



# Touch Plate Manual

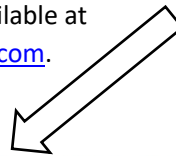


Touch plate serial number. Please save this info here for use later: \_\_\_\_\_

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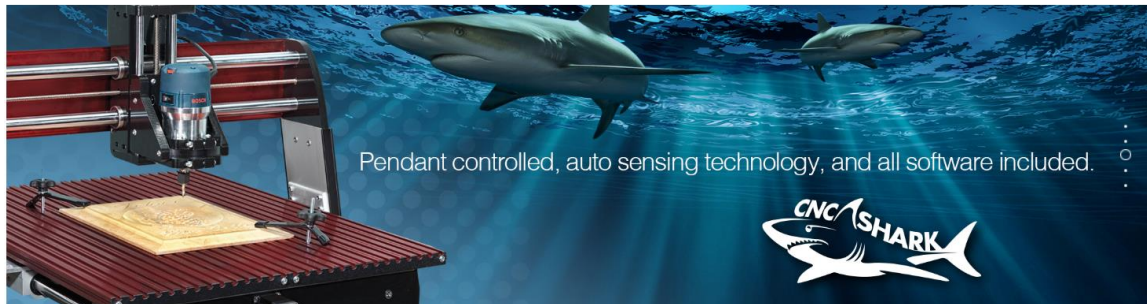
Version 2  
April 14th 2017

Updates of this manual are available at  
[www.nextwaveautomation.com](http://www.nextwaveautomation.com).



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Please note: This manual is divided into two sections.

Section I is the Pendant Controlled Machines.

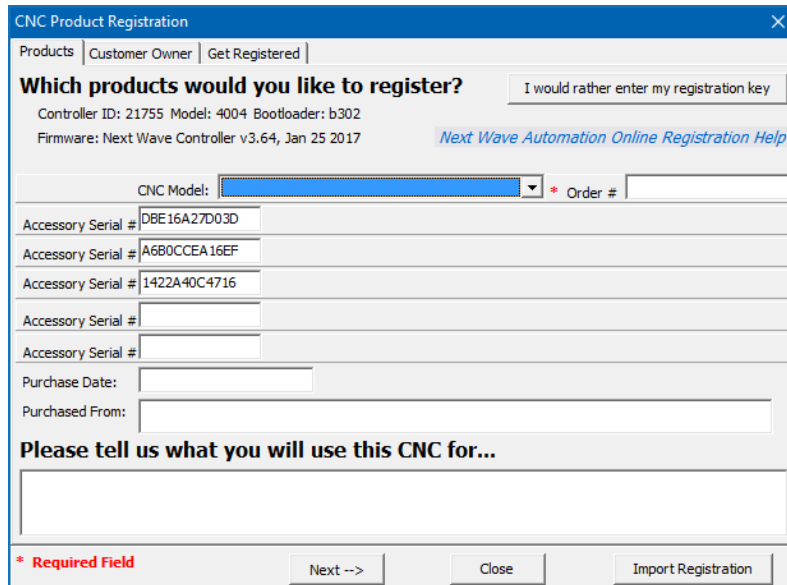
Section II is for Controller Style Machines

## Touch Plate Registration

- Download the CNC Control Panel 3.0 or the Shark Control Panel 2.1(Included with your machine)
- Connect the HD4/Piranha XL controller to your PC via USB
- Power on the controller
- Open CNC CP v3.0 or CNC Shark CP 2.1



- If you have already registered your CNC, the CNC Product Registration will not automatically open. Simply go to **Help > Register your Next Wave Product** and proceed
- You will be asked to register your CNC and accessories



- Select the CNC model you own

- Enter your Touch Plate serial number in one of the “**Accessory Serial #**” slots
- Click “Next”
- Fill in all areas of the “Customer Owner” tab, and click “Next” when done

