

Touch Probe Installation -

Un-boxing – Congratulations on your new Carbide 3D Probe!



In the image above you see a wiring adapter for older controllers, The Probe , the Ground Lead with Alligator Clip, and a Thank You card.

Requirements:

GRBL 1.1 and Carbide Motion 4

If needed Download Carbide Motion 4 here:

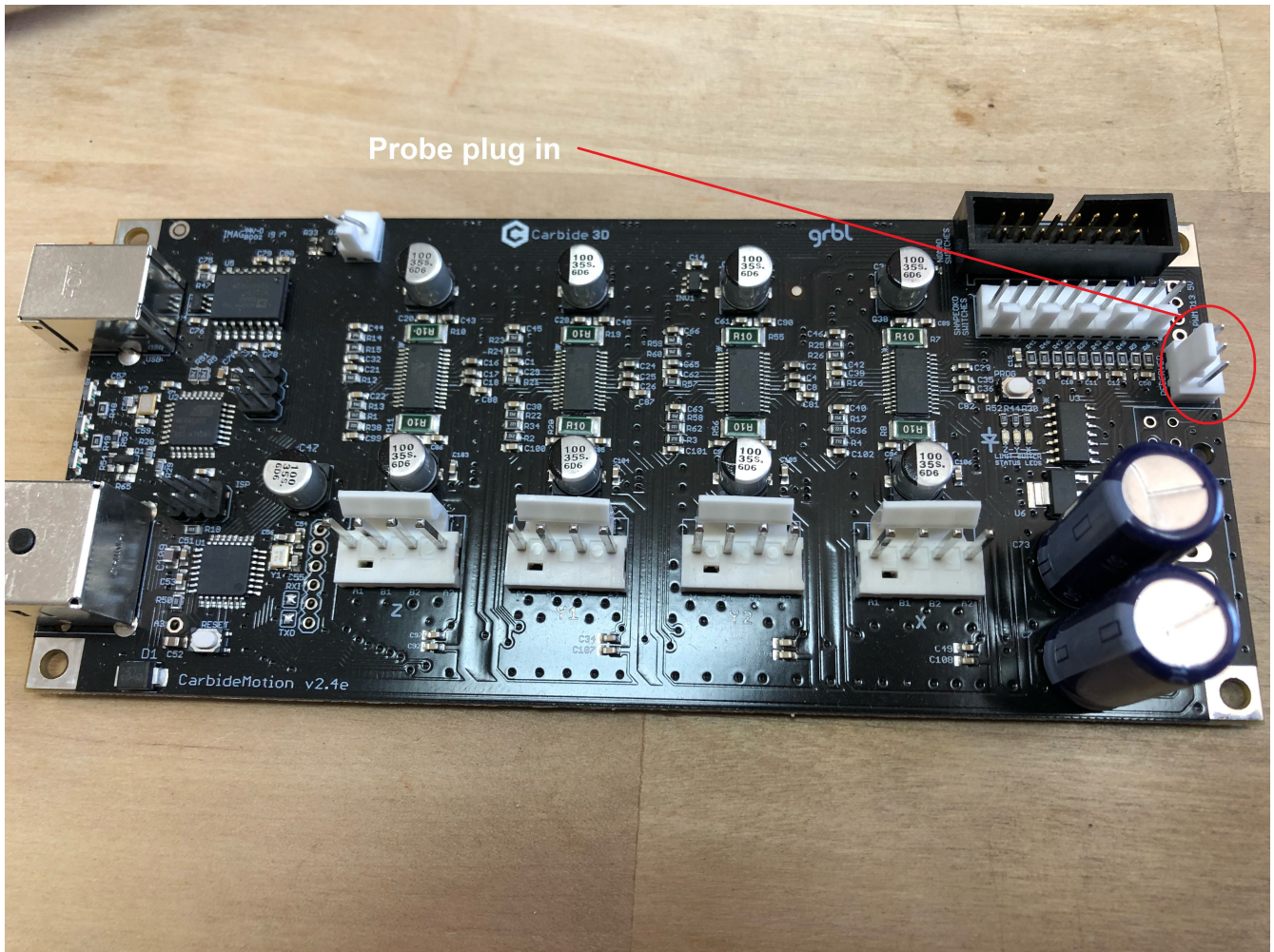
<http://carbide3d.com/carbidemotion/download/>

If you need to update to GRBL 1.1 find information here:

<http://docs.carbide3d.com/support/carbideupdater/>

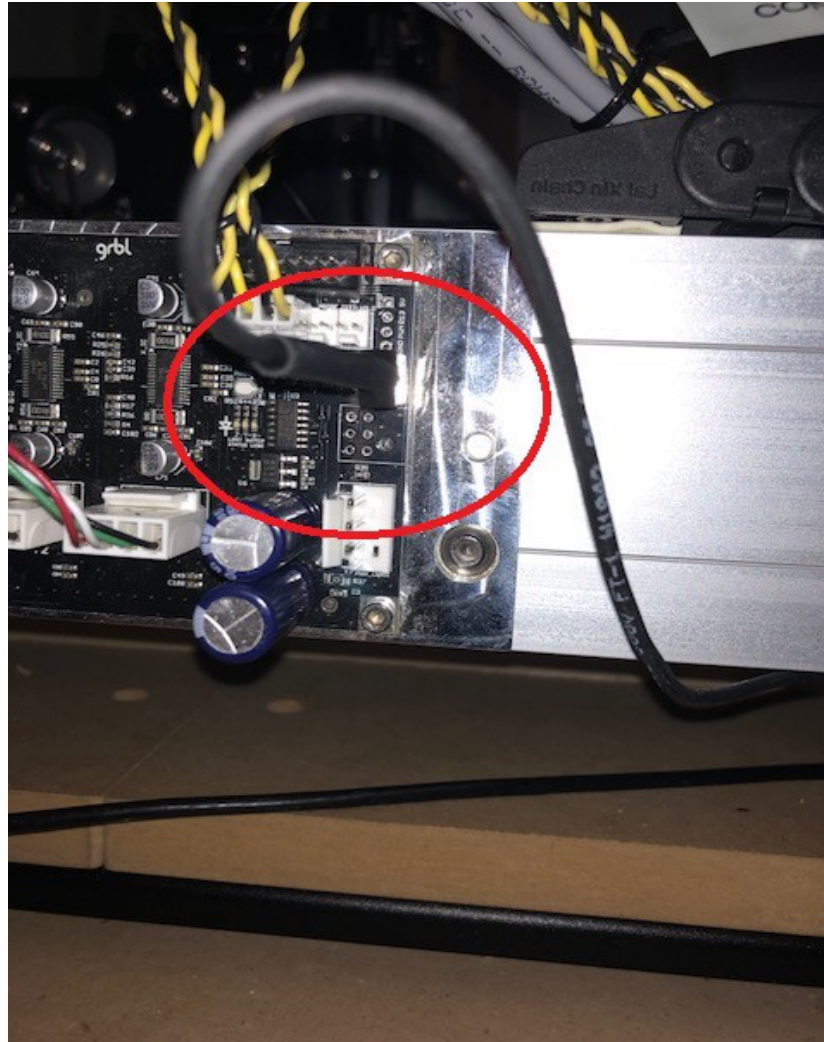
We are going to show a set up with the current Control PCB. Older Models will be covered after the basic set up.

Here we are showing the location of the Probe plugin port shown in the image below.



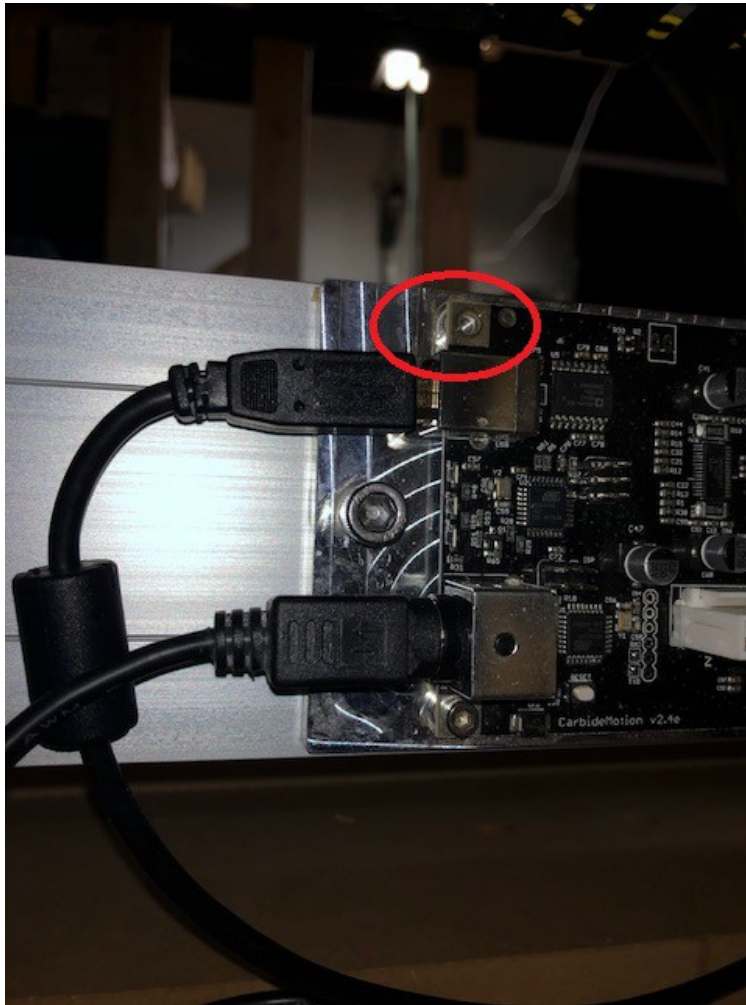
Here we show the Probe plugged in to the Control PCB in the image shown below.

