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Digital Patterns

Designed by Steve Good

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steve@stevedgood.com

General Pattern Information

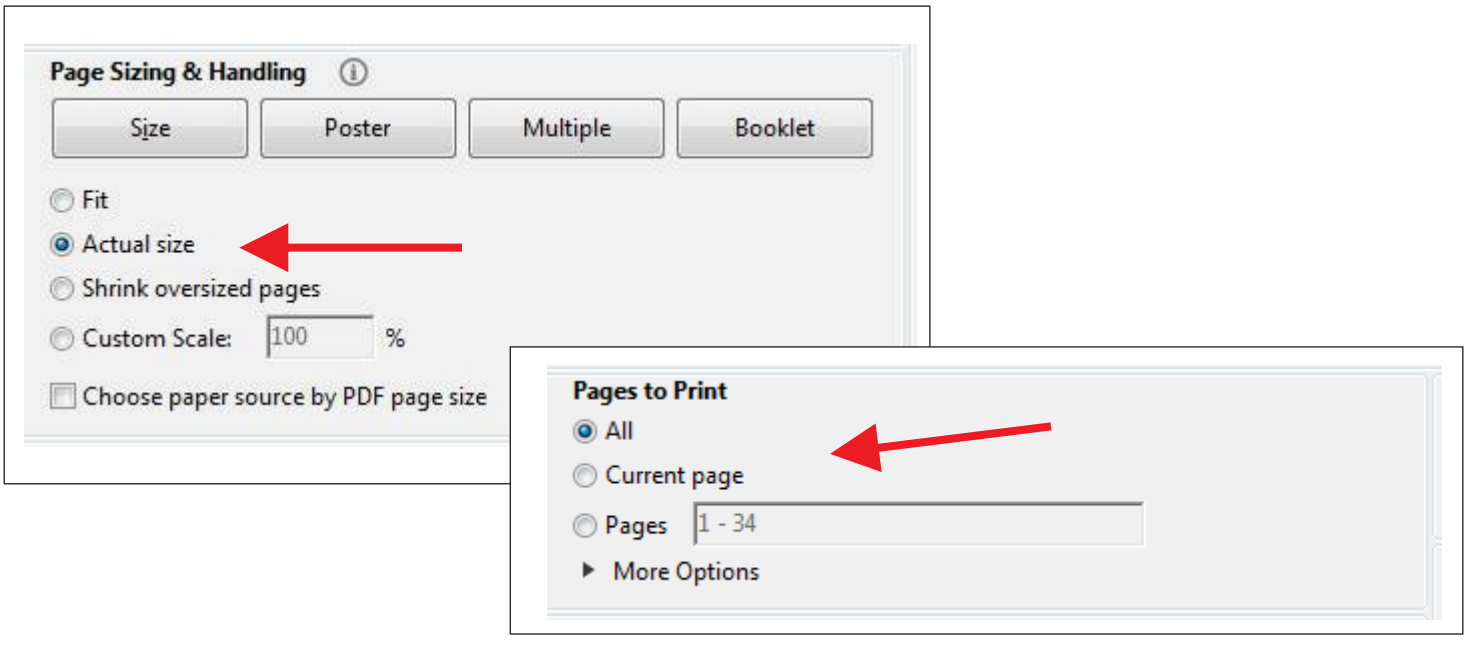
You may use this pattern to make as many of the project as you like. You are free to use any technique including mass production to build the project. The pattern may be copied and given to others provided the entire book is kept intact. You may not sell the pattern or include it in another commercial package of any type.

Steve Good retains the right to the pattern. If you have any questions about the use of this pattern please contact me at steve@stevedgood.com

Printing Instructions

When printing this pattern it is important to print it full size. When you bring up the print dialog box look in the “Page Sizing & Handling” section. Make sure the “Actual Size” is selected before you hit print.

You also only need to print the page/s you need. After the print dialog opens look for the “Pages to Print” section. You can print the current page or a range of pages. This will help save ink by not printing the title/instruction pages.

