

Wedgie Sled



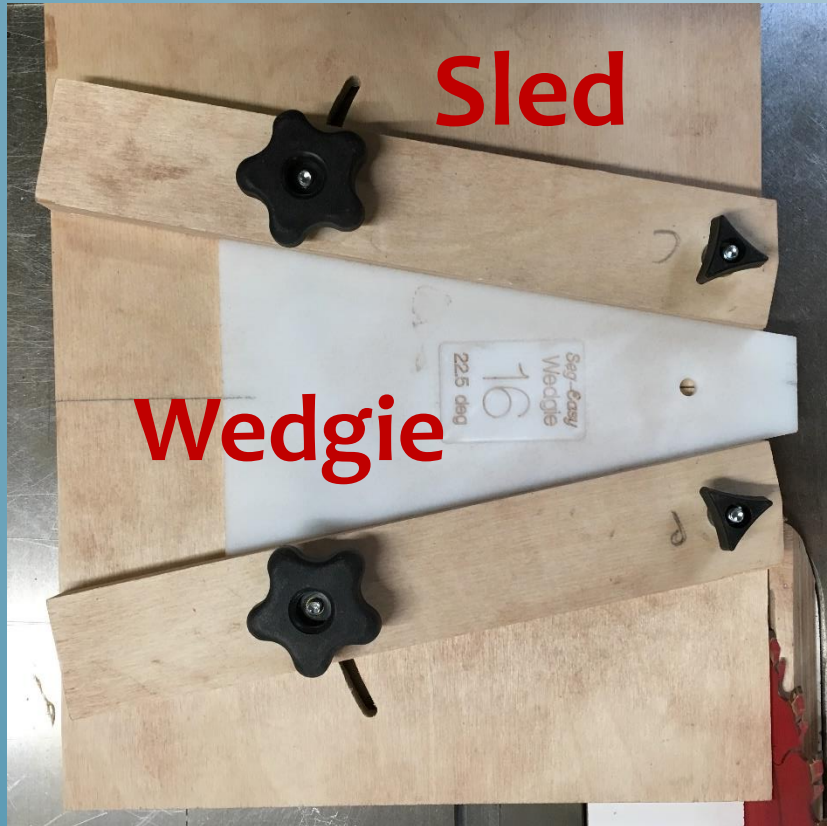
Tom Lohman

Mission

- *Rings made on a Wedgie Sled are close to perfect*
- *Wedgie Sled is not hard to make*
- *There are many options for ring design*

