

Replacing a Ribbon Cable on the CrystalPress-II

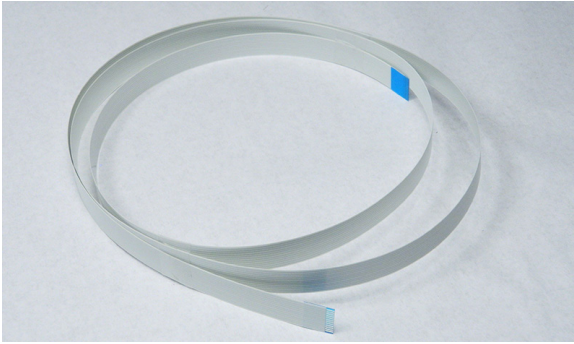
Product P/N 105259 in 111295 Kit

Procedure P/N 111253 REV 0



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Tools needed: grounding wrist strap, Phillips screwdriver, wire cutter, 9/64" allen wrench, and [optional] masking double stick tape



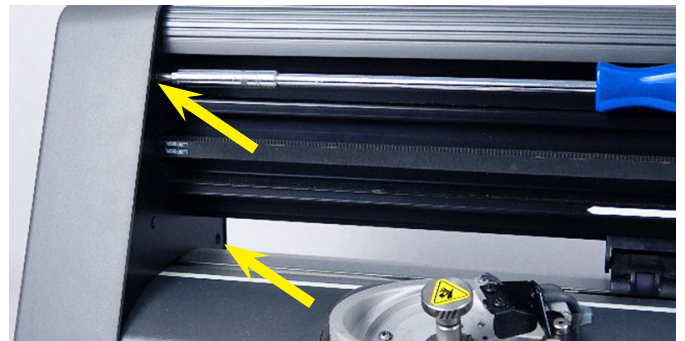
Step 1: This is the new ribbon cable that you will replace for your CrystalPress.



Step 2: Turn off your CrystalPress and remove both the power cord and the communication cable.

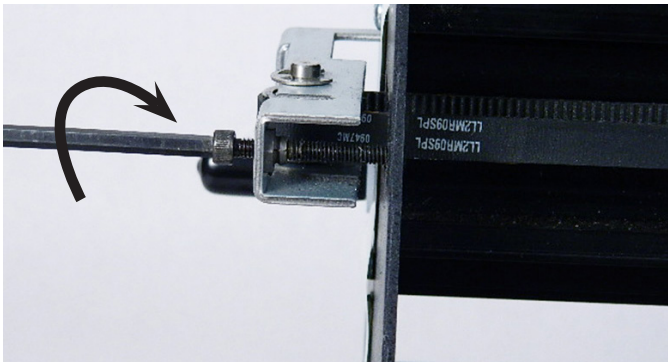


Step 3: You will need access to the old ribbon cable. Tilt your CrystalPress on the side and remove the bottom pan by unscrewing the 7 screws. Place the pan to the side. Tilt the CrystalPress back on its feet.

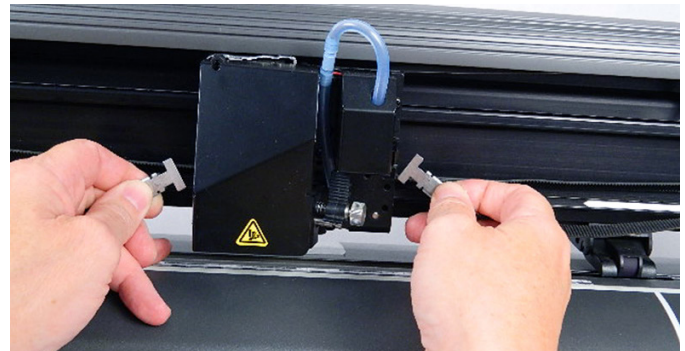


Step 4: Remove the left end cover. 2 screws hold this on (arrows).