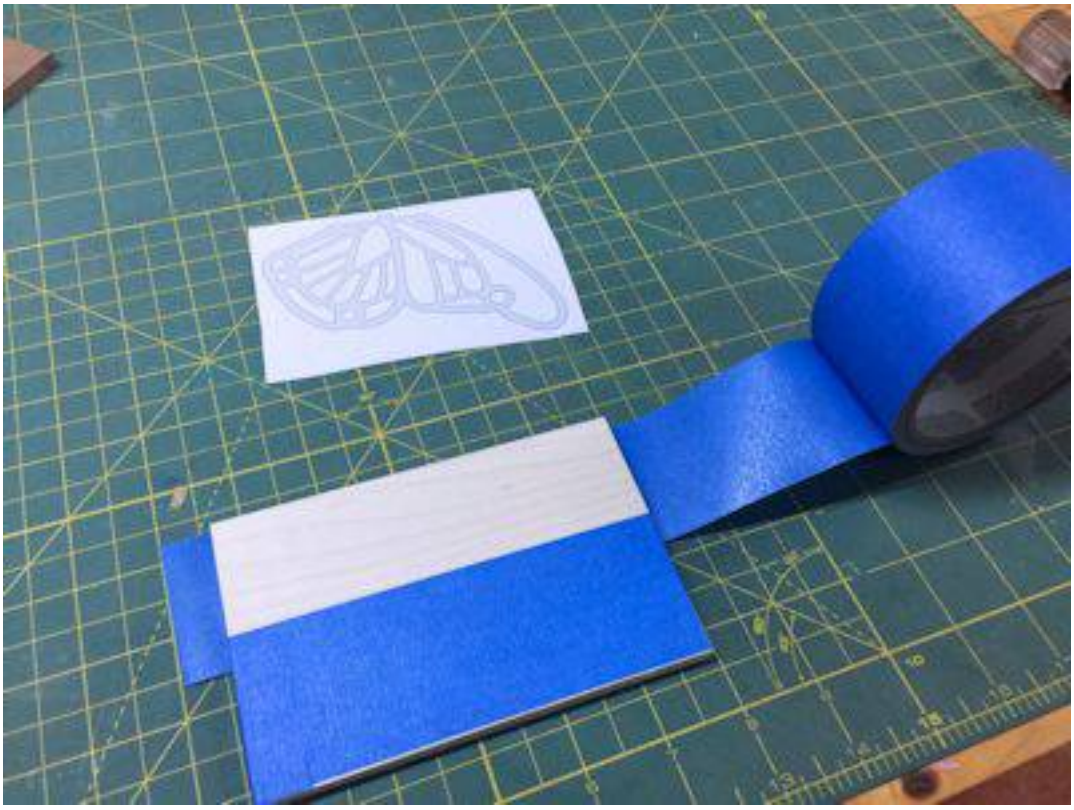


Butterfly Wings

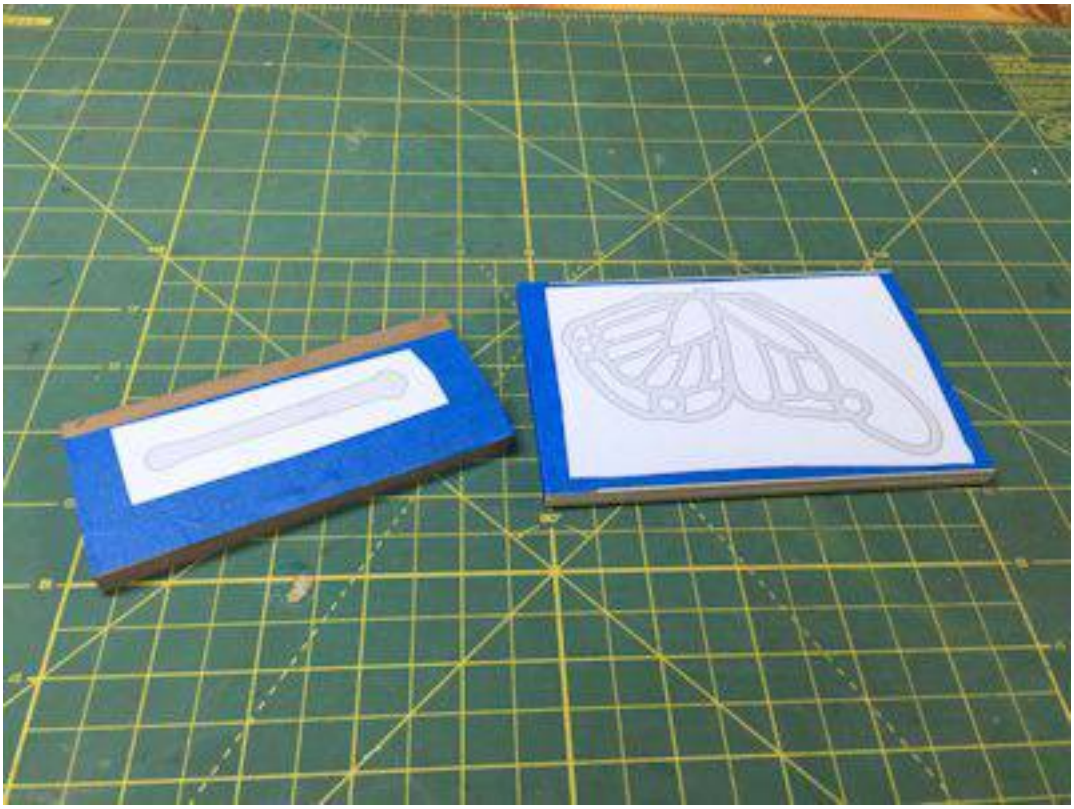
I am using 1/8” thick poplar for the wings and 1/4” thick walnut for the body. I am only going to use one of the wing patterns and stack cut two wings at once.

