

C-Stick Alignment

For: Ioline CrystalPress

IOLINE™
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(425) 398-8282

Alignment is required when one or more of the following issues occurs on a regular basis;

- 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

1 Power On:

Make sure the CrystalPress is plugged in to the communication port and powered on with a green LED on the keypad. Also, make sure you have the wheels loaded in the machine and stones in the bowl.

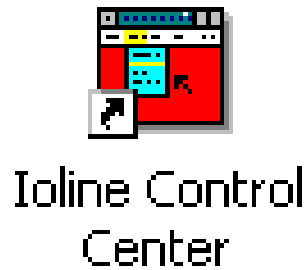


Carriage and/or bowl alignment might or might not improve these symptoms. Contact Ioline Tech Support if you still have issues.

Note: The best stones to use are ss6 or ss10 rhinestones. It is not necessary to have a transfer sheet in the machine.

2 Open Ioline Control Center:

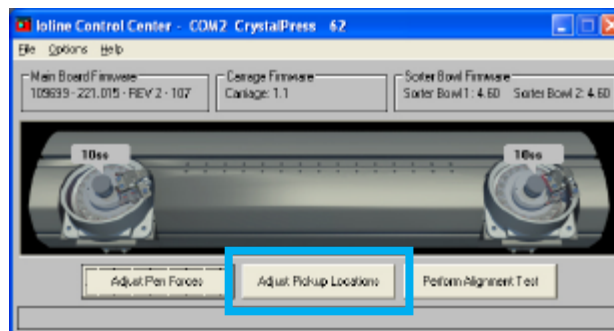
Double-Click on the **Ioline Control Center** icon. This should be located on your desktop, or in Start > All Programs > Ioline.



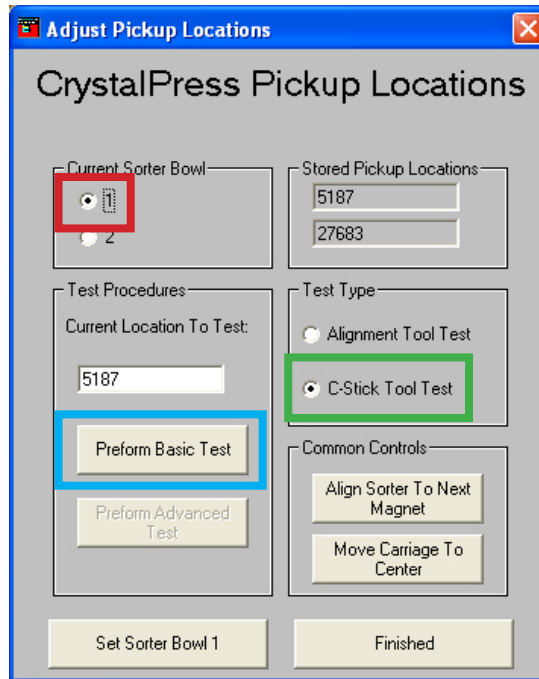
Note: You must have Ioline Control Center version 12.3 or higher to use this procedure. If your version is older go to <http://www.ioline.com/support> to download the current version.

3 Ioline Control Center Options:

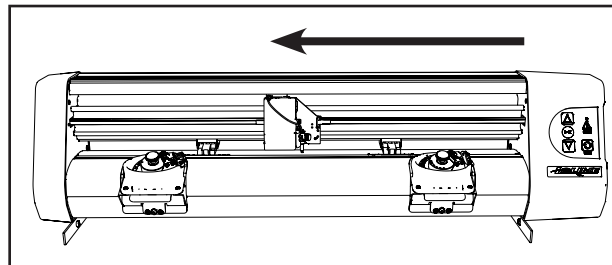
Once the Control Center is open click on the **Adjust Pickup Locations** button.



