

# Fengda AG-183K Dual-Action Gravity Feed Airbrush Set Instruction Manual

Model: BD-183K

## 1. Introduction

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This manual provides detailed instructions for the safe and effective operation, maintenance, and care of your Fengda AG-183K Dual-Action Gravity Feed Airbrush Set. Please read this manual thoroughly before initial use and retain it for future reference.

## 2. Package Contents

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Verify that all items listed below are present in your package.

- 1x FE-183K Airbrush Gun (0.5mm nozzle assembled)
- 1x 0.3mm Nozzle
- 1x 0.8mm Nozzle
- 1x 0.3mm Needle
- 1x 0.8mm Needle
- 2x Nozzle Caps
- 1x Pipette
- 1x Screw Wrench
- 1x Hose BD24 (1.8 m)
- 1x Adapter Reduction BD-A4
- 3x Color Cups (2cc, 5cc, 13cc)



Image 1: Overview of the Fengda AG-183K airbrush set, including the airbrush gun, various nozzles, needles, fluid cups, hose, and wrench.

### 3. Product Overview and Components

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The Fengda AG-183K is a dual-action, gravity-feed airbrush designed for precision work across various applications. Understanding its components is crucial for proper operation and maintenance.

# GRAVITY FEED DOUBLE-ACTION AIRBRUSH

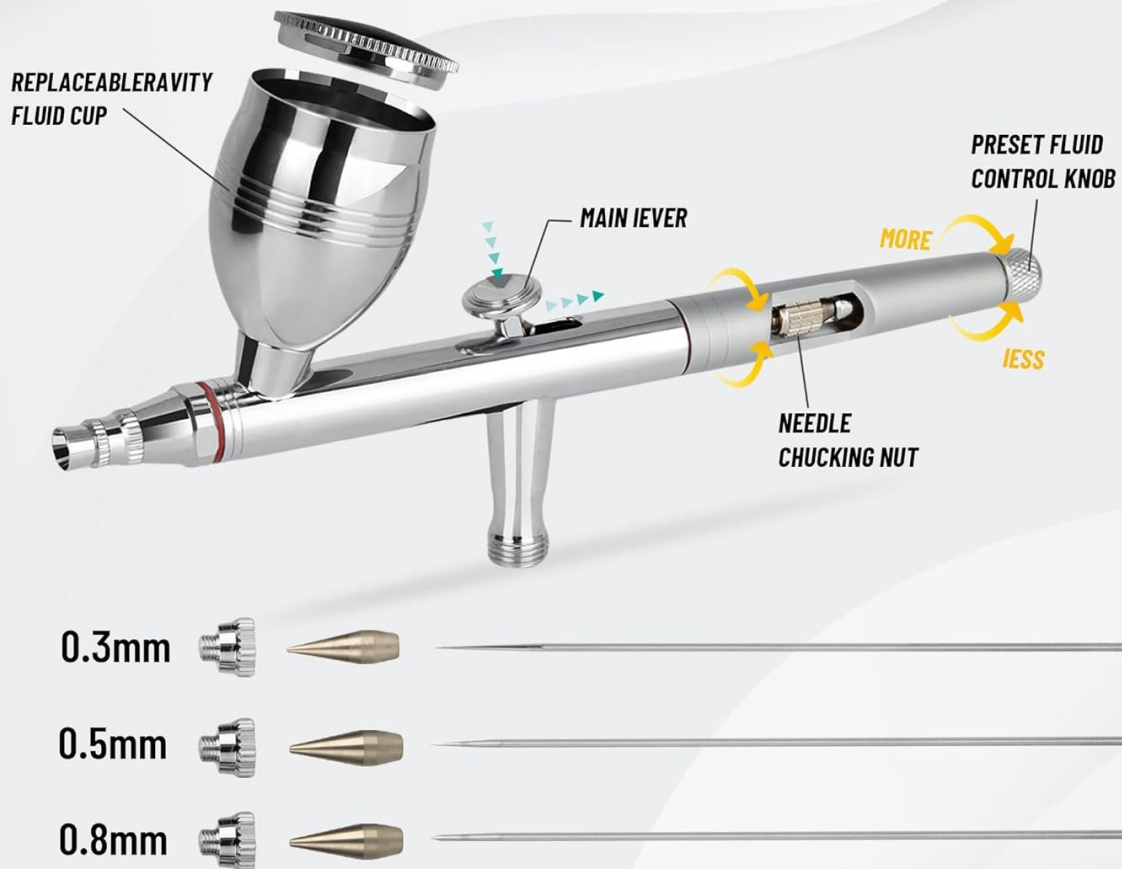


Image 2: Diagram illustrating the main components of the gravity feed dual-action airbrush, including the replaceable fluid cup, main lever, needle chucking nut, and preset fluid control knob.