You will also need some copper wire. Just find a guage that is stiff enough to hold up the butterfly. You will need four pieces each 2 3/4” in length.

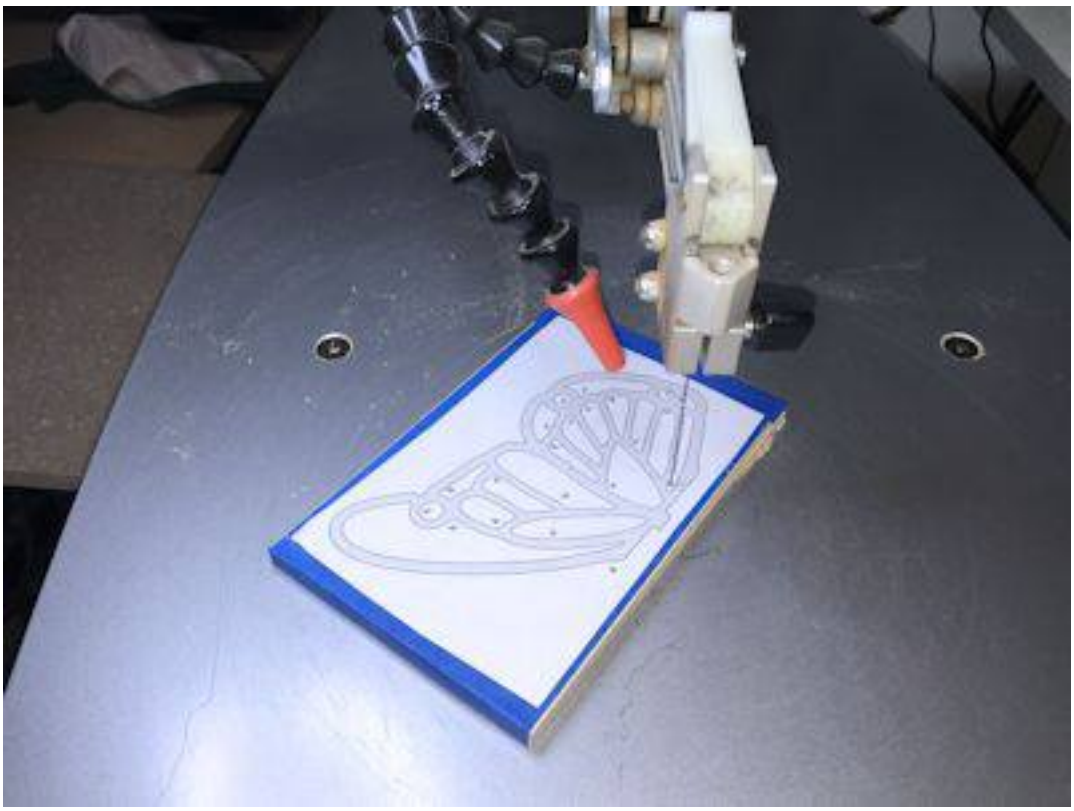
I’m am preparing for the stack cut by taping both 1/8” thick boards together. You don’t have to stack cut the wings but it’s faster and easier to cut.



The body pattern is applied to the 1/4” thick walnut and the blanks are ready for drilling the interior holes.