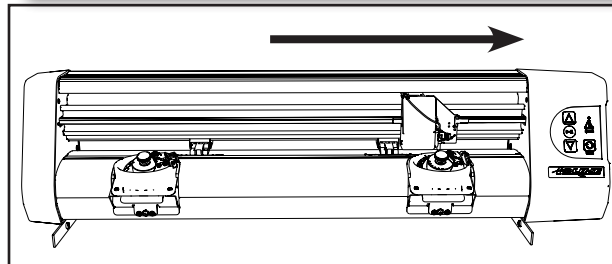
- ④ **Performing the test:**
 Once the **Adjust Pickup Locations** window is open make sure the **C-Stick Tool Test** button is checked. Under the **Current Sorter Bowl** section, check the bowl number you want to test. Make sure nothing is obstructing the carriage including hands or face and click the **Perform Basic Test** button.



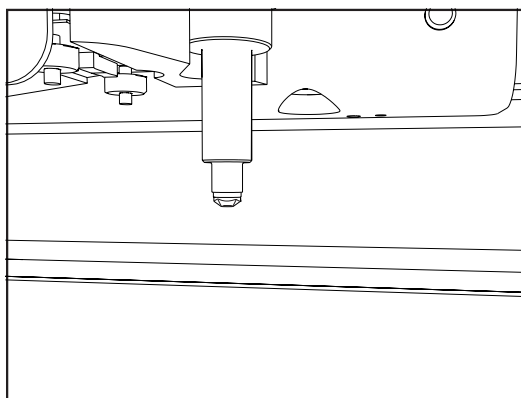
- ⑤ **Performing the test:**
 The head on the machine will move quickly from the bowl to the middle of the machine...



...then back to the bowl.



- ⑥ **Pick Up:**
 Once the head moves to the pickup location Press down manually on the tool to pick up a stone.

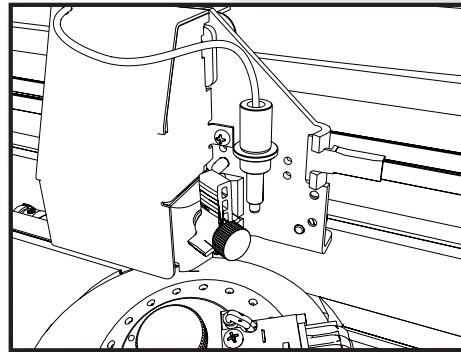
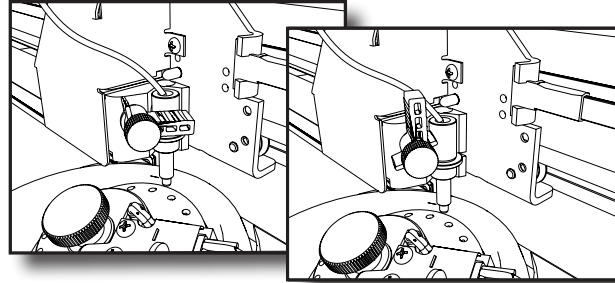


Note: If there is not a stone in the pickup location you can open and close the wiper arm clamp to force the wheel to turn. Once there is a stone in the pickup location perform the test again.

Removing the C-Stick:

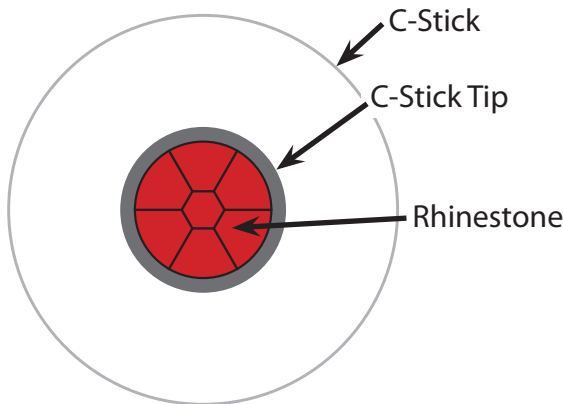
- 7 Once the stone is on the tip of the C-Stick, loosen the Thumb-screw on the carriage and rotate the clamp to the vertical position. Carefully remove the C-Stick from the carriage by holding the black cable where it meets the top of the C-Stick to keep it straight when removing the tool.

Note: Make sure the tool remains vertical and is not rotated when removing.