\*For illustrative purposes it is shown plugged directly in you will need to direct it through your electronics cover. Always Power down the Shapeoko before working on the Control PCB!



## Installing the Ground Lead -

Start by removing the screw holding the Control PCB to the heat sink as shown in the image below.

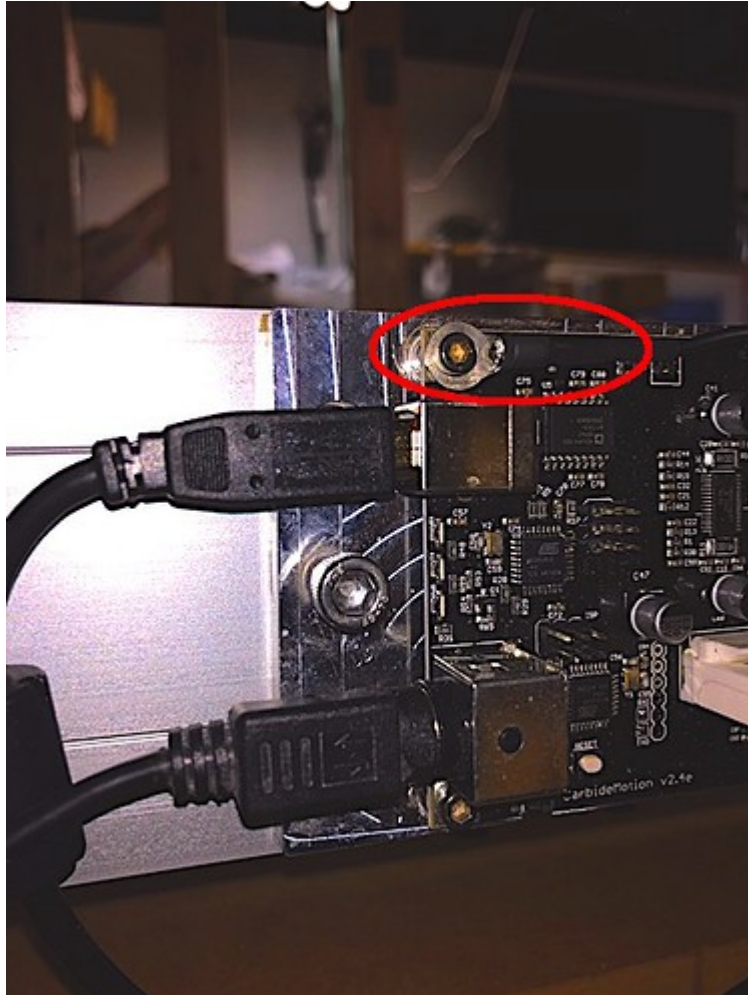


Now place the Screw through the loop at the end of the Ground Lead as shown in the image below.