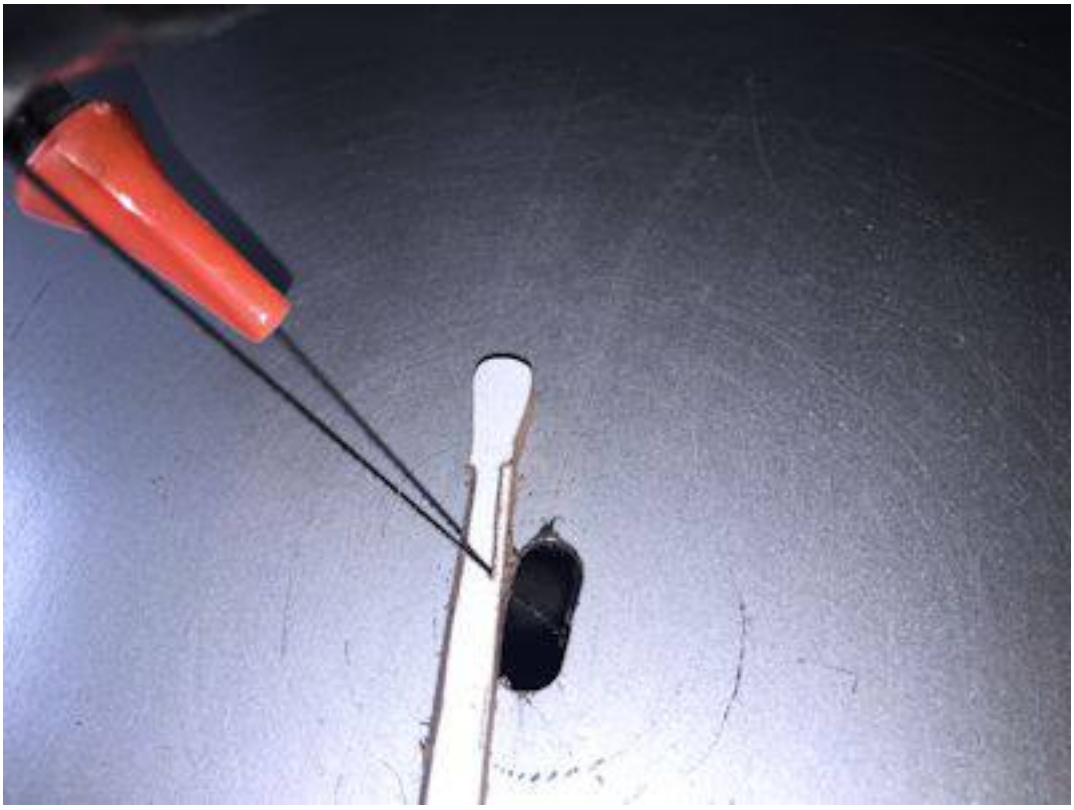
All the interior holes have been drilled and the stacked wings are ready to cut. Cut all the interior holes first.



The wings and the body have been cut. The body needs two extra bevel cuts for the wings.

Carefully remove the tape and pattern.
The wings a fragile so don’t rush this step.

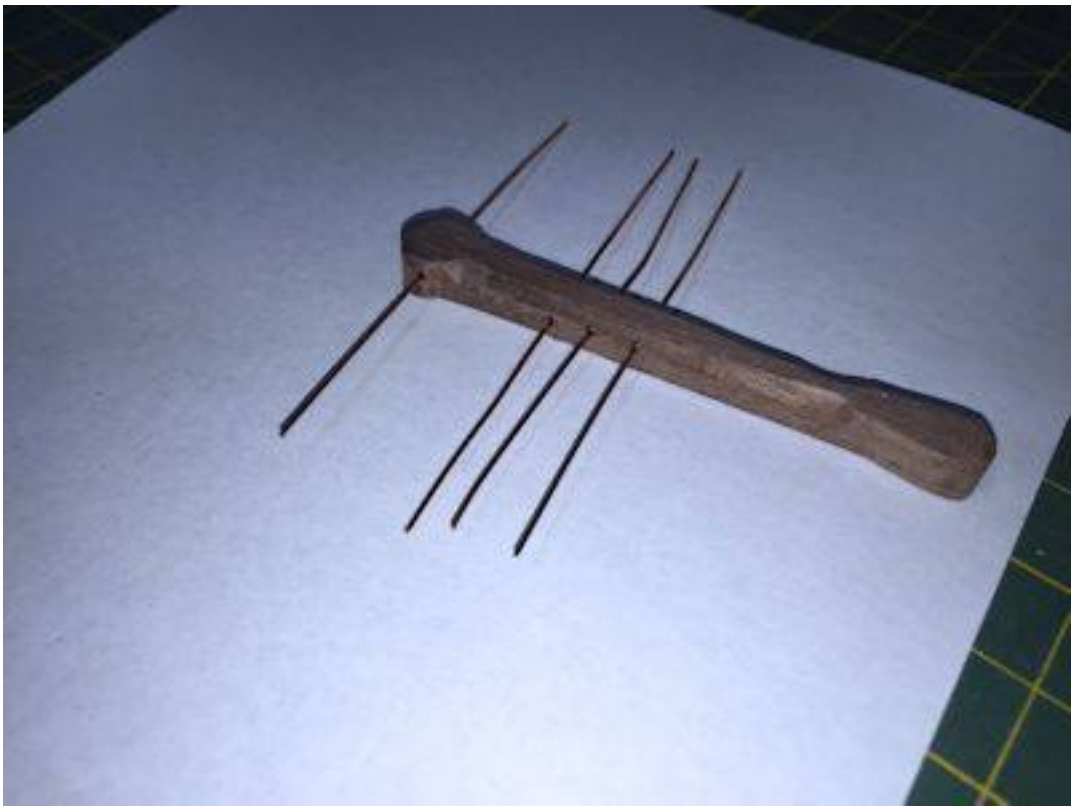
Tilt the scroll saw to 25 degrees. Cut the bevel along both the top left side and the top right side. This bevel is where we will glue the wings.