**CNC Product Registration**

Products | **Customer Owner** | Get Registered

**Please tell us about yourself...**

Company  Phone #

First Name  Last Name

Country  Province

Address

Address 2

City  State  Mail / Postal / Zip Code

**Please enter your email information.**

Email address

re enter Email address

\* **Required Field** <-- Previous Next --> Close Import Registration

- You will then be asked to submit your registration information

**CNC Product Registration**

Products | Customer Owner | **Get Registered**

**How would you like to submit your registration?**

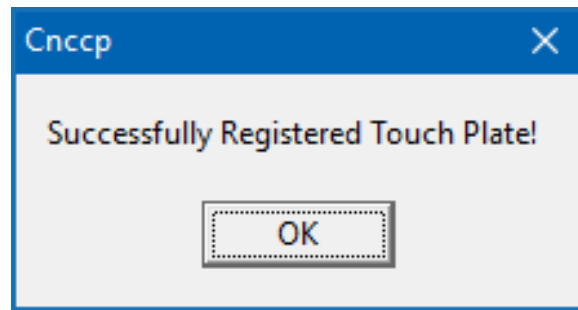
Submit (Must be connected to the Internet)

Email Registration to Next Wave

Save Registration Info to Local File

\* **Required Field** <-- Previous Import Registration

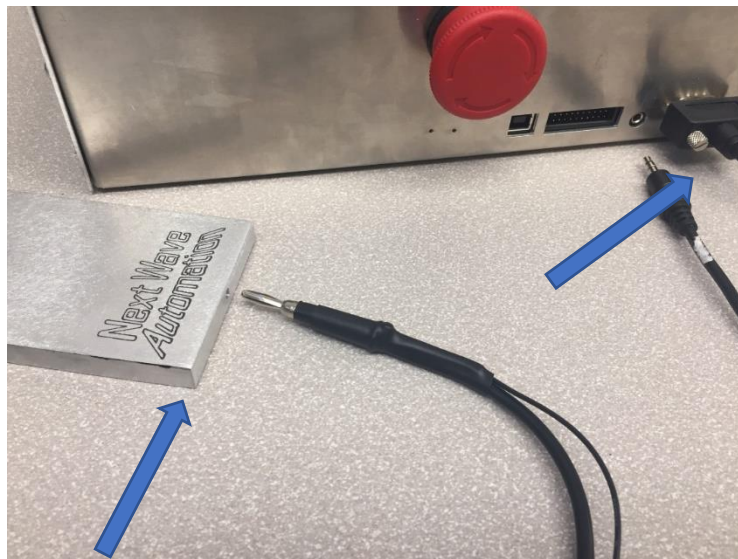
- Once submitted, you should receive this message



## Section I

### Using the Touch Plate on Pendant Controlled Machines

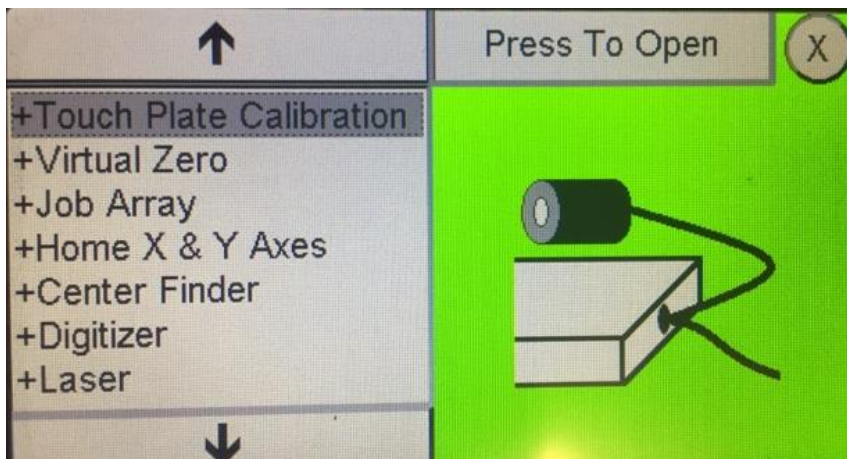
- Make sure your touch plate is properly connected to the controller
- Plug the small single cable end into the touch plate/probe port, on the controller
- Plug the longer banana jack plug into the touch plate. There is a receiving hole in the front of the silver plate with the logo placed facing up. **Note: The touch plate zeros to the tip of a bit. Make sure the bit you will be using is properly installed in the router before proceeding**