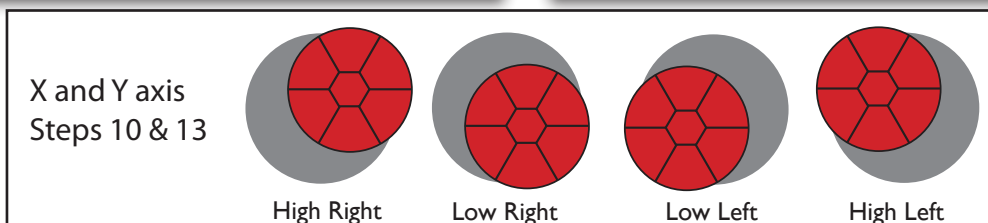
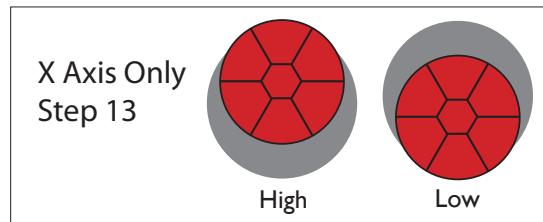
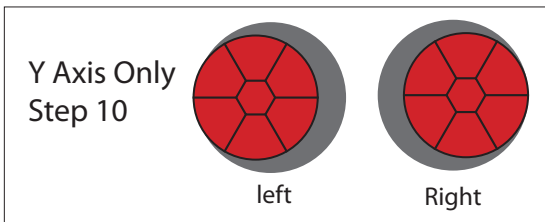
Rotating the C-Stick:

- 8 Slowly rotate the tip of the C-Stick toward the front of the machine so you can see the tip with the stone on it. Use a magnifying glass if necessary to look at the stone.

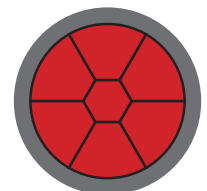


Looking at the Stone:

- 9 Look closely at the stone as it sits on the tip of the C-Stick. If the tool is aligned perfectly it should be directly in the middle of the tip. Too high or low, too far to the right or left on the tip will result in frequent dropped stones. Remember which way the stone is (or write it down to remember) and place the C-Stick back in the machine. Make sure you tighten the thumbscrew.



Optimal placement of the stone on the C-Stick is directly in the center of the tip.

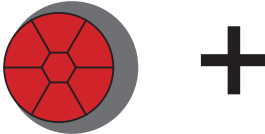


Side to Side adjustment

- 10 Adjust the carriage (Y axis):**
 Go back to the Ioline Control Center **Adjust Pickup Locations** window.

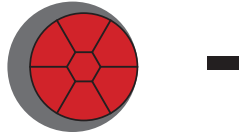
In the **Test Procedures / Current Location to Test** section you will type a new number in this field.

If the stone looked like this the carriage has to move to the left



Raise the number by 5
 (example: If 5187 is the current number, type 5192)

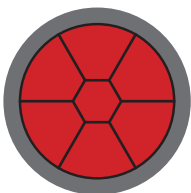
If it looked like this the carriage has to move to the right



Lower the number by 5
 (example: If 5187 is the current number, type 5182)

- 11 Setting the location:**
 Click the **Set Sorter Bowl x** button to set the new value.

- 12 Testing the new location:**
 Click the **Perform Basic Test** button to test the new pickup location. Go back to step 5 and follow the procedure again. Repeat this until the stone looks centered side to side.



Align the second bowl with this procedure starting from Step 4.

