# SCROLLSAW WORKSHOP

WWW.SCROLLSAWWORKSHOP.BLOGSPOT.COM

## Digital Patterns

### Designed by Steve Good

Hundreds of free Patterns
Stencil Printer
Jigsaw Puzzle Templates
DVD's
Key Chain Pattern Printer
Video Tutorials
Reviews
Community Forum and more.


If you would like to donate click here. No Paypal account needed.

PayPal Donate Now

VISA MasterCard DISCOVER AMERICAN EXPRESS

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

steve@stevedgood.com


# General Pattern Information

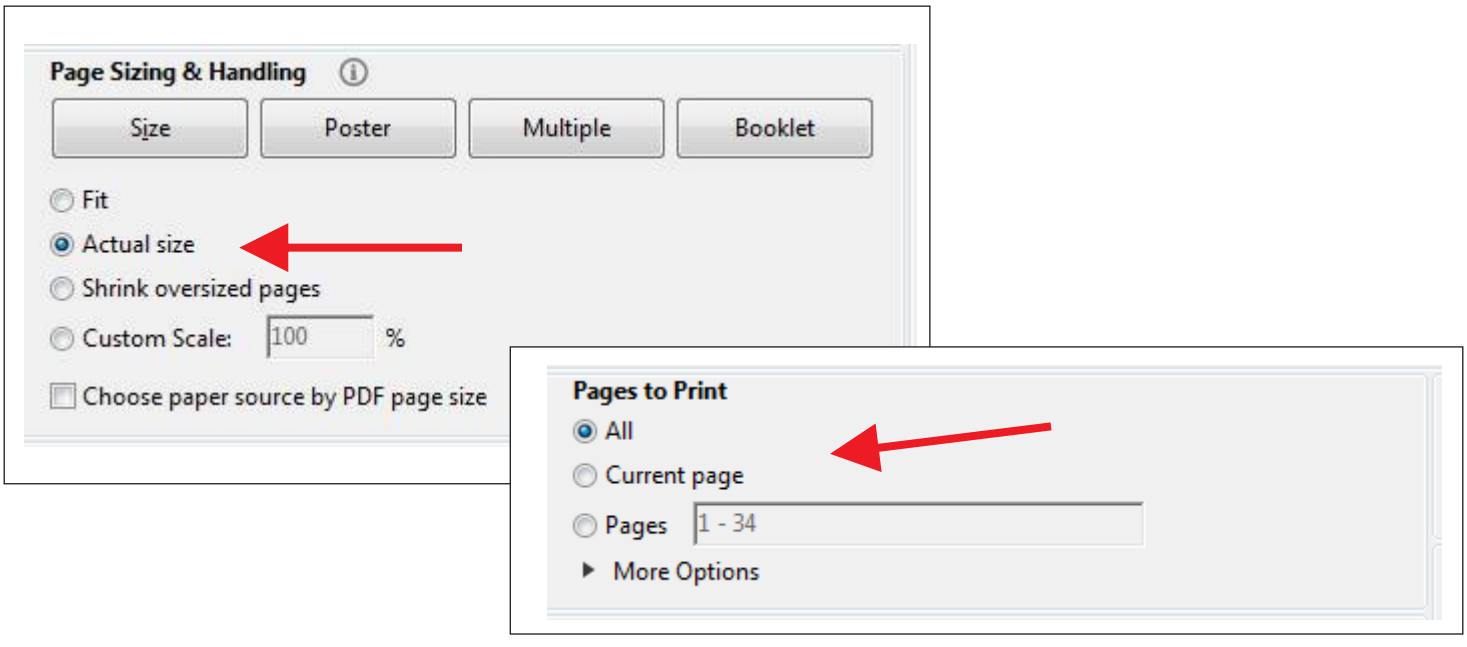
You may use this pattern to make as many of the project as you like. You are free to use any technique including mass production to build the project. The pattern may be copied and given to others provided the entire book is kept intact. You may not sell the pattern or include it in another commercial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

