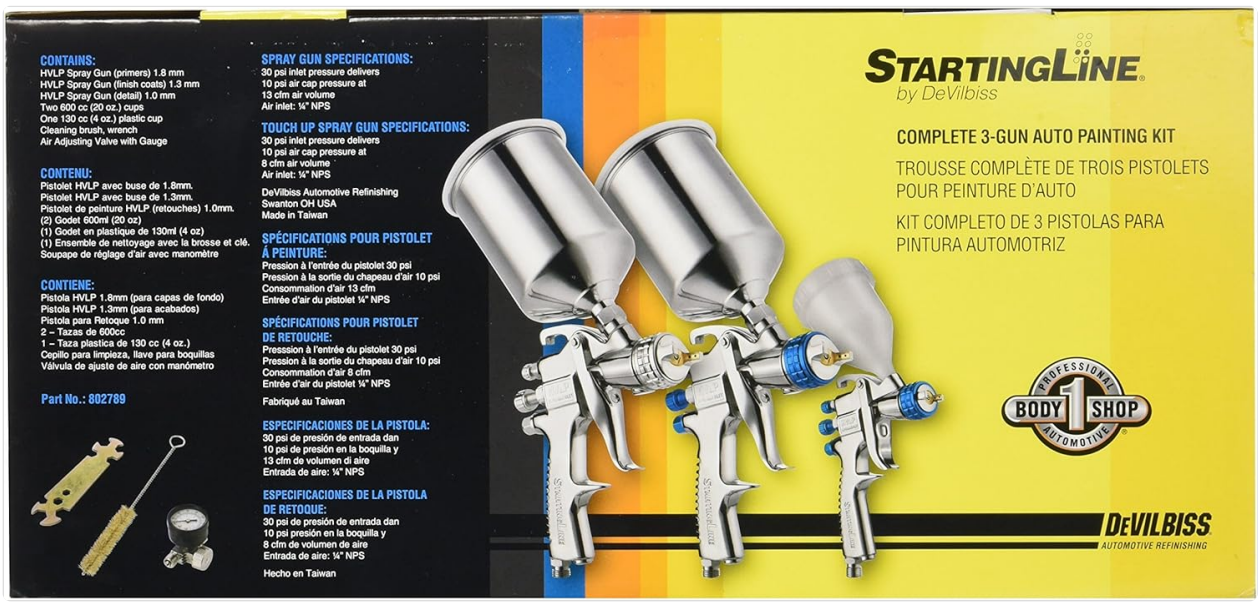


Figure 3.2: Product packaging displaying the DeVilbiss 802789 kit contents and key specifications for each spray gun, including inlet pressure and air volume.

Figure 3.3: Image illustrating the approximate dimensions of the DeVilbiss 802789 product packaging, indicating a height of 8.3 inches (20 cm).

4. Setup

Proper setup is crucial for optimal performance and safety.

1. **Prepare the Work Area:** Ensure the painting area is clean, well-ventilated, and free from dust and contaminants. Use drop cloths or masking to protect surrounding surfaces.
2. **Connect Air Supply:** Attach the air adjusting valve with gauge to the spray gun's air inlet. Connect a clean, dry air hose from your compressor to the air adjusting valve. Ensure your air compressor can provide sufficient CFM (Cubic Feet per Minute) and PSI (Pounds per Square Inch) for the chosen spray gun (refer to specifications). An air dryer/filter is highly recommended to prevent moisture and oil from entering the paint.
3. **Prepare Material:** Mix your paint or primer according to the manufacturer's instructions. Strain the material to remove any particles that could clog the gun. Fill the appropriate cup (600cc for primer/finish, 100cc for touch-up) with the prepared material. Do not overfill.
4. **Attach Cup:** Securely attach the filled material cup to the spray gun.
5. **Initial Air Pressure Setting:** With the air supply connected and the gun not spraying, set the air pressure at the gun's inlet using the included gauge. Refer to the specifications section for recommended inlet pressures for each gun type.

5. Operating Instructions

Achieving a professional finish requires understanding the spray gun's adjustments and proper technique.

5.1 Adjustments

- **Fluid Control Knob:** Located at the back of the gun, this knob controls the amount of material flowing through the gun. Turn clockwise to decrease fluid, counter-clockwise to increase.

- **Fan Pattern Control Knob:** Typically located on the side of the gun, this knob adjusts the shape of the spray pattern from round to wide fan. Turn clockwise for a narrower pattern, counter-clockwise for a wider pattern.
- **Air Cap:** The air cap determines the atomization and pattern. Ensure it is clean and correctly oriented.

5.2 Spraying Technique

1. **Test Spray:** Always perform a test spray on a piece of scrap material to check the pattern, atomization, and fluid output before painting your actual workpiece. Adjust settings as needed.
2. **Distance:** Maintain a consistent distance from the surface, typically 6-8 inches (15-20 cm), depending on the material and desired finish.
3. **Movement:** Move the gun parallel to the surface in smooth, even strokes. Overlap each pass by about 50% to ensure uniform coverage.
4. **Trigger Control:** Fully depress the trigger at the beginning of each stroke and release at the end. Avoid fanning the gun at the wrist, which can lead to uneven coverage.
5. **Multiple Coats:** Apply multiple thin coats rather than one thick coat to prevent runs and sags. Allow appropriate flash-off time between coats as recommended by the paint manufacturer.