- Place the touch plate on the Z position of the project you are going to machine
- Attach the black magnetic cylinder and wire to the router collet. This will be held in place by the magnet



- On your LCD Pendant, go to **Apps > Touch Plate Calibration > Press To Open**

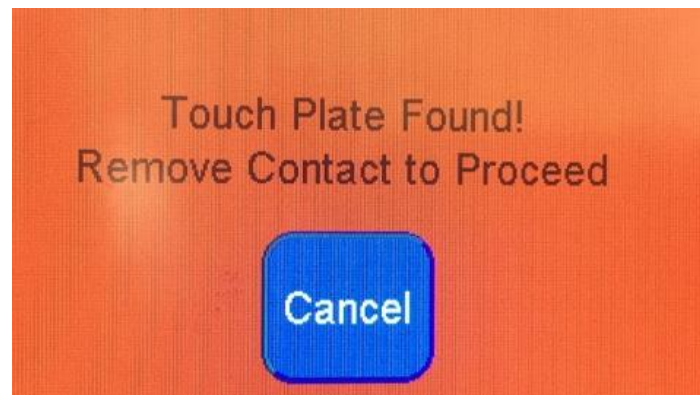


- This will open the Touch Plate Calibration menu. There are three selections
  - **Run Z Calibration:** Executes the touch plate (Last Step)
  - **Speed:** Changes the speed in which the Z Axis moves during calibration
  - **Plate Thickness:** Gives you the ability to change the touch plate thickness
- The speed and plate thickness settings should only be changed during special circumstances
- When you are ready for calibration, select **Run Z Calibration**
- You will receive this warning

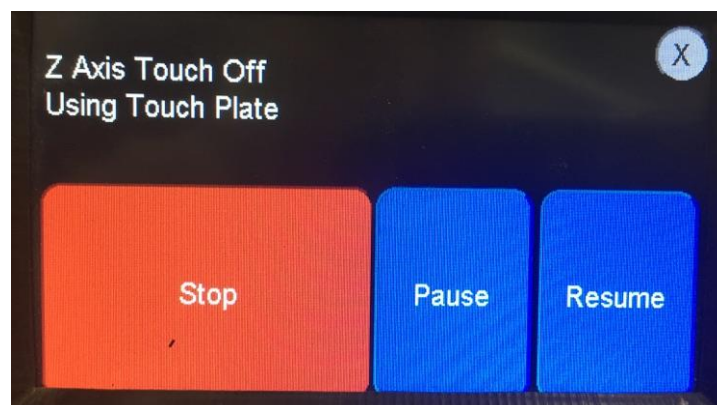




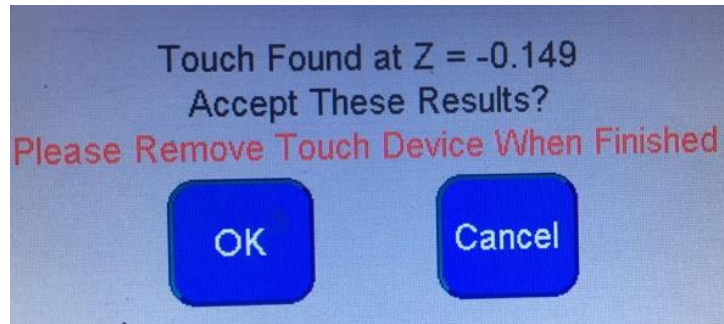
- Select **OK**
- You will then confirm that the proper touch plate connection is established. To do so, simply pick up your touch plate and tap it on the bit that is in the collet. You will receive this confirmation while the plate is touching the bit. You will not be allowed to proceed until you receive the confirmation message below



- Before you select **OK**, make sure that the touch plate is between the bit and material
- Select **OK**, and the Z Axis will slowly move down towards the touch plate
- During this process, you will be able to Stop, Pause, and Resume the calibration process, in case of any error