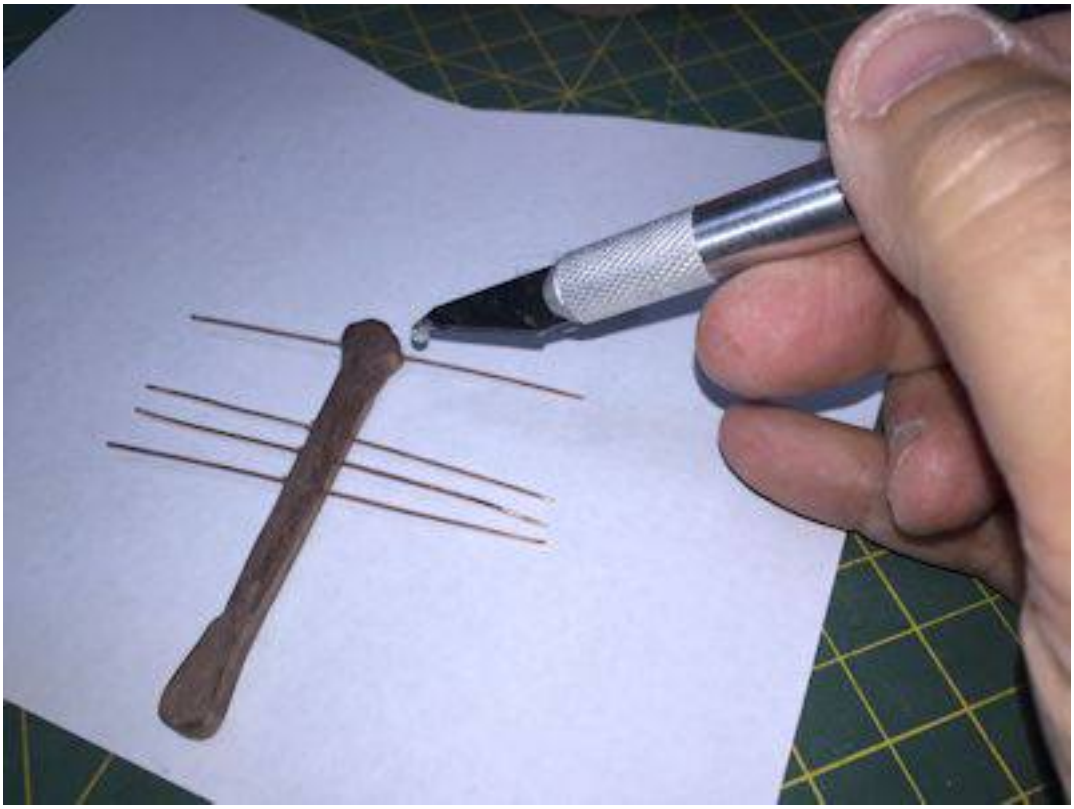
We need to drill four holes for the legs and antenna. Drill the antenna hole near the top of the head. Drill the three leg hole near the bottom of the body. Make sure the legs will not interfere with the wings when attached. See the next page for detail.