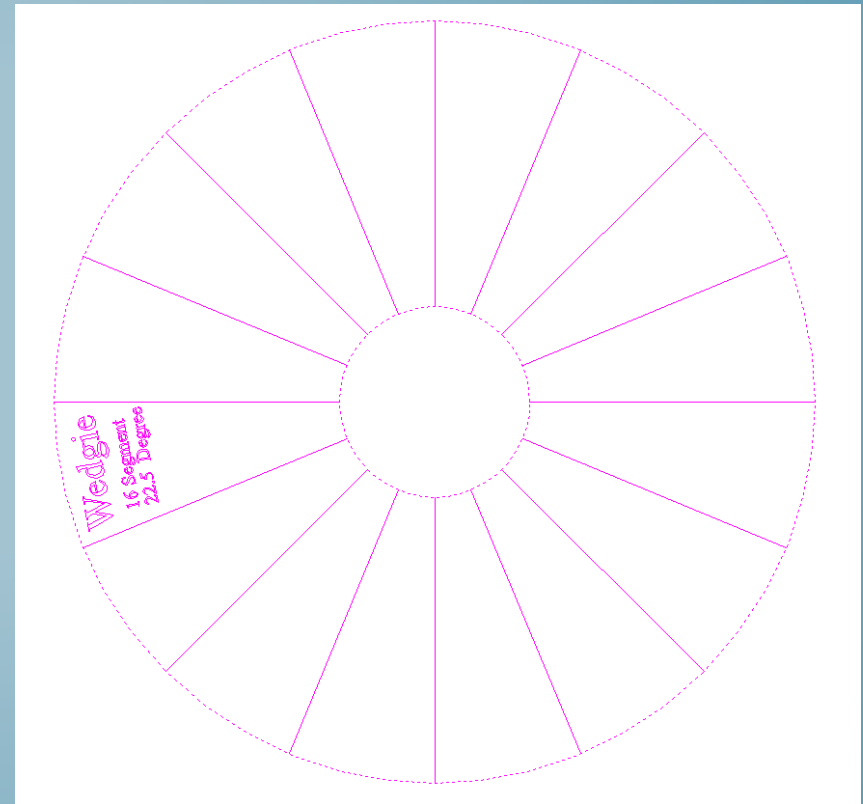


Wedgie Sled Components

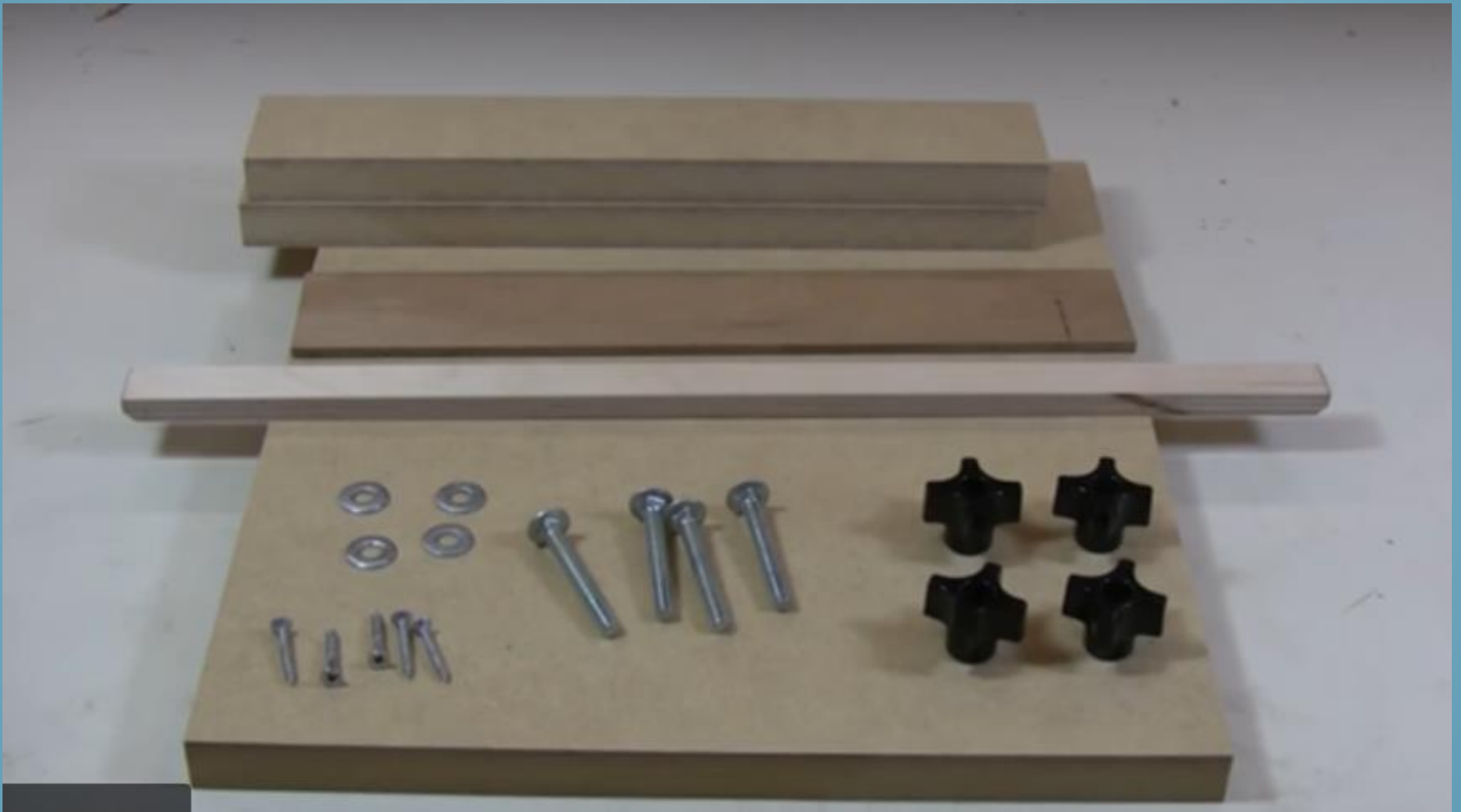


Wedgie Understanding

16 Segment Ring



Wedgie Sled Materials



Wedgie Sled Fence

2 Fences 2" x 12") and
Template (1/4" 2" x 12")
Taped Together



Mark 1 inch from end and 4" from other end, centered

Wedgie Sled Fence

Drill $\frac{1}{4}$ " holes in Fence and Template bundle, use drill press only



Wedgie Sled Base

On 12" x 14" board draw line on center and 2" off center on 14" side

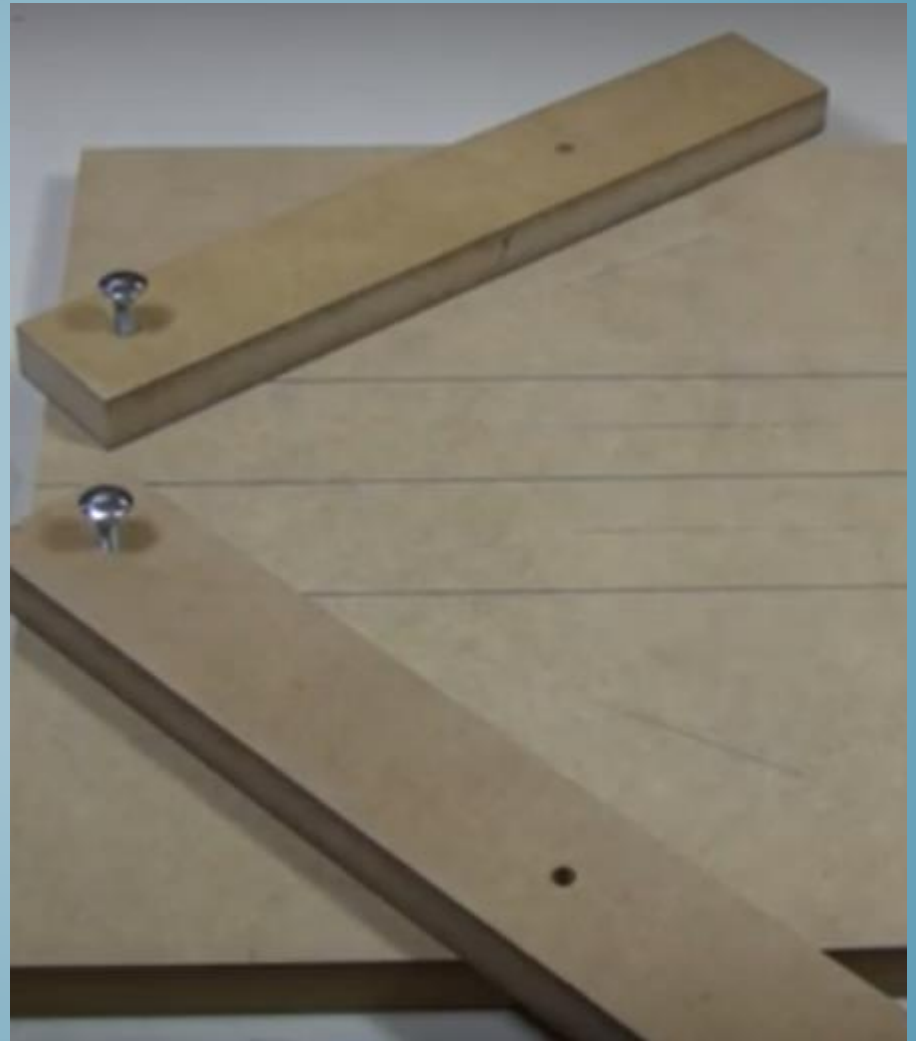


Mark 1" from edge on lines 2" offset from center lines

Wedgie Sled Base

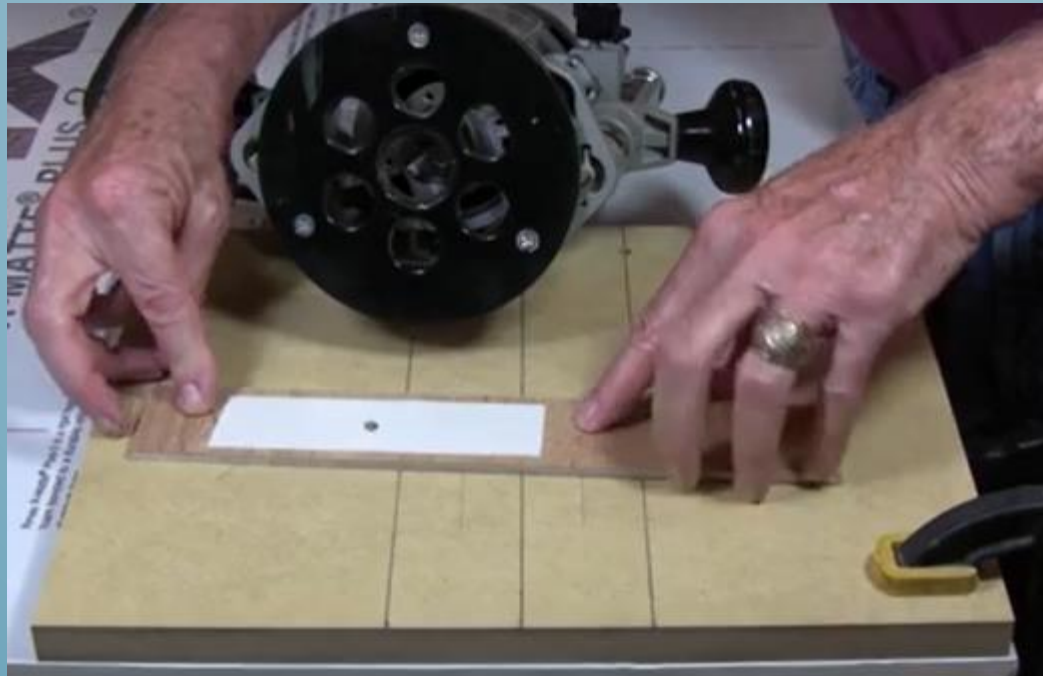
Drill $\frac{1}{4}$ " 1" from edge and place fences on board

Mark start and stop location for fence travel



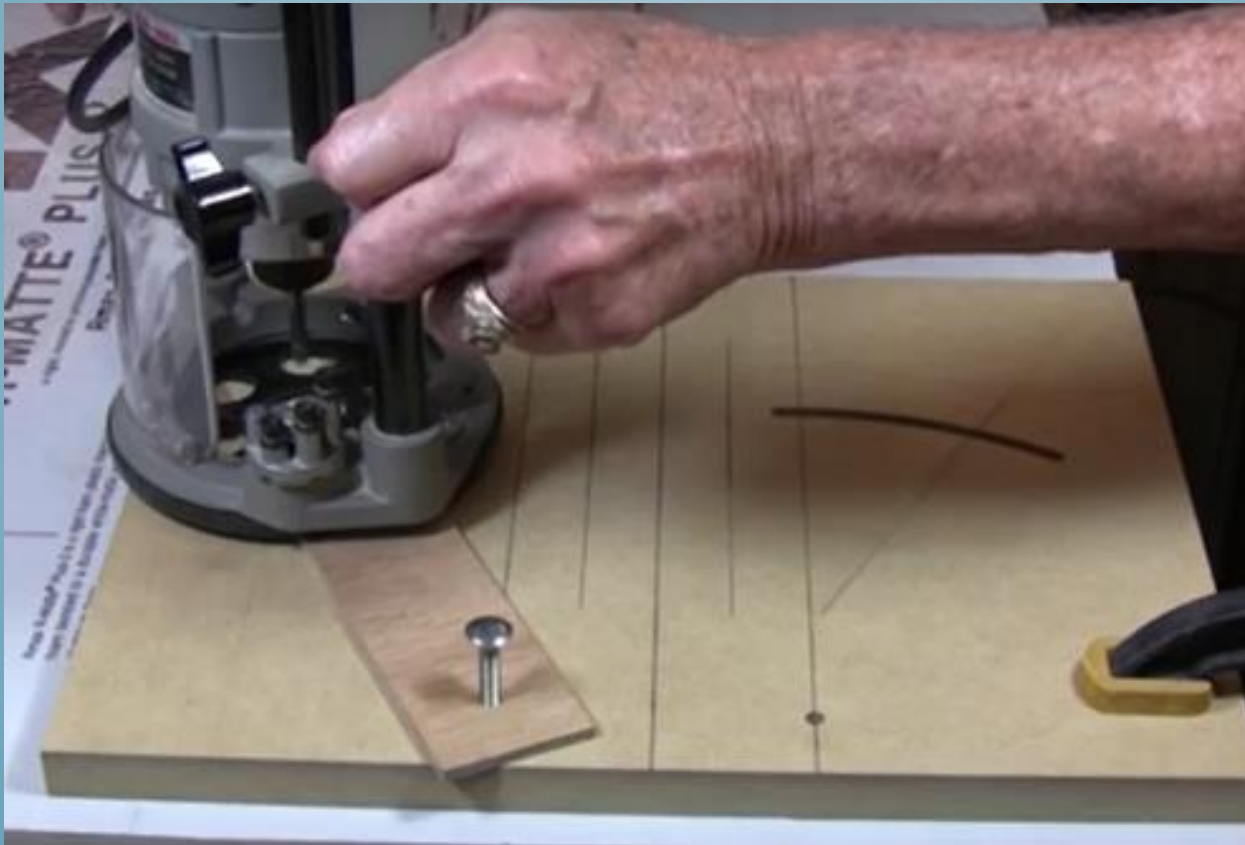
Wedgie Sled Base

Use template with double sided tape, attach to base of plunge router with $\frac{1}{4}$ " router bit



Wedgie Sled Base

Route arc 0 to 30 degrees each side,
 $\frac{3}{4}$ " deep



Wedgie Sled Base

Route arc with $\frac{5}{8}$ " bit along with $\frac{1}{4}$ " hole. Route both $\frac{1}{4}$ " deep.



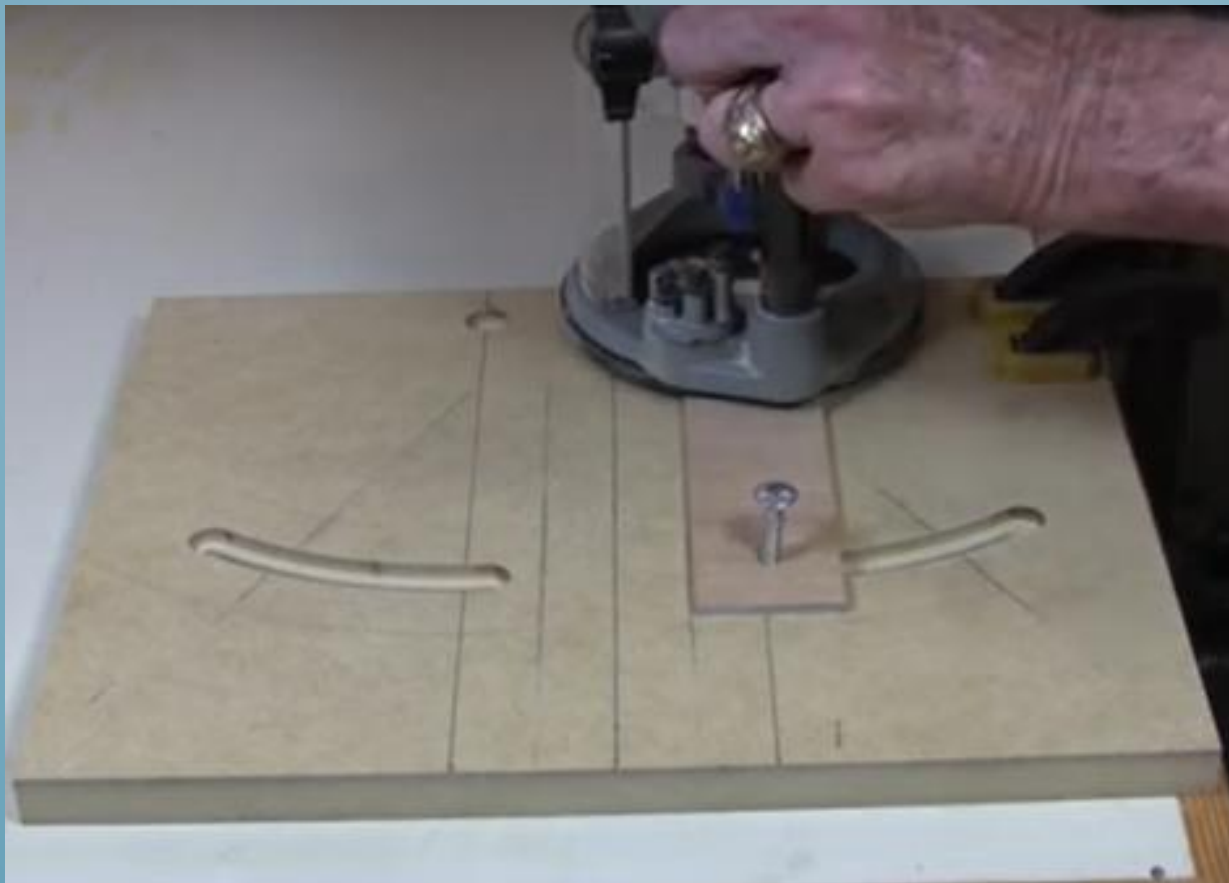
Wedgie Sled Base

Route arc with $5/8$ " bit along with $1/4$ " hole. Route both $1/4$ " deep.



