

# Alignment: C-Stick (Side to Side)

Machine: CrystalPress-II



14140 NE 200th St.  
Woodinville, WA. 98072  
(425) 398-8282

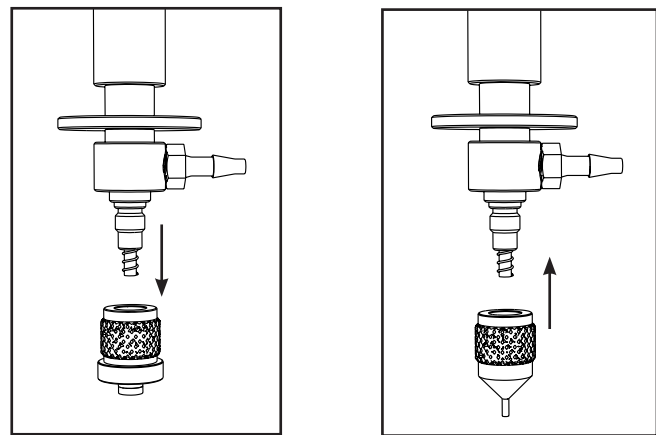
P/N: 00000R0

Alignment may be required when one or more of the following issues occurs:

- Bowl Replacement
- Frequently dropped stones
- C-Stick will not pick up a stone
- Sorter Wheel is not lined up with the C-Stick
- Sorter Wheel continuously resets
- Frequent error lights on the machine
- Carriage Replacement

## ① Initial Setup

Remove the standard tip and install the Alignment Tip on the C-Stick of the machine. Make sure the smallest wheel you have is installed in the bowls (6ss wheel is preferred).

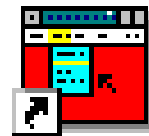


## ② Power the CrystalPress up and wait for the green LED on the keypad.



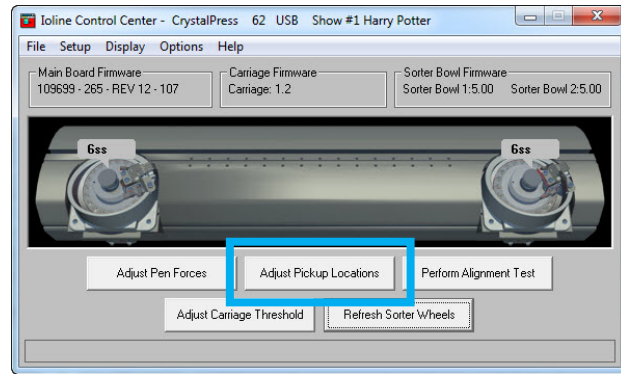
## ③ Open Ioline Control Center:

Double-Click on the **Ioline Control Center** icon. This should be located on your desktop, or in Start > All Programs > Ioline.

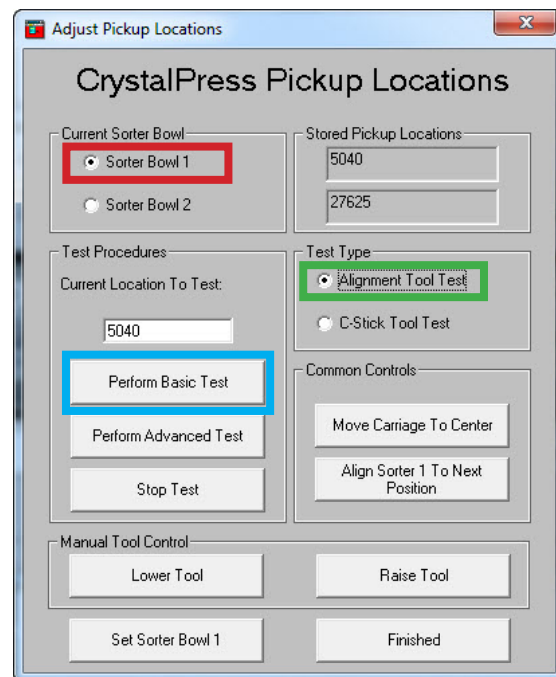


Ioline Control  
Center

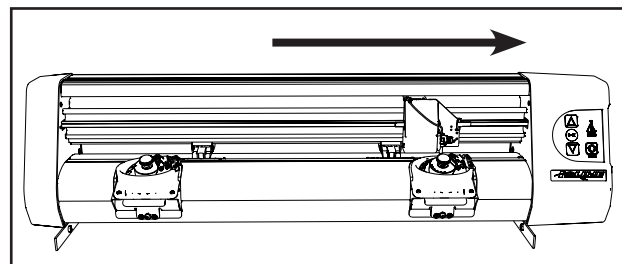
- 4 Ioline Control Center Options:**  
 Once the Control Center is open click on the **Adjust Pickup Locations** button.