**AG-183K**

*Advanced control: This dual-action (trigger independently controls release of both air and fluid; pressing trigger releases air, pulling back releases material), internal-mix airbrush has a precision crafted design.*

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### Key Features:

- **Dual-Action Trigger:** Independently controls both air and fluid release. Pressing down releases air, pulling back releases material.
- **Gravity Feed:** Paint is fed from the top-mounted cup, utilizing gravity for consistent flow.
- **Interchangeable Nozzles & Needles:** Includes 0.3mm, 0.5mm, and 0.8mm sizes for varied spray patterns.

- **Multiple Fluid Cups:** 2ml, 5ml, and 13ml screw-on cups for different project sizes.
- **Preset Fluid Control Knob:** Located at the rear, this knob allows for precise adjustment of the maximum paint flow.

## 4. Setup

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### 4.1 Initial Assembly

1. Ensure the desired nozzle and needle size (0.5mm is pre-assembled) are correctly installed. Refer to Section 6 for changing sizes.
2. Screw the appropriate fluid cup (2ml, 5ml, or 13ml) onto the top of the airbrush body.
3. Connect the braided air hose to the airbrush's air inlet. Ensure a secure connection.



Image 4: The 6ft braided hose with 1/8 BSP swivel nut connections and a 1/8 BSP male to 1/4 NPT female adapter for connecting to an air compressor.

4. Connect the other end of the air hose to your air compressor. An adapter (BD-A4) is included if needed.

## 4.2 Air Compressor Requirements

This airbrush requires an air compressor to operate. Ensure your compressor is capable of providing a working pressure of 1-3.5 bar (approximately 15-50 PSI).

# 5. Operating Instructions

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## 5.1 Paint Preparation

- Always thin your paint to the consistency of milk for optimal flow and atomization.
- Use appropriate thinners for your specific paint type (e.g., water for acrylics, lacquer thinner for lacquers).
- Strain paint through a fine mesh filter to remove any particles that could clog the airbrush.

## 5.2 Filling the Fluid Cup

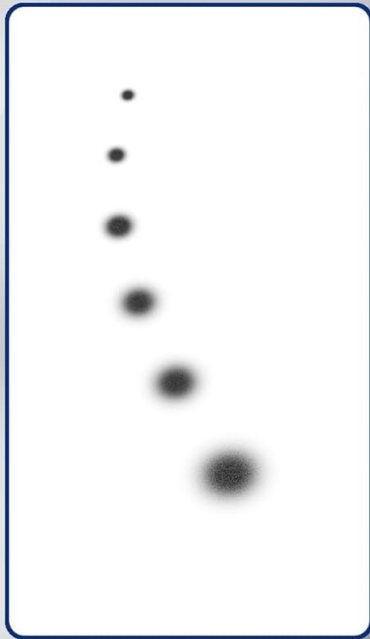
Carefully pour the prepared paint into the attached fluid cup. Do not overfill.

## 5.3 Spraying Technique (Dual-Action)

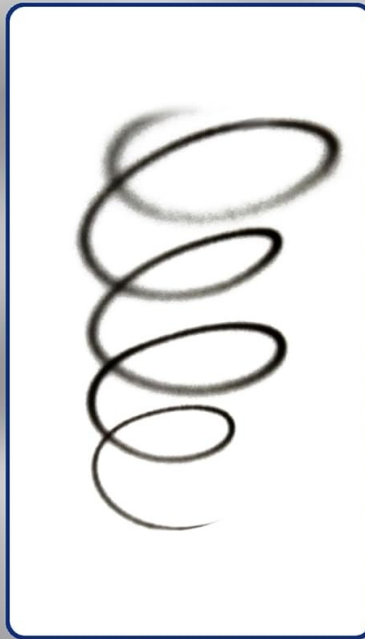
1. Turn on your air compressor and set the desired pressure.
2. To start spraying, first press the main lever down to release air.
3. While holding the lever down, pull it back to release paint. The further back you pull, the more paint is released.
4. To stop spraying, first push the lever forward to stop paint flow, then release the lever upwards to stop air flow.
5. Practice on scrap material to get a feel for the airbrush's response and to achieve desired spray patterns (point, line, round).

# HIGH PRECISION SPRAYING

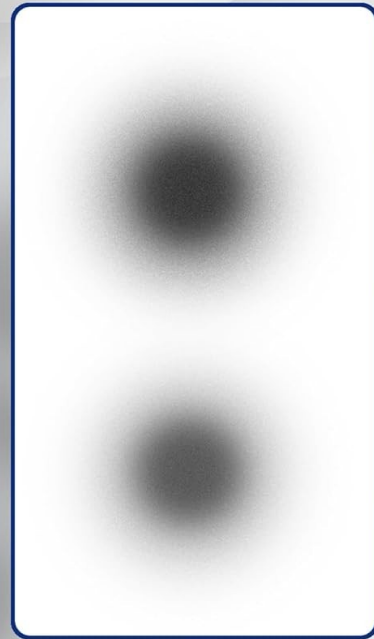
*Adapt To Various Creative Needs*



POINT



LINE



ROUND

Exquisite Craftsmanship / Exceptional Atomization / Accurate Spray Control

Image 5: Examples of spray patterns achievable with the airbrush: fine point, thin line, and round spray.