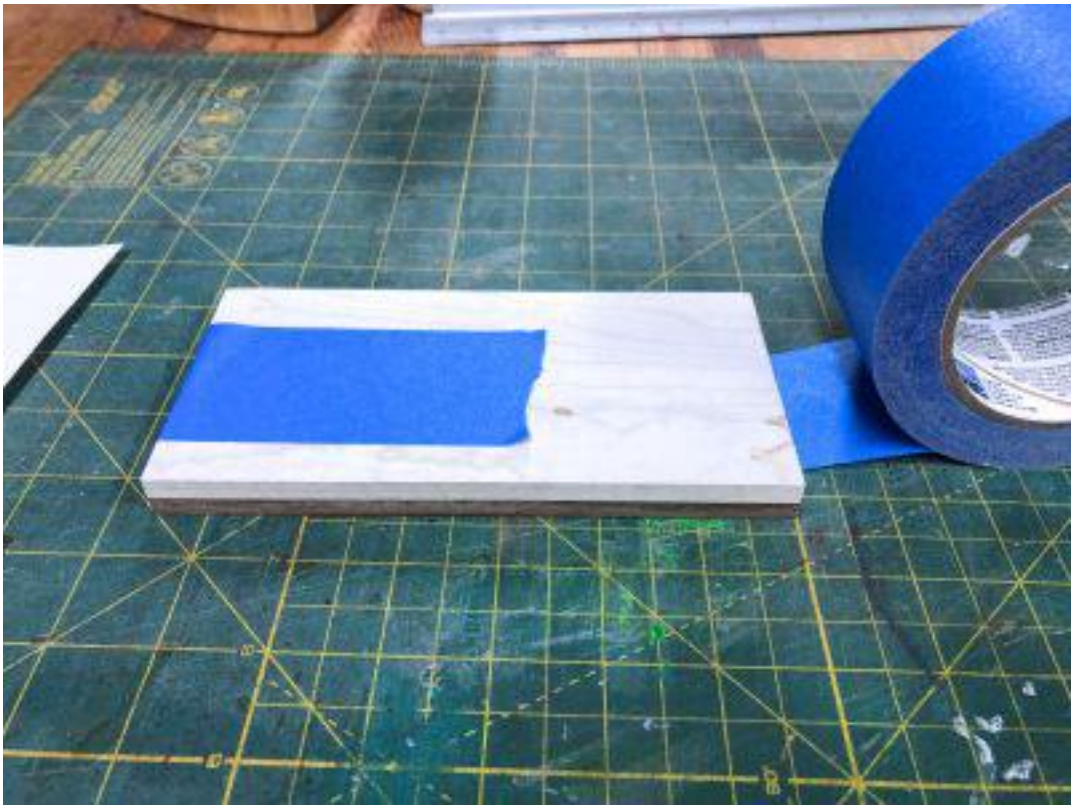

This book is a complete course in the scroll saw double bevel inlay technique.

On the last page is the pattern for this inlaid initial key chain.


You will need the pattern printed out. Print at least two copies.

You will need two contrasting woods. I used walnut and maple.

You will nesd blue painters tape, scissors and spray adhesive.



Wrap the two pieces of wood with the blue painters tape. We will be cutting both at the same time.

Note that the wood on top will be inlaid into the wood on the bottom.

If you want walnut letters inlaid into the maple then put the pattern on the walnut side.


We will use the spray adhesive to glue the letters on to the key fob patterns.

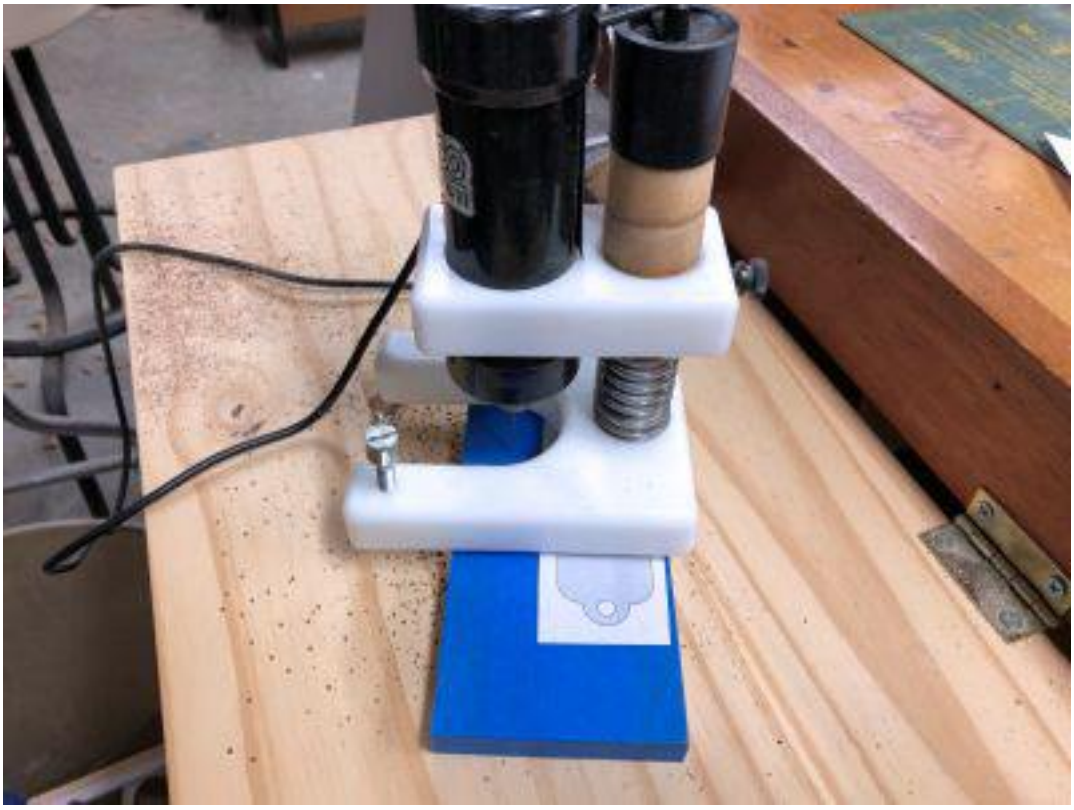
Carefully cut out the letters you need.

