

# Install Main PCB Assy CPlI. Product P/N 110694-90



Procedure P/N 110912 REV 0

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**Tools required: Phillips screwdriver and a grounding wrist strap.**



Step 1: Turn off and un-plug the machine.



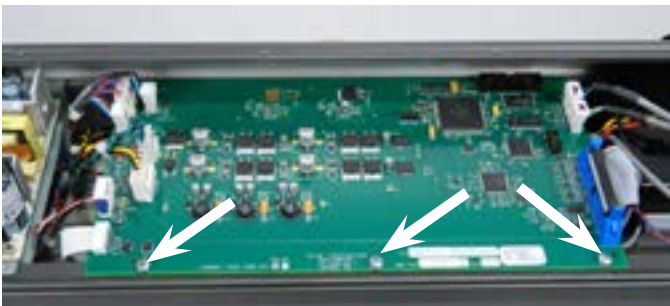
Step 2: Push the pinch wheel arm down before you turn over the machine. You will need some type of support to stabilize the up-side down machine in step 3.



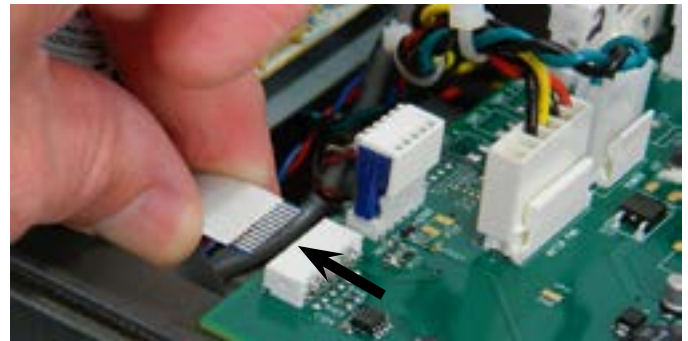
Step 3: Remove all 7 screws from the bottom pan and place aside.



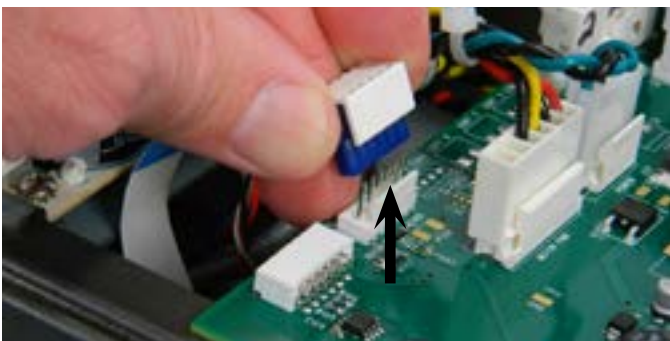
Step 4: **IMPORTANT: The wrist strap is needed when handling all electronics. The blue elastic band goes around the wrist, the metal clip is attached to a NON-painted piece of metal on the machine itself.**



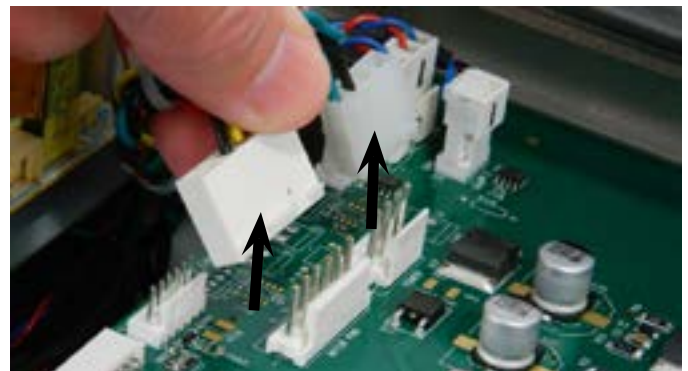
Step 5: The old board needs to have all 11 connectors removed from the pin receptors before removing the 3 screws (arrows) that hold the board to the platen. **NOTE: The order in which the plugs are removed is not important.**



Step 6: Pull the carriage ribbon cable straight out.

