

Brains: Button

Listening the GuitarBot is nice, but once you load the code onto it, it will only play one song at a time. Let's add a button so that when you press it the GuitarBot will play another song.

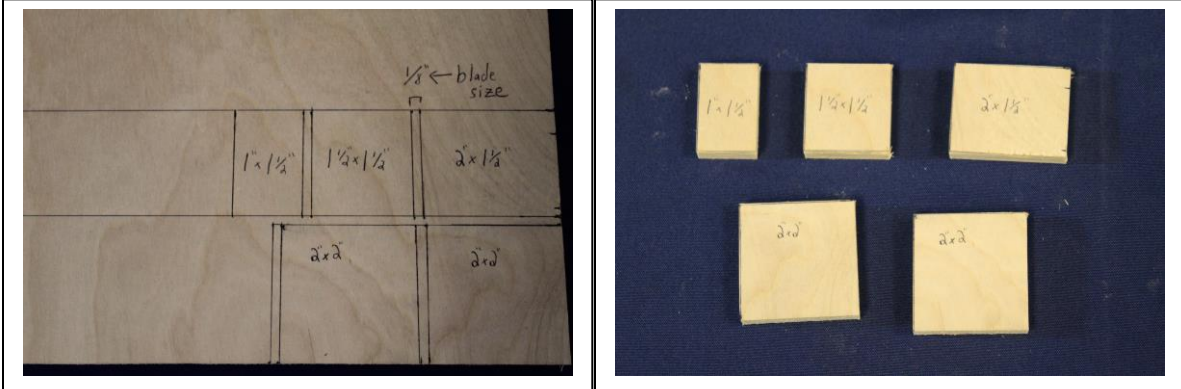
Bill of Materials:

Name	Number
½" x 2' x 2' Plywood	1
Wood Glue/Hot Glue	1
Dome Button	1

Tools
Band Saw
Wood Glue/Hot Glue
Marker
Wire Cutters
Wire Strippers
Soldering Iron
Solder (Lead Free)
Sand Paper

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Step 1:

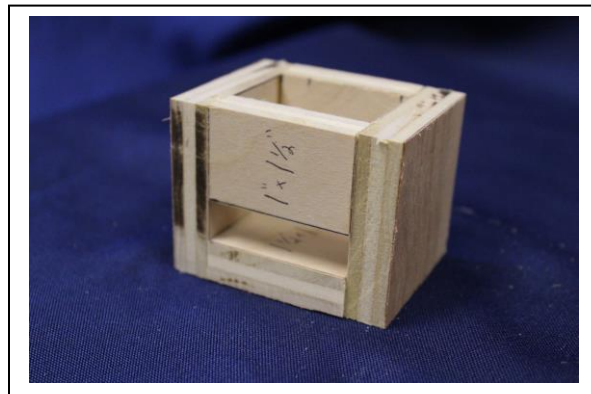
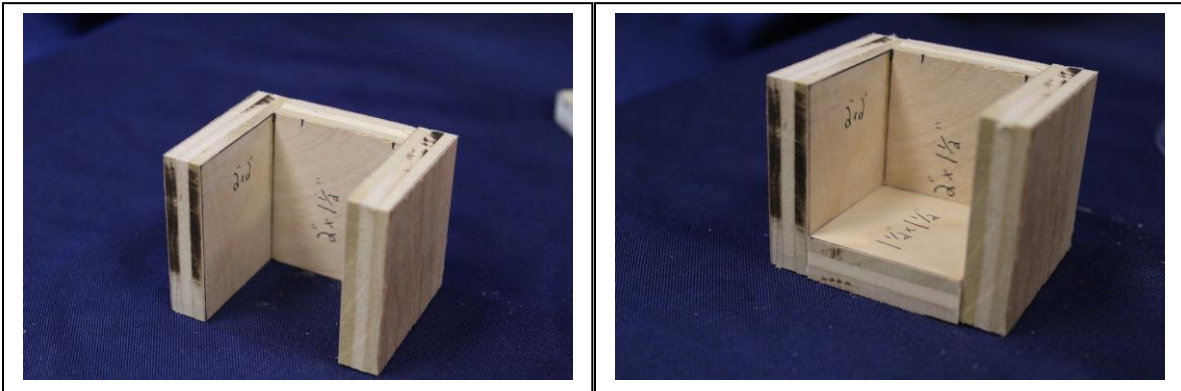


Need:

- 1x $\frac{1}{2}$ " x 2' x 2' Plywood

Measure out the following pieces on your Plywood sheet: two 2" x 2", one 2" x 1 $\frac{1}{2}$ ", one 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ ", one 1" x 1 $\frac{1}{2}$ ". Make sure to leave room for your blade, in this case the blade was just under $\frac{1}{8}$ ". Then cut out these pieces and sand them down to the appropriate dimensions.