Wedgie Sled Base

Route arc with $5/8$ " bit along with $1/4$ " hole. Route both $1/4$ " deep.



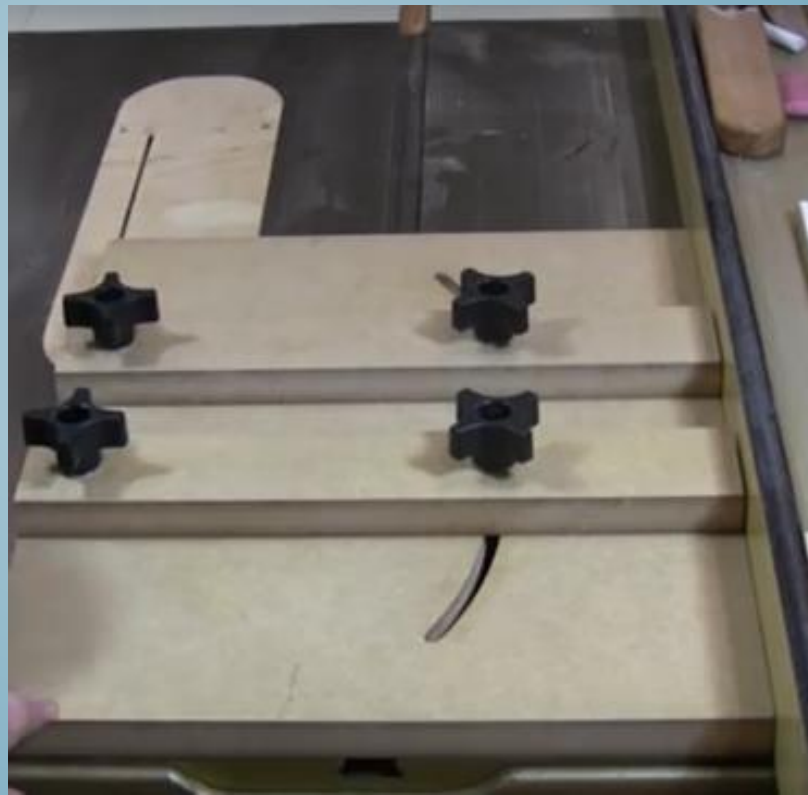
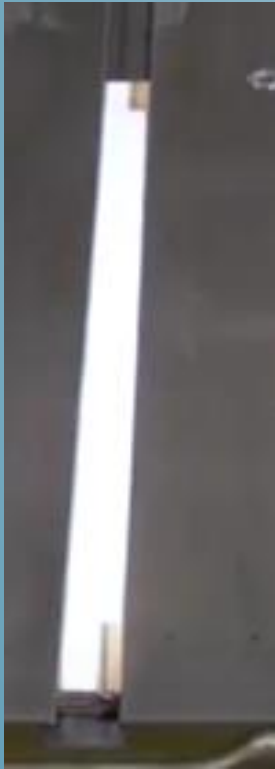
Wedgie Sled Base

Machine 14" miter guide to fit table slot. For each end drill hole for screw, cut slot.



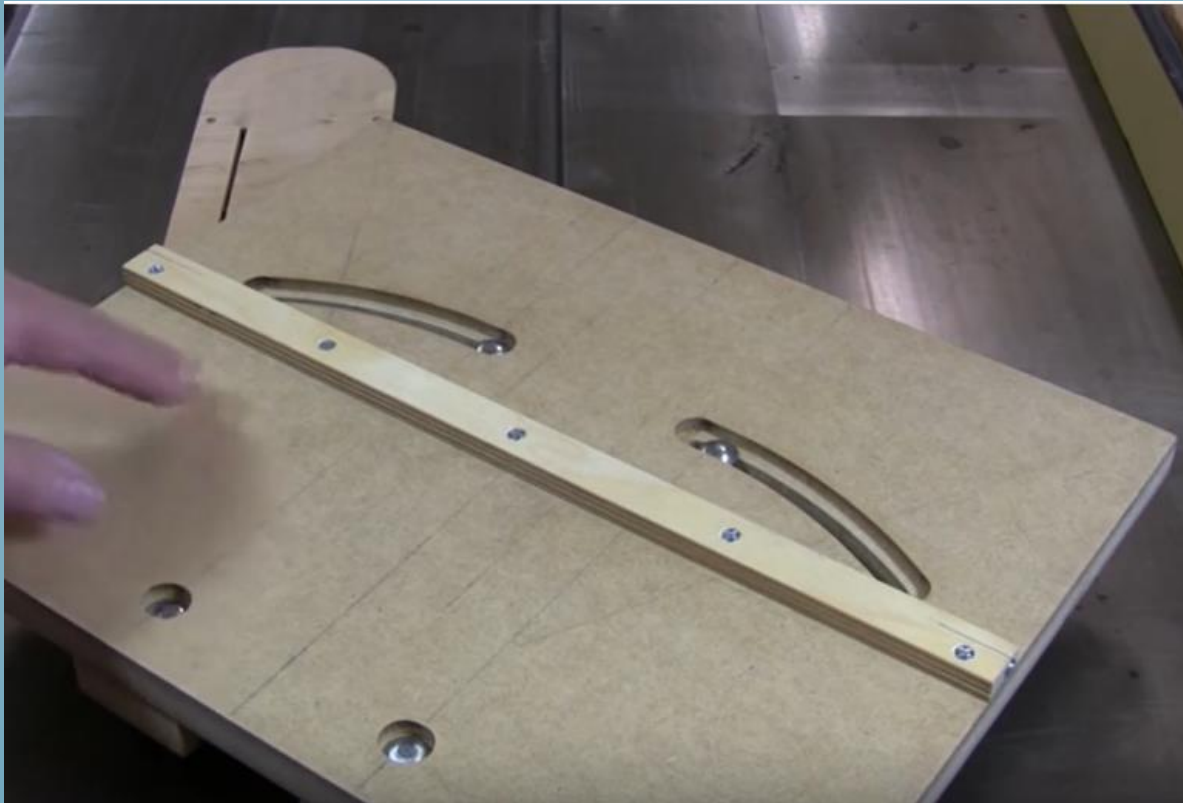
Wedgie Sled Base

Put 2 sided tape on miter guide.
Wedgie sled on miter guide.