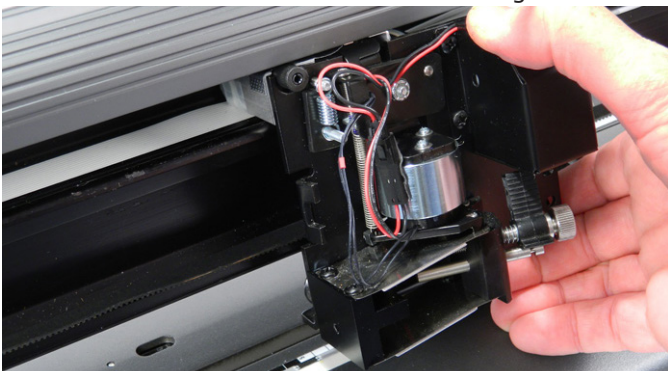
NOTE: Wrist strap is needed at this point.



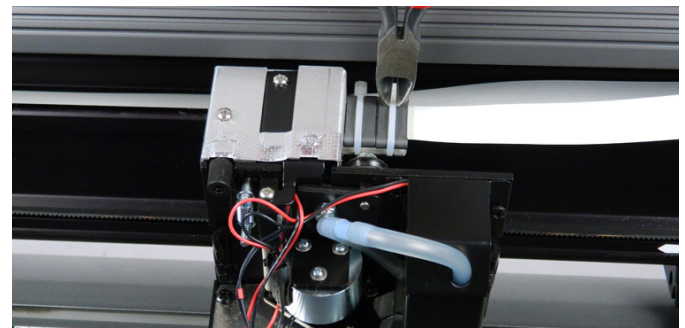
Step 5: With the tensioner exposed, using the 9/64" allen wrench, turn 2 full turns counter clockwise to loosen the Y belt for removal of the carriage.



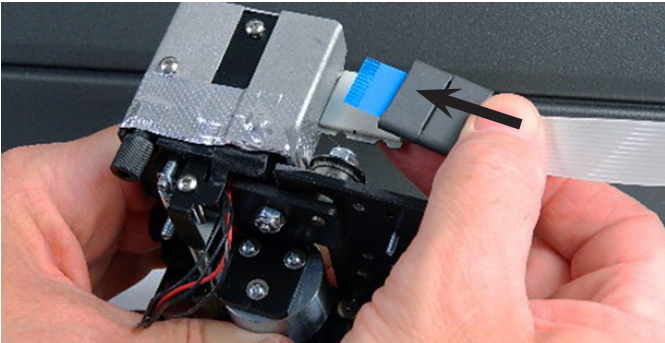
Step 6: With the Y belt loosened, remove the belt from the carriage as shown.



Step 7: To remove the carriage, press down at the top (spring loaded) and then pull out from the bottom.



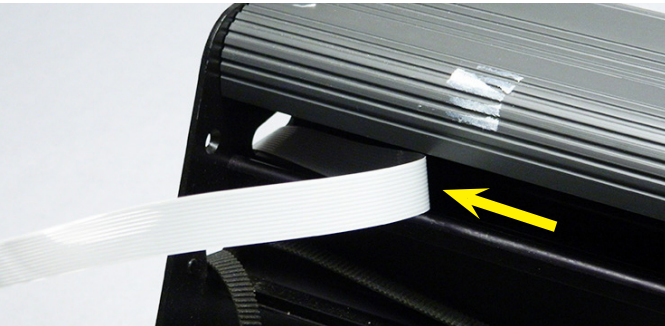
Step 8: When the carriage is free from the traverse, using the wire cutters, cut the 2 white nylon ties and discard. **NOTE: You will need 2 new ties later. You can use masking tape if you do not have the ties.**