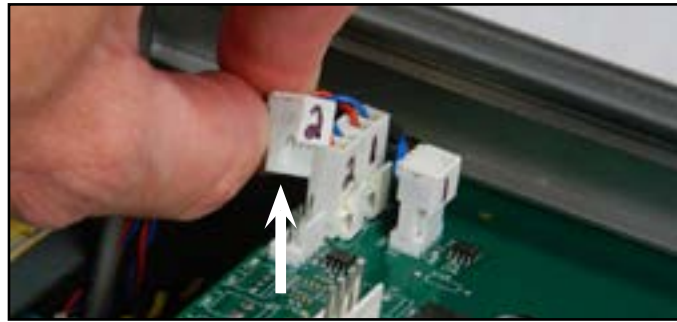


Step 7: Pull the 'Sensor Out' clip straight up until it clears the pins.

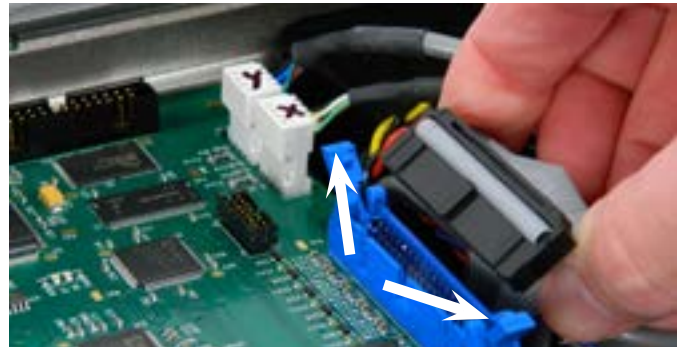


Step 8: Pull the 'Motor Power' and 'Power' connectors straight up until it clears the pins.





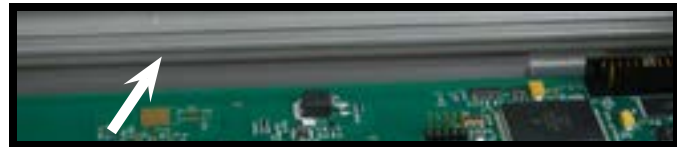
**NOTE: Numbering each sorter bowl connectors (1,1 and 2,2) before removing them, helps when re-attaching to the correct pins later.**  
 Step 9: Pull the Sorter bowl clips (all 4) straight up until they clear the pins.



Step 11: Move the 2 small tabs out as shown (arrows), then pull the ribbon cable straight up.



Step 13: Remove the (3) screws and slide the old board out and place to the side. You can use the anti static bag from the new board later.



Step 15: The top photo shows the slot in which the new board should slide into. The bottom photo shows the board in that slot.



Step 10: All connectors and carriage ribbon on the left side of the board are disconnected.



**NOTE: Writing the letters X and Y on the connectors helps when re-attaching to the X and Y axis.**

Step 12: Pull the X and Y connectors straight up until they clear the pins.



Step 14: Remove the new board. **NOTE: Wrist strap is extremely important when handling the main board and any other electronics.**

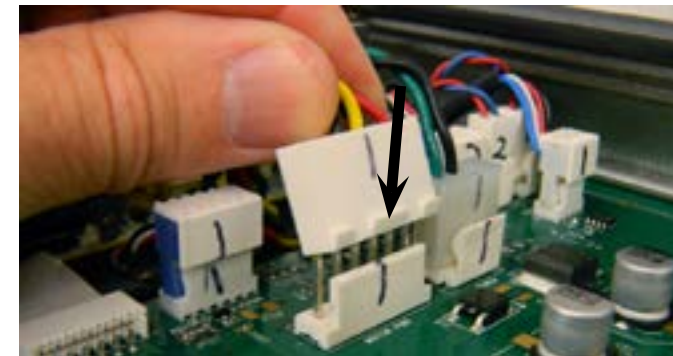


Step 16: Slide the main board into the slot in the back of the platen. The screw holes in the board align with the screw holes in the platen.

