

CNC Shark Digitizer Probe Installation Manual

Copyright 2010

Next Wave Automation



Figure 1

This probe was specifically made to work with the CNC Shark created by Next Wave Automation.

As shown in figure 1. This is the contents of the mechanical components of the probe upon opening the box. You have the probe with the extended cable on it and a small pigtail that needs to be connected to versions of the controller that do not include a probe hookup.

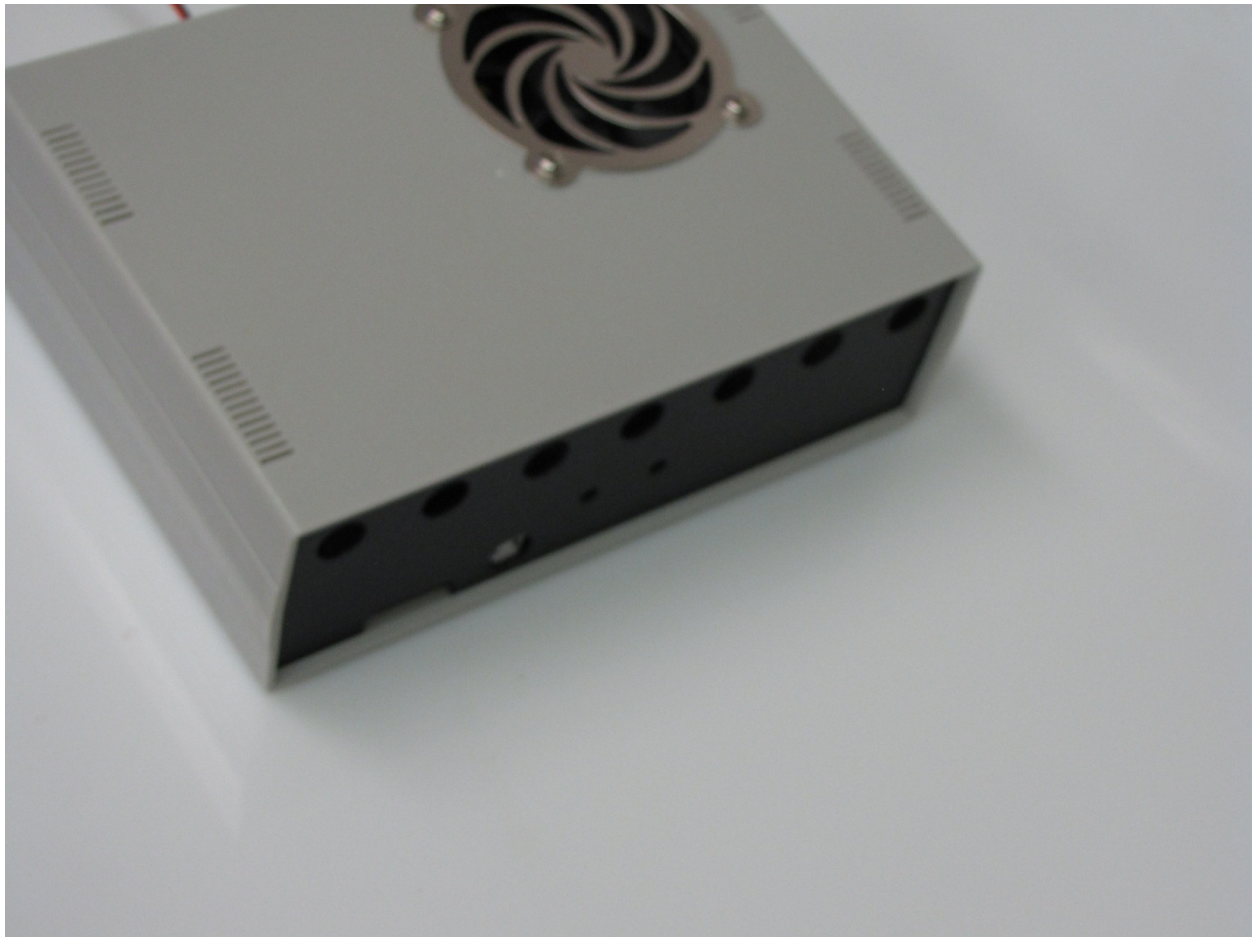


Figure 2

In figure 2 shows a standard controller box that is commonly shipped with the CNC Shark's. You'll notice two 1/4 inch holes approximately in the middle of the blackface controller plate.