## 5.4 Adjusting Paint Flow

The preset fluid control knob at the rear of the airbrush limits how far back the trigger can be pulled, thus controlling the maximum paint flow. Turn clockwise for less paint, counter-clockwise for more.

## 6. Nozzle and Fluid Cup Selection

The AG-183K comes with three interchangeable nozzle and needle sets (0.3mm, 0.5mm, 0.8mm) and three fluid cups (2ml, 5ml, 13ml) to suit various applications.

# AIRBRUSH GUN

*Excellent Craftsmanship*



Image 6: The three different nozzle sizes (0.3mm, 0.5mm, 0.8mm) included with the airbrush for varied spray applications.

# THREE DIFFERENT SIZES

***For Multiple Using***



***sizes of screw on gravity fluid cups:  
2ml, 5ml and 13ml***

Image 7: The three screw-on gravity fluid cup sizes (2ml, 5ml, and 13ml) for different paint volumes.

## **Changing Nozzles and Needles:**

1. Unscrew the nozzle cap and then the nozzle itself. Use the included wrench if necessary, but avoid overtightening.
2. Loosen the needle chucking nut at the rear of the airbrush and carefully pull out the needle.
3. Insert the desired new needle, ensuring it slides smoothly.
4. Screw on the corresponding new nozzle and then the nozzle cap.

- 5. Gently push the needle forward until it seats correctly in the nozzle, then tighten the needle chucking nut.

## 7. Maintenance and Cleaning

Proper cleaning after each use is essential to prevent clogging and ensure the longevity of your airbrush.

### 7.1 Quick Clean (Between Color Changes or Short Breaks)

- 1. Empty any remaining paint from the fluid cup.
- 2. Add a small amount of appropriate cleaner/thinner to the cup.
- 3. Spray the cleaner through the airbrush until it runs clear.
- 4. Use a soft brush or cotton swab to clean the inside of the fluid cup.

### 7.2 Thorough Clean (After Each Session)

- 1. Perform a quick clean as described above.
- 2. Disassemble the airbrush: remove the fluid cup, nozzle cap, nozzle, and needle.
- 3. Soak the removed parts in an appropriate cleaner.
- 4. Use specialized cleaning brushes to gently clean the inside of the airbrush body, nozzle, and nozzle cap. Be extremely careful with the delicate needle and nozzle tip.
- 5. Wipe the needle clean with a soft cloth and cleaner.
- 6. Rinse all parts with clean water and allow them to dry completely.
- 7. Reassemble the airbrush. Apply a tiny amount of airbrush lubricant to the needle and trigger mechanism if desired.

**Caution:** Never use metal tools or excessive force to clean the nozzle or needle, as this can cause permanent damage.

## 8. Troubleshooting

Problem	Possible Cause	Solution
No paint flow	Clogged nozzle/needle; Paint too thick; Air pressure too low; Needle not pulled back	Clean airbrush thoroughly; Thin paint; Increase air pressure; Pull trigger back
Splattering/ Uneven spray	Partially clogged nozzle; Damaged needle/nozzle; Paint too thin/thick; Air pressure inconsistent	Clean airbrush; Inspect/replace needle/nozzle; Adjust paint consistency; Check compressor/hose

Problem	Possible Cause	Solution
Air bubbles in fluid cup	Loose nozzle; Cracked nozzle; Dried paint around nozzle	Tighten nozzle; Replace nozzle; Clean nozzle area
Trigger sticky/stiff	Dried paint in mechanism; Lack of lubrication	Disassemble and clean trigger mechanism; Apply airbrush lubricant

## 9. Specifications

Feature	Detail
Model	FE-183K (BD-183K)
Operation	Dual-Action
Feed Type	Gravity Feed
Nozzle Sizes	0.3mm, 0.5mm (assembled), 0.8mm
Fluid Cup Capacities	2ml, 5ml, 13ml
Working Pressure	1-3.5 bar (15-50 PSI)
Hose Length	1.8 meters (6 feet)
Material	Stainless Steel (Chromed)
Item Weight (Gun)	Approx. 108g (without cup)
Total Weight (Kit)	Approx. 620g

## 10. Safety Information

- Always work in a well-ventilated area to avoid inhaling paint fumes.
- Wear appropriate personal protective equipment (PPE), including a respirator, safety glasses, and gloves.
- Keep the airbrush and all chemicals out of reach of children and pets.
- Never point the airbrush at yourself or others.
- Disconnect the air supply before performing any maintenance or cleaning.
- Use only compatible thinners and cleaners for your specific paints.

## **11. Warranty and Support**

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For warranty information or technical support, please refer to the seller's specific terms or contact the manufacturer directly. Retain your proof of purchase for any warranty claims.