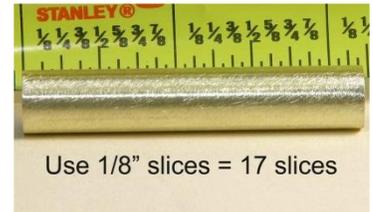


Making a Segmented Pen using a segmented pen blank by Jason Swanson



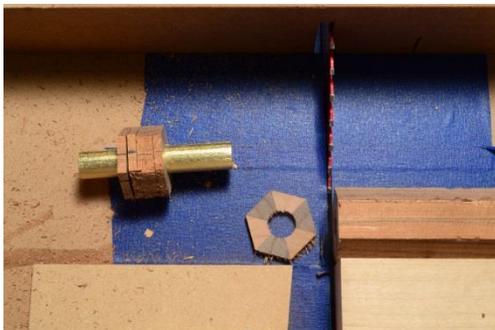
Decide which pen kit you are going to use and rough up the tube.

Measure the tube and divide it up into 1/8 pieces as shown. The diablo saw blade has a 1/16" kerf and you will cut 17 slices so you will have to allow for the saw blade kerf. So, 17/16 plus the length of the pen tube of 2 1/8 = 3 3/16" in length. I usually give myself a little extra length so my piece will be 4" in length, then I do not have to worry about getting too close to the saw blade. (Please note: this is not the pen tube for the Elegant Sierra pen kit, this is a tube from another kit but it happened that this was a nice way to show you how to divide up the pen tube into segments – you will need 19 segments for a Sierra style pen kit!)



I use a 1/6" kerf diablo saw blade and place a piece of painters tape over the saw blade to create a zero tolerance blade.

Mark Heiden from Marc Adams School of woodworking built the sled to the right so I could accurately cut the same slices over and over again. He used a flip down piece that was mounted to a hinge to accurately give the same dimension again and again.



Cut the 1/8" slices using a sled and place them one by one onto the pen tube so you do not get them lost or mixed up.

After all the pieces are cut and placed on the pen tube, number them and draw a reference line in the center of one of the staves. This will be used as a reference line to move your pieces around the pen tube in order to maintain a consistent pattern.





Note:
Arrows
pointing to
where each
segment
will line up
with the
next
segment.

Use medium ca glue to glue the first two or three pieces together. I use the reference line from piece #2 and move it into the center of piece #1 – then I take piece # 3 and move the line into the center of piece # 2 and keep moving right around. (Again Please note: this is not the same piece of wood – it was too hard to see it on the staved segmented one so I used this one for dramatic purposes)



After you apply the glue around the pen tube, place another segmented piece onto the tube and press down to make sure you have a tight fit. This is important, if you don't do that, you will have uneven gaps in your pen!

After you have placed all your pieces onto the tube, flood the entire piece with thin CA glue.



Place onto a mandrel and turn your pen blank down close to the bushings. Next I will square the ends but I do not use a barrel trimmer!



a squaring jig as shown!

Place your squared up pen blank back onto the mandrel and finish turning the blank down to the bushings. Apply a finish of your choice either a CA glue finish (BG161) or a friction finish using Odie's Oil (BG187).



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