Place the middle letter centered on the key fob.


Arrange the other letter on the key fob.

Note that the walnut is on top.

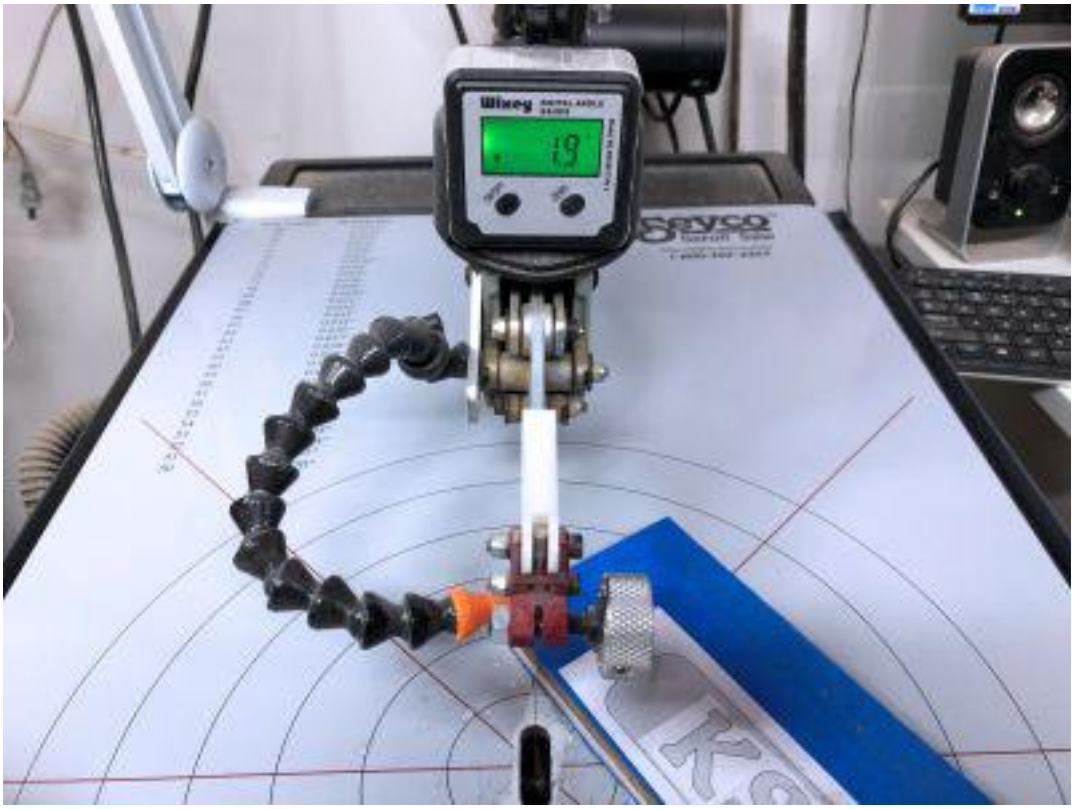
Make sure all the pattern pieces are glued well to the stack of wood.



Before we start cutting the pattern we need to do test cuts.

The blades has to be tilted at an angle for this technique to work. These test cuts will determine that angle.

Drill at least three holes in the waste area.




I am going to make a guess for the first test cut. I set the angle of the blade to 1.9 degrees. On my saw the head tilts and not the table. You will have to adjust if your table tilts.