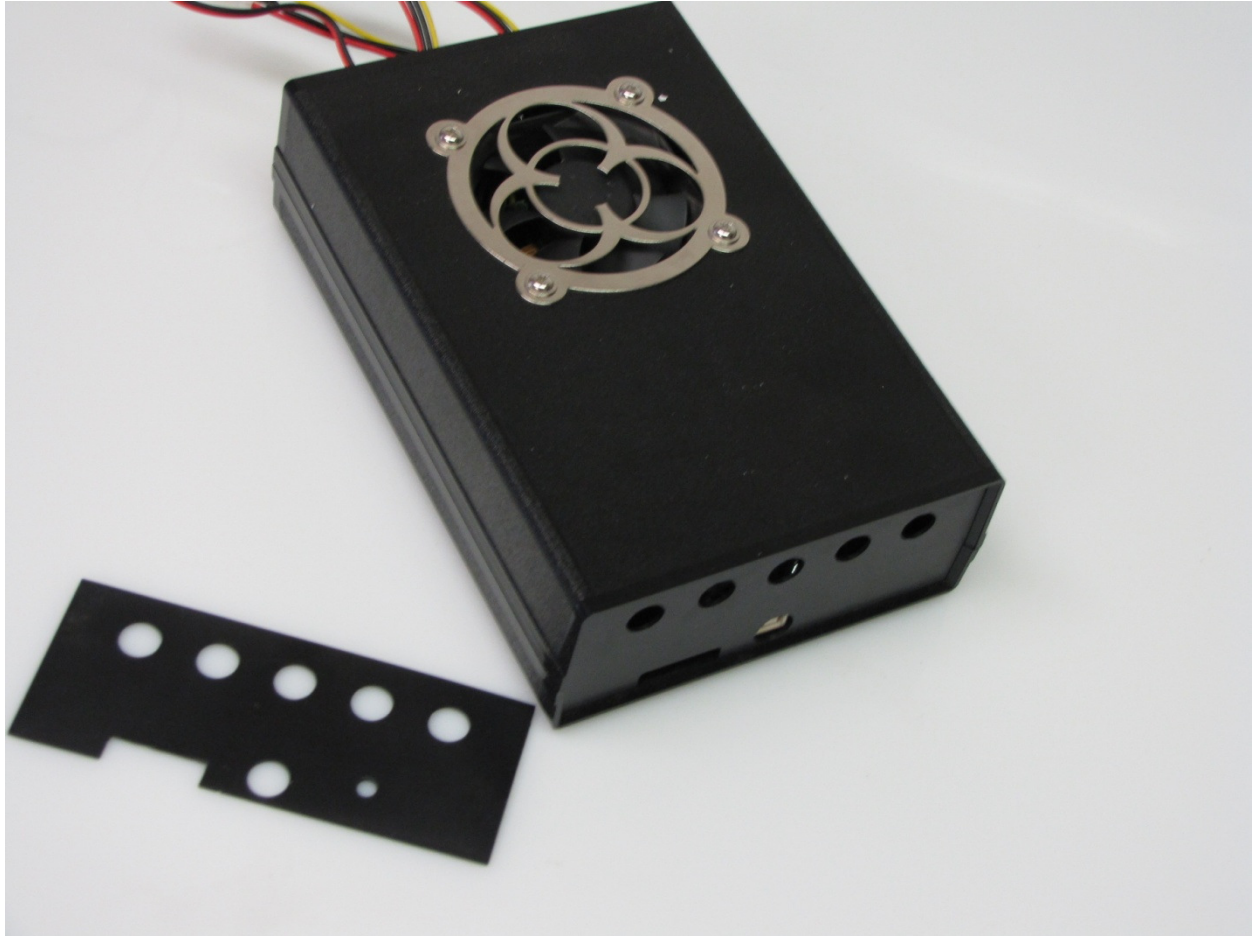


figure 3

Your controller case may look different and it may look something closer to the one shown in figure 3. This controller does not show the two holes in the controller plate. You'll need one 1/4 inch hole in the plate for the mounting pigtail hookup. Drill a quarter inch hole roughly in the position shown by the plate sitting next to the black controller. The controller should be taken apart before the holes are drilled to prevent damage to circuitry on the inside.



figure 4

Figure 4 shows the bottom of controller. You'll notice that there are several screws in the bottom of the controller. All screws that open the box regardless of which controller box you use are recessed. Do not remove any screws that come flush or slightly raised on the box.