Step 2:

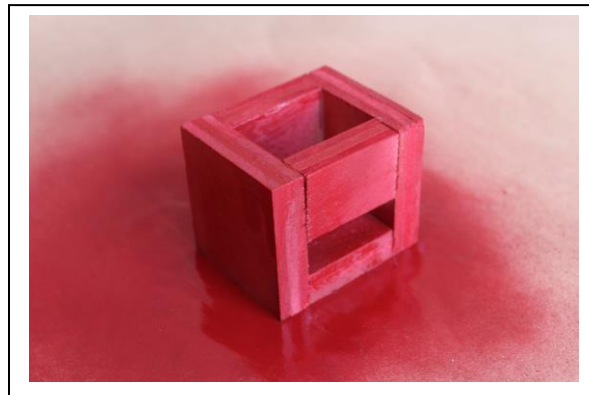


Need:

- 1x Cut Blocks
- 1x Wood Glue/ Hot Glue

Take both 2" x2" blocks, the 2" x 1 ½" block, aligning the flat side of the smaller block along the edge of each larger block and glue them together. Next, slot the 1 ½" x 1 ½" block into the bottom of the frame. Finally, take the 1" x 1 ½" block and align the long edge with the top of the structure and flat side with the front.

Step 3:

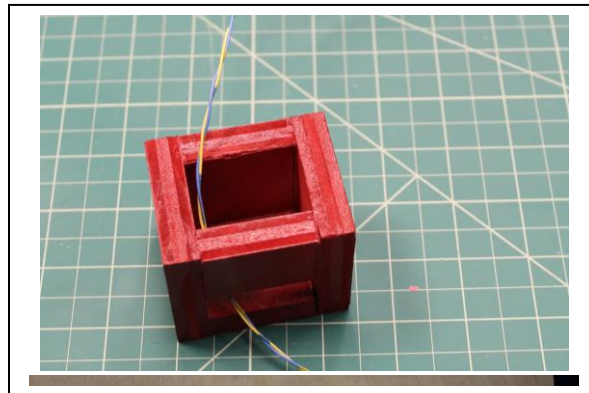


Need:

- 1x Spray-paint

After the glue has set spray paint the box.

Step 4:



Need:

- 1x Yellow and Blue Wire (connected to the Arduino)

Feed the Yellow and Blue wire through the small hole of the box and exiting out of the large hole.

Step 5:

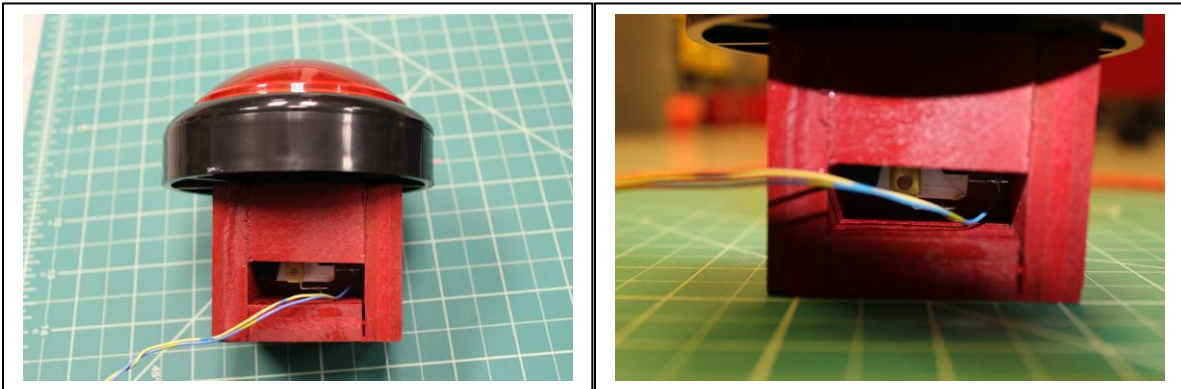


Need:

- Dome Button

Strip the ends of the wire. Solder the yellow wire onto the bottommost prong. This is connected to ground. Then, solder the blue wire onto the middle prong. This is labeled as on and when the button is pressed it will complete a circuit.

Step 6:



Finally, pull the wire as you settle the button into the large hole.