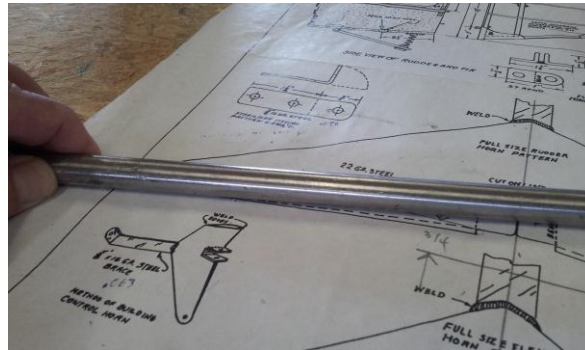


This just covers the edge bending part of the Pietenpol control horn build. The material layout/shape should follow the plans. So just cut out the part(s) per the plans and use this as one way to do the bends.

I took these pictures as I was forming/shaping the actual bend. The time between the first and last pictures was 9 minutes. And I was not rushing. So it's a simple/quick/effective process. No special tools needed.

After the bends, weld with a 000 or 0000 gas tip, paint and finish up the rest of the plane and go FLY!!!

The idea is to clamp a round bar up against the part of the horn you'll be bending and form/hammer/shape the material over the curve of the round bar. For each of the two OPPOSITE sides. As shown below on the original drawing:



When you actually clamp up the material with the round bar, one side will look like this. The other side will be on the opposite side of the bar, bent the other direction:



You'll then ping/shape the edge over the round of the bar:



You'll notice that as you shape the material around the bar, it will taper back to almost flat:



Bend two OPPOSITE shapes and the weldable result will be:



Here are a few more pictures for reference....



