

SCROLLSAW WORKSHOP

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Digital Patterns

Designed by Steve Good



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Note to commercial print employees: I give my permission to print as many of this pattern book as your customer requires.

steve@stevedgood.com

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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

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.

Printing Instructions



Butterfly Automata



Animation at this link

<https://scrollsawworkshop.blogspot.com/2020/01/butterfly-automata-scroll-saw-pattern.html>



Stack cut these pieces from 1/8" BB Ply

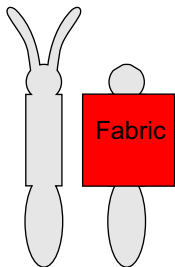


Cut the stand from a 3/4" thick board.
Carefully mark and drill the holes with drill bit.
Make sure you back up the holes as to drill or
the stand will probably break.



Cut the top and bottom halves of the body. Cut off the antennas from the bottom half.

Sandwich a piece of fabric between the two body halves. Round over the edges of the body and wings where the fabric is glued on. You want the wings to be able to flap and not bind



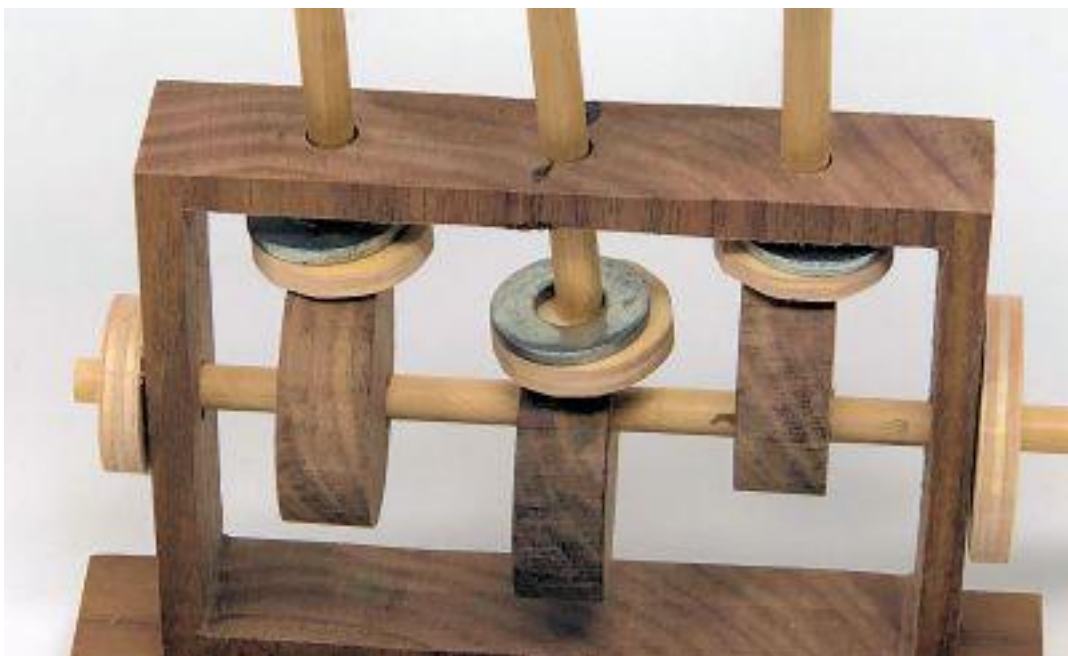
Apply the circles to the bottom of the wings. These hold the shafts in place for the wings.