Notice that I used folded paper under the tail of the body. This allowed the holes to be perpendicular to the length of the body.

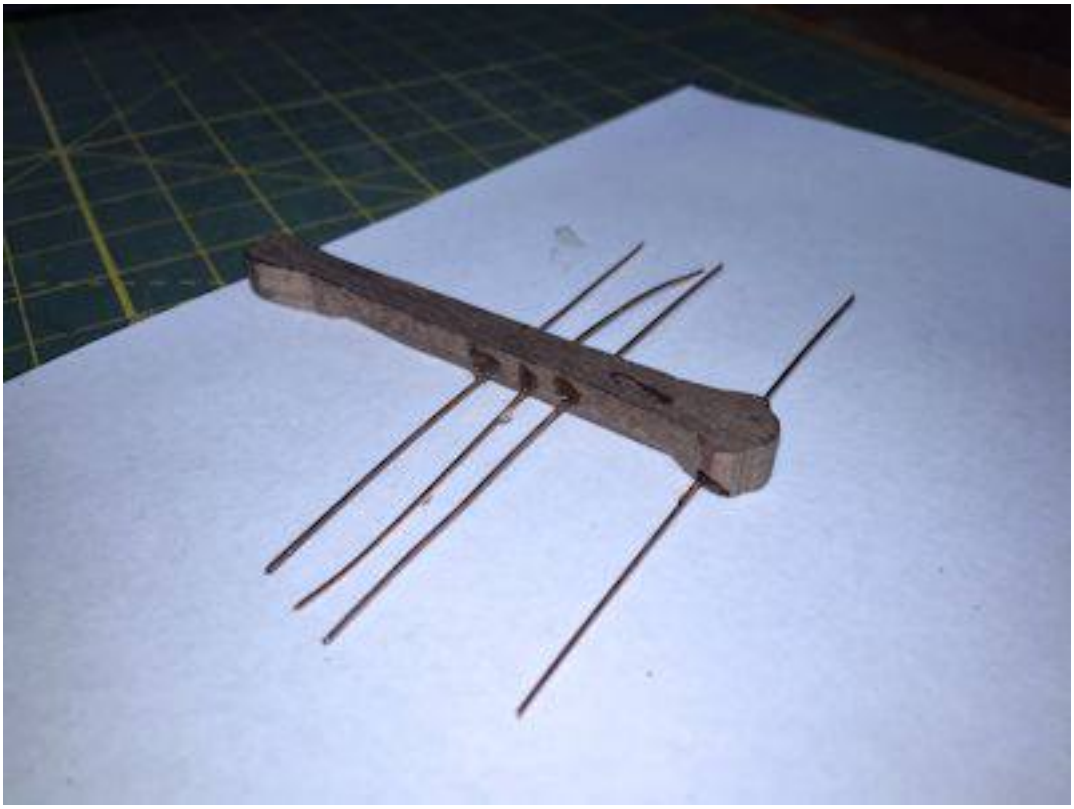
I have inserted the copper wires through the body. The wires should be cut to 2 3/4” in length. Center then to the body.