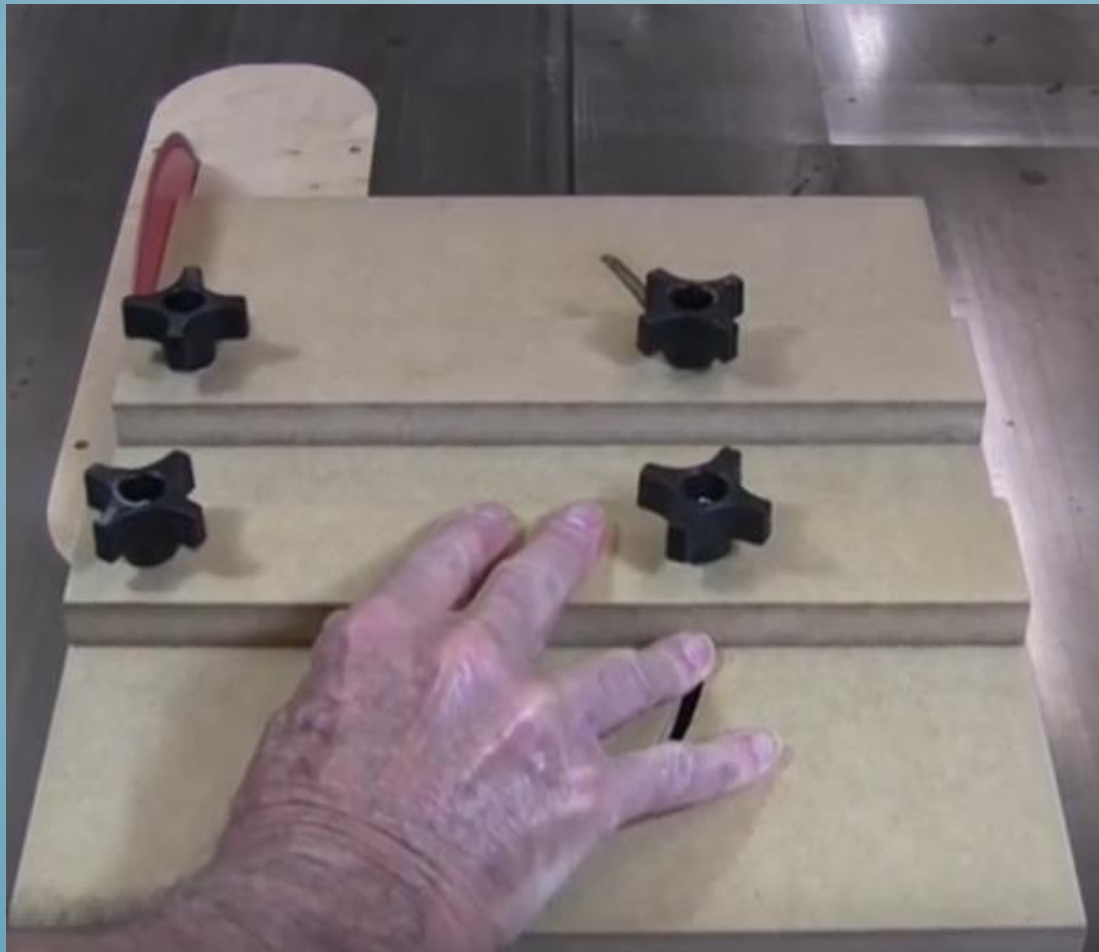
Wedgie Sled Base

Screw down miter guide



Wedgie Sled Base

Cut end of Wedgie Sled with table saw



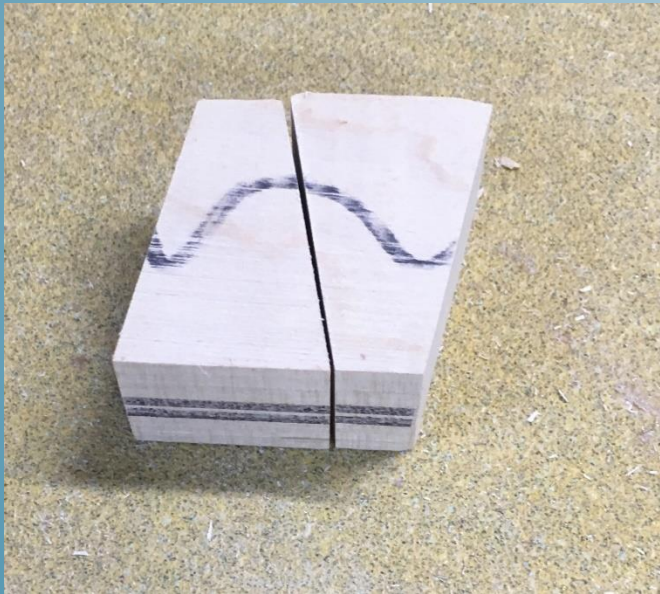
Wedgie Sled Complete

Now lets use it



Basic Ring on Wedgie Sled

Mark one edge and top of the board



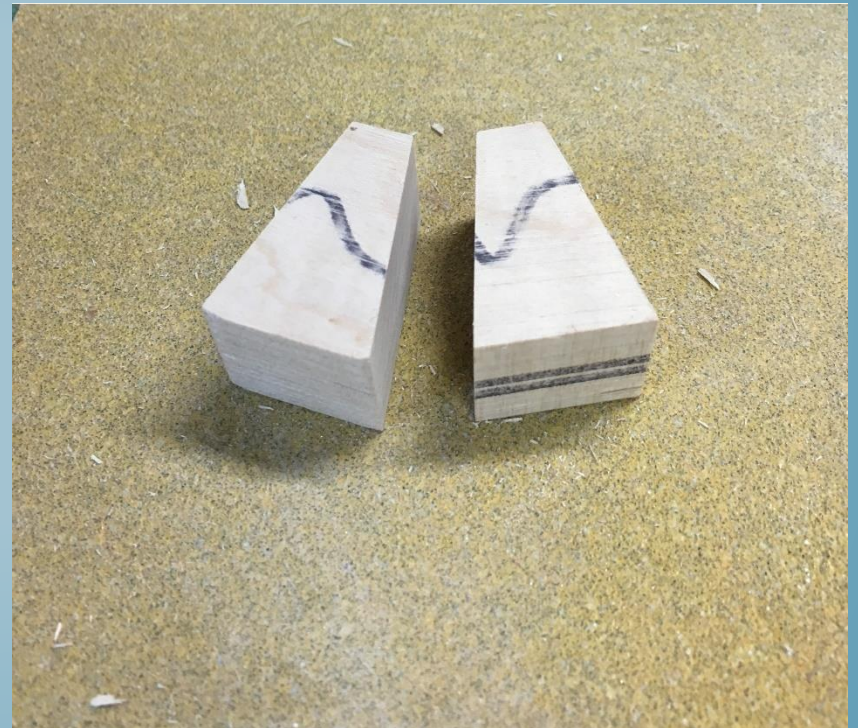
Basic Ring on Wedgie Sled

Without flipping board alternate fence cuts



Basic Ring on Wedgie Sled

Clean up pieces



Basic Ring on Wedgie Sled



Alternate edge line, in and out

Segments With Mixed Angles



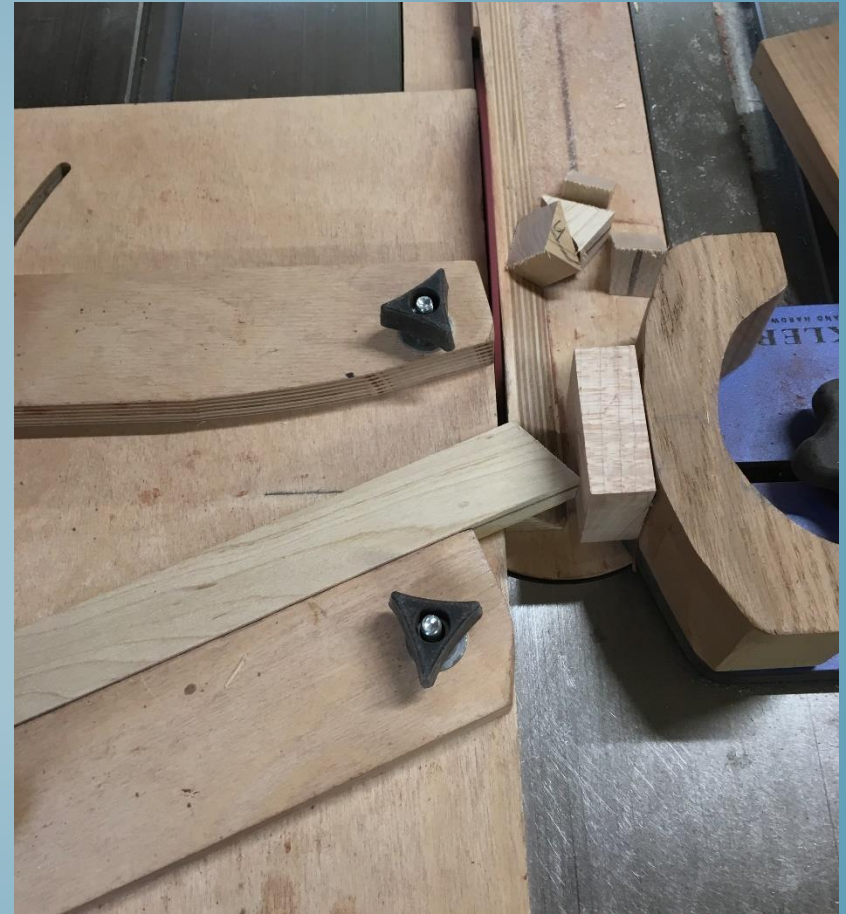
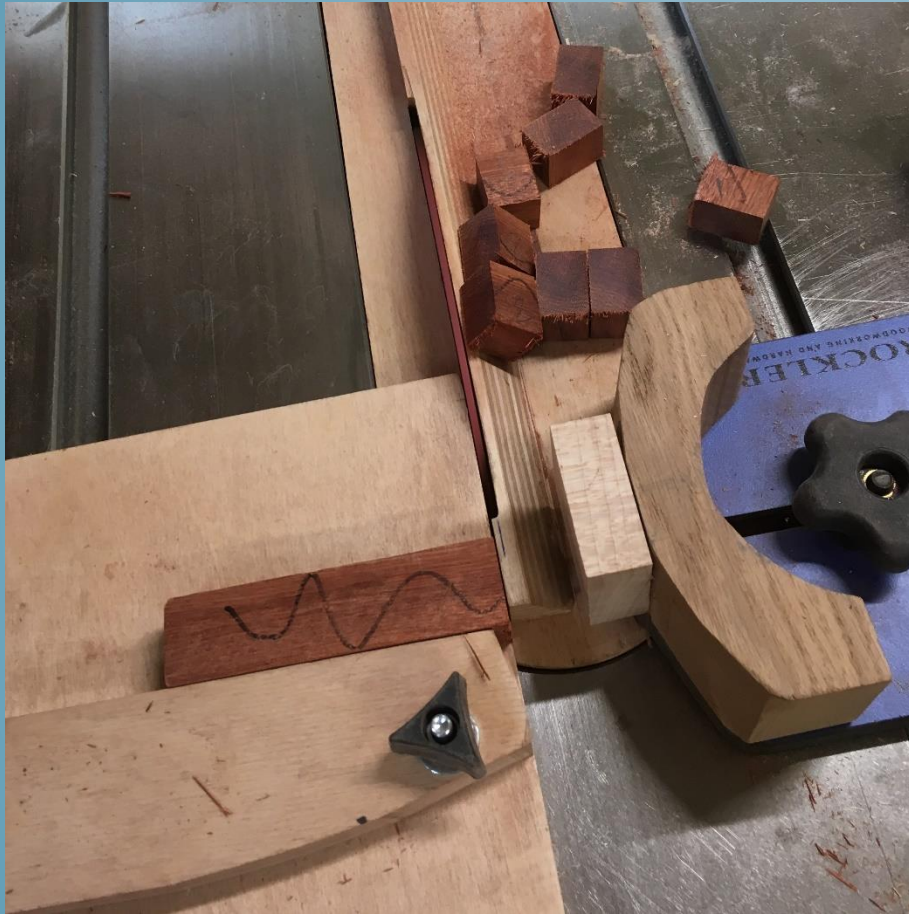
When You Measure the Angle of Two Piece it Must Add Up to Two Regular Pieces

Segments With Mixed Angles



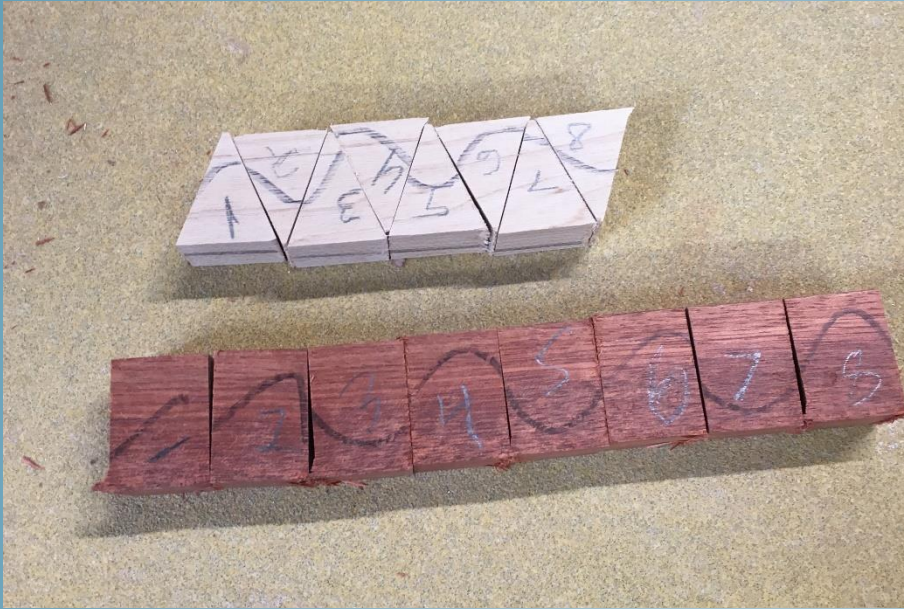
When You Measure the Angle of Two Piece it Must Add Up to Two Regular Pieces