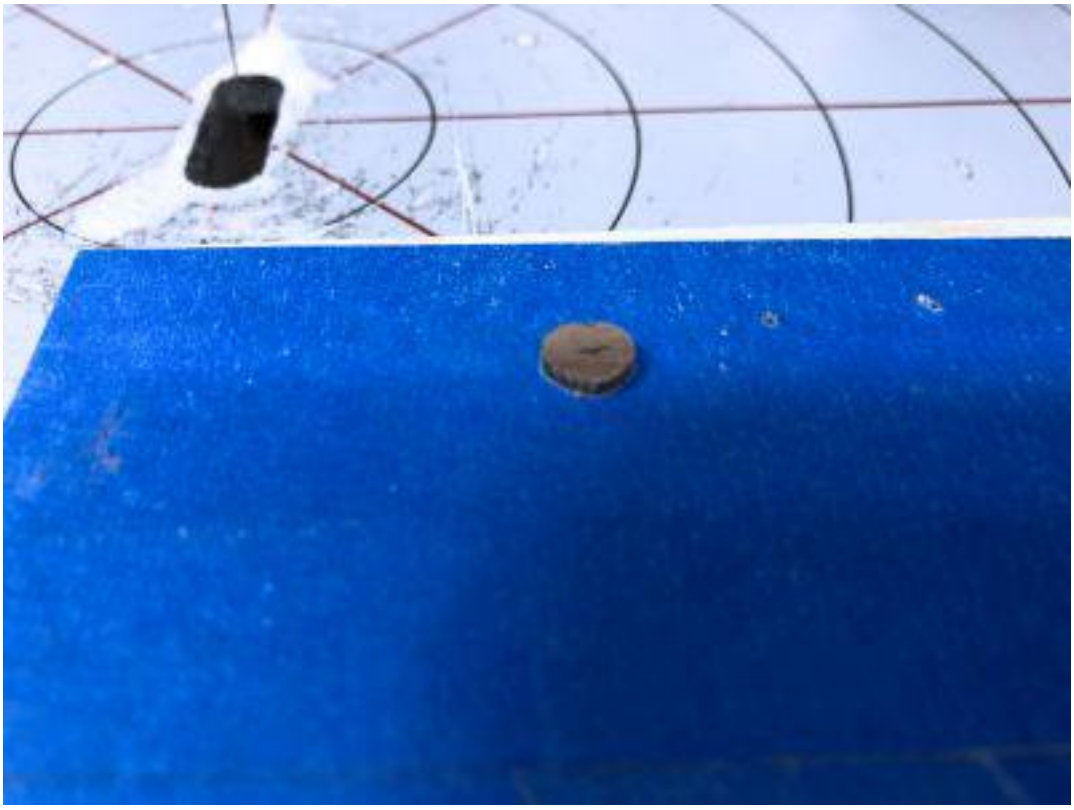
The blade is tilted to the right.


I cut a small circle for the test.

You want the cut pieces to fall from the top down and get wedged in the bottom board.

Because we are cutting at an angle the pieces form a wedge shape. It's like a corm in a bottle.

With my blade tilted right I had to cut in a clockwise direction to get the piece to fall down.

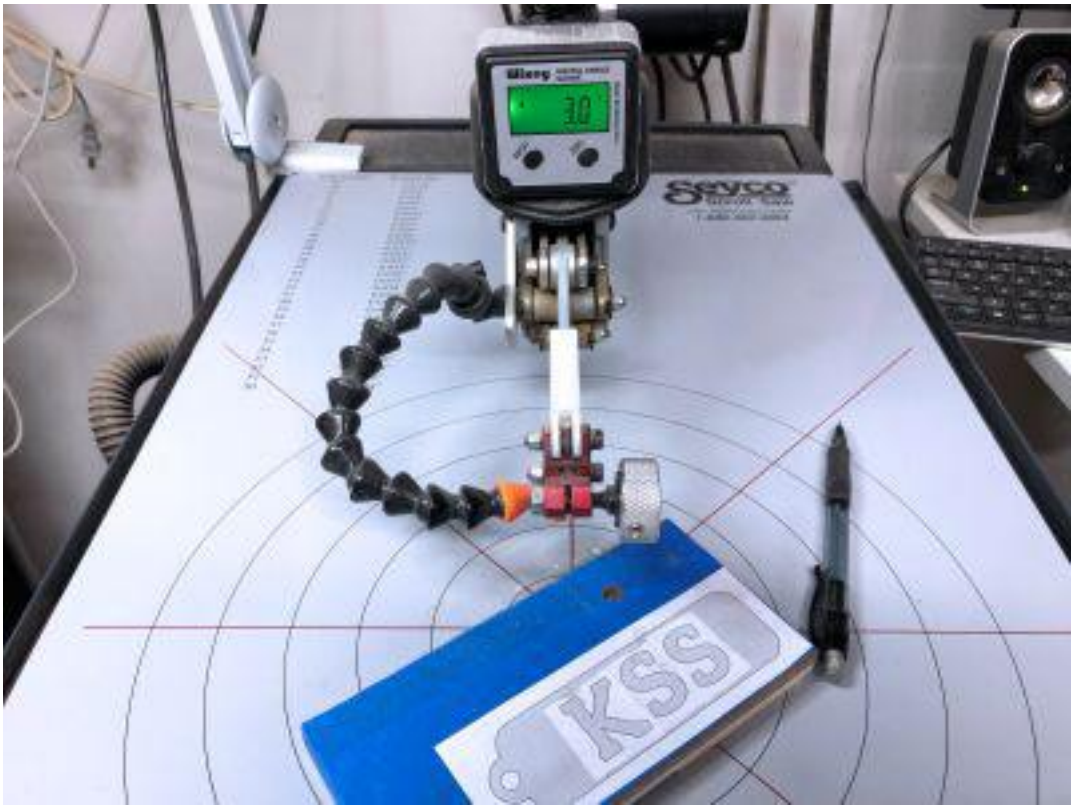


After the first test cut I pushed the pieces down.
The maple fell out and the walnut wedged into the maple.

Looking at the bottom of the board you will see that the walnut is sticking out. This means that the angle is too shallow.