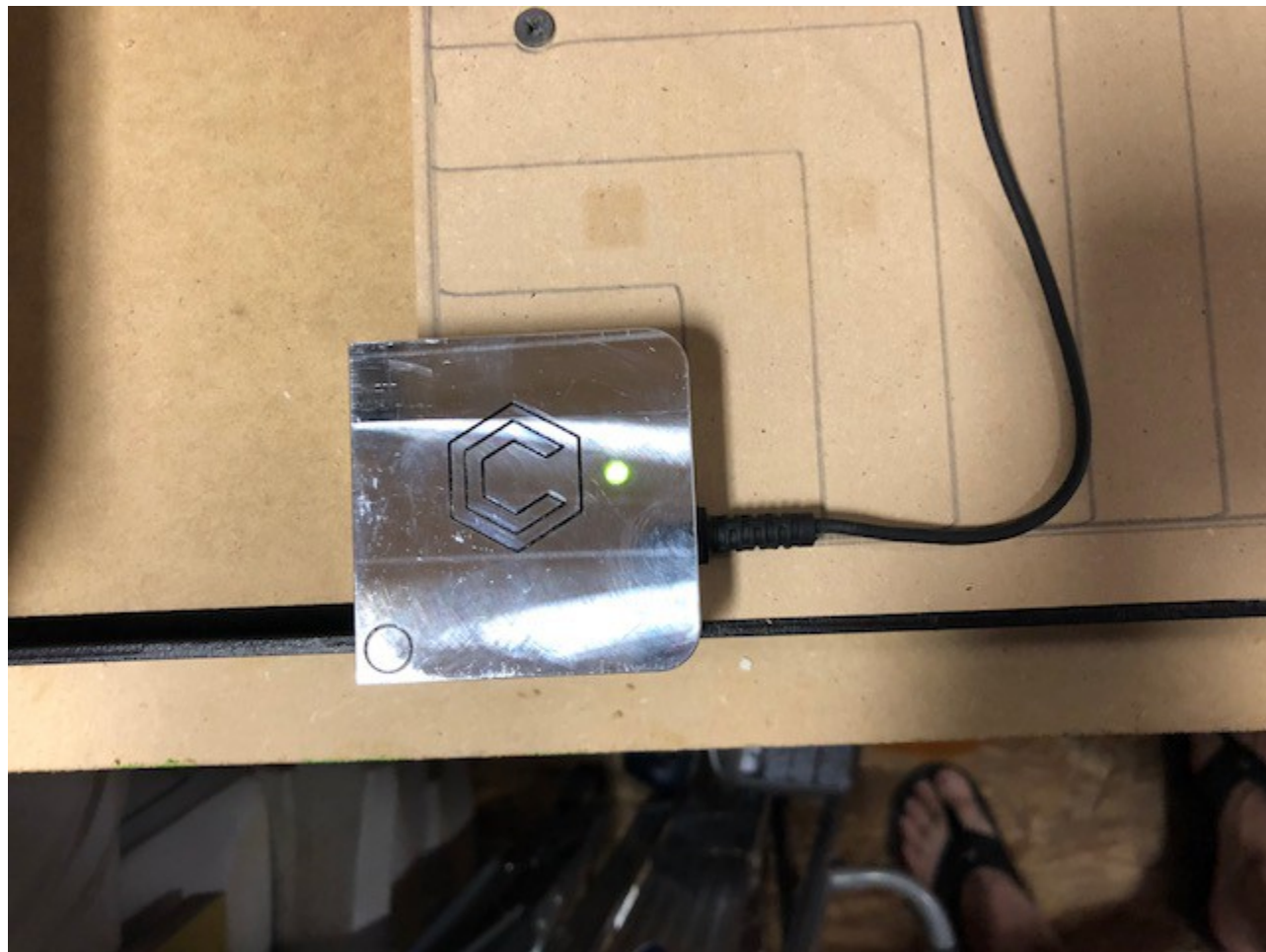


Attach the loop with screw to the Control PCB as shown in the image below.