**IMPORTANT: When re-attaching all the connectors, it is vital that each connector cover all the pins on the board.**



Step 17: The board is correctly placed in the platen.



Step 19: A close up of the clips on the correct orientation. The **locking** ridge (arrow) is facing the center of the board. (See step 21 below)



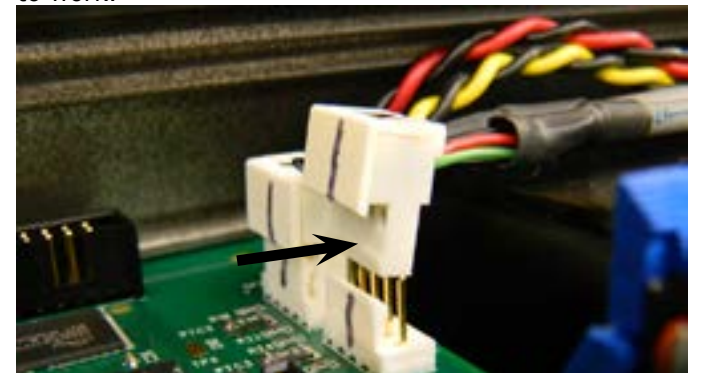
Step 21: Plug in the 'Motor Power' and the 'Power' connectors to the 'Motor Power' and 'Power' pins. **NOTE: The connectors must be oriented in the correct way and pressed all the way down.**



Step 23: Insert the carriage ribbon cable (silver color up) into the carriage receptor. **NOTE: Push the cable all the way in.**



Step 18: Install the 3 screws before attaching the connectors. This will give you a stable board in which to work.



Step 20: A close up of the clips on the correct orientation. The **locking** ridge (arrow) is facing the center of the board. (See step 26)



Step 22: Plug in the sensor connector to the sensor receptor pins. Push all the way down.



Step 24: Plug in the (2) sorter bowl and (2) sorter communication connectors to the corresponding pin receptors on the board.





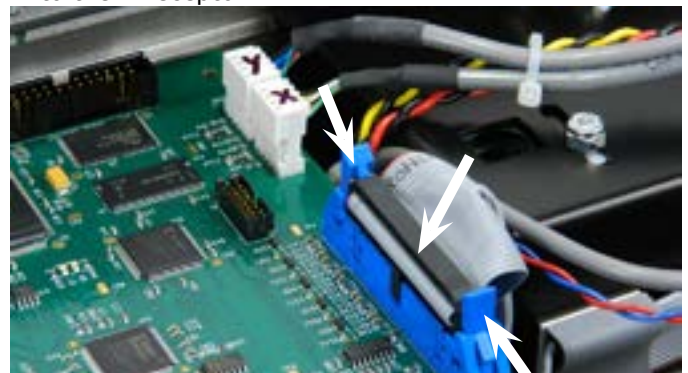
Step 25: All the connectors and the carriage ribbon cable are plugged in the new board correctly.



Step 26: The Y connector is already plugged in to the correct receptor (Y). The X connector is being plugged in to the X receptor.



Step 27: The ribbon communication cable is being plugged in its receptor. This can only be plugged in when the blue locking (arrows) arms are in the open position.



Step 28: Press the ribbon cable all the way down. Once the cable is in, complete the process by squeezing the arms together until you hear an audible 'clicking' sound. This locks in the communication cable.



Step 29: The main PCB board is ready to test



Step 30: Turn the CII on its legs, **(without the bottom pan)**, plug in the power cord, and turn on. The carriage will move to the right then back to the left, both sorter bowls will have the LED's blink and the wheels will rotate, then a red light followed by a green light on the keypad will show. You have successfully installed the main board.



Step 31: Turn off and un-plug. Turn the CII back on its top, then place the bottom pan back on and attach with the 7 screws and tighten securely. **...FINISHED**