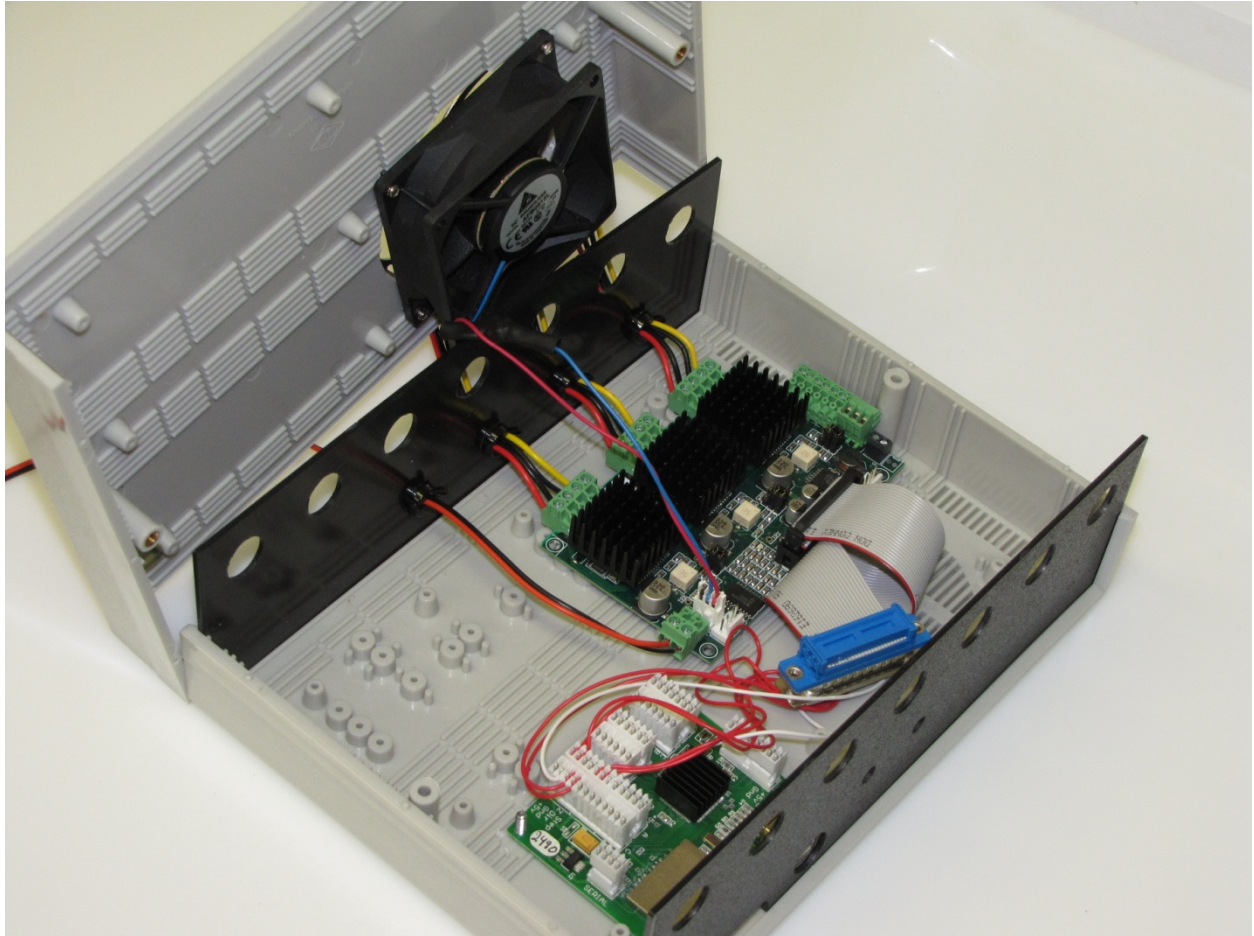


figure 5.

Figure 5 shows the general layout of the box after it is open. Be careful that there is a fan cable which hooks up to a two prong connector on the larger board as shown.

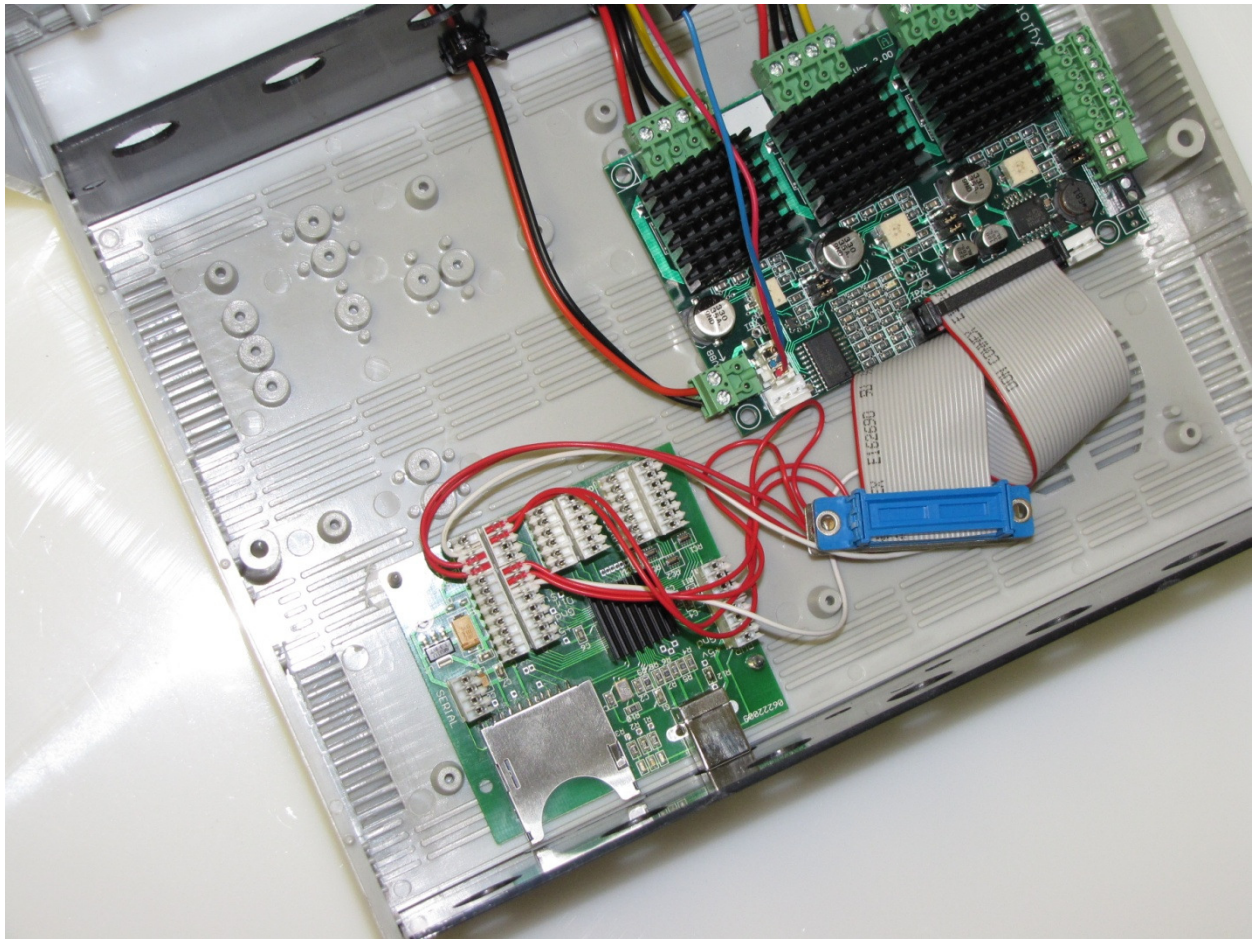


Figure 6

In figure 6 ignore the larger board in the controller and locate the roughly square 3 inch board where the USB plugs in to the controller.