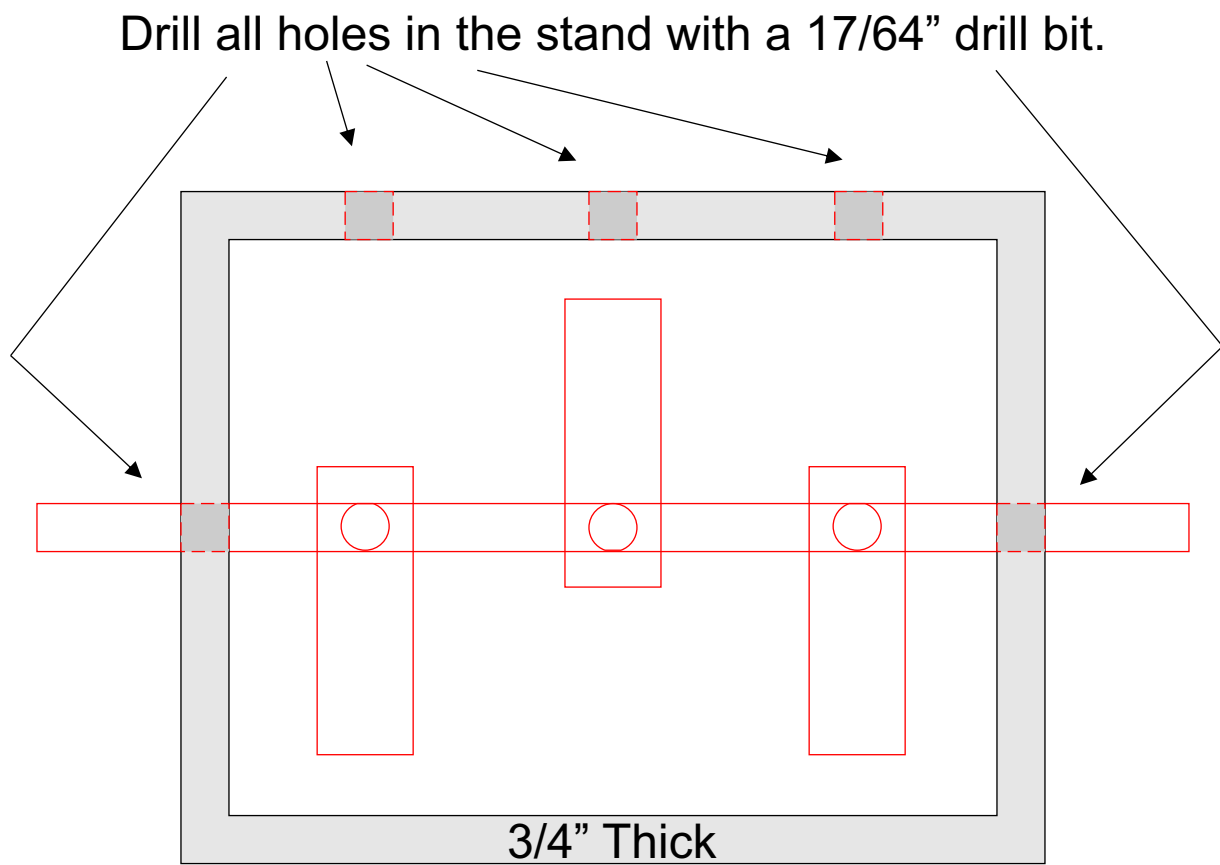




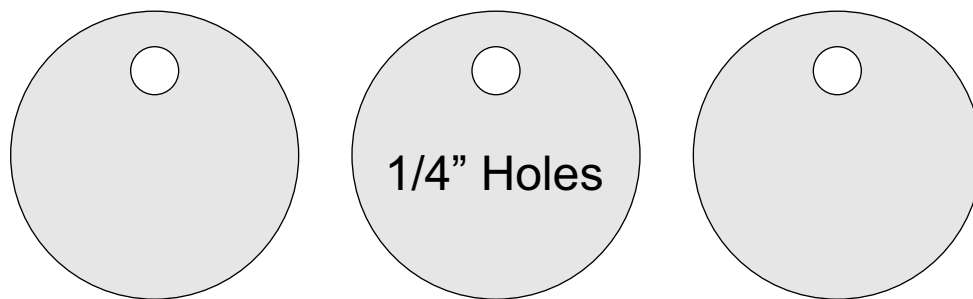
This is what the bottom of the butterfly should look like. Double check that the wings move freely and don't bind

The washers add weight to help the cam followers

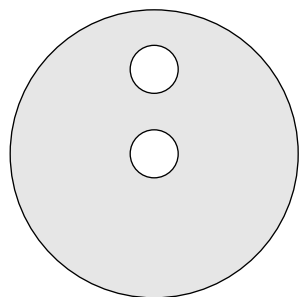




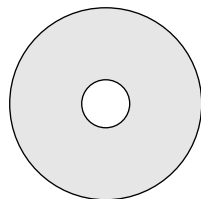
Mark and drill the holes accurately.



Cams. 1/2" Thick

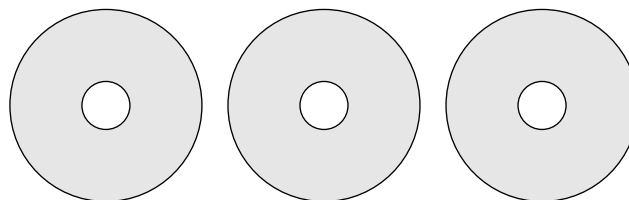


Crank 1/4" Thick

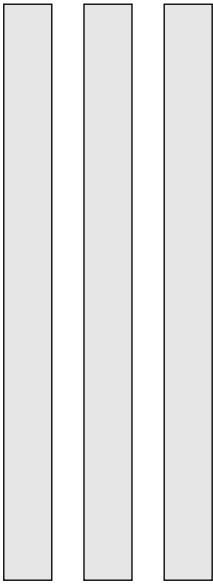


Keeper 1/4" Thick

Cam followers 1/8" Thick



Wooden dowel dimensions.



