

POWERTEC®**Butterfly Templates**

These butterfly templates are used to add decorative details, cover blemishes or stop cracks from progressing on table tops or other furniture.

These instructions are to be used with a plunge base router.

NOTE: The actual finished size of the butterfly is the inlay opening size minus the diameter of the spacer bushing on the inlay bit (.560").



ALWAYS disconnect the router from the power source before changing router bits.

ALWAYS wear eye protection when using this product.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

PACKAGING CONTENTS

- Label sheet one – 6"x 6" x 0.24" thick, one butterfly template, opening size – 4-3/4" x 3-7/16"
- Label sheet two – 6" x 6" x 0.24" Thick, two butterfly templates, opening sizes – 3-19/32" x 2-1/2" and 3-5/32" x 2-5/32"
- Label sheet three - 6" x 6" x 0.24" Thick, four butterfly templates, opening sizes – 2-1/2" x 1-9/16", 2-5/32" x 1-5/16", 1-29/32" x 1-1/8", and 1-11/16" x 1"

NOTE: The opening sizes listed are the rough opening of the butterfly template.

TOOLS NEEDED (SOLD SEPARATELY)

- Plunge base router
- Router inlay kit
- Double sided tape

USE

Mount the Template to the Workpiece

The following instructions are for the inset and the inlay. The instructions are written for inlay kits with a 1/8" bit, if using a kit with a different diameter bit, please adjust accordingly.

- Determine the required size of the butterfly inlay and locate the opening in the desired position on the workpiece.
- Use double-sided tape to hold the template in place.
IMPORTANT: ONLY use the correct amount of tape, too much tape will make the template hard to remove from the workpiece and could damage the workpiece or template.
- For most applications four or five pieces of tape 1 x 1" will be adequate (8 to 10 square inches).
NOTE: More tape may be required, depending on the surface of the workpiece (oil based stains etc.).

Making the Inlay

NOTE: Make multiple passes, no more than 1/8" deep, to achieve the full depth of cut. DO NOT attempt to cut the full depth in a single pass, doing so may break the router bit.

- Mount the inlay material on a backup material (such as MDF) with the double-sided tape. **NOTE:** Use a very small piece of tape under the inlay part so it can be removed without breaking the inlay.
- Using the **Mount the Template to the Workpiece** instructions, attach the template to the inlay material.

NOTE: Use a minimum amount of thin inlay material because the remainder could be destroyed when removing it from the template.

- Assemble the guide bushing and 1/8" router bit from your router inlay kit on the router. **DO NOT** install the collar from the router inlay kit on the bushing. **NOTE:** Most inlay kits come with a PORTER-CABLE* style guide bushing. If the router does not accept the PORTER-CABLE style guide bushings, it can be adapted by using Powertec Universal Router Plates, models 71022 or 71369.
- Set the plunge depth on the router to just cut through the inlay material and slightly into the backup.

IMPORTANT: The first time the template is used you may want to practice, follow the outline in a counterclockwise direction without moving off the template. Moving in a counterclockwise direction will cause the router to hug the template rather than tending to move away from the template. When you feel comfortable following the template with the router, you can set the guide bushing on the template wall, turn on the router, and route the inlay.

- Carefully remove the inlay piece from the backup material.

Making the Inset

- Follow the **Mount the Template to the Workpiece** instructions to mount the template to the workpiece.
- Install the collar from the router inlay kit on the guide bushing.
- Set the plunge depth of the router so the inlay is not too deep or too high. **NOTE:** Slight sanding of the inlay will be needed to make it smooth with the surface.
- Turn on the router and route the outside following the template, then continue in a back and forth pattern to completely smooth the inset bottom.

Installing the Inlay

- The inlay will have sharp corners where the inset corners have the bit radius. Use a small chisel to do cut the radius to match the inlay.
- Carefully clean all cuttings and dust from the inlay and inset.
- Apply a minimum amount of glue to the inset to prevent excessive squeezing.
- Clamp a piece of MDF over the inlay using wax paper (with the wax side down) between the inlay and MDF to prevent the glue from sticking to the MDF. **NOTE:** The MDF can be waxed instead of using the wax paper.
- When the glue has dried, remove the clamp and MDF. Sand the surface smooth and apply the finish coat.

** PORTER-CABLE is a trademark of The Black & Decker Corporation.*

Visit us on the web at powertecproducts.com



Put these instructions and the original sales invoice in a safe, dry place for future reference.

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