- 5 Performing the test:**  
 Once the **Adjust Pickup Locations** window is open make sure the **Alignment Tool Test** button is checked. Under the **Current Sorter Bowl** section, check the bowl number you want to test. Make sure nothing is obstructing the carriage including hands or face and click the **Perform Basic Test** button.

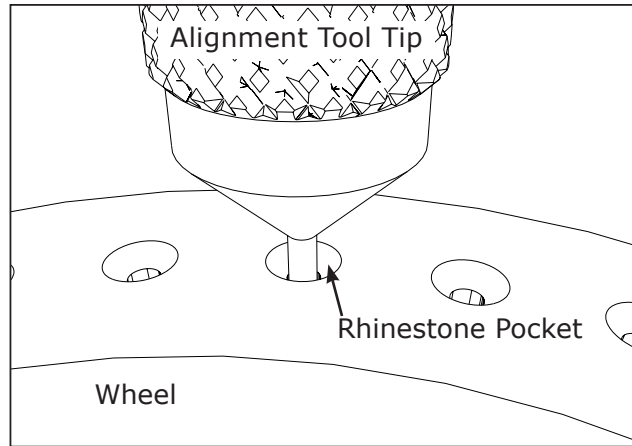


- 6 Performing the test:**  
 The carriage on the machine will move quickly from the left endplate to the sorter bowl. When the carriage stops at the bowl the Alignment Tool will lower automatically into the hole on the wheel. If the alignment is off, the tool will not go down in the hole.



**7 Checking Alignment**

Press down on the C-Stick thumbscrew to check the alignment with the hole in the wheel. If the pin does not go down in the hole, take note of which direction it needs to go to be lined up.



**8 Alignment Adjustment**

After determining which direction the C-Stick has to go to line up with the hole in the wheel, use this guide to determine the alignment numbers.

Mils to Inches:

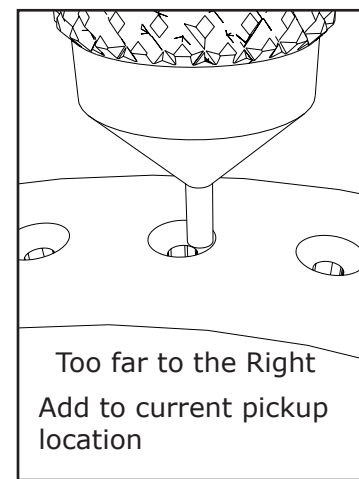
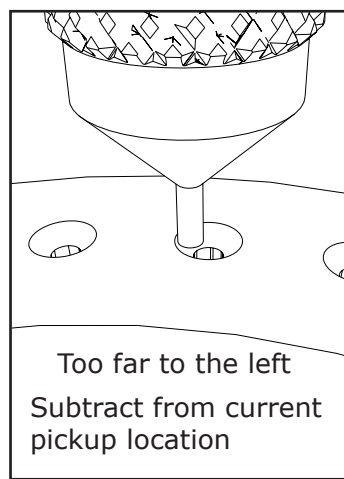
15 mils = 1/64" (.3969mm)

31 mils = 1/32" (.7937mm)

62 mils = 1/16" (1.587mm)

125 mils = 1/8" (3.175mm)

250 mils = 1/4" (6.350mm)



Example:

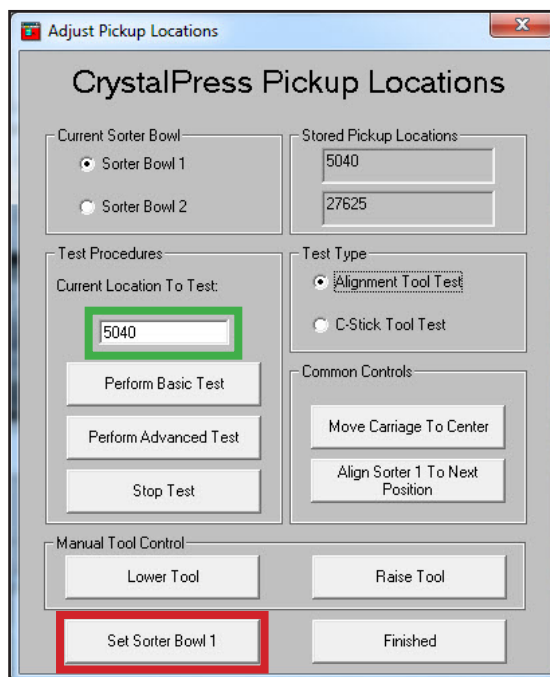
Bowl #1 has a pickup location of 5125 but the alignment tip is about 1/16" to the right of the hole in the wheel. To align it you would change the number in the Pickup location window for Bowl #1 to 5187.

