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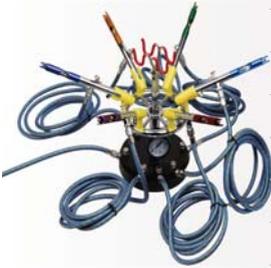


FENGDA

ASSEMBLY & INSTRUCTION MANUAL

AIRBRUSH KIT

PROFESSIONAL



 CAUTION: Please read through this manual very carefully before using it!

FENG HUA BIDA MACHINERY MANUFACTURE CO.,LTD

Air Brush Assembly & Instruction Manual

SAVE THIS MANUAL

You will need this manual for safety warnings, precautions, operation, inspection, maintenance, cleaning procedures, parts mbly diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep this manual and invoice in a safe and dry place for future reference.

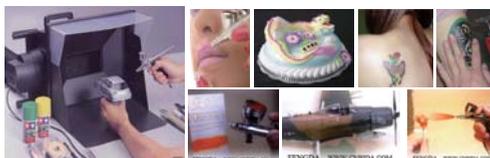
GENERAL SAFETY WARNINGS AND PRECAUTIONS

1. Do not exceed the maximum pressure rating of 50 PSI.
2. Keep work area clean and dry. Cluttered, damp, or wet work areas invite injuries.
3. Keep children away from work area. Do not allow children to handle this product.
4. Store idle equipment. When not in use, tools and equipment should bestored in a dry location to inhibit rust. Always lock up tools and equipment, and keep out of reach of children.
5. Do not use products if under the influence of alcohol or drugs. Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not attempt to use products.
6. Use eye and breathing protection. Wear ANSI approved safely impact eye goggles and an ANSI approved dust mask or respirator when using products.
7. Industrial applications must follow OSHA requirements.
8. Stay alert. Watch what you are doing at all times. Use common sense. Do not use products when you are tired or distracted from the job at hand.
9. Check for damaged parts. Before using this product, carefully check that it will operate properly and perform its intended function. Check for damaged parts and any other conditions that may affect the operation of products. Replace or repair damaged or worn parts immediately.
10. Replacement parts and accessories: When servicing, use only identical replacements parts. Only use accessories intended for use with specific product.
11. Maintain this product with care. keep this product clean and dry for better and safer performance. For your safety, service and maintenance should be performed regularly by a qualified technician.

12. Use the right tool for the job. Do not attempt to force a small tool to do the work of a larger industrial tool. There are certain applications for which this was designed. It will do the job better and more safely at the capacity for which it was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
13. Maintain a safe working environment. Keep the work area well lit. Make sure there is adequate surrounding work space. Use products only in a well ventilated area.
14. Before each use, always check all connections and joints to make sure no air leaks are present. Also check air hoses for cracks or excessive wear. Always replace a damaged hose.
15. The Air Brush is designed only to spray paint. Never spray gasoline, kerosene, or any flammable solvent.
16. If paint is accidentally swallowed or inhaled, immediately contact a physician for emergency medical attention.
17. Always disconnect the Air Brush from its air supply source before changing accessories or performing any maintenance on the Air Brush Kit.
18. Always read and adhere to all safety warnings and instructions provided in the instruction manual of the spray paint being used.
19. **WARNING!** The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors, which cannot be built into this product, but must be supplied by the operator.

PRODUCT DESCRIPTION

Air Brush is a professional tool for high precision spray painting works. The major parts of a complete air brush include head, nozzle, Air Brush body, valve body, needle, O-Rings, spring, etc. The professional use of an Air Brush includes temporarily tattoo, tanning, automobile art works, nail, model, chinaware, house decorating, cake decorating, T-shirt and other fine art works and projects.



A. Product Type

Double-Action AirBrush

Double Action Air Brush is the most practical type. It is applicable for all projects from beginners to professionals. Air comes out as soon as the trigger is pressed. Pull back trigger, ink will be sprayed out with a 0.8 mm. straight line to a mist circle.





Single-Action AirBrush

Air controllable Single Action AirBrush is applicable for basic painting.



Single-Action AirBrush

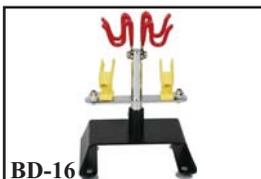
Elementary type is applicable for large area basic painting.



Mini Air-compressor(Oil-free)



Airbrush Holder

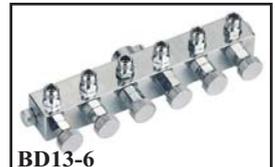




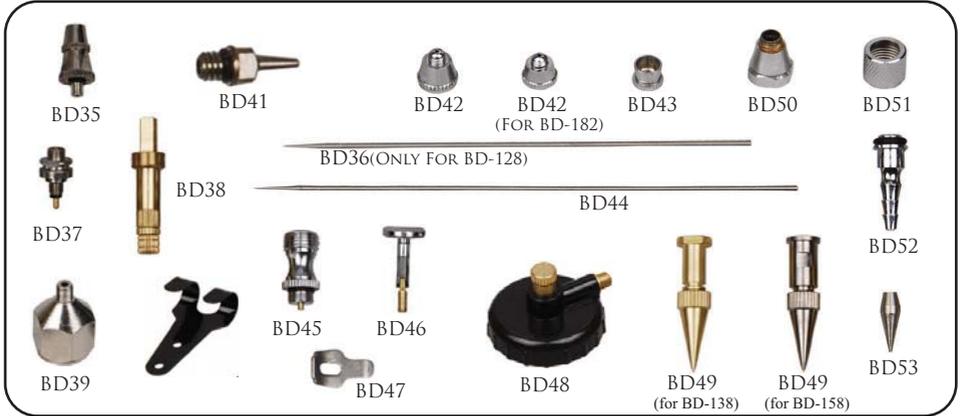
Air Hose



Accessories



Fittings



B. Color Cup Type



Fixed Cup



Removable Cup



Removable Side Cup



Removable Jar

C. Nozzle Size

Regular nozzle size ranges from 0.20mm to 0.50mm. Large area painting requires nozzle size from 0.80mm to 1.0mm. The smaller nozzle size is suitable for exquisite painting projects; larger size nozzle is required for thick ink so it would not be easily jammed during spraying 0.30mm is the most popular nozzle size.