Segments With Mixed Angles



Cut 8 Pieces on One Fence, Flip Over For Each Cut

Segments With Mixed Angles



Keep Mark on Top and Alternate Edge Mark

Segments With Mixed Angles

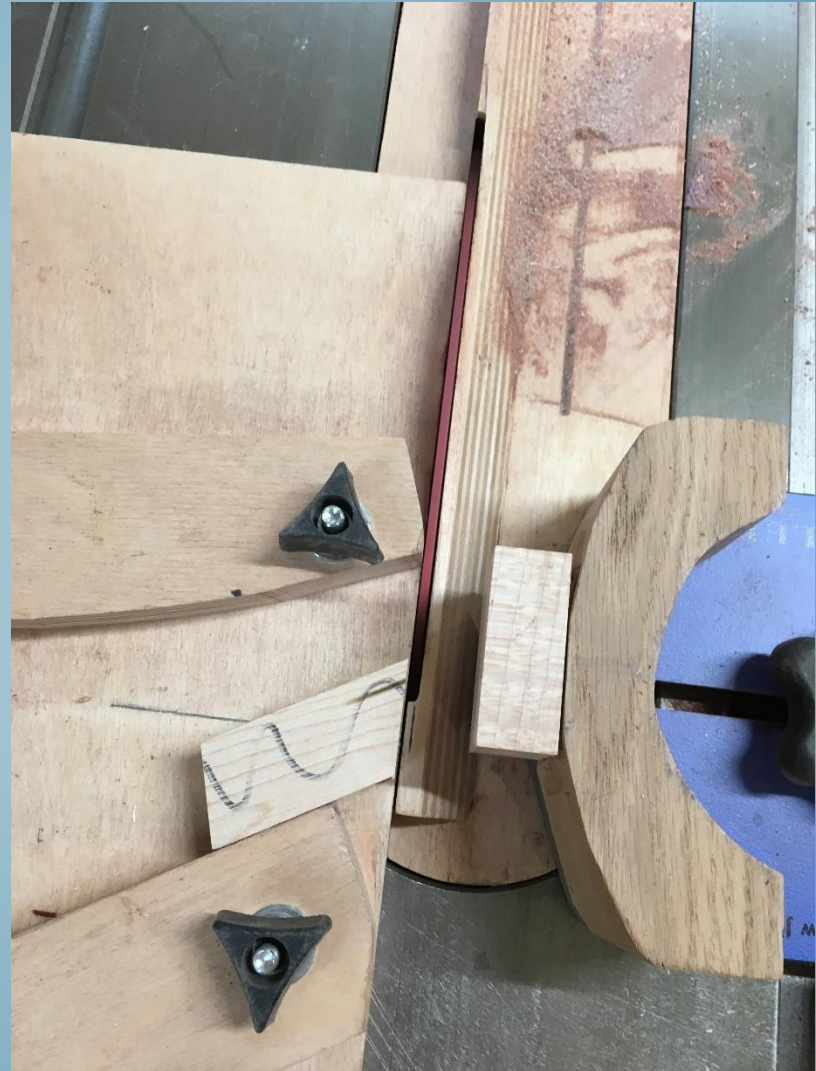


Basic 16 Segment Ring Pieces have 22.5 deg
Two Segments add up to 45 deg

Segments with a Skew



Segments with a Skew



Slide Both Fences Angles As Far As Possible

Segments with a Skew



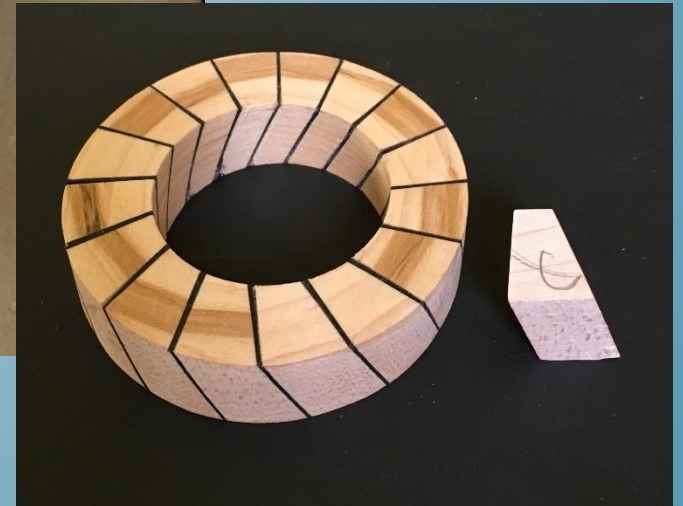
Alternate cutting on each fence.

Segments with a Skew



Alternate Piece Cuts From Each Fence, Notice Piece Size difference

Segments with a Tilt



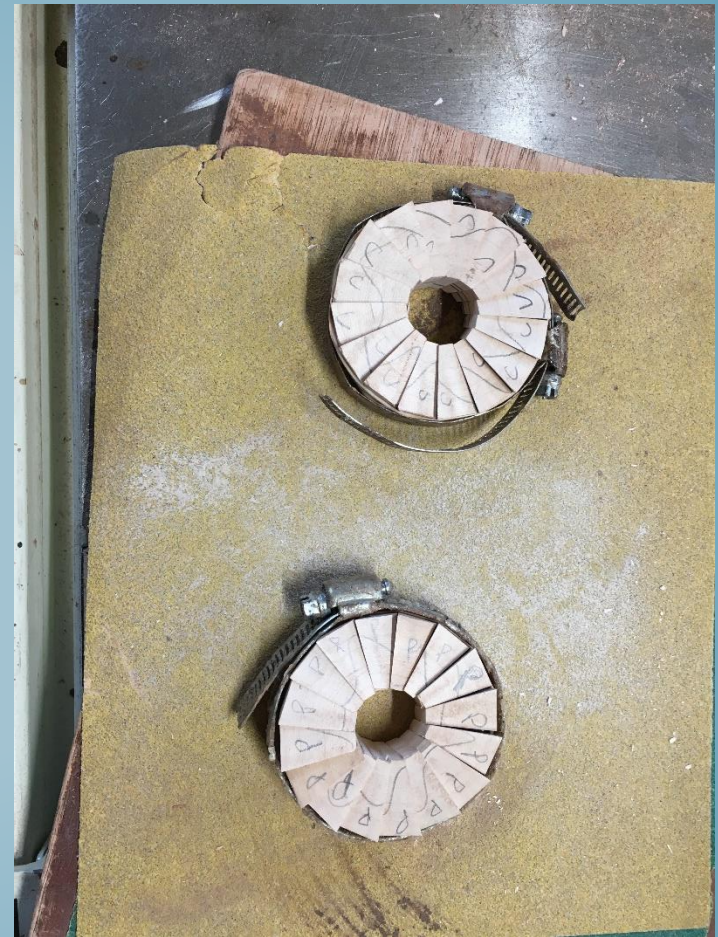
Segments with a Tilt



Alternate cutting one piece on the “P” fence and cut next on “C” fence.

Need to have fence setup in exact center, so each piece has the correct angle

Segments with a Tilt



Clean Pieces Then Separate the “P” pieces and “C”

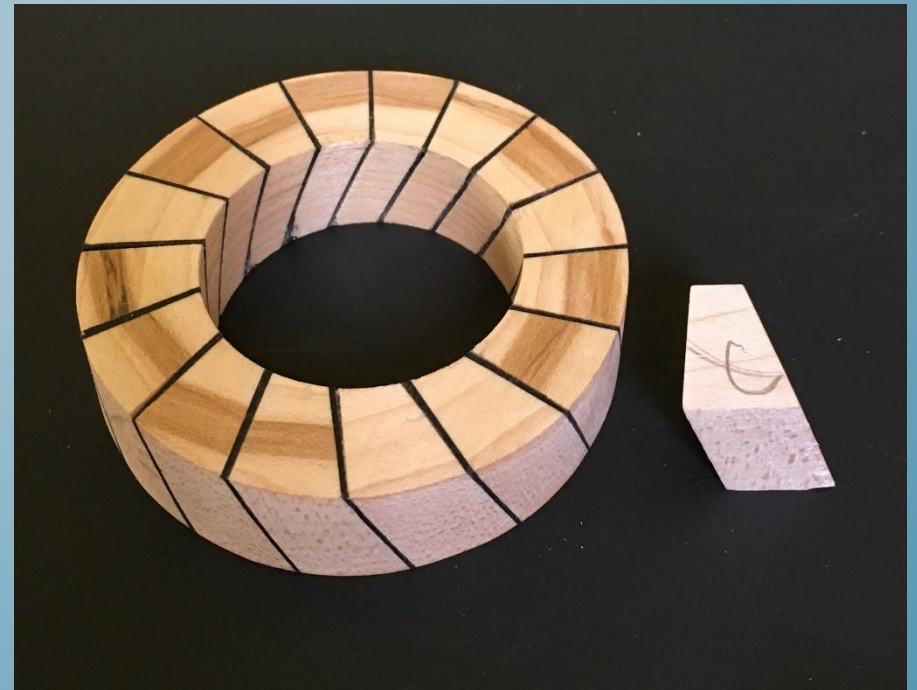
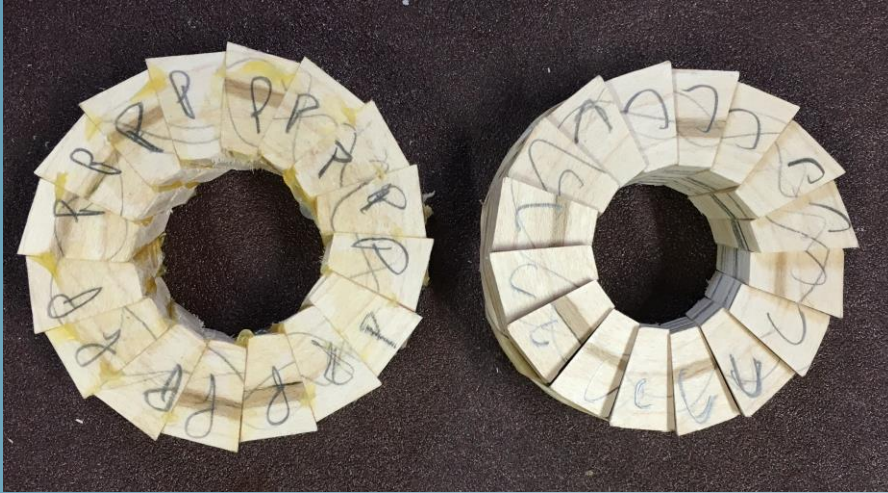
Segments with a Tilt



You need to Clamp Tilted Rings!