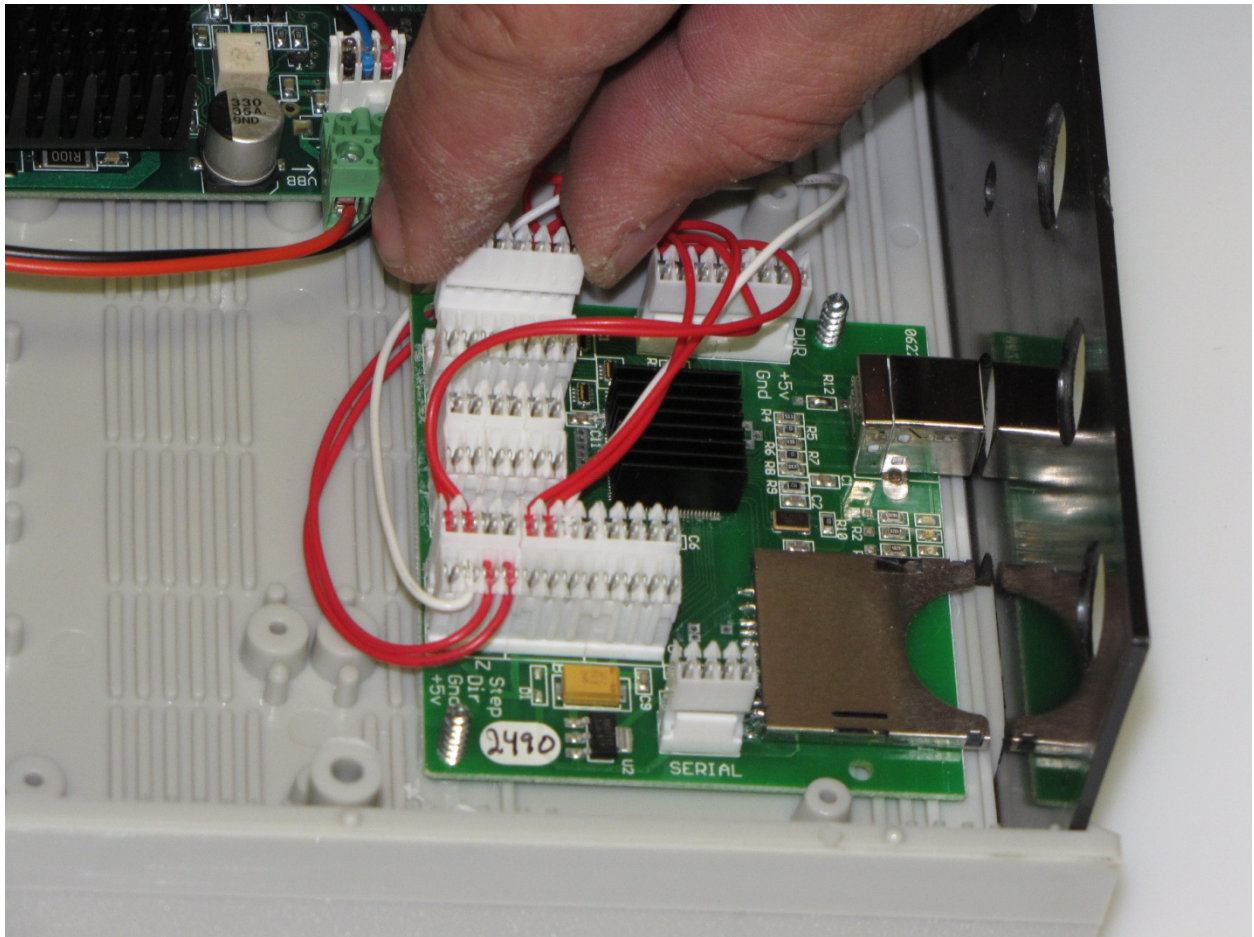


figure 7

Figure 7 shows the removal of a seven pin connector in the corner of the board. This connector will pull straight up but it might require a little wiggling and some minor force.