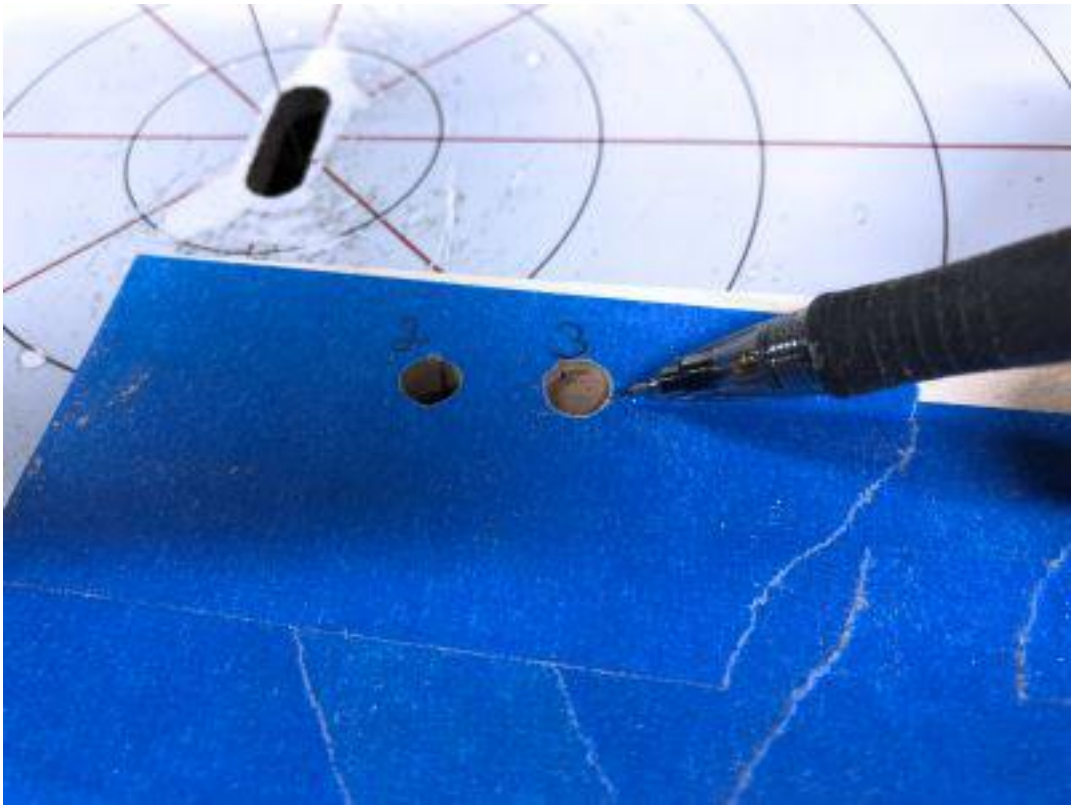
We don't want the walnut to come out the bottom.

It will make sense soon.



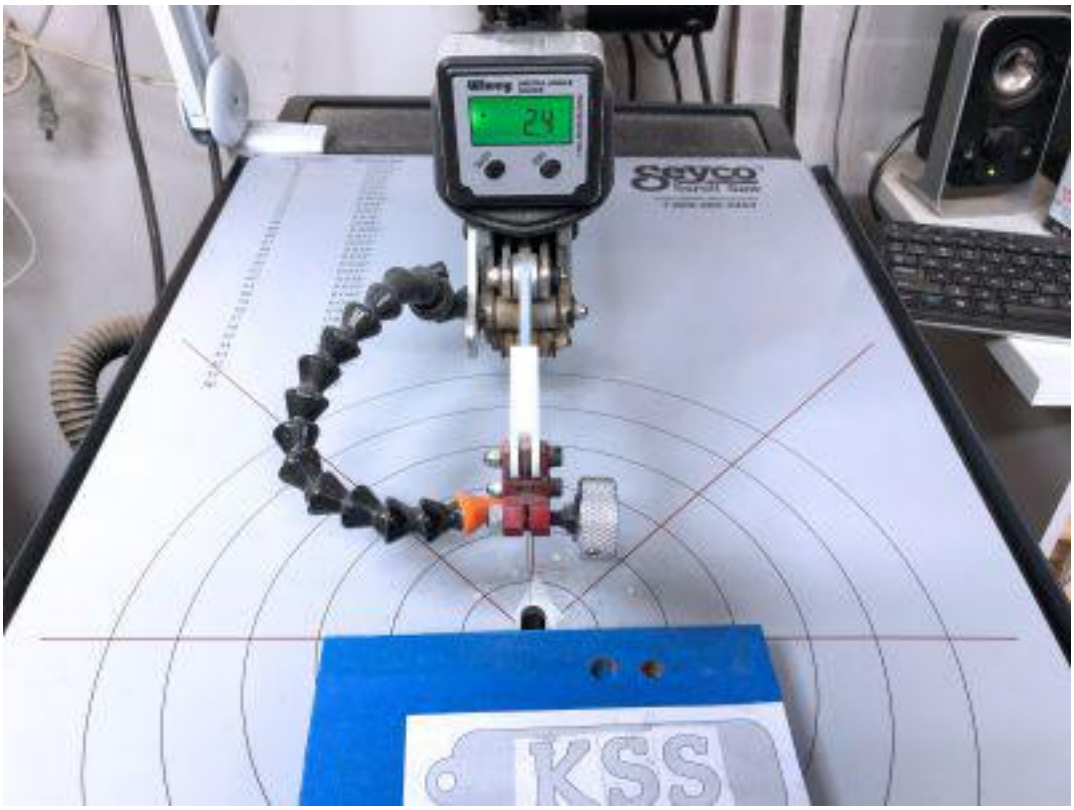

I like to cut in a counterclockwise direction so I moved the tile of the blade to the left. I adjusted the angle to 3 degrees. This is 1 degree larger than the last test cut.