Put a VERY Small Amount of Salt on Glued Surface to Reduce Slide

Segments with a Tilt



Mix It Up With A Tilt

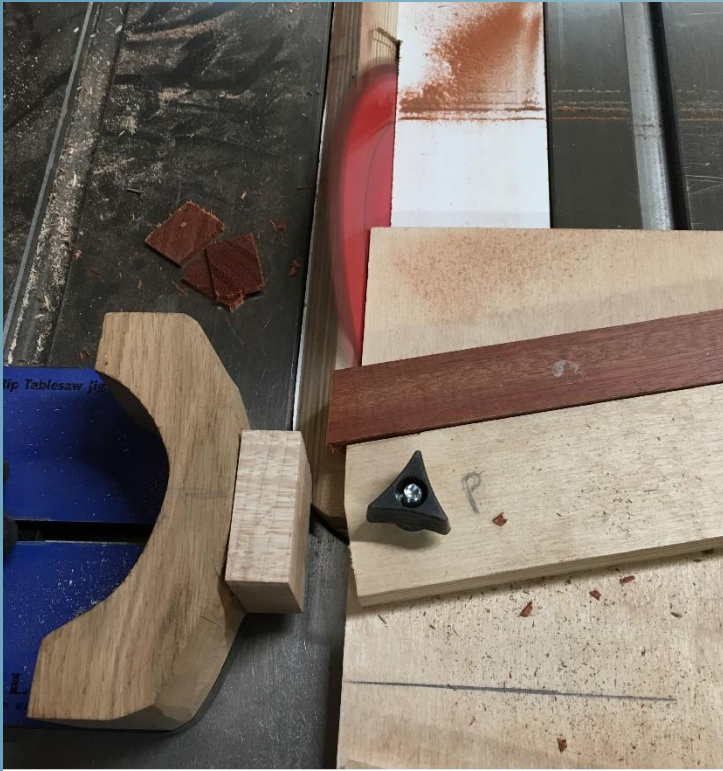


Mix It Up With A Tilt



Cut Same Wood Type on Same Fence
and Flip for Each Cut

Mix It Up With A Tilt



Cut Thin Spacer, Don't Flip, Keep on Same Fence

Mix It Up With A Tilt



Match P and C Pair, Then Clamp

Mix It Up With A Tilt Result



Add Triangles With A Tilt



Add Triangles With A Tilt



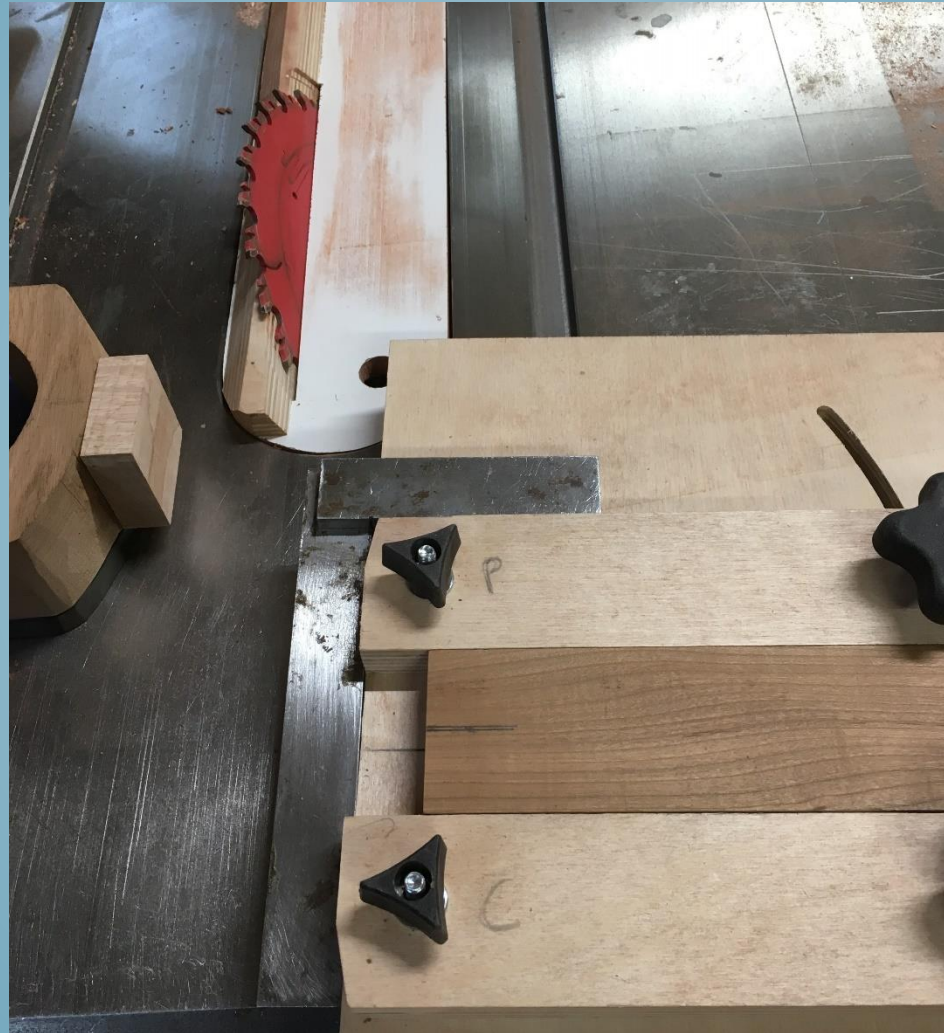
Alternate Between P and C Fence, Keep Marked Top Up

Add Triangles With A Tilt



Check Fit, Alternate C and P Pieces

Add Triangles With A Tilt



Make Sure P Fence Is At 90 deg To Blade

Add Triangles With A Tilt



**Make a Mark on Piece Before The
Cut, Stay On Same Fence**

Add Triangles With A Tilt



Flip Over Every Other Piece And Fill Hole With The Triangles, Alternate Mark on Triangle

Add Triangles With A Tilt



Clamp And Glue

Another Option For Tilt



**Alternate Fences and Cut with
Two Types of Wood,
Don't Flip Board.**

Another Option For Tilt



Fill Voids With Triangles

Double Stack For Tilt



Diamonds

Diamonds With Tilt



Alternate Fences, Keep Marked Side Up

Diamonds With Tilt



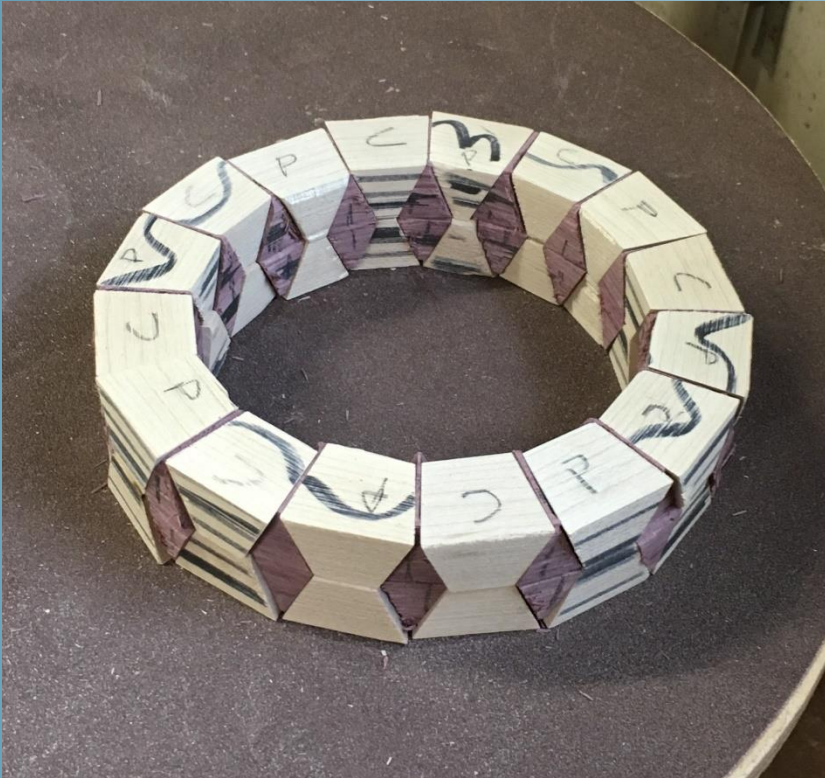
Check Fit, Make Two Rings, Flip Pieces Over

Diamonds With Tilt



Make Triangles, Mark Before Cut, Fill Voids With Them

Diamonds With Tilt



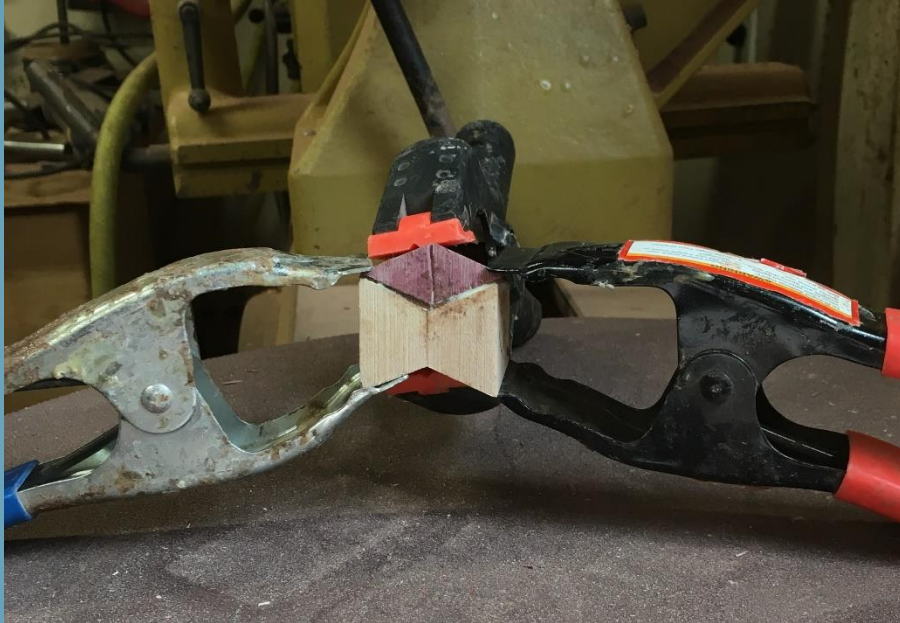
Stack Rows, to Check Fit. Make Triangle Borders