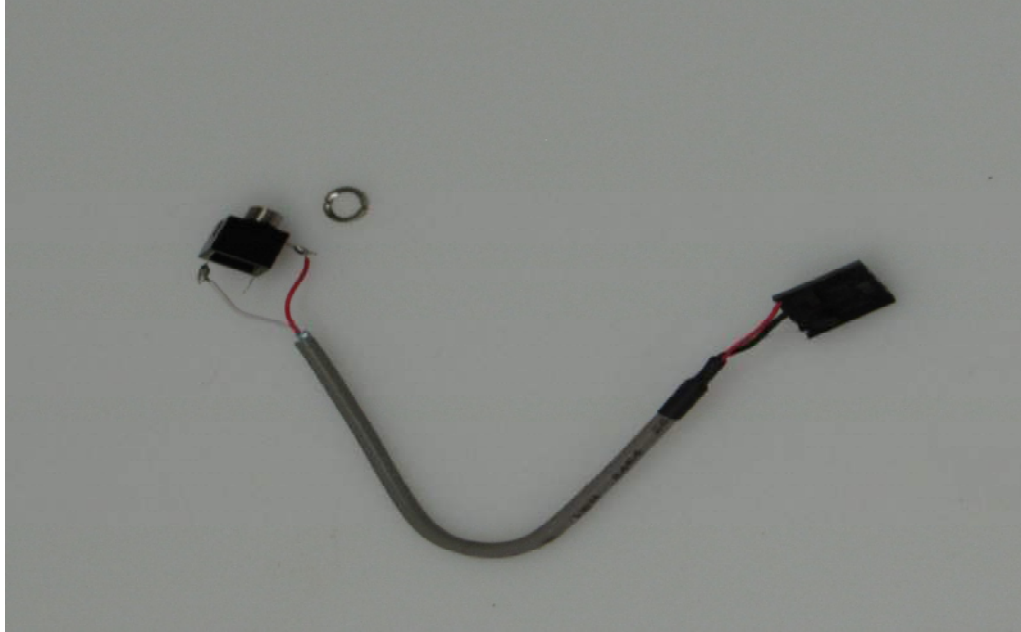


Figure8

Figure 8 shows the pigtail hookup that is required to attach to your controller. Remove the silver nut that is screwed onto the end of the hookup.

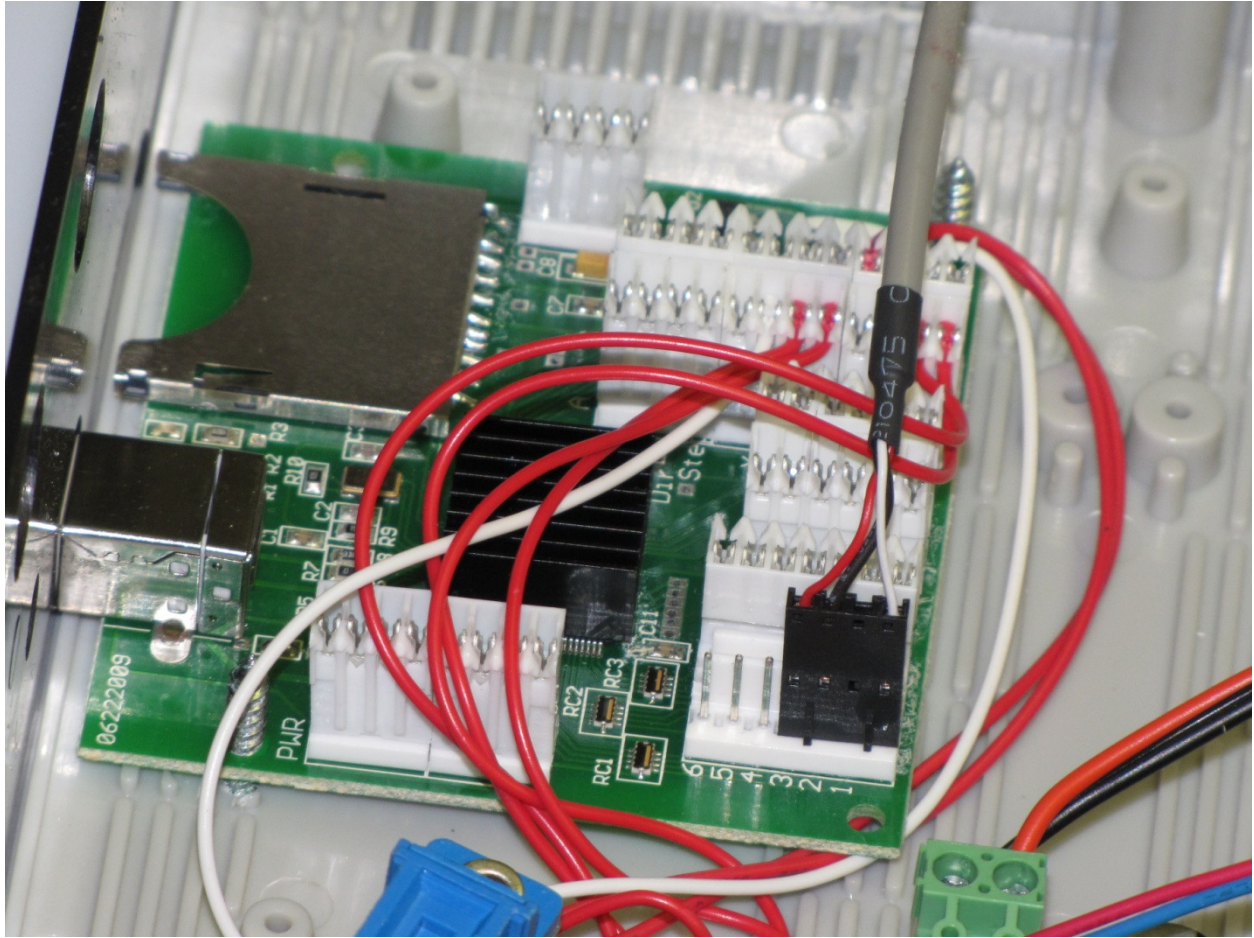


figure 9.