Adjust Pickup Locations

CrystalPress Pickup Locations

Current Sorter Bowl: 1, 2

Stored Pickup Locations: 5187, 27683

Test Procedures: Current Location To Test: 5187

Test Type: Alignment Tool Test, C-Stick Tool Test

Common Controls: Align Sorter To Next Magnet, Move Carriage To Center

Buttons: Preform Basic Test, Preform Advanced Test, Set Sorter Bowl 1, Finished

Adjust Pickup Locations

CrystalPress Pickup Locations

Current Sorter Bowl: 1, 2

Stored Pickup Locations: 5187, 27683

Test Procedures: Current Location To Test: 5187

Test Type: Alignment Tool Test, C-Stick Tool Test

Common Controls: Align Sorter To Next Magnet, Move Carriage To Center

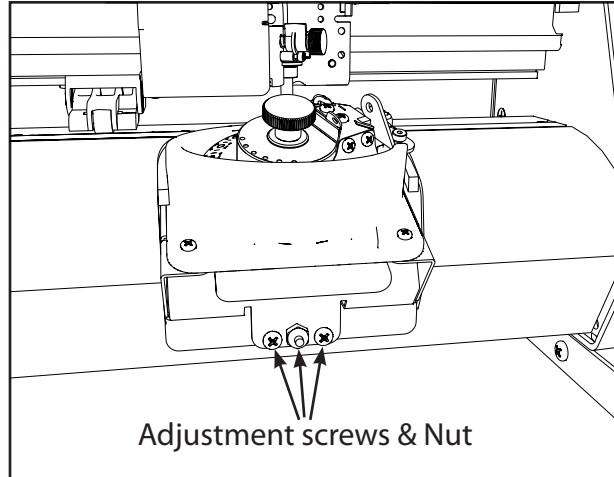
Buttons: Preform Basic Test, Preform Advanced Test, Set Sorter Bowl 1, Finished

Front to Back adjustment

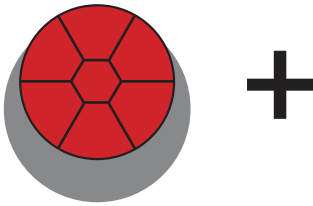
13 Adjusting the Bowls (X axis):

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

Loosen the two screws on either side of the nut.

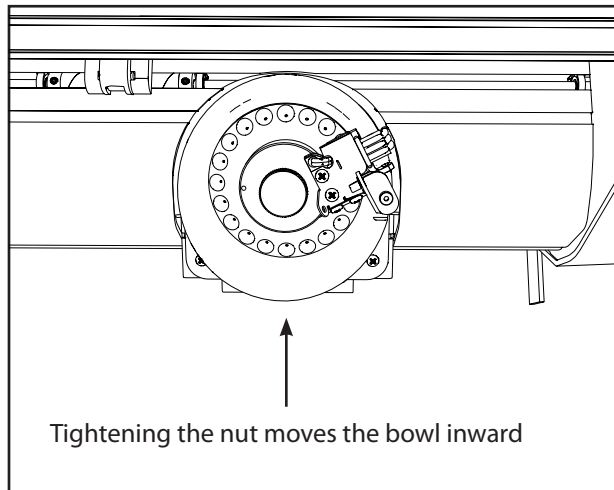


If the stone looked like this:

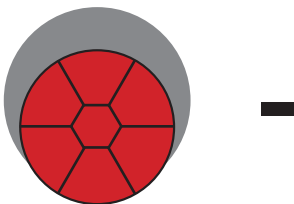


Tighten the nut on the front of the bowl a little. This will move the bowl "Inward".

Once done go back to Step 4 and repeat the test and adjustment until the stone is centered on the tool tip.

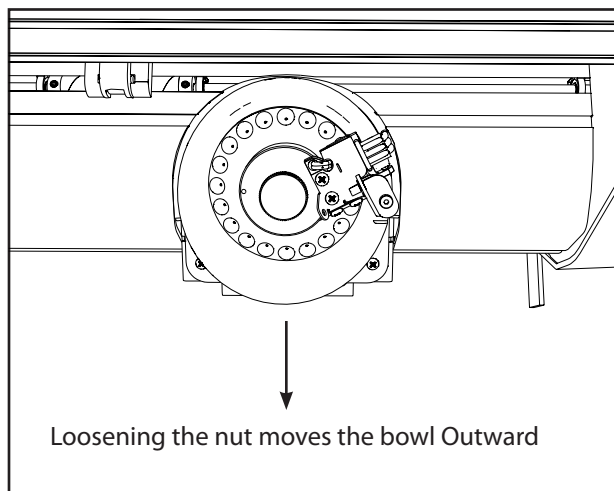


If the stone looked like this:



Loosen the nut on the front of the bowl a little. This will move the bowl "Outward".

Once done go back to Step 4 and repeat the test and adjustment until the stone is centered on the tool tip.



- 14 Once the stone is centered on the tip of the C-Stick, 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.**

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

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