

# Repacement of the small Y motor.

Product P/N 111114

Procedure P/N // // // // REV 0



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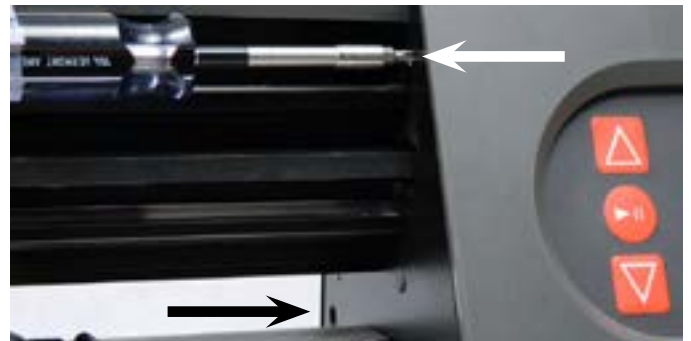
Step 1: Tools needed: 1/16" Allen Hex (L shaped or straight with handle) and a Phillips screwdriver.



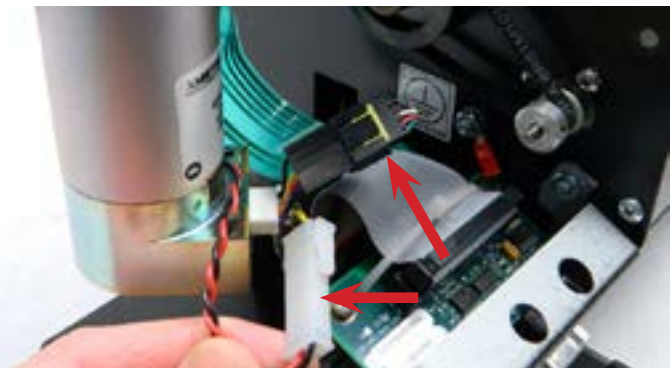
Step 2: Turn off the power and unplug the power cord and the communication cable.



Step 3: Tilt the CPII on its back and remove the silver screw (arrow). Tilt back back on its feet.



Step 4: Remove both screws from the right cover (arrows). You can now remove the cover and place aside. This will expose the Y motor.



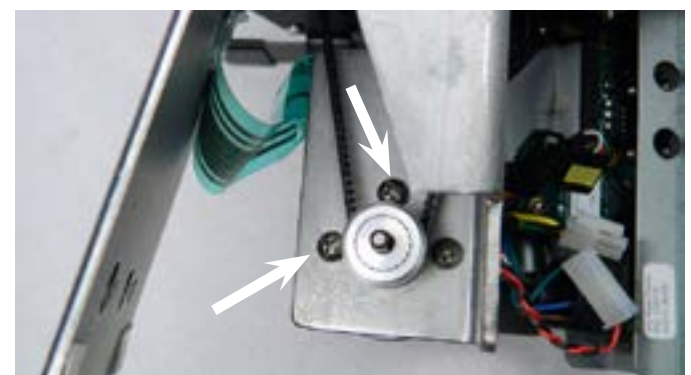
Step 5: Seperate both the power (white) and the communication clip (Black) from the Y motor.



Step 6: Both clips shown separated.



Step 7: With the 1/16" Allen Hex wrench, unscrew (counter clockwise) both of the set screws on the pulley. **NOTE: Do NOT unscrew all the way. Just 1 full turn on each set screw should suffice.**



Step 8: With the pulley still attached to the shaft of the motor, remove fully, 2 of the 3 screws that hold the Y motor to the bracket.



Step 9: While holding the motor with one hand, go ahead and remove the 3rd screw from the motor.



Step 11: The new Y motor that you will place in the transmission bracket.



Step 13: While holding new motor with one hand, slide the pulley (with the Y belt wrapped around the teeth of the pulley) down onto the shaft.



Step 15: With the Y motor placed up tight against the bracket (arrow), screw in in the 3 black screws. Tighten the screws so the motor does not move up or down. **NOTE: You will fully tighten the 3 screws later.**



Step 10: You are now able to pull the motor down while leaving the pulley on the top of the bracket as shown.



Step 12: A close up of the shaft that the pulley will slide over. **NOTICE the flat side of the shaft. 1 of the set screws will be tightened against this side.**



Step 14: With the pulley placed down onto the shaft as shown, slightly tighten the set screw that is on the flat side of the shaft. This will be enough to hold the pulley to the shaft of the motor. It will NOT slip through in hole in the bracket



Step 16: This shows the 3 screws that you tightened.



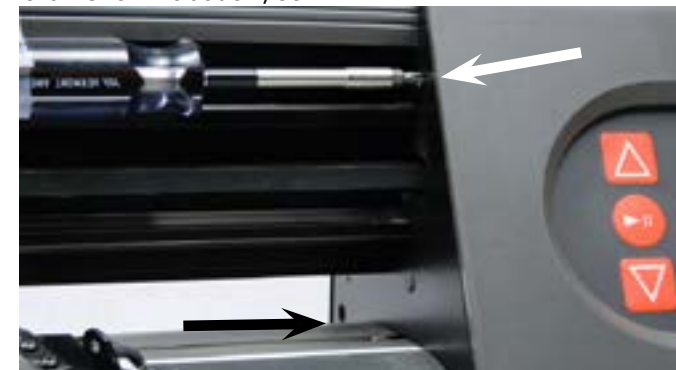
Step 17: To get the correct distance that the pulley needs to be from the bracket, a nickel can be used as shown. **NOTE: The 3 screws are tightened to the point in which the motor is up against the bracket. NOTE: The spacing is .090 (2.3 metric). The nickle can be used to get a close proximity.**



Step 19: Turn the shaft and tighten the 2nd set screw (clockwise). You can now remove the nickel.



Step 21: To double check the tension of the belt, press against the belt as shown. It should press in no more than shown about 1/8th".



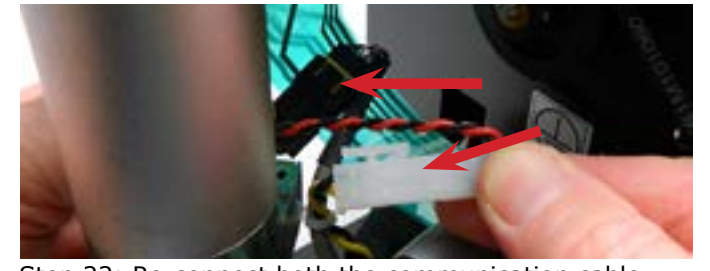
Step 23: Place the cover back on with the 2 black screws, Lean the CPII on its back and place the silver screw back in. Shown on step # 3.



Step 18: With the 2 set screw loosened, press down on the pulley until it presses against the nickel. This will give the the correct distance. You can now tighten the set screw (clockwise) that lies against the flat of the shaft.



Step 20: The 3 screws are not tightened all the way at this time. With your free hand you need to pull the Y motor tight. Your 4 fingers wrapped around the motor, and thumb pressed against the bracket edge, begin to pull tight. This will cause the belt to be at the correct tension. While still holding the motor, tighten all 3 screws.



Step 22: Re-connect both the communication cable (black) and the power cable (white). You will hear an audible clicking sound on both.



Step 24: Plug in both the power cord and the communication cable back in. Power on.....**FINISHED**



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