Figure 9 notice that the pigtail is attached to the seven pin connector. The connector should only go on one-way. You want to make sure that the connector is closest to the end of the board. The connector is only four pins wide and will not cover all seven positions.

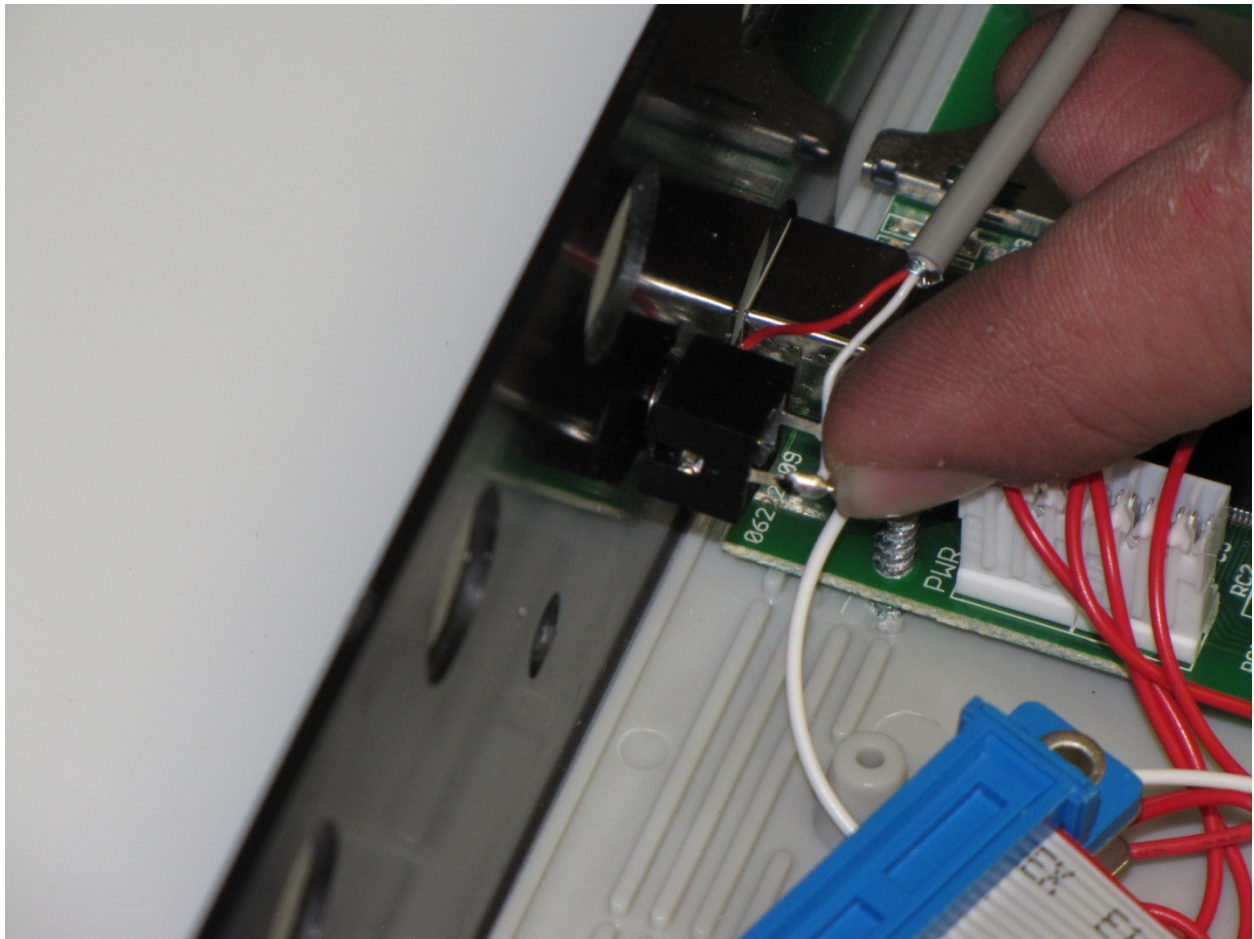


Figure 10

In figure 10 slide hookup into the hole provided and then screwing the silver nut on the other end. Make sure it is tight but do not over tighten the nut which might damage the connector.