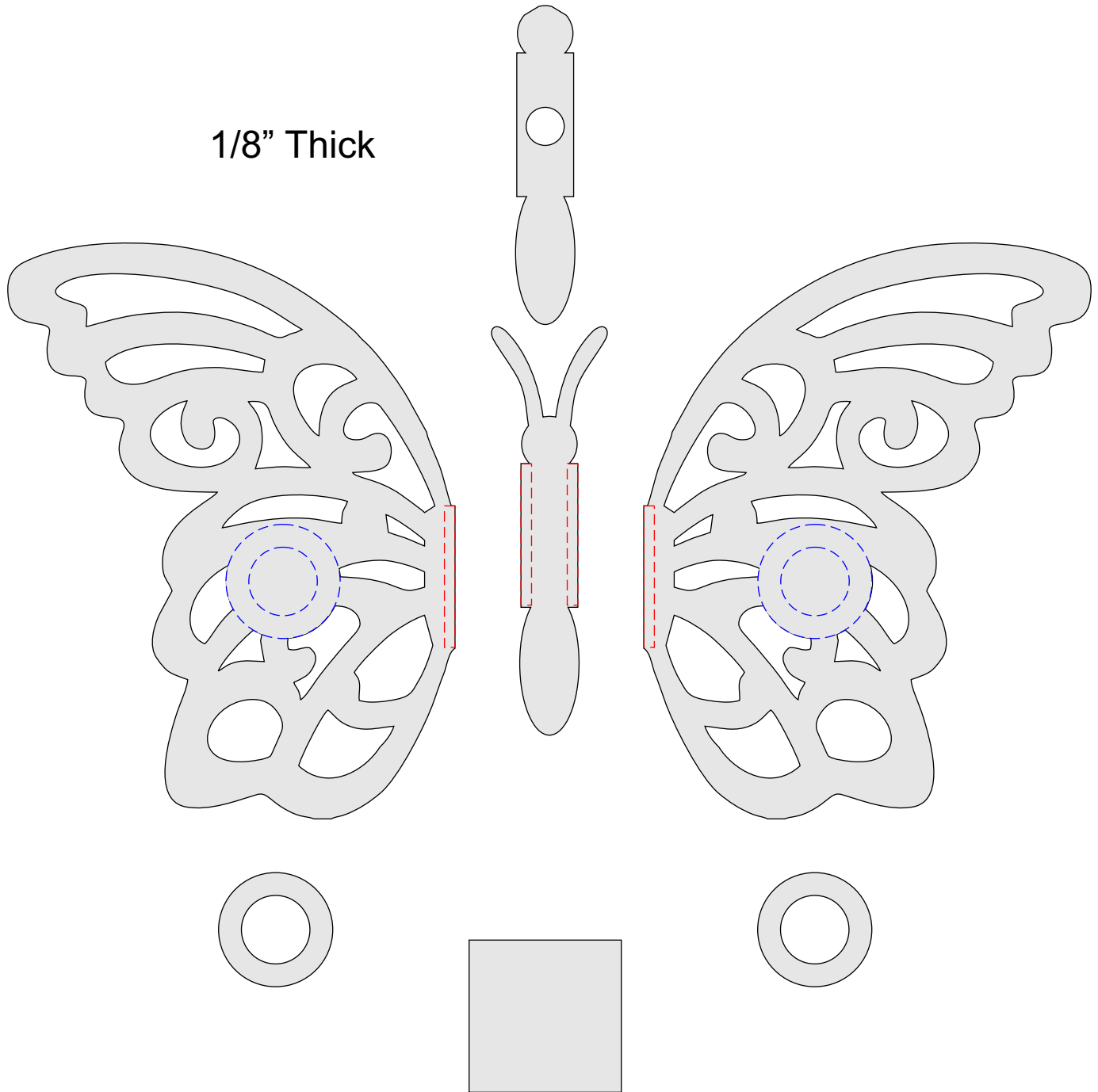
Cam shafts 3" long and 1/4" diameter

Drive shaft. Start with
6" long and 1/4" diameter.
After fitted cut to length needed.



Crank handle
2" long and 1/4" Diameter

Glue the body shaft into the body.
The wing shafts are free floating and
simply ride in the circles to keep them in place.



Round over the edges where the red lines are.
This makes the wings flap freely.



Base 3/4" Thick