



Item #70016

# BENCHTOP POWDER BOOTH

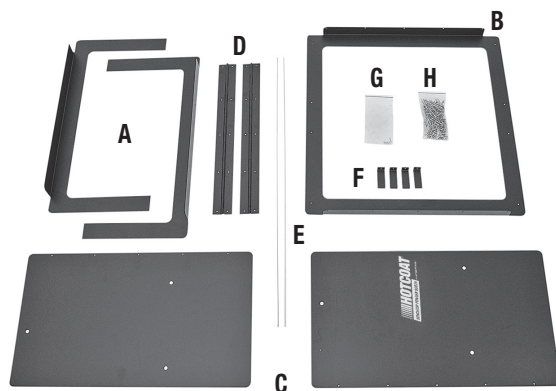
## ASSEMBLY AND OPERATING INSTRUCTIONS



The **HOTCOAT BENCHTOP POWDER BOOTH** is a simple but effective conversion kit that transforms a 20" box fan into a booth for powder coating. The frame holds a standard 20" x 20" x 1" pleated, fiberglass air filter (not included) and when combined with Eastwood HotCoat Filter Tack Spray (#69481Z, not included) is capable of capturing over 95% of powder overspray. The Doors funnel the airflow to the filter and fold for storage, but also have provisions for the Hang Rods. These are perfect for hanging parts or supporting an oven rack. Quit making a mess of your garage or waiting for the weather outside to get better and pick up this simple solution to keep coating!

## INCLUDED

- (2) Fan Brackets [A]
- (1) Door Frame [B]
- (2) Doors [C]
- (2) Hinges [D]
- (2) Hang Rods [E]
- (4) Filter Tabs [F]
- (4) Hairpin Cotter Pins [G]
- (50) 1/8" x 0.25" Grip Aluminum/Steel Blind Rivets [H]  
(14 extra rivets are provided in case of the inevitable assembly mishap. Use 1/8" drill bit to remove rivets as required.)



## SPECIFICATIONS

- Box Fan Size:** 20" (Commonly available at Walmart or Home Depot)
- Air Filter Size:** 20" x 20" x 1" HVAC/furnace air filter, pleated, fiberglass type only. MERV rating not impactful.
- Frame Construction:** 18 gauge [1.2mm] steel, black powder coat

## SAFETY INFORMATION

The following explanations are displayed in this manual, on the labeling, and on all other information provided with this product:

### ⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

### ⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

### ⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

### ⚠ NOTICE

NOTICE is used to address practices not related to personal injury.



### ⚠ READ INSTRUCTIONS

- Thoroughly read and understand these product instructions before using.
- Keep these product instructions for future reference.



### ⚠ DANGER FIRE OR EXPLOSION HAZARD!

- Standard box fans are not explosion proof and could ignite vapors. This Booth is strictly intended to be used for powder coat application purposes only. **DO NOT** use to catch liquid paint coating overspray or any other purpose. **NEVER** allow flammable vapors to enter the air intake of the Powder Booth.



### ⚠ WARNING HEALTH AND INJURY HAZARDS!

- Dust and fine particles are dispensed when powder coating which can contain hazardous or toxic substances. Breathing this dust can cause respiratory health problems. Always use NIOSH approved respiratory protection while powder coating.
- Metal particles can be ejected from assembly tools. Pressurized air discharge can send high velocity powder coating dust and debris into eyes. Always wear ANSI approved eye protection while assembling and operating this tool.



### ⚠ WARNING FIRE HAZARD!

- Never allow the fan to operate unattended. Always disconnect fan from the electrical power supply before leaving it unattended.



### **⚠ WARNING ELECTRICAL SHOCK HAZARD!**

- Never use the HotCoat Powder Booth outdoors when it is raining or in wet or damp areas, as it may cause an electric shock.