Diamonds With Tilt



Glue Triangles Together to Make Diamonds, Glue Up Pairs With Borders

Diamonds With Tilt



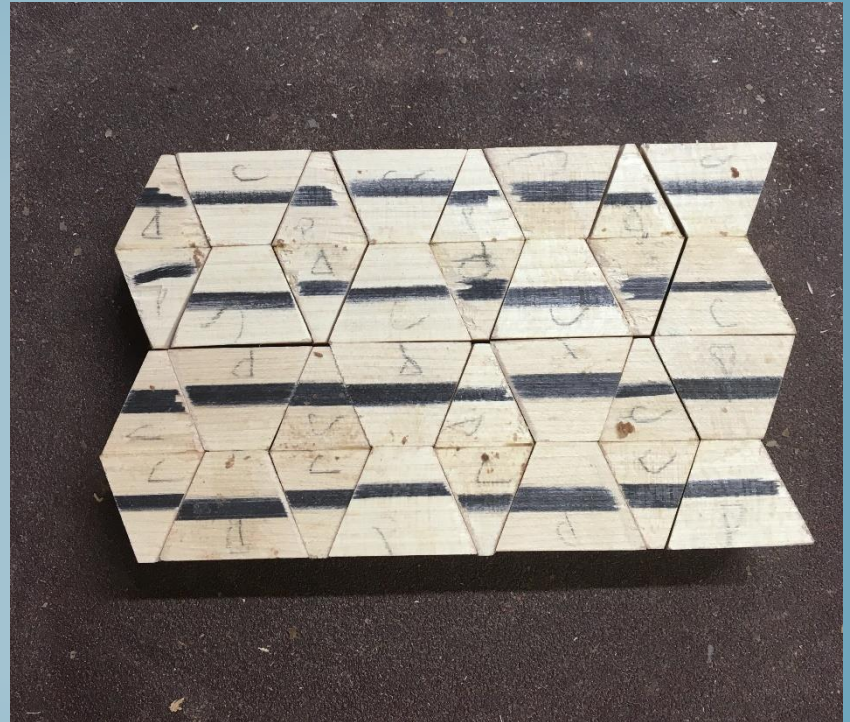
Glue Up Pairs With Border and Diamond, Dry Fit Ring