We cut the second test at 3 degrees counterclockwise.



Here is the back side of the second test cut at 3 degrees. Note that the walnut does not come out the bottom.

This is closer to what we want but I'll do one more test.




I am going to split the differences of the first two test cuts.
I am at about 2.5 degrees.

Here is the back side of the board with the blade at 2.4 degrees. Note that the walnut is just slightly below the surface. This is exactly what we want.

We are now ready to start cutting our initials.


It is not absolutely necessary but drilling the interior holes at the same angle the blade is tilted can sometimes make the entry hole less obvious in the final project.

We will talk about a technique to hide the holes later.

I am using the Seyco scrollers drill but any drillpress will do fine. You can also just use a hand drill if that's all you have.

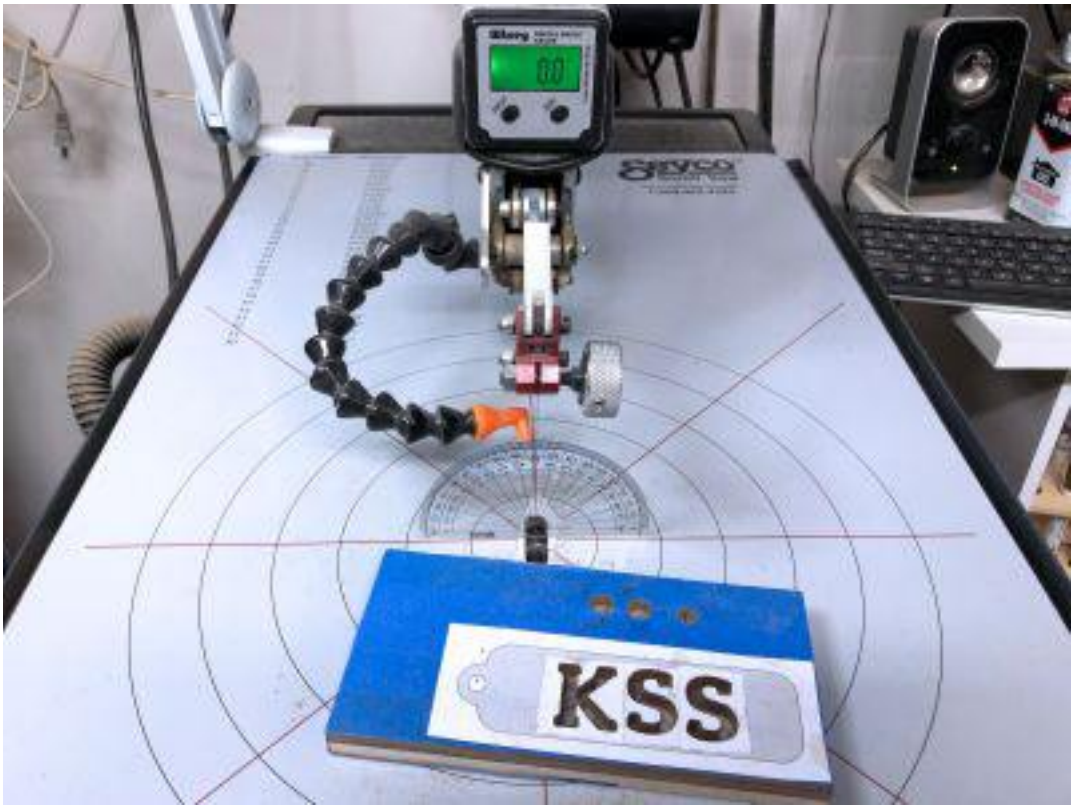
I am going to carefully drill the entry holes just outside the pattern line. I'll show what later.

Notice that I am using a very small drill bit. The smaller the bit the easier it will be to hide this hole later.