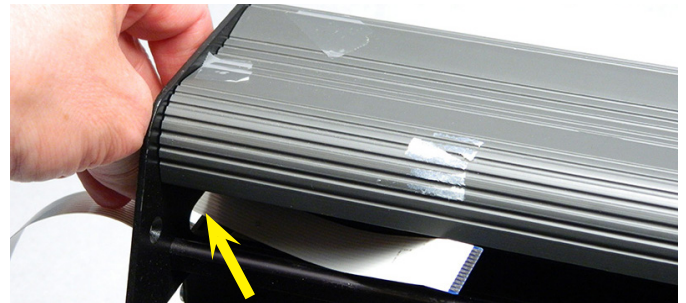
Step 9: Pull the ribbon cable free from the carriage board as shown. Remove the 2 ferrites by sliding them off the old ribbon cable (arrow shows direction). Place both ferrites to the side. You will use them again later.



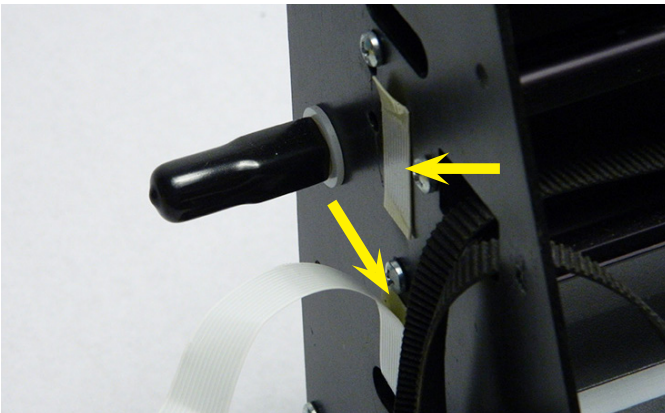
Step 10: Place the carriage on the table and pull the ribbon cable free from the 2 strips of tape that hold this ribbon cable to the inside of the traverse. The tape should stay attached to the traverse. You should be able to re-use those strips of tape for the new ribbon cable. **NOTE: If the tape pulls up with the old cable, use double stick tape for the new cable.**



Step 11: This shows the area of the 2nd piece of tape (arrow) that holds the old ribbon cable. Just pull the ribbon cable slowly but firmly until it releases.



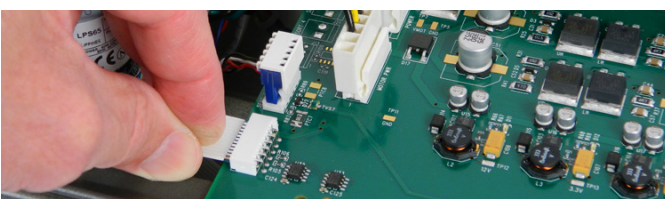
Step 12: When the ribbon cable is free from the 2 strips of tape, pull it out from the top notch on the side of the platen as shown (arrow).



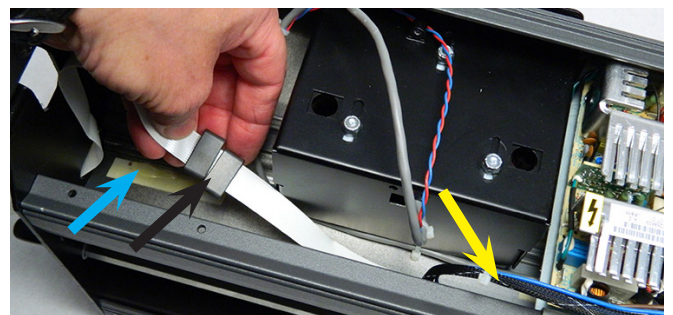
Step 13: Pull the old ribbon cable away from the 2 strips of tape on the side of the end plate (yellow arrows). You can leave the tape on the end plate and re-use it. You can now turn the CrystalPress on its top, (step 14).



Step 14: **NOTE: Will need to be supported so the CPIO does NOT roll back.** The CrystalPress on its top (shown). This will give you access to the ribbon cable and main board.



Step 15: Pull the end of the ribbon cable out from the carriage receptor as shown. You will need to pull the cable up and away from the tape that holds this end of the ribbon cable to the inside of the platen. The tape should still be attached to the metal platen.