**9 Setting the alignment**

Type the new number into the **Current Location to Test** field. Then click the **Set Sorter Bowl** button to send the value to the machine.

Continue from step 5 as needed until the alignment tip goes down inside the hole without touching the sides of the hole. If the tip is off front and back, follow the steps on the next page:

**Alignment: Bowl (Front to Back)**



If problems arise contact Ioline Customer Support for help.

# Alignment: Bowl (Front to Back)

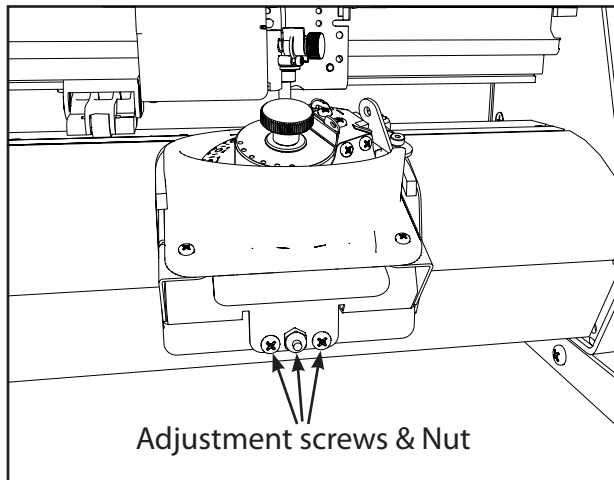
Machine: CrystalPress-II

P/N: 00000R0

## 10 Adjusting the Bowls (X axis):

Locate the adjustment screws on the front of the CrystalPress bowls.

Loosen the two screws on either side of the nut.



Turning the front sorter bowl nut the following amounts will result in these X-axis bowl movements:

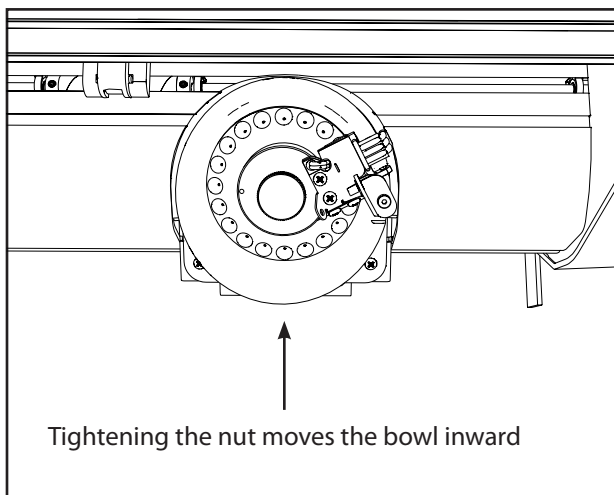
- 1/4 turn = .008"
- 1/2 turn = .016"
- 1 turn = .032"

If the alignment tip looks like this:

View looking from the right side of the bowl

← Front of machine

Tighten the nut on the front of the bowl a little. This will move the bowl "Inward".



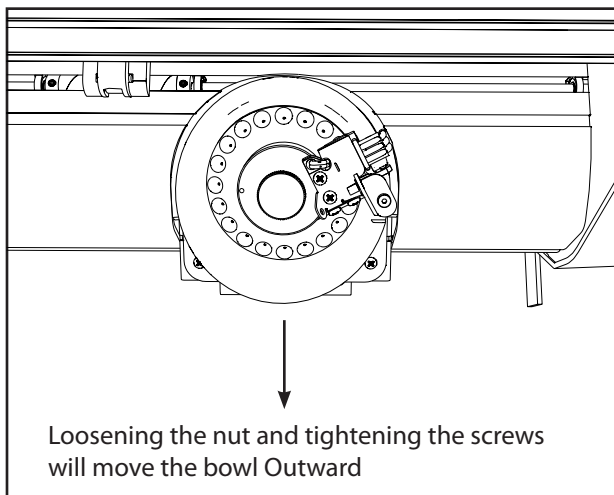
Once done go back to Step 5 and repeat the test and adjustment until the tip is centered on the wheel pocket.

If the alignment tip looks like this:

View looking from the right side of the bowl

← Front of machine

Loosen the nut on the front of the bowl a little. Tighten the screws to move the bowl outward.



Once done go back to Step 5 and repeat the test and adjustment until the tip is centered on the wheel pocket.

Note: Due to tolerances it might be necessary to adjust the Y axis again once the X axis is set.

## 11

Once the tip is centered on the wheel pocket, tighten the two Phillips screws on either side of the adjustment nut with medium force. Re-test the alignment as needed. **CAUTION: Do Not overtighten the screws as damage can occur to the bowl assemblies.**

If problems arise or you need further assistance contact Ioline Tech Support at (425) 398-8282