D. Various Shape of Air Cap



1. Concentrate Cap



2. Spread Cap



3. Flower Cap

1. Concentrate Cap: spray head concentrates the paint to the center of focus.
2. Spread Cap: spread the paint so to cover a large area.
3. Flower Cap: spray head is in shape of a flower that expels air that's reflected from the object.

E. Accessories



1. Air Adjustor Nut

Air Adjustor Nut helps control air pressure directly from the Adjustor instead of from compressor.



2. Mini Separator

Mini oil-water Separator on Air Brush helps block moisturized air from coming into the Air Brush.



3. Easy Assemble Hose Nut

Apply Easy Assemble Hose on Air Brush makes the connection to air hose a lot easier.



4. Air Adjustor Lever

Air Adjustor Lever enables non air pressure adjust capable Air Brush with air adjust function.

OPERATION INSTRUCTIONS

Note: Use proper solvent for thinning. Use lacquer for all lacquers, paint thinner or all oil based paints and clean water for all latex based paints. Read the labels of the paint you are using carefully for correct thinning and cleaning up of Air Brushes.



Mixing and Thinning Paints:

Generally new paint is thick and must be diluted before attempting to spray with Air Brush. The following rules apply when mixing and diluting paint;

1. When mixing colors, it is recommended to mix only paints of the same type;
2. Enamel and lacquer paints should be diluted with thinner at one to one (1:1) ratio. Make sure to read the paint manufacturer's recommendations for using with Air Brush;
3. Before spraying, make sure that the diluted paint is thoroughly mixed;

Painting:

1. Proper oil free compressor is needed for operating an Air Brush. Attach the hose to Air Brush and compressor. Turn on the compressor and adjust the output air pressure from 15 to 50 PSI. Normal operating pressure is 20 PSI. (AS-18A and AS-186 compressor made by our factory is recommended.)
2. If the Air Brush comes with a built-in air regulator valve, adjust the air regulator valve. The air regulator valve can be adjusted from 15 to 50 PSI. Since there is no pressure gauge, you will have to test the Air Brush until the desired pressure is reached.
3. Remove the protective cap on the Air Brush.
4. On the Air Brush, gently pull the trigger back to start spraying paint. Pull the trigger back more to increase paint flow, less to decrease paint flow. You can also adjust the flow using the adjusting screw, tighten it to increase flow, loosen it to decrease or shut off flow.
5. Always do a test spray before starting on your project.

INSPECTION, MAINTENANCE AND CLEANING

1. **WARNING!!** Make sure the Air Brush is disconnected from its air supply before performing any inspection, maintenance or cleaning procedures.
2. **BEFORE EACH USE**, inspect the general condition of the Air Brush. Check for loose connections and condition that may affect its operation. Do not use damaged equipment.
3. **Cleansing after short term use:** after using the Air Brush, always spray thinner or water (depending upon the type of paint used) through the Air Brush until it is completely clean. Make sure the Air Brush Cup and Jar are thoroughly cleaned (see fig 1).
4. **Cleansing after long term use:** certain amount of paint residues after long term use, it is recommended to disassemble and clean the Air Brush to avoid degrading the accuracy and damage the Air Brush. When disassembling, make sure not to collide the needle. Use brush washes the needle with detergent (see fig 2 & 3). When assembling, make sure not to touch the head of the needle (see fig 4). Finally assemble all parts back to the Air Brush and spray with detergent. Then clean up the Air Brush (see fig 5).
- 4). When cleaning, spray into a large bucket or other metal container to avoid spraying into the environment.



TROUBLESHOOTING

Problem	Possible Causes	Probable Solutions
Paint leaking	Head of needle bent or distorted	Repair or replace parts
	Nozzle and needle not fully contacted	Loosen screw, make sure nozzle and needle fully contacted and then screw tightly.
Poor paint atomization	Air Brush nozzle is partially plugged	Wash nozzle with detergent
	Needle screw loosen	Make sure screw is tighten
Air bubble in the cup	Faulty nozzle seal ring causes air reflux	Replace nozzle seal ring or use seal glue on whorl
Paint leaks from back	The gap between needle and its seal is enlarged	Take off parts on the back, fasten screw or replace the seal.
Air leaking	Valve lever stuck	Take trigger off; apply lube after cleaning and put trigger back.

PARTS LIST AND ASSEMBLY DIAGRAM



- | | | |
|------------------------|-----------------------|-----------------------|
| 1. Protective Cap | 2. Air Cap | 3. Nozzle |
| 4. Air Brush Housing | 5. Hose Connector Nut | 6. Valve Screw |
| 7. Needle Adjust Screw | 8. Trigger | 9. Back Lever |
| 10. Handle | 11. Needle | 12. Cup Lid |
| 13. Tube Shank | 14. Needle Tube | 15. Needle Stop Screw |

Notice: Each Air Brush may not come with all equipment or accessories listed above.