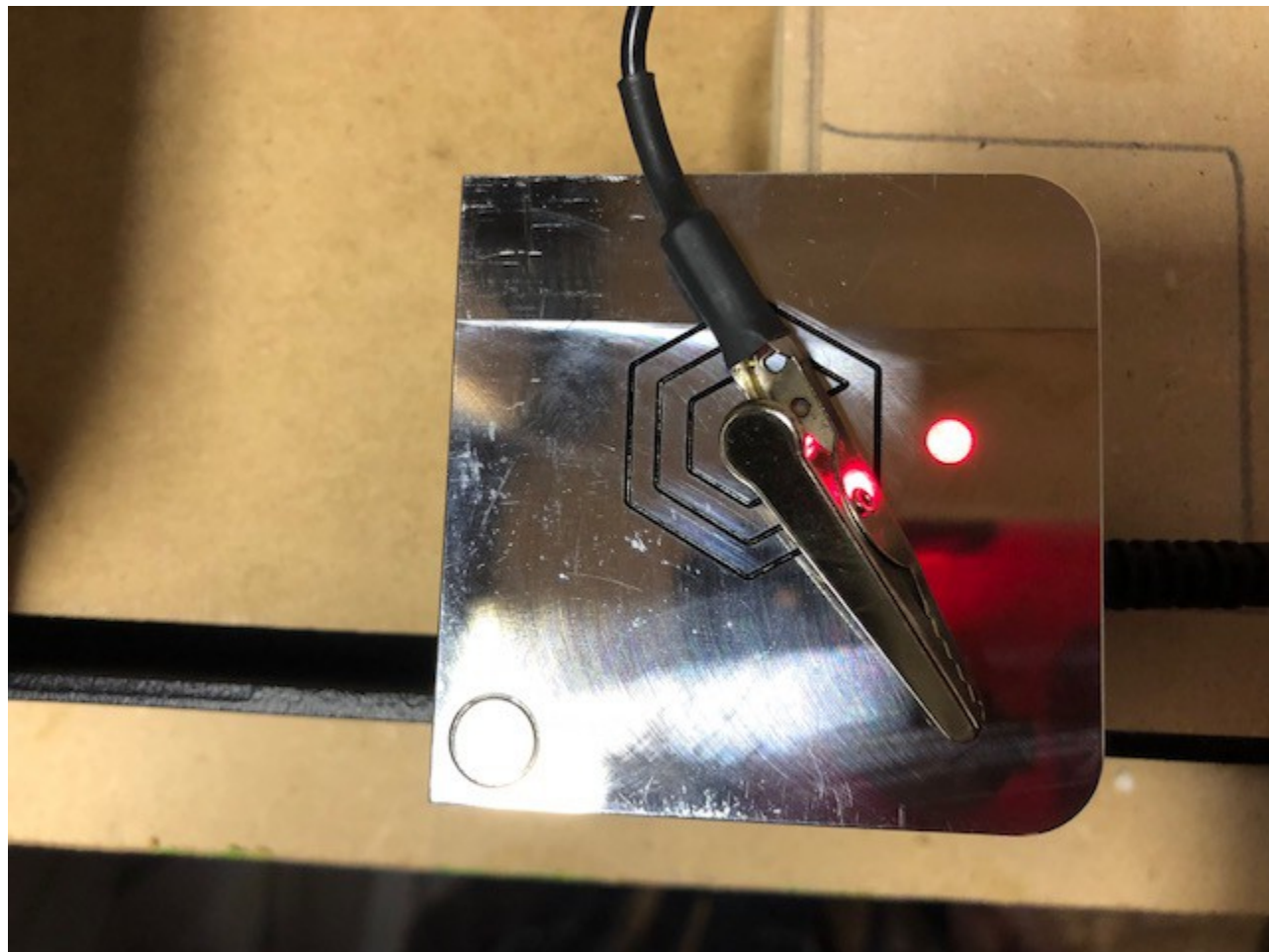
\*For illustrative purposes it is shown plugged directly in you will need to direct it through your electronics cover. Always Power down the Shapeoko before working on the Control PCB!



Now place the Probe on the work surface of your Shapeoko and power the Shapeoko up. Your Probe should have a Green light similar to the one shown in the image below.



Now place the Alligator Clip on the case of the probe it show red. You make need to hold it in contact. Your Probe should look similar to the one shown in the image below.





This concludes the set up for the current controller. If you are not getting a red light please e-mail:

[support@carbide3d.com](mailto:support@carbide3d.com)

Let us know you are having a problem and we will work with you to resolve it.

If you are getting a red light, go ahead and replace the cover over the electronics if you haven't, you are ready to use you probe and can continue here:

<http://docs.carbide3d.com/assembly/touch-probe/userguide/>

If your Control PCB isn't Version 2.4d/e as shown in the previous example use this guide for the placement of the Grounding Lead and refer to this for how to use the wire adapter or how to connect to your version of the Control PCB at the site shown below.

Other models are covered here:

<http://docs.carbide3d.com/assembly/touch-probe/>

If you have other questions or needs e-mail us at:

[support@carbide3d.com](mailto:support@carbide3d.com)