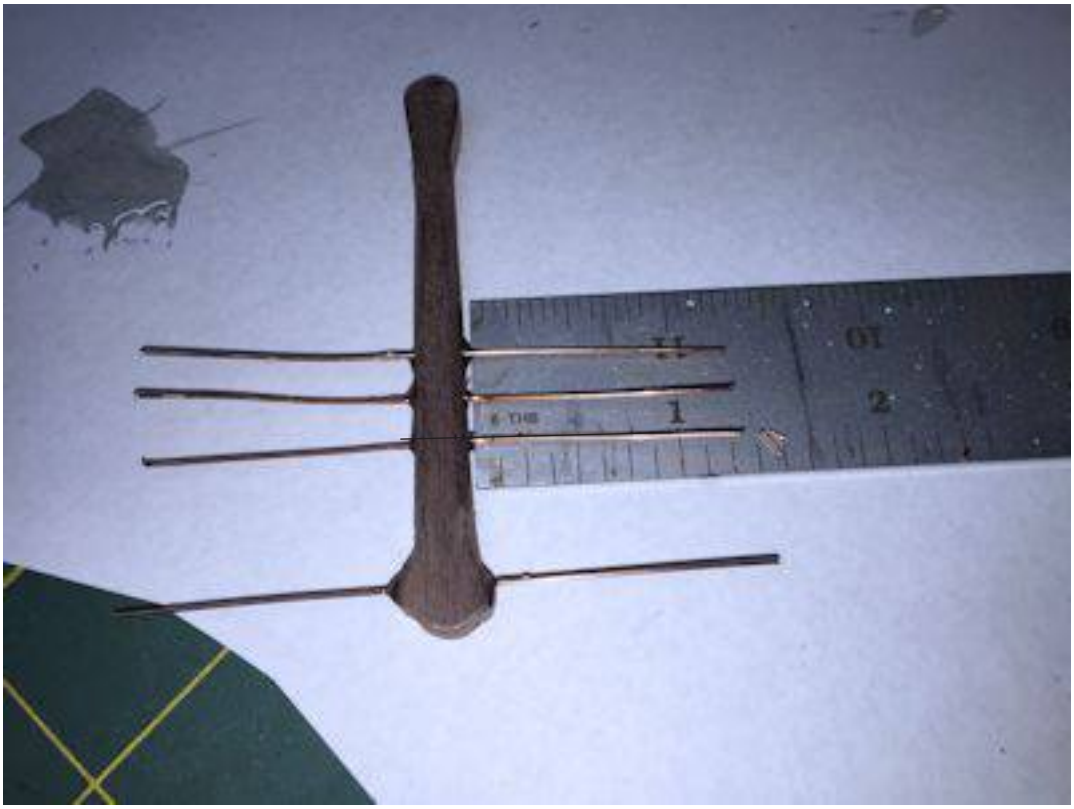
I mixed up some 5 minute epoxy and am applying it to each side of the body to lock the legs in place.



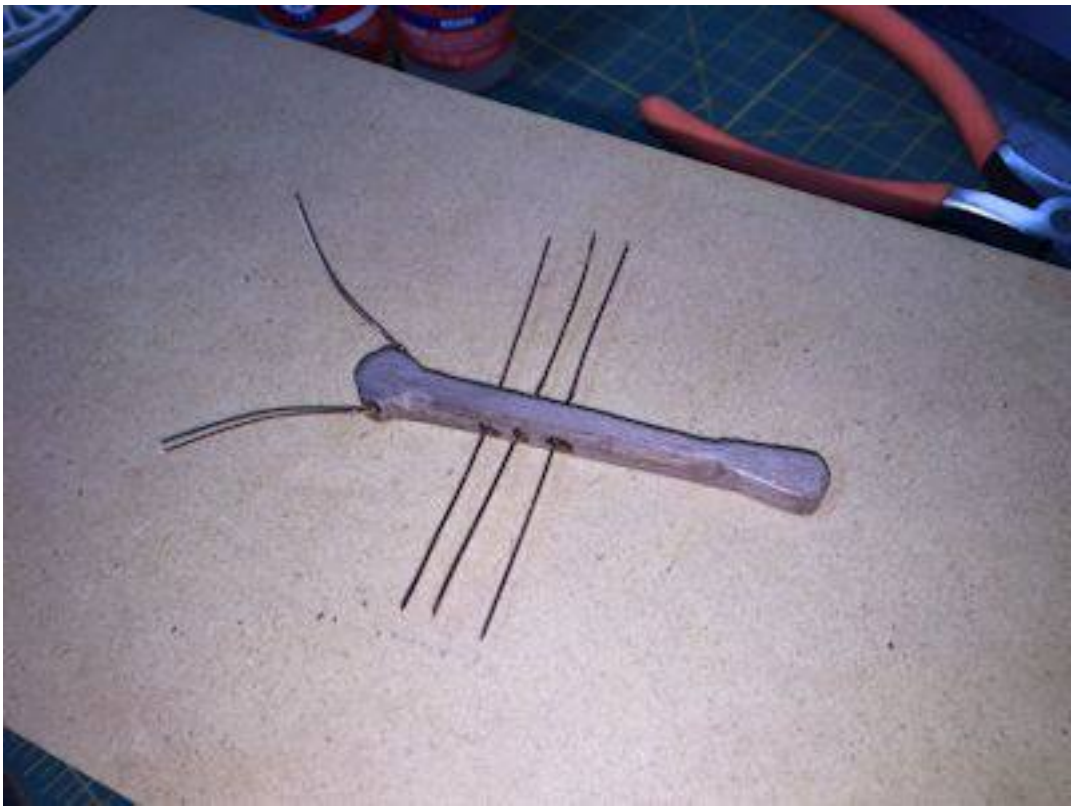
Let the epoxy dry completely so the legs are firmly attached to the body.



make sure all the legs are the same length. They should stick out each side of the body 1 1/4”.