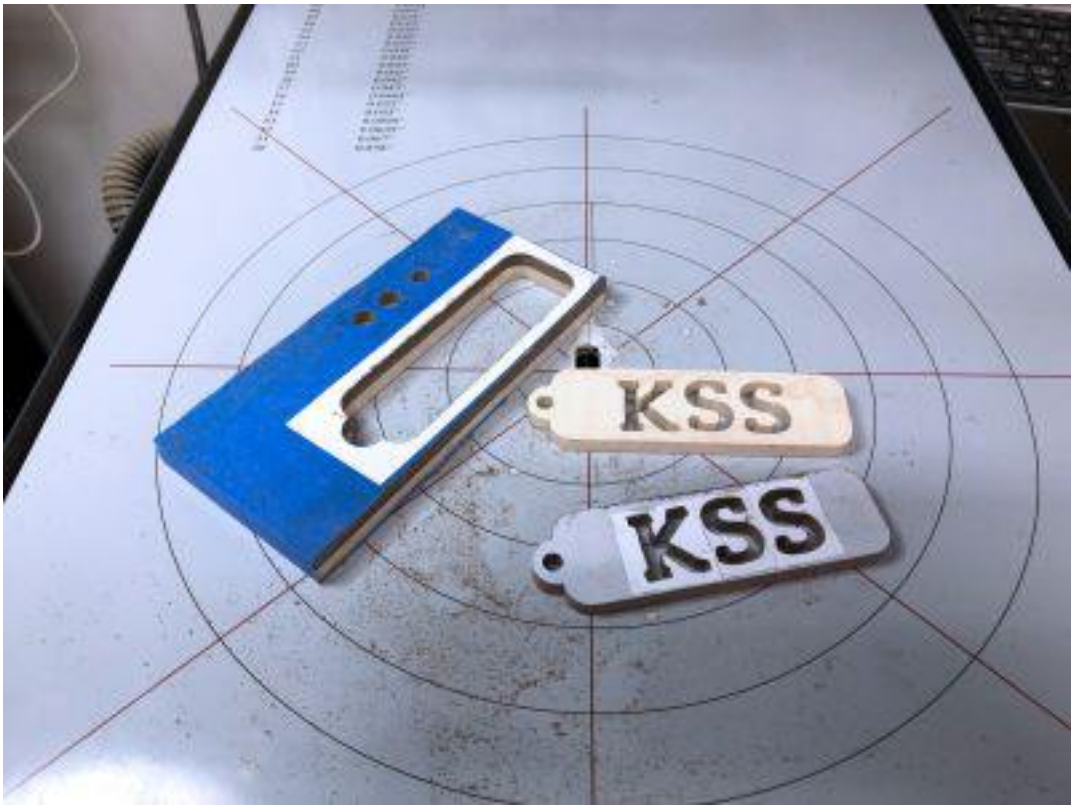
This is a micro drill bit that is 1mm.


I am also going to use a small scroll saw blade. I'm using a #1 blade. This is again not absolutely necessary but it make the turn of the cut much easier and generally gives to sharper letters in the end.


Here is the first letter cut. We are inlaying the walnut in to the maple so we keep the walnut letter and the maple letter is waste.




After all three letters have been cut we need to set the blade back to 90 degrees to cut out the key fob exterior.

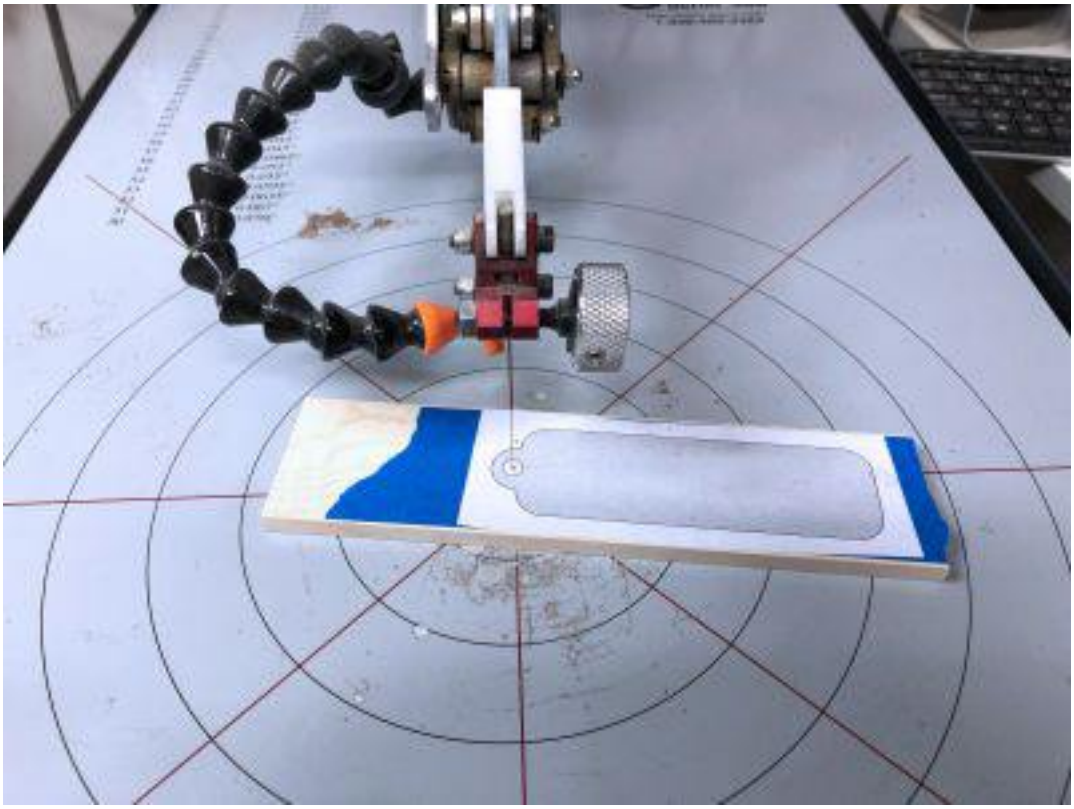



We make the exterior cut. This time the walnut is the waste and we keep the maple.

