

Woodtuth speaker instructions:

1. **Gather your stock :**

- a. 1 x 22" inch long piece of cedar
- b. **Joint and plane** (keep piece as thick as possible –preferably >1" with both sides planed.)
 - i. if you would like your speaker to be designed for a tablet you will need to measure your device and add 8 inches***



2. **Rip** cedar to 4"wide (**Table Saw**) and use **the chop (mitre) saw** to cut to 4" pieces

- a. You should have two (2) pieces that are 4 inches x 4 inches (perfect square)
- b. These will press fit exactly into the jig so measure !!!!!

3. **Rip (Table Saw)** a 2-3 inch wide piece for your base...the length will depend on the device it is for.

4. **On the BIG BANDSAW :** **Resaw** a 12" length of black walnut in half. (**one edge must be jointed first**)

- a. *Be sure to use a pushstick and a resaw pin.*
- b. *Double check with Mr Martin before you cut*



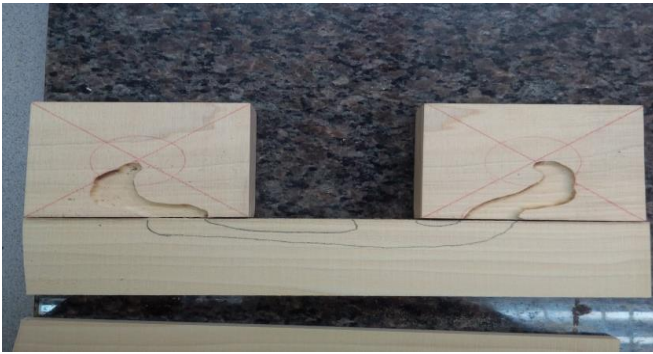
5. **On the face of the 4x4 cedar squares**

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



6. 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
- c. Do the same for the base (be sure to make sure where the speaker is on your phone

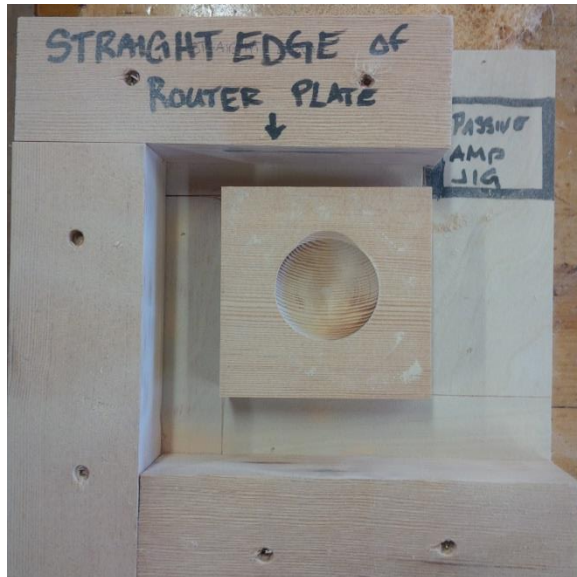


End grains

End grains

*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.*

- 7. Plane the resawed walnut pieces to 3/8" thick cut them to match the cedar blocks and base and Glue the resaw'ed piece back on –try not to get glue in the channel.
- 8. Once the glue is dry place your square piece in the router jig and plunge carve the concave speaker.



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



10. Glue the other resawed piece onto the back so the phone/tablet can lean against it

Sand everything

11. Measure and cut the mitres for the kick stand

12. Tape and glue



13. *note the spline for added strength

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

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



15. Angle the table saw blade 13 degrees and cut the bottom so that the woodtuth leans back.
16. Sand a radius onto the back edge so that the kick stand will slide over it.
17. Mark and drill for the dowels on the kick stand



18. test movement of kick stand before you put glue anywhere.
19. ROCK OUT TO YOUR TUNES!