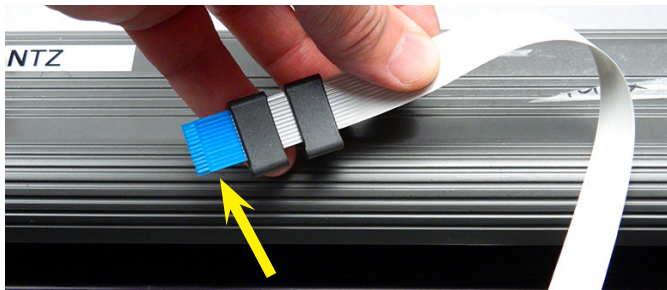
Step 16: You will need to release this section of the ribbon cable from a 2nd piece of tape (yellow arrow). Pull up as before. The (black arrow) points to the 2 ferrites that remain on the tape shown (blue arrow). See step 17.



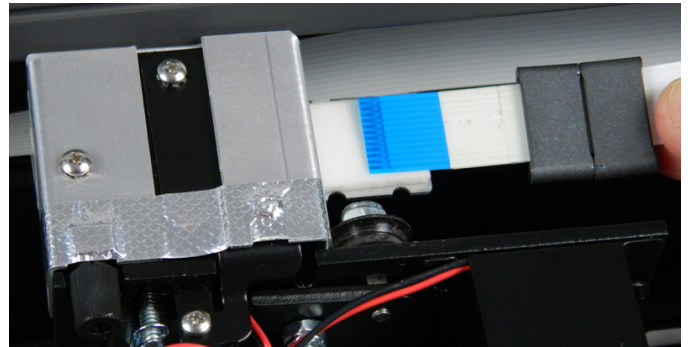
Step 17: This shows the old ribbon cable ready to pull out from the still attached ferrites. The arrow points in the direction in which the ribbon cable is pulled free from the CrystalPress.



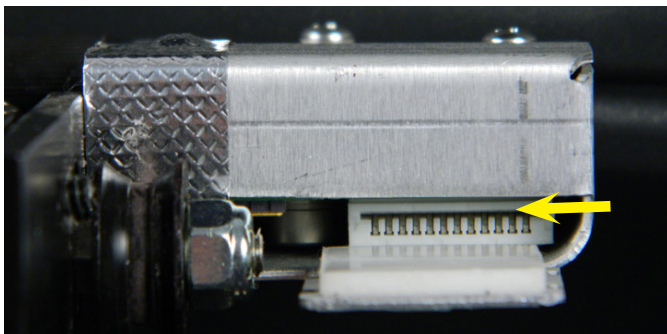
Step 18: This shows the old ribbon cable has been fully removed. The 2 ferrites remain where they are, still attached to the piece of tape. **NOTE: The new ribbon cable will slide through the ferrites (step 29).**



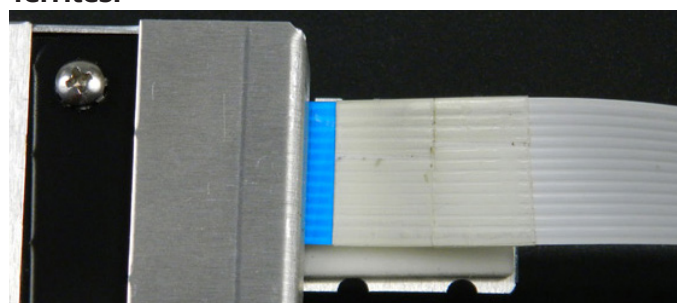
Step 19: **With the new ribbon cable in hand**, you will see the 2 ferrites that **MUST** be attached at the carriage board end. **IMPORTANT: The blue end (arrow) should be facing in the up direction as shown.**