Note that I cut the hole for the chain. It is probably easier to drill this hole after everything is all glued up. Your choice.


Now we get out first look at where we are going.

Note that the walnut is slightly protruding from the maple when it is pushed into the key fob. This is what we want. We will sand it flues for a perfect fit.

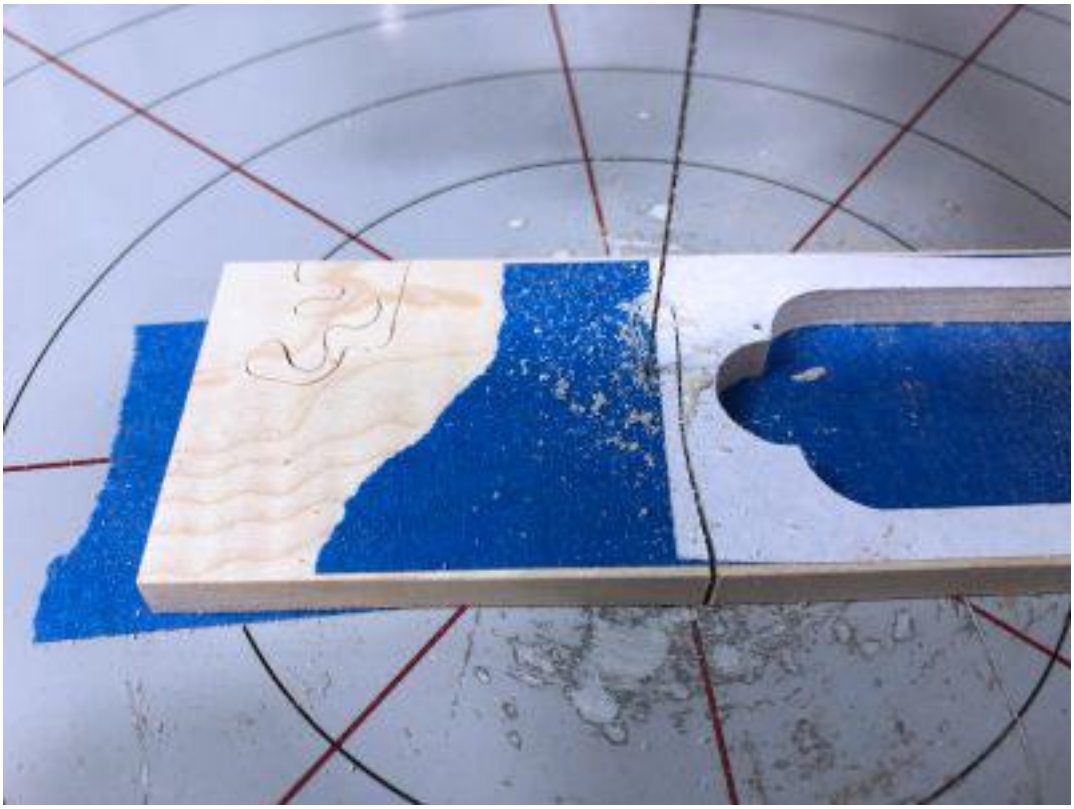


Now we can cut out another copy of the fob. We will glue this to the back to hide the back side of the letters.


Here are all the pieces ready for glue up.


Put a small amount of glue in the cut out and press the letters in as far as they will go.


Glue on the back and clamp it to dry.



We are going to make out own wood putty to hide the drill entry holes.

Take a waste pieces of the maple and make a pile of saw dust.
Move your blower out of the way and don’t sneeze.
If you install larger blade this goes faster.


KSS


It’s time to sand the letters flues with the surface of the maple.

Use whatever sanding tools you have and get is perfectly flush. I used a disk sander to make it go fast.


After the letters are sanded flush you will see that the entry holes are too visible. We need to fill them with our DIY putty.

The reason we drilled slightly outside the letter is so we could use the maple saw dust to fill the holes. This generally looks better than filling with dark putty in the walnut.

Mix a small amount of yellow wood glue with the saw dust you collected in the earlier step. You want a putty consistency.


Use your finger to push the putty as deep into the hole as possible.


Set is aside and let the glue dry completely.


After the glue/putty dries sand it off and you will see that we have concealed the holes pretty well.

Use the finish of your choice.
Install the bead chain and split ring.
All finished and ready to give to someone you love.


A B C D E F
G H I J K L M
N O P Q R S
T U V W X
♥ Y Z ♥