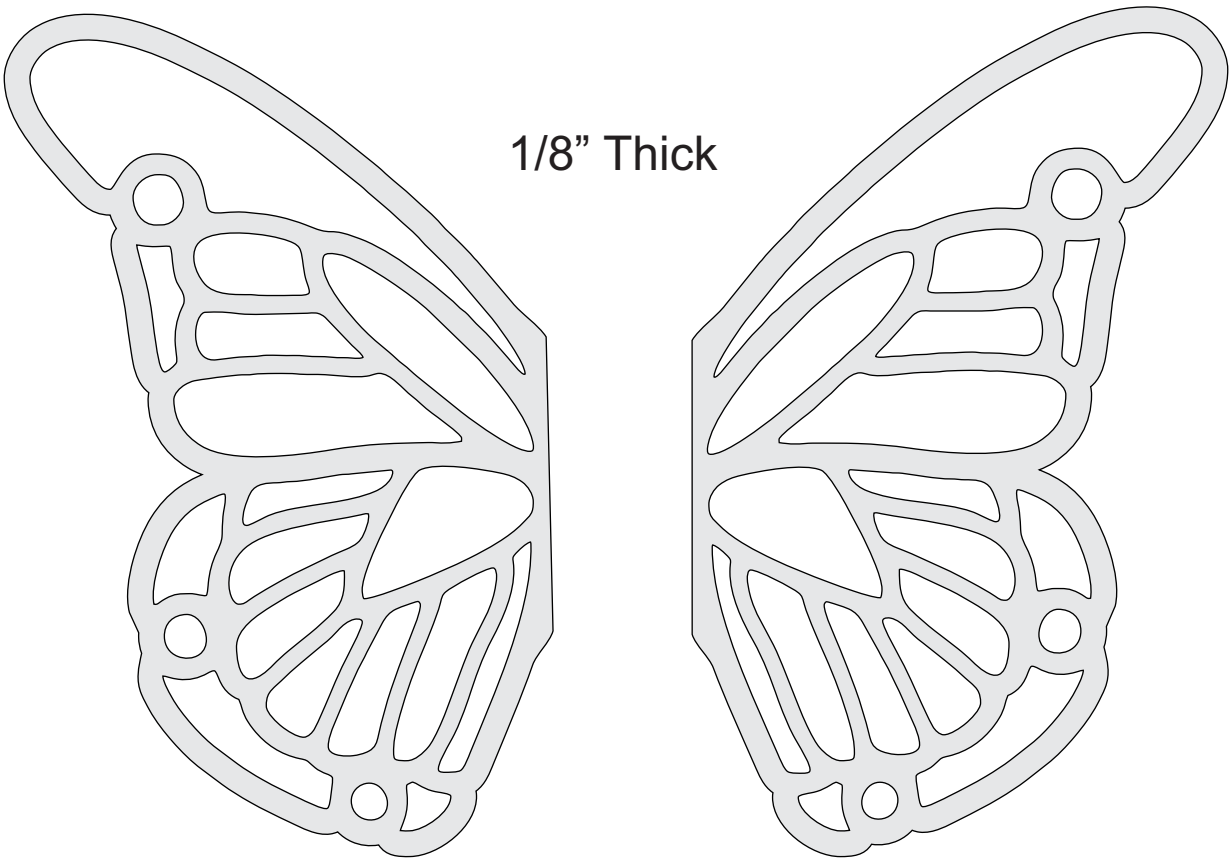
Form the antenna. The should be slightly curved and slightly lifted up.



Now form the legs. The butterfly should sit with his head higher than his tail. All six legs are bent in two places. Look at the completed butterfly on page three for an idea of how they are bent.

I used super glue to apply the wings. This works best if you have the medium gel superglue and accelerator.

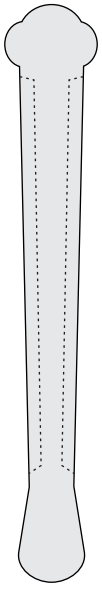
To complete the model I sprayed it with three coats of acrylic.



1/8” Thick

Both wings are patterned but it’s best to use one wing pattern and stack cut both at the same time as per the instructions.

1/4” Thick



Cut at 25 degrees bevel on dotted lines.


3/4” Thick Base
Route a decorative edge
if you have a router.