### **⚠ CAUTION INJURY HAZARD!**

- Assembly involves working around sharp edges and can result in pinching of the hands. Wear thick, well-fitting work gloves while assembling. Keep fingers away from fan guard and Hinges.
- Components during assembly and parts during powder coating can shift or suddenly drop. Always support parts securely and wear closed toe shoes when assembling or operating.
- Improper support will result in the Booth tipping and falling. Only store and utilize on a flat, level surface large enough to fully support the Doors when in operation.
- **DO NOT** use the Booth for storage. It may collapse, resulting in injury.
- Keep all lines, cords, and hoses out of the operator working area to avoid a potential tripping hazard.



### **⚠ NOTICE**

- To provide proper air flow and fan operation, the Powder Booth must be placed at a minimum of 12" (30cm) from the nearest wall, in a well-ventilated area. **DO NOT** allow the fan intake or exhaust to be restricted or blocked.
- This Booth is strictly intended to be used for powder coat application purposes only. Do not powder coat without coated filter in place.
- Before use, air filters must be coated with Eastwood HotCoat Filter Tack Spray (#69481Z, not included). The air filters alone are not capable of catching powder overspray.

## ASSEMBLY

Components and tools (not included) required for assembly:

- 20" Box Fan (commonly available at Walmart or Home Depot)
- Drill with 1/8" drill bit
- Rivet tool with 1/8" mandrel

1. Start by determining which side of the box fan is the intake. The simplest way to do this is with a sticky note or piece of paper. Turn the fan on; the paper will be sucked to the fan guard on one side (**FIG 1**). This side is the intake.

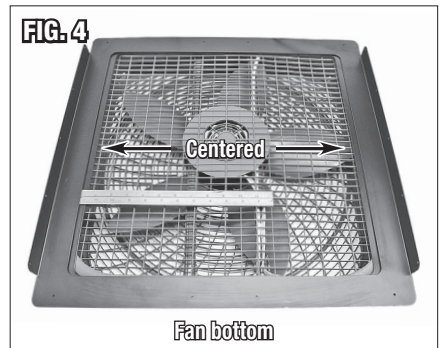
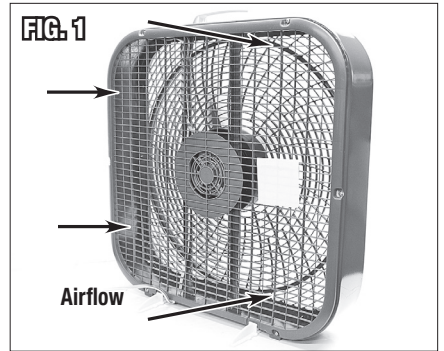
2. Lay the fan flat with the intake side up. Set the Fan Brackets **[A]** on top (**FIG 2**), with the pre-drilled mounting tabs at the sides of the fan. Align them with the fan guard vertically.

**NOTE:** The feet on the fan may prevent the brackets from being perfectly vertically centered as seen in (**FIG 2**). This is ok and will not noticeably impact flow.

3. Hold a Fan Bracket in place while you drill through one of the pre-drilled holes, into the fan housing with a 1/8" drill bit.

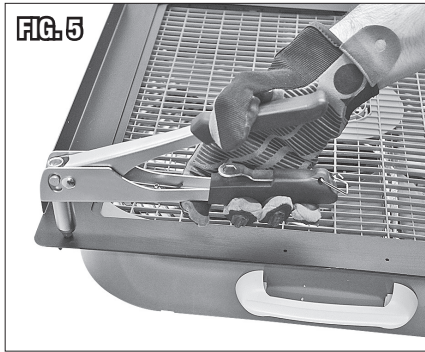
4. If satisfied with the alignment, insert one of the 1/8" x 0.25" Grip Aluminum/Steel Blind Rivets **[H]** and install. It will hold the Bracket in place (**FIG 3**) while you continue drilling and riveting. Repeat until both Brackets are fully fastened.

5. Lay the Door Frame **[B]** over the Fan Brackets with the pre-drilled hinge mounting flanges to the sides, facing away from the fan guard (**FIG 4**). Center the Door Frame over the fan guard horizontally and align it with the Brackets vertically.