Options With Tilt



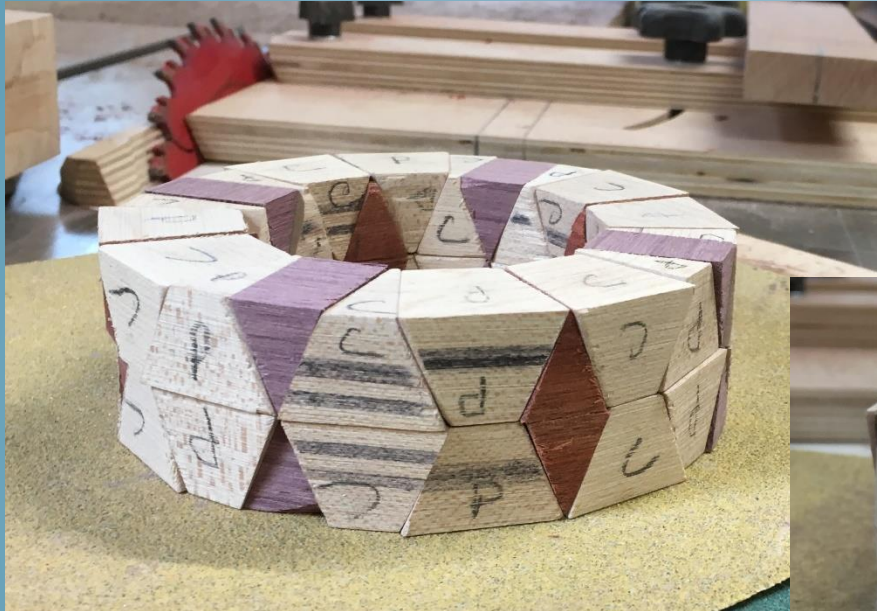
Glue Up Ring

Tilt Options



Cut Up The Pieces, Check Sizes

Tilt Options



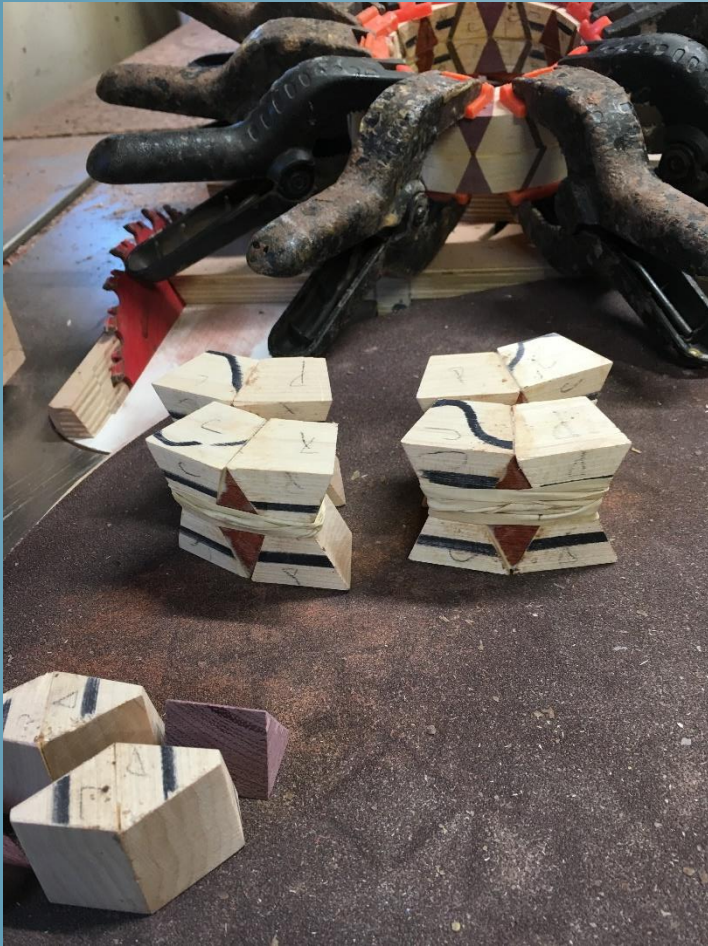
Play Around With The Pieces

Tilt Options



Glue Up The Pieces

Tilt Options



Glue Up The Pieces And Ring

Tilt Options



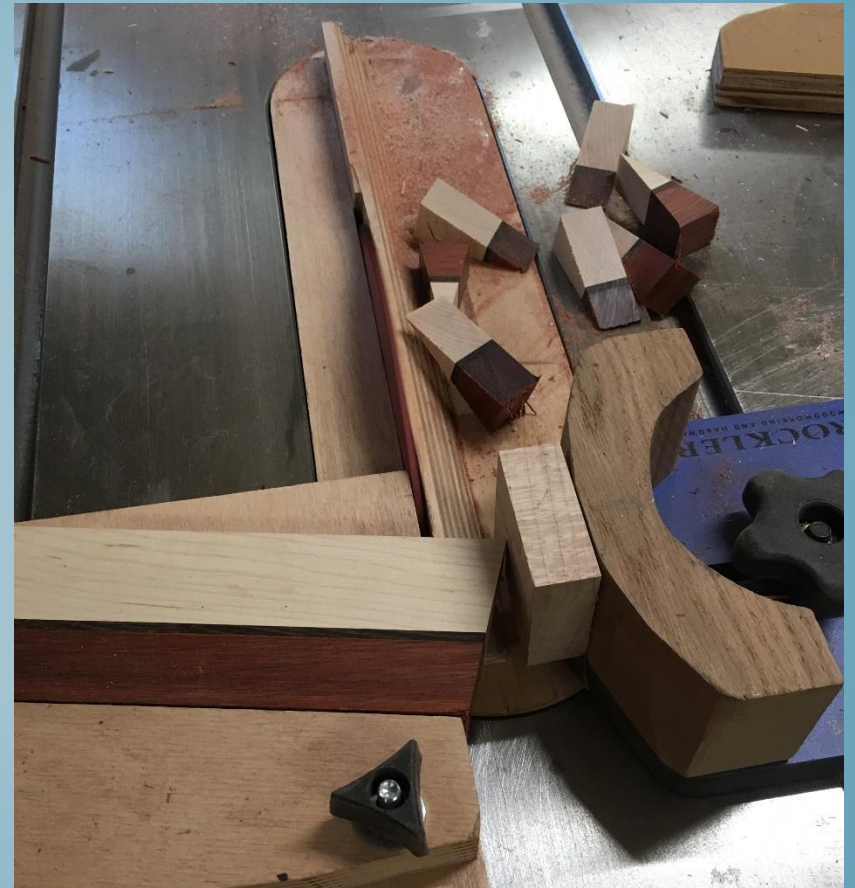
Well That Was a Lot of Gluing

Lamination Option



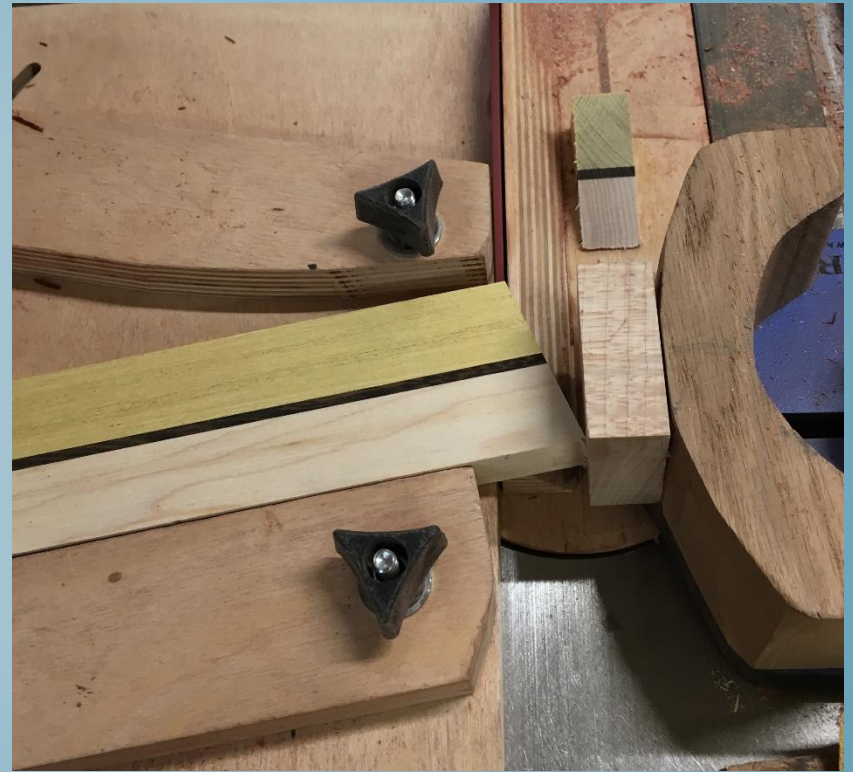
Glue Up Boards

Lamination Option



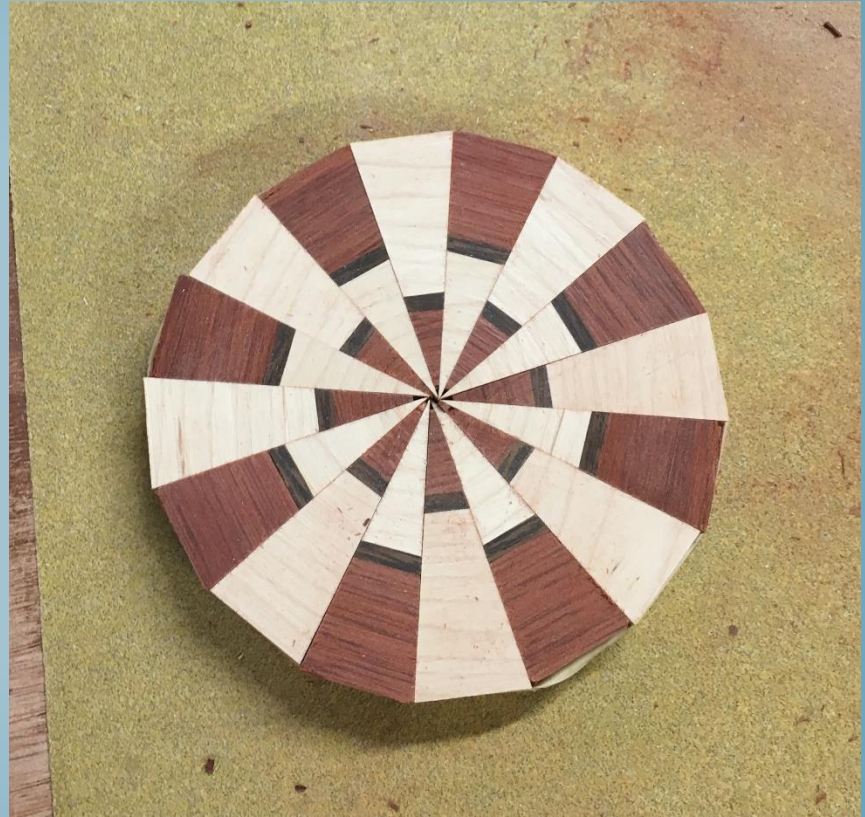
Alternate Fence, No Flip

Lamination Option



Alternate Fence, No Flip

Lamination Option



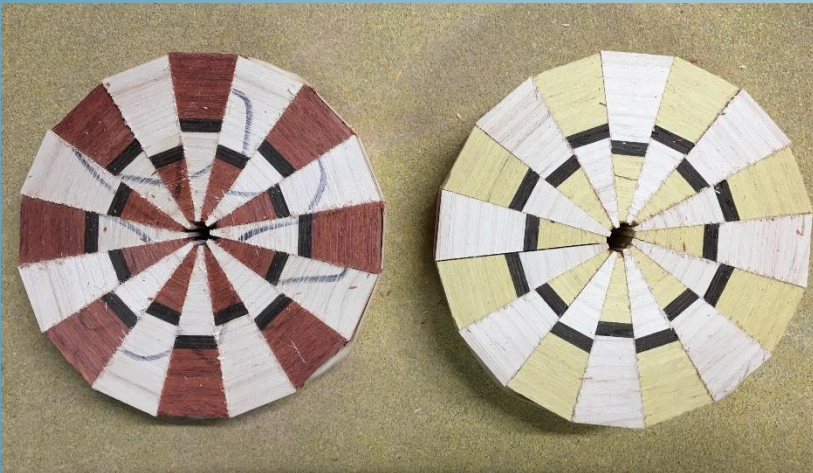
Play Around With Pieces

Lamination Option



Play Around With Pieces

Lamination Option



Play Around With Pieces

Lamination Option



Play Around With Pieces

Lamination Option



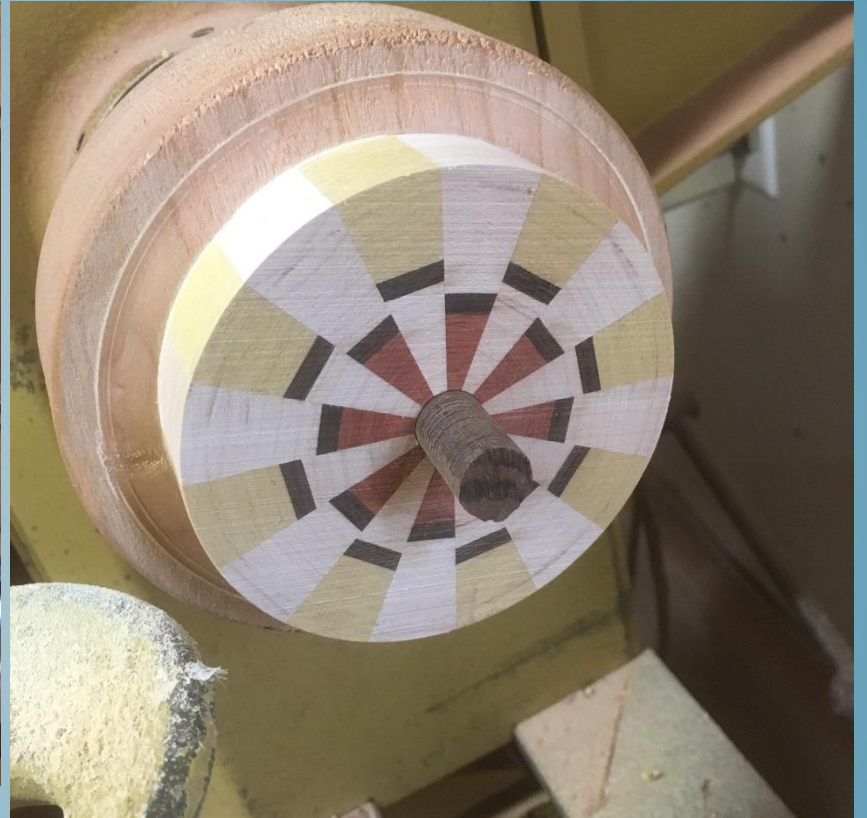
Center

Lamination Option



Double Sided Taped and Centered

Lamination Option



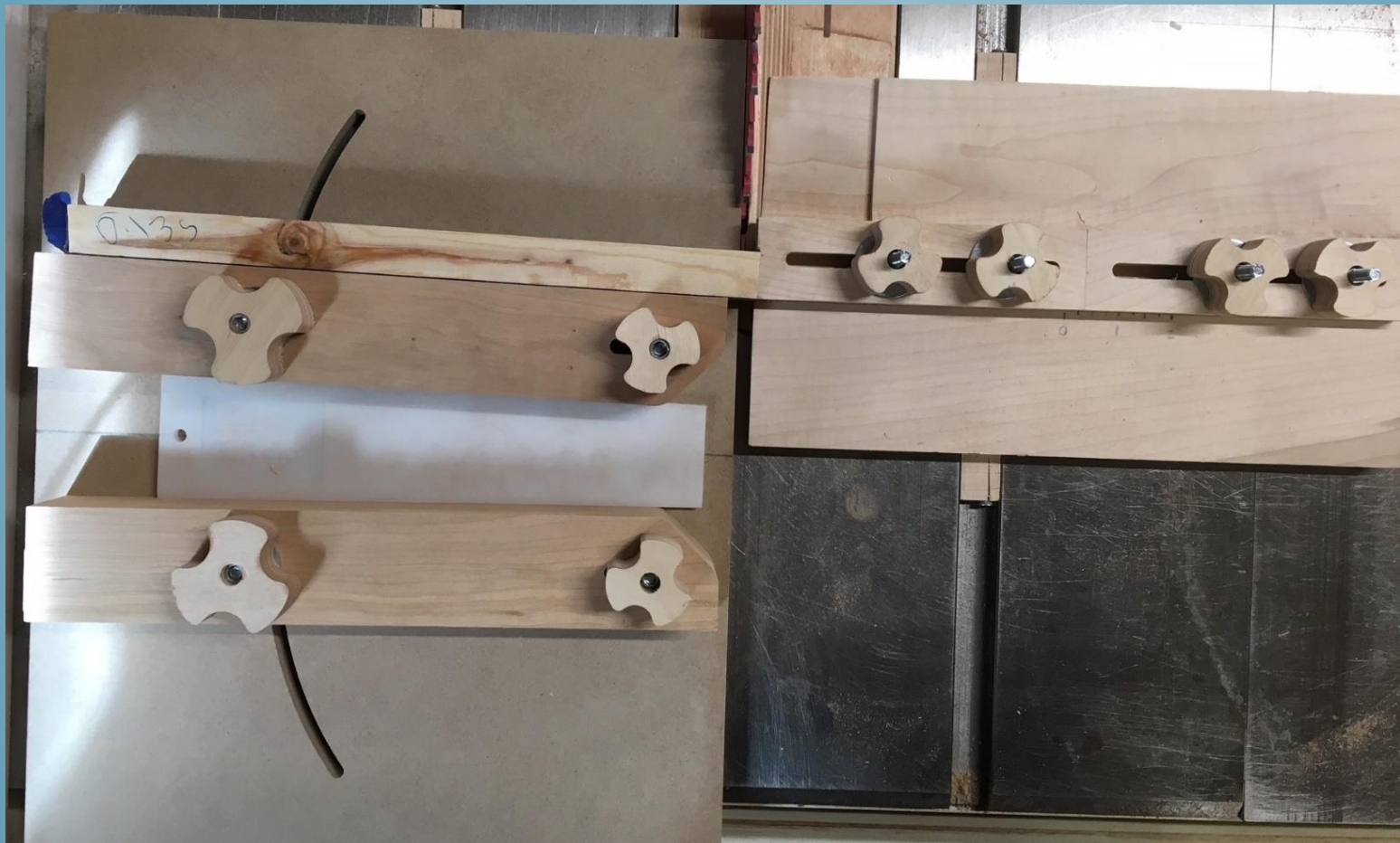
Double Sided Taped and Centered, Glue In Plug

Lamination Option



Double Sided Taped and Centered, Glue In Plug

Wedgie Sled & Stop



Wedgie Sled & Stop



Don Coleman sent a picture of his stop, similar to this one

Questions