Missing Segmentation



David Vannier www.Daves-turned-art.com

The Secret Is.....

 Finding A Way To Hold Waste Segments Long Enough to Turn, But Not Permanent Requiring Carving To Remove Them

Yes, Wood <u>Was</u> in the Gaps When Turned!

Additional Tools

- Hot Melt Glue Gun
- Blue Painters Tape

All other tools I use to make any of my segmented pieces

Safety!

- Keep the speed down, ~500rpm or less
- Avoid standing directly in line with the turning
- Use a gouge, not a scraper
- Listen! If a piece is coming loose
 - It will make noise first.
 - Then make the gouge bounce.
 - Then fly out.
- Use a face shield
- Don't touch while the lathe is running
- Hot melt glue has a limited holding life

We will

- Walk Through The Construction Of A Simple Pattern
- Turn A Pre-built Blank

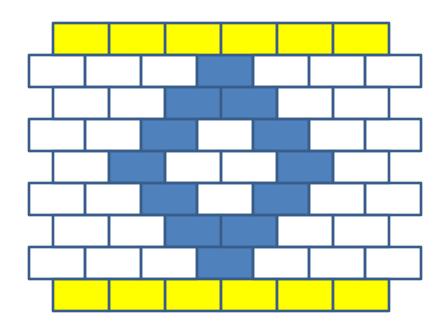
We Will Not Discuss

- Segment Sizing
- Segment Cutting

First A Simple Pattern

- I cut Segments with a sled on a table saw
 - Limits me to cut angles of ½ degree increments
- I use a Spread Sheet to design my patterns
 - Size col's to make the grid roughly square
 - Use Fill colors to represent different woods

Demo Pattern



- Top & Bottom Ring are Solid, In Yellow
- 6 segments, repeated 3 times per ring for 18 segments per Ring
 - "Blue Segments" stay, the rest will be air

Step 1 – Make Top/Bottom Ring Glue To Waste Block



Flatten Top Face of the Ring

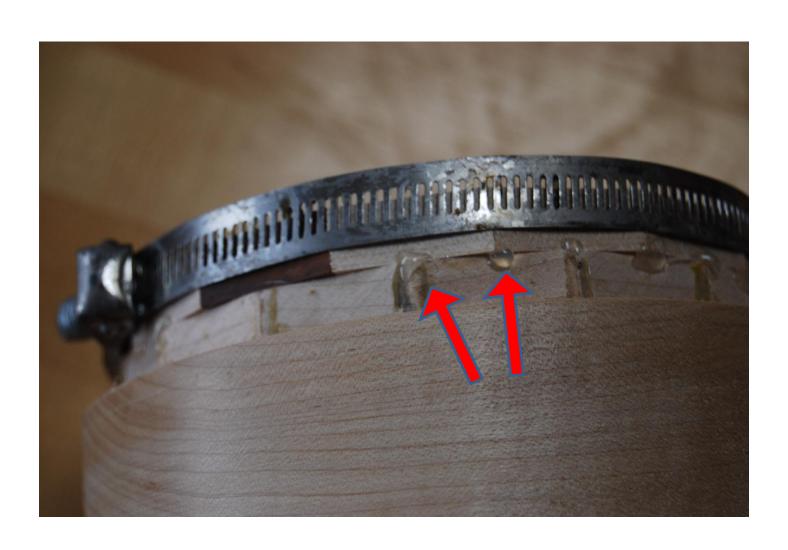


Step 2 – Make 1st Pattern Ring & Flatten One Side

Clamp Wood To Be Glued Down, With Ring Still In The Band Clamp



Tack Waste Wood to Top/Bottom Ring Hot Melt Glue on the Outside.....



& Inside



Now Remove The Band Clamp, & Glue "Keeper Wood"





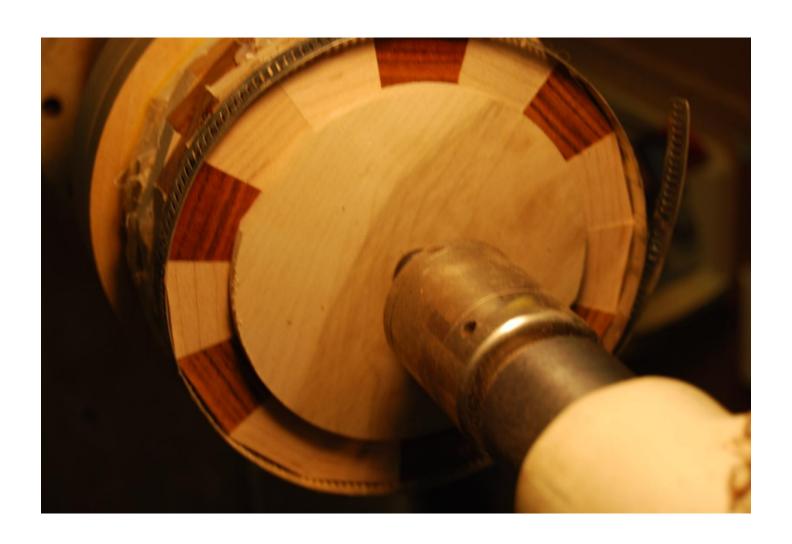
Building The Next Ring Includes Gluing "Keepers" Together



Clamp & Flatten



So, How Did I Center The Ring?



Repeat & Add The Rest Of The Rings



Half Way Built



Ready To Turn The Outside



Remember To.....

- Keep The Lathe Speed Down
 - I Turn at "500" RPM or less
- Avoid Standing In The Line of Fire
- Listen, Then Feel
- Use Light "Supported Cuts"
- Sand Outside Now

With The Outside Turned

 Only The Hot Melt Glue On The Inside Is Holding the Waste Pieces In

- Tape Exterior With Blue Painters Tape
 - Can use additional tape after painters tape if desired, not required

Turn The Inside

- Cut so Pieces are PULLED towards center
- Sand Interior
- Part Off <u>BEFORE</u> removing the tape
- Re-mount & Finish The Bottom
- Now, Remove the tape and waste wood

So, Now The Name Makes Sense

- Use Hot Melt Glue to hold segments in while turning the outside
- Use Painters Tape to hold segments in while turning the inside
- Have Fun, Turn Safe!
- Send me pictures! dsvannier@yahoo.com