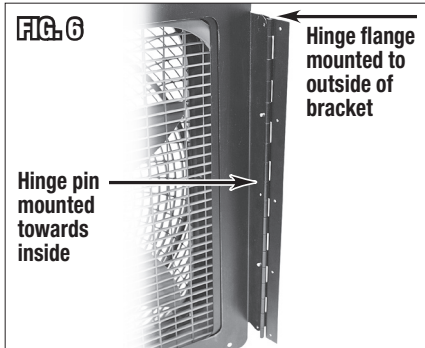




1. Once satisfied with the alignment, drill through the pre-drilled holes in the Door Frame and into the Brackets (FIG 5). Use the same method, riveting after drilling, to hold the position before drilling the next. Repeat until fully fastened.

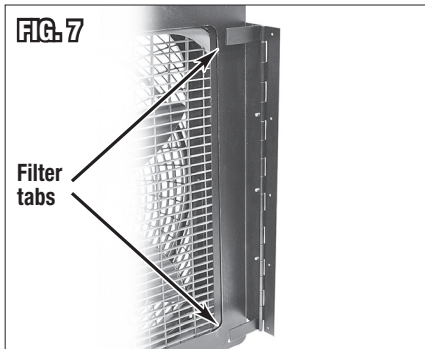


2. Install one of the Hinges [D] to the Door Frame. The Hinges should be on the outside of the mounting flange, with the pin on the inside (FIG 6). Start by riveting the middle three holes.

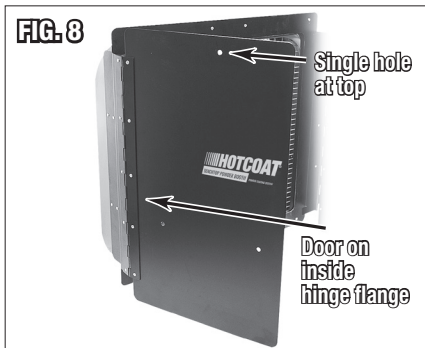


**NOTE:** Due to the thickness of the powder coated finish, running the drill bit through the holes to clear them before you rivet will ease assembly.

3. The inside of the end holes should receive one of the Filter Tabs [F] on each before riveting (FIG 7). Repeat on opposite side.



4. Rivet the Doors [C] to both sides in the orientation shown in (FIG 8) to complete the assembly.



## OPERATION

### **⚠ DANGER** FIRE OR EXPLOSION HAZARD!

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### **⚠ WARNING** HEALTH AND INJURY HAZARD!

Dust and fine particles are dispensed when powder coating which can contain hazardous or toxic substances. Breathing this dust can cause respiratory health problems. Always use NIOSH approved respiratory protection while powder coating.

### **⚠ WARNING** FIRE HAZARD!!

Never allow the fan to operate unattended. Always disconnect fan from the electrical power supply before leaving it unattended.

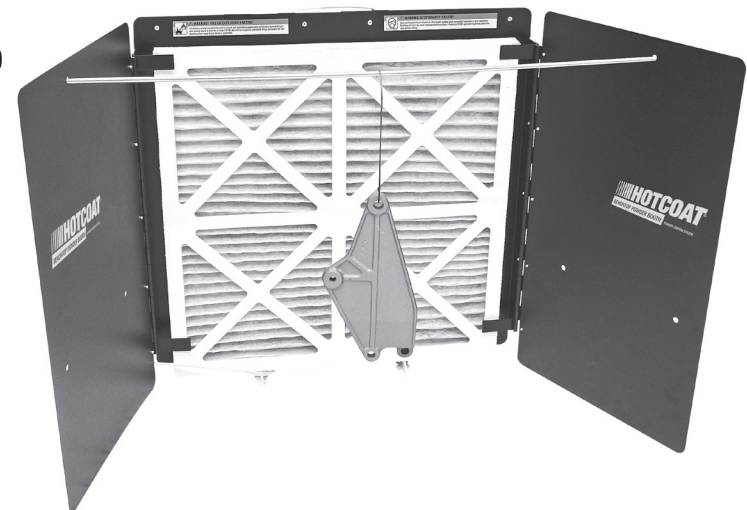
### **⚠ CAUTION** INJURY HAZARD!!

