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Airbrush Fengda fen-BD186-050

User Manual for Fengda BD-186 Double-Action Airbrush

Model: fen-BD186-050

Introduction

Thank you for choosing the Fengda BD-186 Double-Action Airbrush. This precision tool is designed for detailed artistic and craft applications, offering excellent control over paint flow and air pressure. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your airbrush.

Safety Instructions

- Always operate the airbrush in a well-ventilated area to avoid inhaling paint fumes.
- Wear appropriate personal protective equipment (PPE), including a respirator, safety glasses, and gloves, especially when using solvent-based paints.
- Ensure your air compressor is properly grounded and maintained according to its manufacturer's instructions.
- Never point the airbrush at yourself or others.
- Keep out of reach of children. This is not a toy.
- Disconnect the airbrush from the air supply before cleaning, disassembling, or performing any maintenance.
- Use only paints and thinners compatible with your airbrush and the materials you are spraying.
- Dispose of paint and cleaning waste responsibly according to local regulations.

Package Contents



The image above displays the primary components included with your Fengda BD-186 airbrush. This typically includes the airbrush body, two different sized paint cups, and a small wrench kit for maintenance.

- 1 x Fengda BD-186 Double-Action Airbrush (with 0.5mm nozzle installed)
- 1 x Gravity Feed Paint Cup (approx. 2.5cc)
- 1 x Gravity Feed Paint Cup (approx. 13cc)
- 1 x Nozzle Wrench
- 1 x Storage Case

Setup

1. **Unpack:** Carefully remove all components from the packaging. Inspect for any damage.
2. **Attach Air Hose:** Connect one end of your air hose (not included) to the air inlet on the bottom of the airbrush handle. Connect the other end to your air compressor. Ensure connections are secure to prevent air leaks.
3. **Install Paint Cup:** Choose the appropriate size paint cup for your project and screw it firmly into the top of the airbrush body.
4. **Prepare Paint:** Thin your paint to the consistency of milk for optimal airbrushing. Use a separate mixing cup and strainer if necessary to prevent clogs. Pour the prepared paint into the airbrush paint cup.
5. **Set Air Pressure:** Turn on your air compressor and set the pressure regulator to your desired working pressure, typically between 15-50 PSI for general airbrushing. Start with a lower pressure and adjust as needed.

Operating Instructions

The Fengda BD-186 is a double-action airbrush, meaning it controls both air and paint flow with a single trigger. Pushing the trigger down controls air, and pulling it back controls paint.

1. **Air First:** Always press the trigger down to start the airflow *before* pulling it back to release paint. This prevents paint from splattering.
2. **Paint Flow:** Gradually pull the trigger back to control the amount of paint released. The further back you pull, the more paint will flow.
3. **Distance:** Hold the airbrush approximately 2-6 inches from your surface, adjusting based on the desired spray pattern and detail. Closer for fine lines, further for broader coverage.
4. **Movement:** Keep the airbrush moving while spraying to ensure even coverage and prevent paint buildup.
5. **Air Last:** When you finish spraying, release the trigger forward to stop the paint flow *before* releasing it up to stop the air. This clears the nozzle and prevents clogs.
6. **Practice:** Practice on scrap material to get a feel for the airbrush's response to trigger movements and pressure settings.

Maintenance and Cleaning

Proper cleaning after each use is crucial for the longevity and performance of your airbrush.

Quick Clean (Between Color Changes or Short Breaks):

1. Empty any remaining paint from the cup.
2. Add a few drops of appropriate cleaner (water for acrylics, thinner for enamels/lacquers) to the cup.
3. Back-flush: Cover the nozzle cap with your finger or a cloth and press the trigger down to allow air to bubble back into the cup. This helps dislodge paint from the needle and nozzle. Do this carefully to avoid splashing.
4. Spray out the cleaner onto a paper towel until clear. Repeat if necessary.

Deep Clean (After Each Session):

1. Perform a quick clean as described above.
2. Disconnect the airbrush from the air supply.
3. Unscrew the handle and loosen the needle chucking nut. Carefully pull the needle out from the front of the airbrush. Clean the needle with a soft cloth and cleaner.
4. Unscrew the nozzle cap and then the nozzle itself. Use the provided wrench if needed. Be extremely careful as the nozzle is delicate. Clean the nozzle thoroughly with cleaner and a soft brush or cotton swab.
5. Clean the paint cup and the inside of the airbrush body with cleaner and appropriate brushes.
6. Reassemble the airbrush in reverse order. Ensure the needle is fully seated before tightening the needle chucking nut. Do not overtighten the nozzle.

Troubleshooting

Problem	Possible Cause	Solution
No paint flow	Clogged nozzle/needle, paint too thick, low air pressure, bent needle.	Perform deep clean. Thin paint. Increase air pressure. Inspect and replace bent needle.
Splattering/Bubbling in cup	Loose nozzle, cracked nozzle, clogged air cap, paint too thin.	Tighten nozzle (gently). Inspect and replace damaged parts. Clean air cap. Thicken paint slightly.
Inconsistent spray pattern	Partial clog, damaged nozzle/needle, inconsistent air pressure.	Perform deep clean. Inspect and replace damaged parts. Check compressor regulator.
Air leaks	Loose connections, damaged O-rings.	Tighten all connections. Inspect and replace O-rings.

Specifications



The image above shows the product packaging, which includes some key specifications for the Fengda BD-186 airbrush.

- **Model:** Fengda BD-186 (fen-BD186-050)
- **Type:** Double-Action, Gravity Feed
- **Nozzle Diameter:** 0.5 mm (Note: Some packaging may indicate 0.3mm, but this model is supplied with 0.5mm)
- **Cup Capacity:** Approx. 2.5cc and 13cc (interchangeable)
- **Working Pressure:** 15-50 PSI (approx. 1.0 - 3.4 bar)
- **Item Weight:** 14.1 ounces (0.4 Kilograms)
- **Style:** Gun
- **UPC:** 734872115660

Warranty and Support

For warranty information, technical support, or to purchase replacement parts, please contact your retailer or the manufacturer directly. Keep your proof of purchase for warranty claims.

Brand: Airbrush Fengda

ASIN: B00HZ2NIAK

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