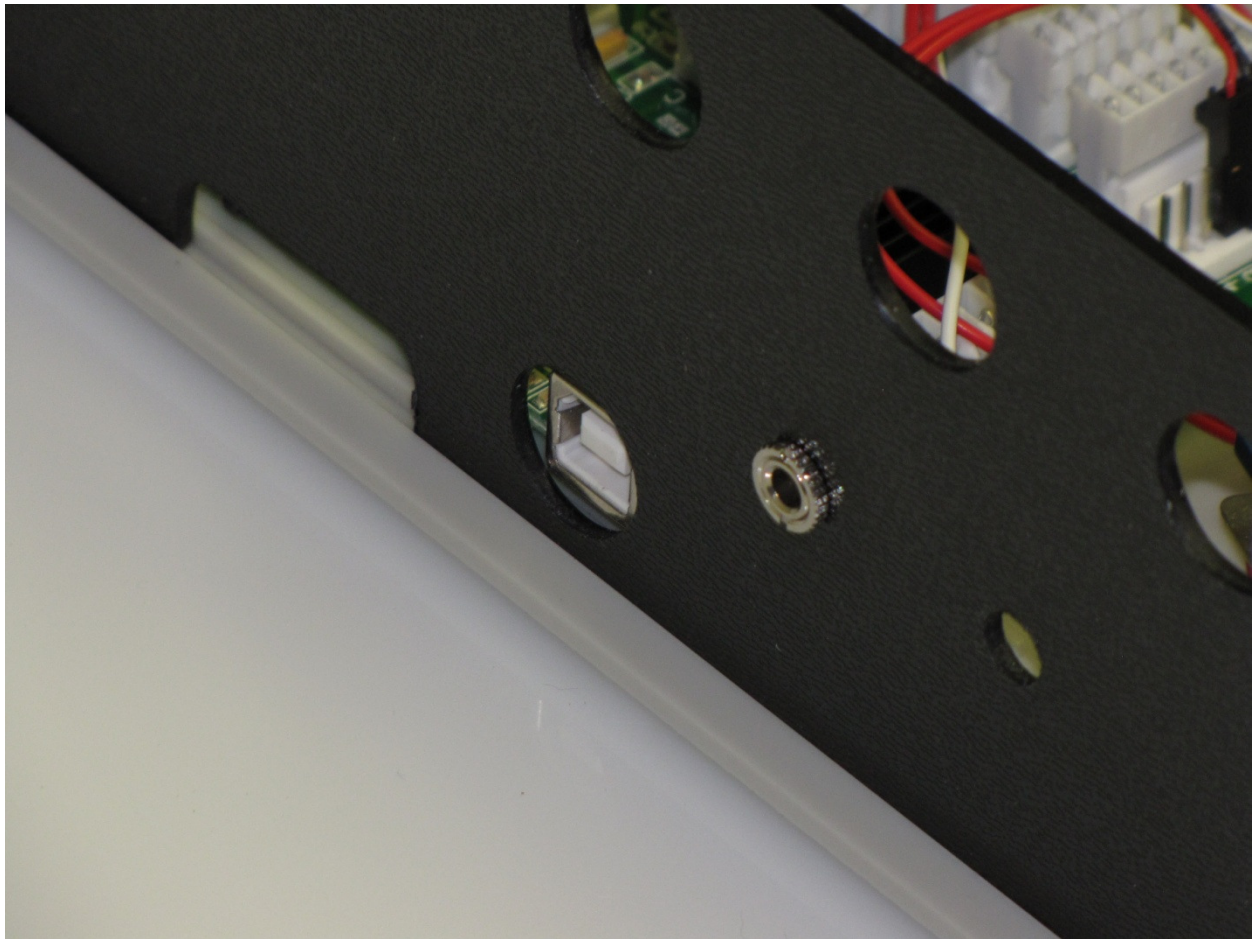


figure 11

Figure 11 shows all the hookup should look from the front side of the controller.

