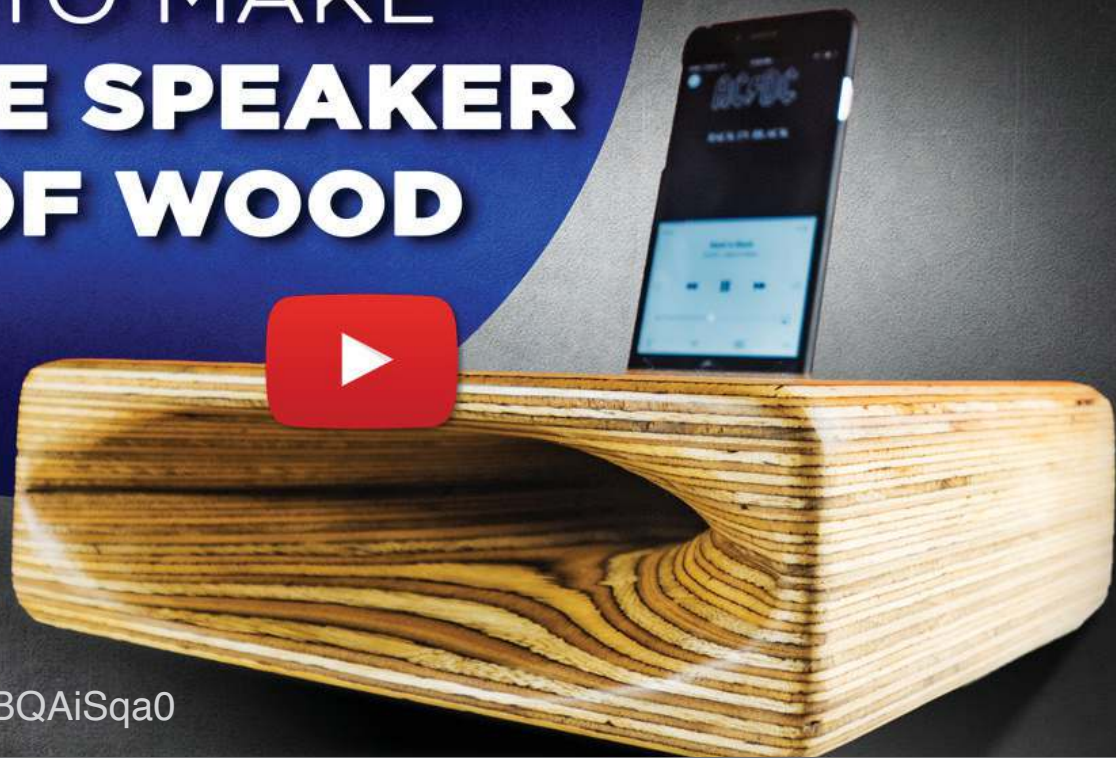


HOW TO MAKE A PHONE SPEAKER OUT OF WOOD



<https://youtu.be/AgQBQAI5qa0>



In this video, Kevin Inkster from Arbortech shows how to make a sound amplifier out of plywood. A quick and straight forward project that can be completed in 3 hours. The result is a really effective and sleek looking passive speaker that doubles as a beautiful piece of decoration and a dance party companion. It'll look like it came straight from the store, but really only costs a few bucks to make.

Your speaker comprises of 6 layers of plywood, divided into bottom and top sections.

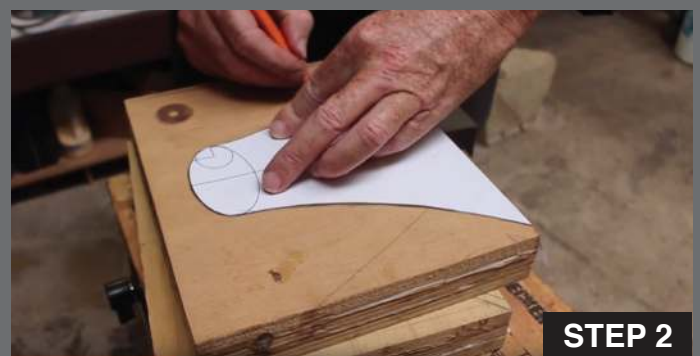
Step 1: Start by cutting six squares of plywood and then cut a slot big enough for your mobile device on the top layer. Next, drill a hole through two more pieces of plywood that are stacked on top of each other. Lineup these holes below the phone slot and glue this stack of three pieces together. There you have the top section. Glue the second stack of wood together (remaining 3 layers) and give everything plenty of time to dry.

Step 2: Once dry, use a template and outline where the speaker port will be on both the top and bottom sections.

Step 3: Using the Arbortech TURBO Plane, sculpt it out following the template guides. TIP: follow the plywood contours as you progress into it to achieve a uniform shape.



STEP 1



STEP 2



STEP 3



Step 4: Bring the two sides together and check for alignment, adjusting when necessary. Once you're happy with the rough shape, switch to the Mini-TURBO coupled with high grit sanding discs to further work on the fine shaping. To get an even smoother finish, switch to the Contour Random Sander with lower grit sanding discs. It's orbital sanding action will create the perfect finish on these round free-formed shapes.



TIP: As it's very difficult to get perfectly matching top and bottom, slightly round the inside edges so that there's not a defined edge as they come together.



Step 5: Next, oil the inside shape, wipe that and glue bottom and top together. Once dry, round all of the outside edges. This is an optional step but will show all the natural grain of the plywood and give it a more modern and sleek look. You can do so using the TURBOPlane and the Contour Random Sander.

Lastly, apply a nice coat of your preferred furniture oil and your piece is finished!

Measurements below are in millimeters.

