

Structure: Foam Addition

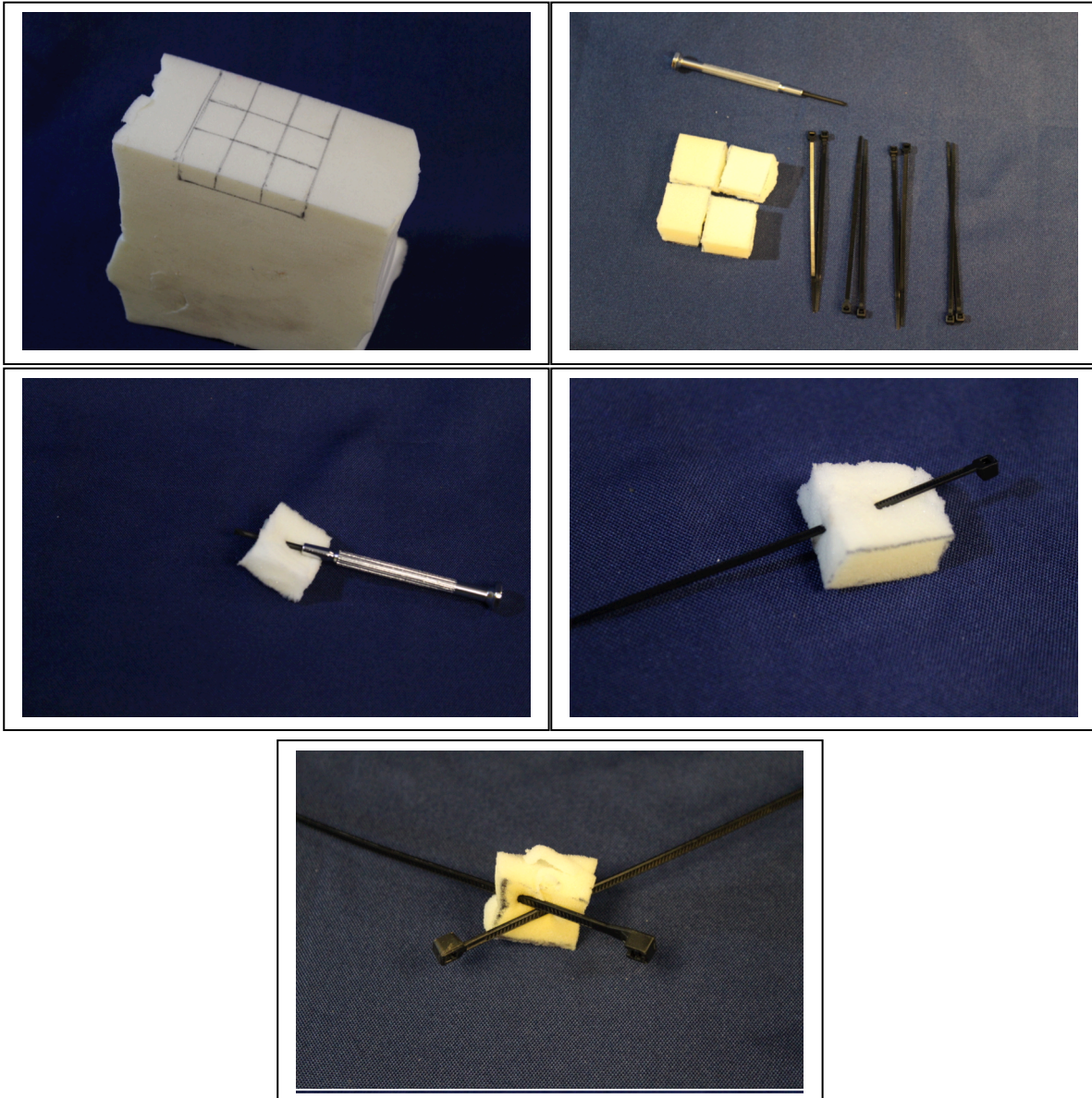
Before we can slot the guitar into the structure it is important that we protect and brace the guitar from the metal aluminum frame. This will be done by adding foam to the weight bearing sections of the structure in this section.

Bill of Materials:

Name	Number
Foam Block $\geq 2" \times 2" \times \frac{1}{2}"$	1
Block of Foam $> 8" \times 5" \times 3"$	1
Zip Ties	12

Tools
Precision Knife
Marker
Ruler

Step 1:

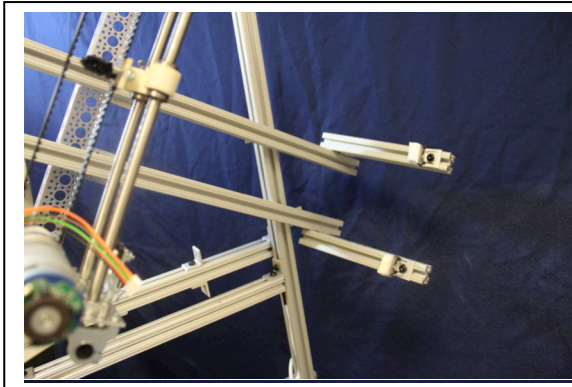
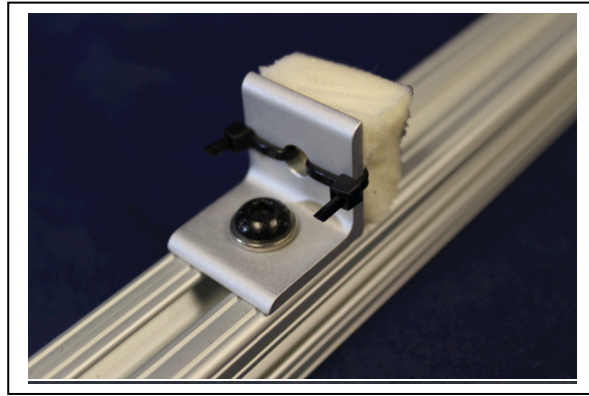


Need:

- 1x Foam Block $\geq 2'' \times 2'' \times \frac{1}{2}''$
- 8x Zip Ties

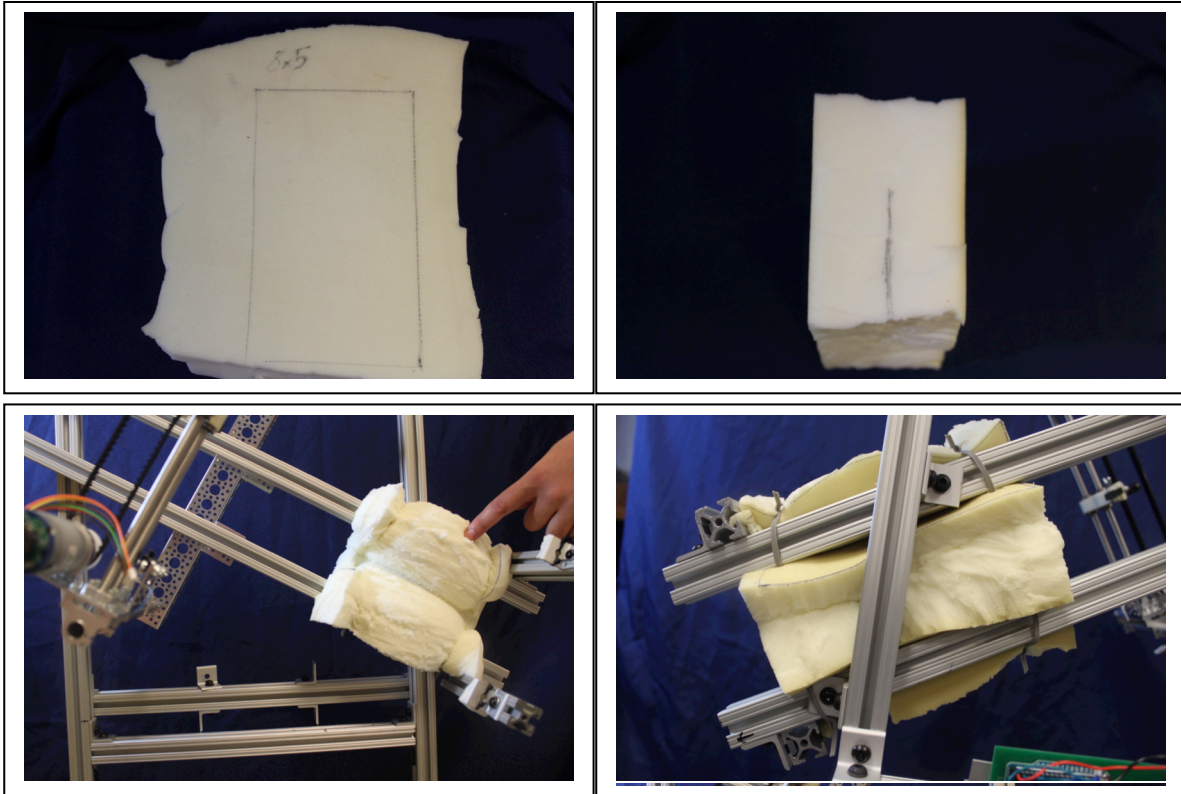
Using the excess foam from the neck holder assembly, cut 4 1" x 1" x $\frac{1}{2}$ " blocks. Use a sharp object, such as a mini screwdriver to pierce the foam through the top and exit through the side. Slide a zip tie through the hole. Repeat this process so that the second exit hole is opposite the first.

Step 2:



These foam blocks attach to the loose L bracket on the end of the arms located just above and below the strumming assembly. Thread one end of each zip tie in a block through the hole of the L bracket. Close, tighten, and trim the zip ties. Repeat for each foam block and bracket.

Step 3:



Need:

- 1x Foam Block > 8" x 5" x 3"
- 4x Zip Ties

The final piece of cushioning foam for this project should be a block cut down to 8" x 5" x 3". Then view the block from the 5" x 3" side. Measure halfway along the 3" side and make a vertical mark 3" long parallel to the 5" side. Cut this slit all the way through the block. Then, open this block like a book and Zip Tie each corner to the bottom of the arms of the bot as shown in the last two images.