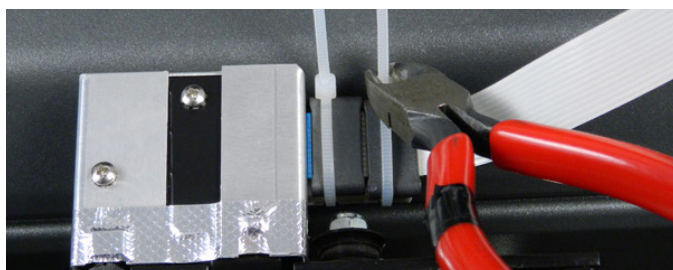
Step 20: The new ribbon cable is ready to be inserted into the carriage board. **NOTE: Blue end is facing up and the ribbon cable will slide into both of the ferrites.**



Step 21: The (yellow arrow) shows where the end of the ribbon cable must be **fully** inserted.



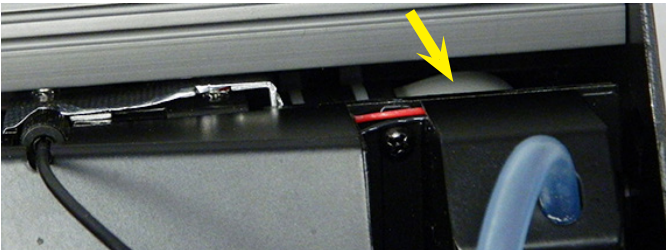
Step 22: From a top view, this shows how much of the blue tip shows after it has been fully and correctly inserted. **NOTE: Not seen are the 2 ferrites. They are out of the photograph at this time. They can now be moved to the left.**



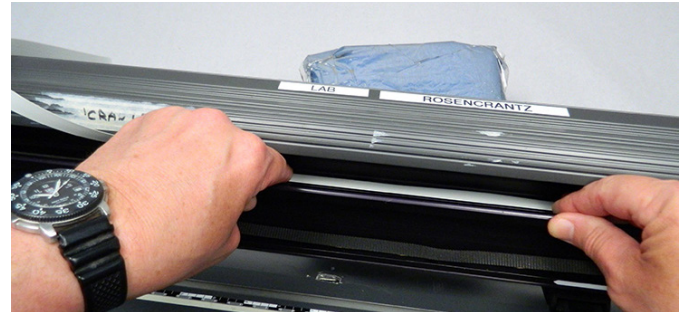
Step 23: This shows the 2 ferrites slid to the left as far as they can go. You now need to place the 2 white tie wraps around the ferrites. **NOTE: They are placed in the grooves on the metal plate seen in step 22. This will prevent the wraps from moving once tightened. Cut the excess as shown. Masking tape will work if you do not have the wraps.**



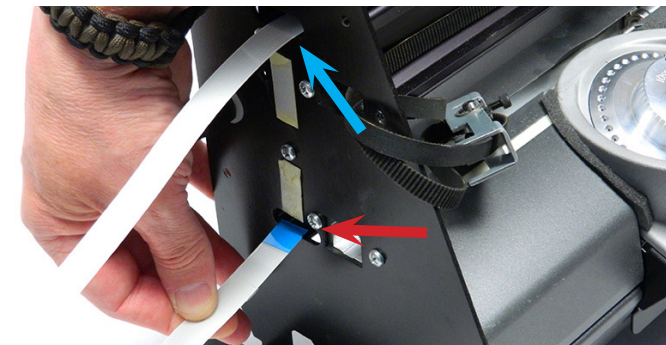
Step 24: After attaching the new ribbon cable to the carriage, place the carriage back on the traverse. **NOTE: All (3) wheels should be on the traverse and the carriage should slide smoothly.**