6. Maintenance

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

1. **Immediate Cleaning:** Clean the spray gun immediately after each use. Disconnect the air supply and empty any remaining material from the cup.
2. **Flush the Gun:** Pour appropriate cleaning solvent (e.g., lacquer thinner for solvent-based paints, water for water-based paints) into the cup and spray it through the gun until it runs clear.
3. **Disassemble and Clean:** Disassemble the air cap, fluid tip, and needle. Use the provided cleaning brushes and solvent to thoroughly clean all components. Pay special attention to the small holes in the air cap. Never use metal objects to clean the fluid tip or air cap as this can damage them.
4. **Clean the Cup:** Wash the material cup thoroughly with solvent and a brush.
5. **Lubrication:** Apply a small amount of spray gun lubricant to the needle packing and air valve packing after cleaning to ensure smooth operation and prevent wear.
6. **Reassembly and Storage:** Reassemble the gun carefully, ensuring all parts are tightened correctly. Store the gun in a clean, dry place, preferably hanging to prevent damage to the fluid tip.

7. Troubleshooting

This section addresses common issues you might encounter and their potential solutions.

Problem	Possible Cause	Solution
Pulsating Spray / Spitting	Low material in cup, loose fluid tip/air cap, clogged fluid passage, air leak in cup.	Refill cup, tighten components, clean fluid passage, check cup lid seal.
Uneven Spray Pattern (Heavy Top/Bottom)	Partially clogged air cap horn, damaged air cap.	Clean air cap horns, replace damaged air cap.

Problem	Possible Cause	Solution
Uneven Spray Pattern (Heavy Sides)	Partially clogged center hole of air cap, fluid tip obstruction.	Clean air cap center hole, clean fluid tip.
Excessive Overspray / Poor Atomization	Too high air pressure, material too thick, worn fluid tip/needle.	Reduce air pressure, thin material, replace worn parts.
Runs or Sags	Too much fluid, gun too close to surface, material too thin, slow gun movement.	Reduce fluid, increase distance, thicken material, increase gun speed.

8. Specifications

Key technical specifications for the DeVilbiss 802789 Spraying System:

Brand: DeVilbiss

Model Name: DEV802789

Item Weight: 5.9 Pounds (approx. 2.67 kg)

Product Dimensions: 5.5 x 16.7 x 8 inches (approx. 14 x 42.4 x 20.3 cm)

Power Source: Hand Powered (requires external air compressor)

Included Components: 3 Spray Guns, 3 Cups, Cleaning Brushes, Wrench, Air Adjusting Valve with Gauge

Tank Volume: 5 Liters (total capacity of included cups)

Spray Gun Specifications (Approximate)

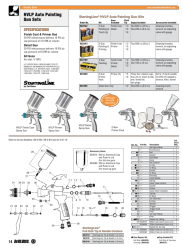
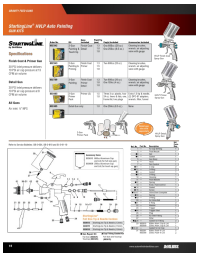
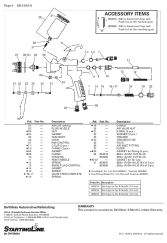
Gun Type	Fluid Tip Size	Inlet Pressure (PSI)	Air Volume (CFM)
HVLP Spray Gun (Primer)	1.8mm	30	8
HVLP Spray Gun (Finish Coats)	1.3mm	30	8
HVLP Touch-Up Spray Gun	1.0mm	30	8

9. Warranty and Support

For information regarding warranty coverage, replacement parts, or technical support, please contact DeVilbiss customer service directly.

You can typically find contact information on the official DeVilbiss website or through the retailer where the product was purchased. Please have your model number (DEV802789) and purchase date ready when contacting support.

Related Documents

	[DeVilbiss StartingLine HVLP Auto Painting Gun Sets & Kits] Explore DeVilbiss StartingLine HVLP auto painting gun sets and kits, featuring detailed specifications, included accessories, and part breakdowns for various models like the 2-Gun, 3-Gun, and Touch Up kits.
	[StartingLine HVLP Auto Painting Gun Kits by DeVilbiss] Comprehensive overview of DeVilbiss StartingLine HVLP Auto Painting Gun Kits, detailing specifications, kit contents, accessory items, and a parts breakdown for various spray gun models.
	[DeVilbiss StartingLine HVLP Spray Gun Service Bulletin SB-2-610-K] This service bulletin provides essential information, setup instructions, adjustment procedures, cleaning guidelines, and safety warnings for the DeVilbiss StartingLine HVLP spray gun, model SB-2-610-K. It details HVLP air supply requirements, gun setup, packing adjustment, fluid tip applications, cleaning, preventive maintenance, and potential hazards.
	[DeVilbiss StartingLine HVLP Spray Gun Parts and Accessories] Comprehensive parts breakdown, accessory items, and warranty details for the DeVilbiss StartingLine HVLP automotive spray gun, including part numbers and descriptions.