

Woodtuth speaker instructions:

1. Gather your stock :

- a. 1 x 9 inch long piece (2 inches thick and 4 3/16ths wide)
- b. 1x 12 inch piece of the (1 1/4 inch x 2 inch )
  - i. \*\*\*12 inches is enough for an iphone 6plus—if you would like your speaker to be designed for a tablet you will need to measure your device and add 8 inches\*\*\*



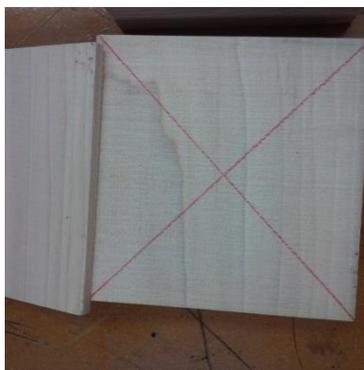
2. On the BIG BANDSAW : Resaw 1cm or 1/4 inch off of **both pieces** of your stock
- a. **Be sure to use a pushstick**
  - b. **Double check that the fence is set up properly(square and 1/4 inch from blade)**



3. Cut the **4 3/16 inch** wide pieces into perfect squares  
These will press fit exactly into the jig so measure twice .



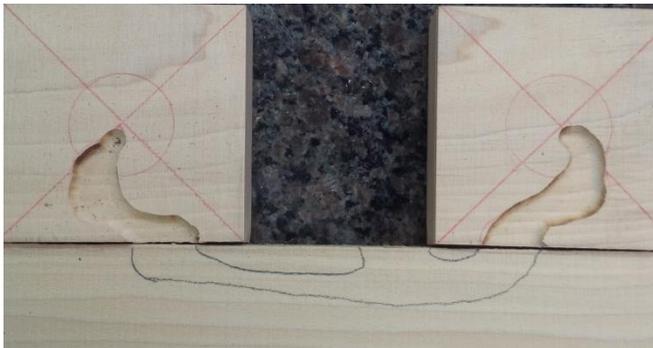
4. On the face of the wood that has the bandsaw marks:



find and mark center by drawing an line diagonally from corner to corner using a ruler

5. Using the hand router :

- a. Draw the channel from the speaker location on the base piece into the center of your x
- b. Place the pieces in the bench vise and route out the groove



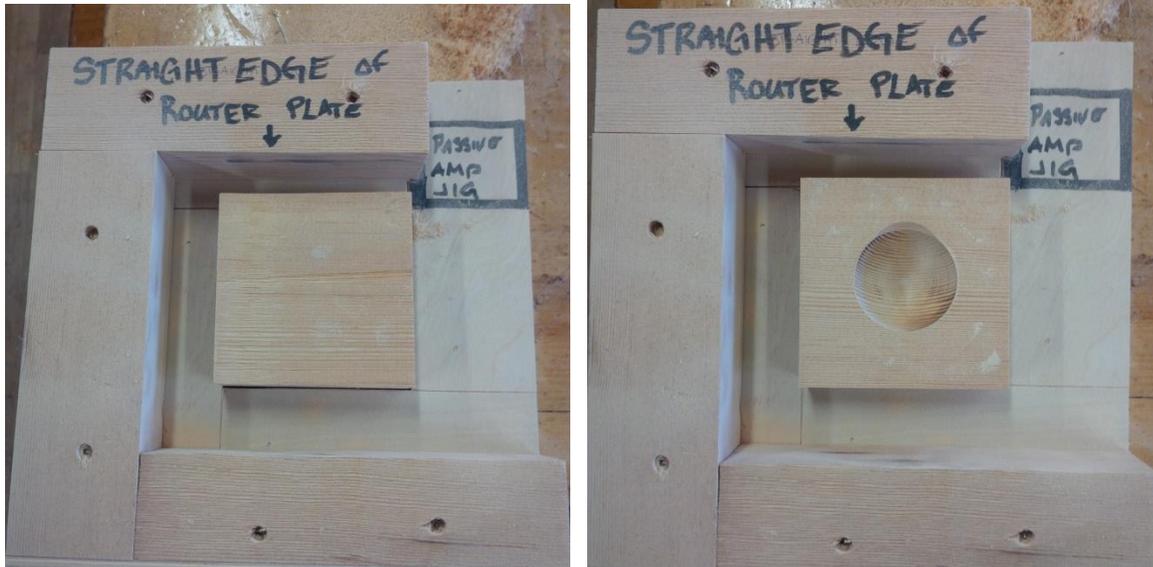
*You need to make sure the END GRAINS are on the side and the EDGE GRAIN will be where the speakers will be glued to the base.*



6. Glue the ¼ inch thick resaw'ed piece back on –try not to get glue in the channel.



7. Once the glue is dry place your square piece in the router jig and plunge carve the concave speaker.



8. Glue the speakers to your base with the appropriate spacing for your phone/tablet  
Make sure that your channels line up



9. Find/laminate and plane to  $\frac{1}{4}$  inch a back piece that matches the width and length of your project. (***This is your chance for design –choose contrasting woods, find cool figure, laminate a pattern of contrasting woods***)

Glue back plate into place

Sand everything

10. Measure and cut the mitres for the kick stand
11. Tape and glue



12. \*note the spline for added strength

13. Find / make a piece that will be your front cover

***(This is 2<sup>nd</sup> chance for design –choose contrasting woods, find cool figure, laminate a pattern of contrasting woods, use end grain lamination) [see photo](#)***



14. Angle the table saw blade 13 degrees and cut the bottom so that the woodtuth leans back.

15. Sand a radius onto the back edge so that the kick stand will slide over it.

16. Mark and drill for the dowels on the kick stand



17. test movement of kick stand before you put glue anywhere.