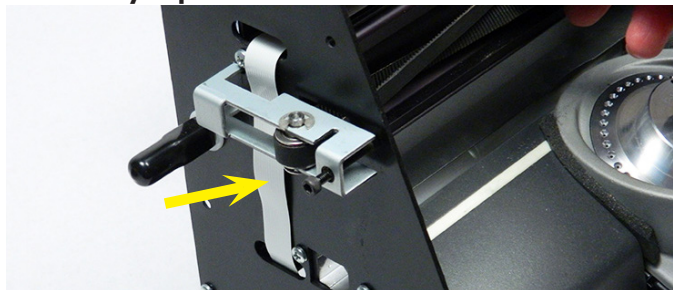
Step 25: After you have attached the carriage to the traverse, slide it all the way to the right until the carriage touches the right end plate as shown. **IMPORTANT: The arrow points to the amount of ribbon cable that you should allow for slack. If there is no slack, the carriage would come up short in the travel and jam.**



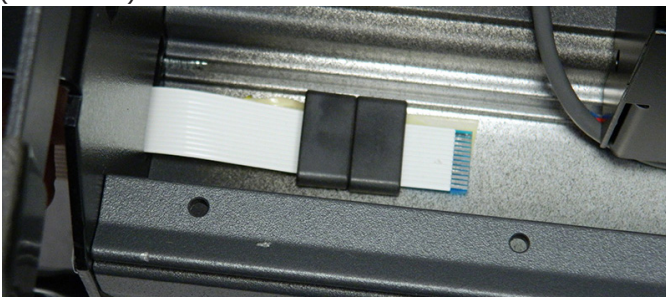
Step 26: With the carriage over to the far right, the ribbon cable should be pressed out in the traverse as shown. The tape should still be on the inside of the traverse. The ribbon cable should be adhered to that tape. Now with the left hand, slide the cable to the left. **NOTE: If the tape pulls off with the old cable, use sticky tape to adhere.**



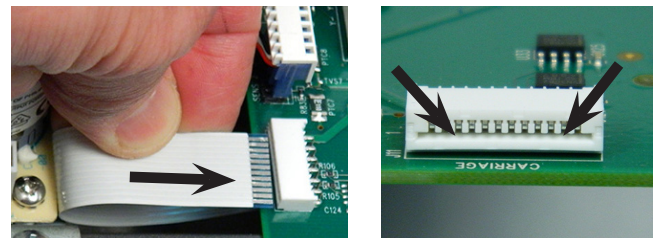
Step 27: With the other end of the cable, slide it into the top slot (blue arrow) then back in the bottom slot (red arrow).



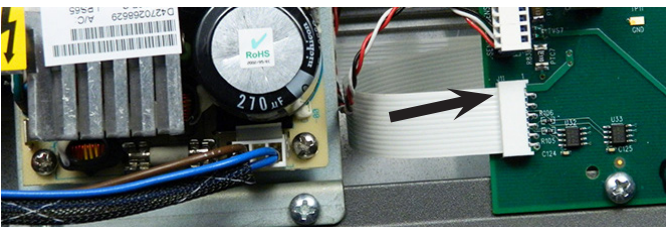
Step 28: Press the cable flat (yellow arrow) against the end plate as shown. The cable will adhere to the tape. Before turning back over, attach the Y belt to the carriage as seen in (step 6). Now you can re-tighten the tensioner 2 full turns clockwise (opposite of step 5). You can now turn the CrystalPress over on its top.



Step 29: With the CrystalPress turned over, slide the cable through both ferrites as shown. The ferrites should adhere to the tape that is still on the platen. The cable can now be pulled along the bottom of the platen, and go the power supplies. This takes a little patience.



Step 30: Once the cable appears beyond the power supplies, reach down and grab the end of the cable and insert it in the carriage connector. **IMPORTANT: The end of the cable (arrow) needs to be pressed all the in the carriage connector (black arrow). (step 31). NOTE: The cable NEEDS to be inserted in the slot pointed at by the 2 arrows.**



Step 31: This is how the cable should appear when properly connected. You do NOT see any silver/blue metal wires. **NOTE: DO NOT PLACE THE CABLE UNDERNEATH THE WHITE CLIP (SEE STEP's 21 and 30)** Replace the bottom pan cover with the seven screws, turn back over, and resume printing.

...FINISHED.