Keep all lines, cords, and hoses out of the operator working area to avoid a potential tripping hazard.

## FILTER PREPARATION

- Lay a 20" x 20" x 1" air filter (not included, commonly available at Home Depot) on a flat surface covered with cardboard or newspaper to catch overspray.
- Spray the new pleated, fiberglass air filter with a wet coat of the HotCoat Filter Tack Spray, ensuring all areas of the filter are treated.
- Install the filter by dropping it in place or inserting it at an angle from the front to slip it under the Filter Tabs (FIG 9).

FIG. 9



## POWDER COATING PARTS

- You may use the Hang Rods [E] with the Hairpin Cotter Pins [G] through the pre-drilled holes in the Doors to hang a part (FIG 9) or support an oven rack (FIG 10). The rods are plated steel so you may ground directly to them.
- Set the fan to the maximum speed for best dust collection.
- After use you may remove the Hang Rods and fold the Doors in for storage (FIG 11).

FIG. 10



FIG. 11



## MAINTENANCE

Air filter replacement is required periodically. As the filter loads up with collected powder it will lose its ability to collect powder dust.

- The filter can be reused until it is “loaded” or covered with heavy powder coat dust overspray. Discard loaded filters only in accordance with your local laws and regulations.
- DO NOT wash or blow off “loaded” filter to reuse them as the cardboard frame and woven fiberglass material will be damaged, compromising the efficiency of the filter.
- A heavily “loaded” filter can put unnecessary stress on the fan motor with continued use.
- When replacing the air filter always coat it with Eastwood HotCoat Filter Tack Spray (#69481Z, not included) according to the instructions contained in **OPERATION - Filter Preparation**.



# ADDITIONAL ITEMS

## R&D MUST-HAVE ACCESSORIES



**#69481Z**  
Eastwood HotCoat  
Filter Tack Spray



**#68076**  
Eastwood HotCoat  
Benchtop Powder Coating Oven



**#11536K**  
Eastwood Powder  
Coating Accessories Kit

## OPTIONAL ITEMS

- #14104** Eastwood Beginner's Powder Coating Handbook
- #33278** Eastwood PCS-250 Dual Voltage Powder Coating Gun
- #16194** Eastwood Painting and Blasting Turntable
- #31223** Eastwood Non-Contact Infrared Thermometer
- #43045** 0.041" Stainless Steel Safety Wire, 1lb. Spool
- #58041** High-Temp Silicone Caps and Plugs
- #16315** High Temperature Polyester Masking Tape 1/8" x 72 yd
- #16316** High Temperature Polyester Masking Tape 1/4" x 72 yd
- #16317** High Temperature Polyester Masking Tape 1/2" x 72 yd
- #16318** High Temperature Polyester Masking Tape 3/4" x 72 yd
- #16319** High Temperature Polyester Masking Tape 1" x 72 yd
- #16321** High Temperature Polyester Masking Tape 2" x 72 yd
- #16315** High Temperature Fiberglass Masking Tape 1/2" x 36 yd
- #16315** High Temperature Fiberglass Masking Tape 1" x 36 yd
- #32054** Fine Line High Temperature Masking Tape 1/8" x 72 yd
- #32055** Fine Line High Temperature Masking Tape 1/4" x 72 yd
- #15862** Eastwood Powder Coating Polish
- #10288Z** High-Temp Lab Metal Filler
- #43090** Safety Goggles
- #31575** Rockwood Valved Dust Mask (10-Pack)
- #11949Z** Eastwood Low VOC Pre Paint Prep Aerosol 12 oz

Visit [eastwood.com](http://eastwood.com) for complete info and pricing.

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**If you have any questions about the use of this product, please contact**

The Eastwood Technical Assistance Service Department: 800.343.9353 >> email: [tech@eastwood.com](mailto:tech@eastwood.com)

PDF version of this manual is available at [eastwood.com](http://eastwood.com)

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