- Once the calibration process is complete, you will be asked to confirm the results

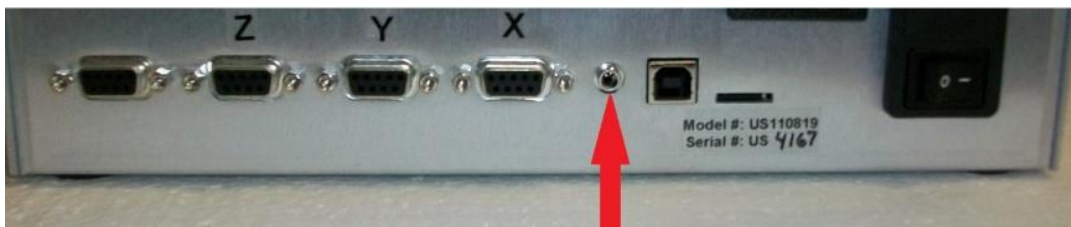


- Select **OK**, and the Pendant will go back to the main screen, with the Z Axis already set at its proper height
- You are now ready to run your file

## Section II

### Touch Plate Instructions Sharks using the (Control Panel 2.1)

- Remove the touch plate from the packaging material. Place the touch plate on the Z position of the project you are going to machine. Plug the small single cable end into the touch plate/probe port, on the controller. (This is located on the rear of the Plus, and HD controller located next to the USB port on the left side. On the Shark and Shark Pro with the 2 piece controller, the port is located on the front of the black and tan enclosure to the right of the USB port.)



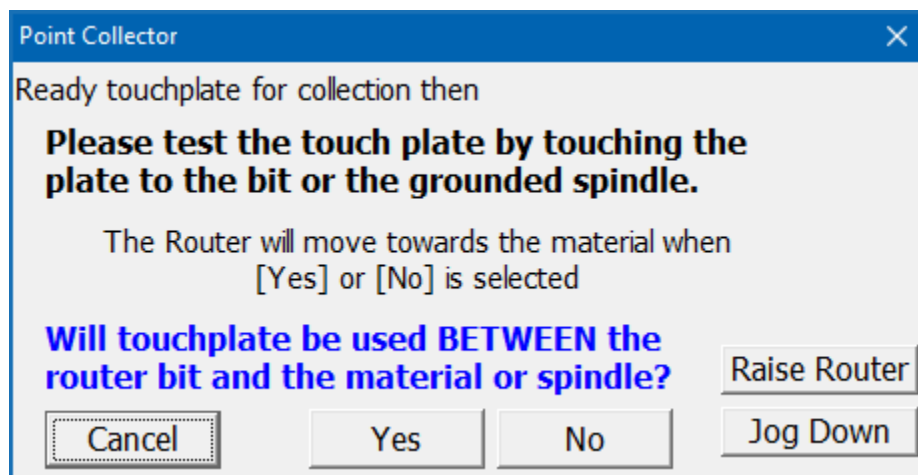
- Plug the longer banana jack plug into the touch plate. There is a receiving hole in the front of the silver plate with the logo placed facing up. Note: The touch plate zeros to the tip of a bit. Make sure the bit you will be using is properly installed in the router before proceeding.
- Attach the black magnetic cylinder and wire to the router collet. This will be held in place by the magnet.





NOTE: If you haven't done so, Register your Next Wave Touch Plate. You will need to have your touch plate's serial number when registering. Follow the instructions on Pg.3 to register your touch plate.

- Open the Shark CP 2.1 Software
- Jog your X and Y axes to their desired positions, select XYZ0 to zero all axes
- Select **Detect Touch Plate**
- You will receive this prompt



- You will then confirm that the proper touch plate connection is established. To do so, simply pick up your touch plate and tap it on the bit that is in the collet. If the connection is established, you will see **SUCCESS!** in green lettering on this prompt.
- Select **Yes**, and the Z axis will slowly begin moving down towards the touch plate
- Once the bit and touch plate make a connection, the Z Axis will move back up
- The Z Axis is now calibrated
- You are now ready to run your file

