

Laboratory EKG Pre-Amplifier - Bug # 169: Enclosure Marking/Machining Accuracy Issue

Status:	New	Priority:	Normal
Author:	Amanda Wozniak	Category:	
Created:	09/03/2013	Assignee:	Amanda Wozniak
Updated:	09/03/2013	Due date:	
Subject:	Enclosure Marking/Machining Accuracy Issue		
Description			
<p>I exported a DXF of the mechanical layers of the top assembly, and used that to laser-mark the enclosure lids for pilot drills. <i>But aligning the drill press by hand when you care about alignment tolerances is a poor choice.</i></p> <p>In the first five units, I wasn't able to machine the enclosure lids or bodies to any reasonable tolerance, so my fits were poor. I had to compensate by using stepped drill bits to add a lot of slop to all the holes.</p> <p>I need to fabricate a registration guide/jig that I can clamp to my work-piece which allows me to more precisely align my drills.</p> <p>PROPOSED SOLUTION:</p> <ol style="list-style-type: none">1. dimension/draw enclosure lid perimter with mounting holes2. Use DXF to laser-cut a jig for the pilot holes - include perimeter with mounting holes for registration3. figure out a way to clamp/fixture the workpiece on my drill press4. test-drill using jig5. if that works - repeat process for enclosure body			

History
