

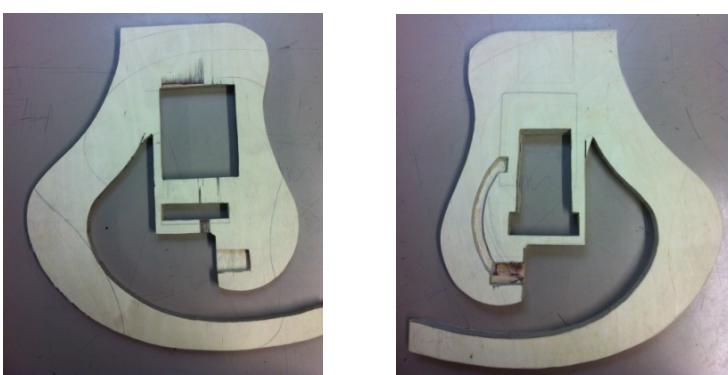
Making log

After making the template for my body I realised that I hadn't taken the scale length into consideration. I then redesigned the body so it was long enough to fit in the scale length. I did this on the laser cutter using Coral Draw software.



I used this template to draw out the design onto 2 sheets of acrylic that I glued 4 layers and 2 layers of 6mm plywood. The design was then cut out on the ban saw. I used a high grade sandpaper to get rid of some excess wood to make the design smoother.

I did this because I could chisel out the space of the wires and electrical components. I was unable to use the router for this so I had to chisel it out by hand which took longer to carry out.



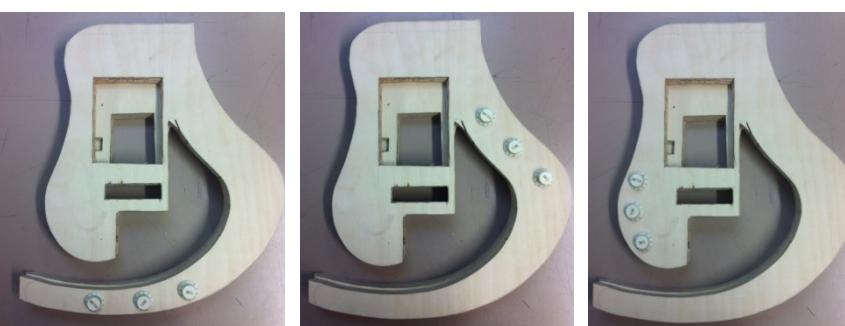
As you can see on the left picture, there was some damage caused in this process; sometimes I took too much wood out at a time and it would tear extra pieces out. Fortunately this will be glued to the other body which means it won't be seen. I soon realised after I made the hole for the jack that I would be unable to do the inner curve for my design, but this was the most ergonomically sound place as it wouldn't disrupt the guitarist strumming and was the thickest place on my guitar.



I then chiselled out the compartments for the inside electrical parts. I made sure I chisel 5mm away from the edge in case the wood chipped. After I did this I sanded down all the inside pieces so they were flat and smooth.



I then deliberated over where I should place the tone and volume knobs. Below pictures of some of the places I thought looked good.



I decided to go for the centre image as this would be the easiest place for the guitarist to change the settings as they wouldn't have to move too far away from their strumming position. I then drilled 8mm holes so I could fit the knobs in. I was pretty happy with how they fitted.



I then went on to make my neck. I glued two pieces of 9mm plywood together and clamed them together so they would fit tight. I then drew on my design making sure it would fit in the scale length.



I then got the design cut out on the ban saw, I sanded off any rough pieces.



I marked on the places where my tuning pegs would sit so I would be able to drill the holes for the pegs to push through. Then using the disk sander I curve the back of the neck as this would be the handle for the user. As you can see I was able to get the effect of the varying grain which looks very natural and appealing.