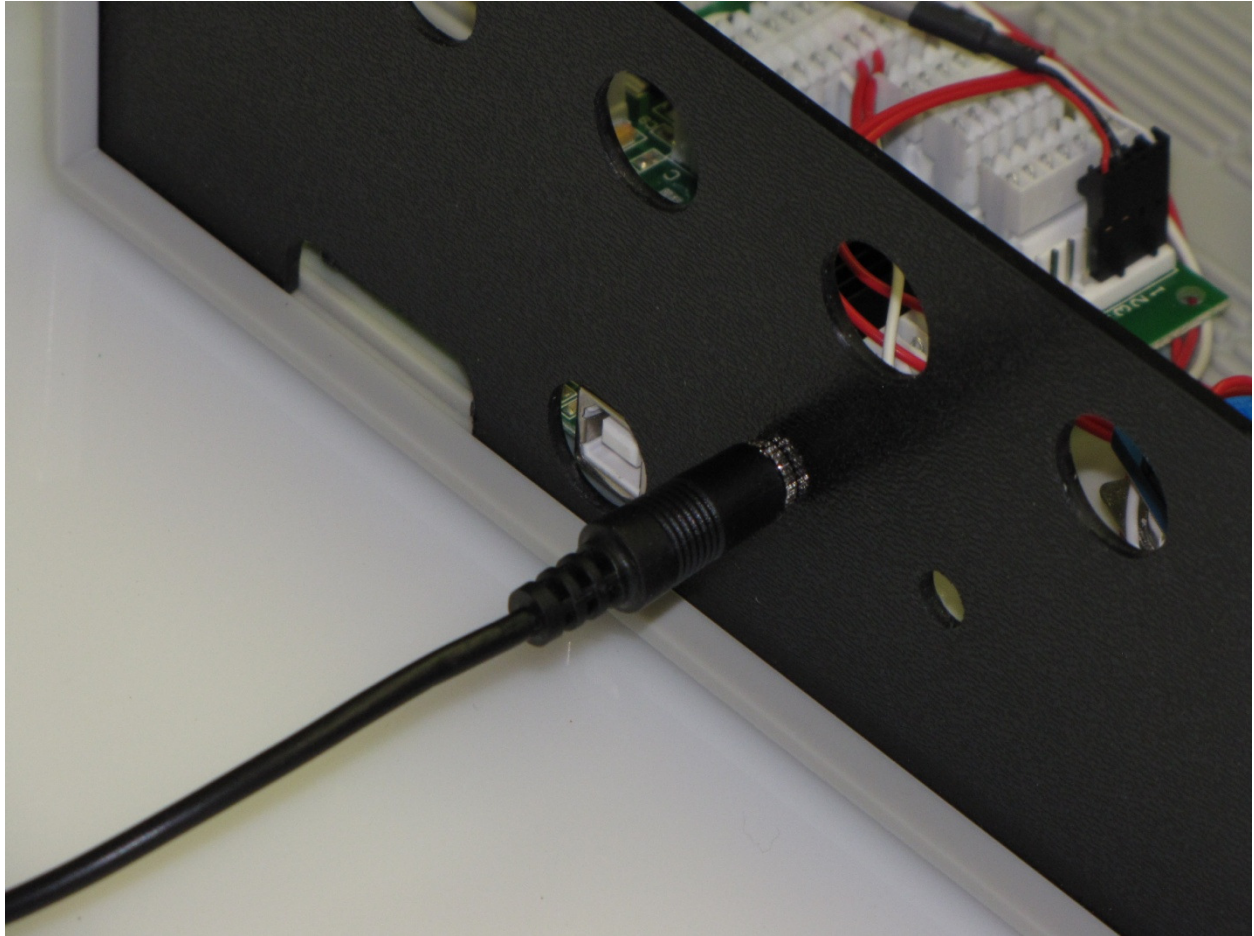


figure 12

Figure 12 shows the probe being fully plugged into the controller. You have to make sure that the plug completely plugs into the socket. If it were to come unplugged or partially unplugged might cause damage to your probe during operation.

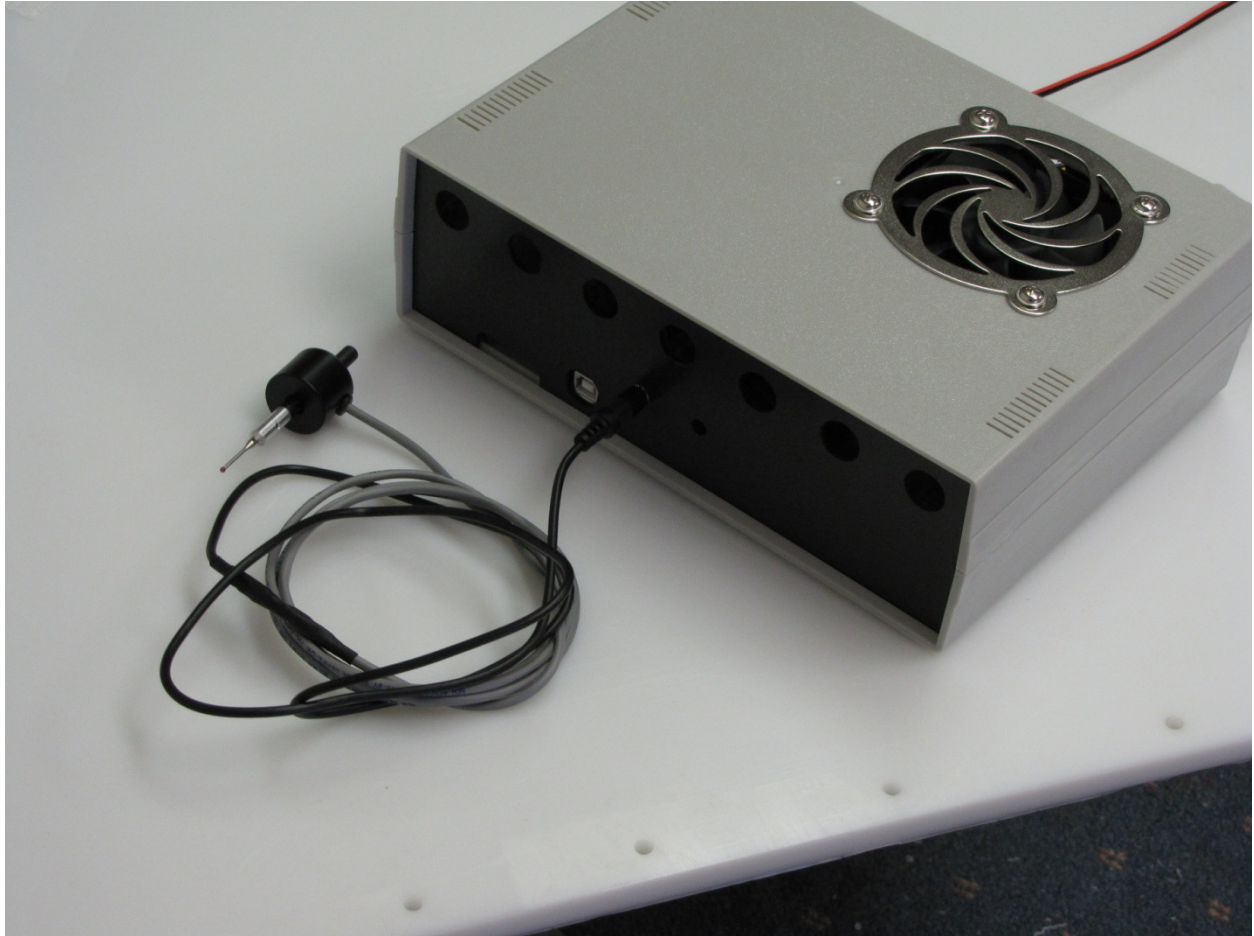


Figure 13

Figure 13 shows the completed assembly.

Please go to www.CNCSHARK.com downloads section which has the Probe software and Manual of operation.