



3D PRINTER

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REVISION : A

TITLE: UV Lamp troubleshooting and Voltage measurements

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APPROVED BY: Gary Chen

1.0 Purpose

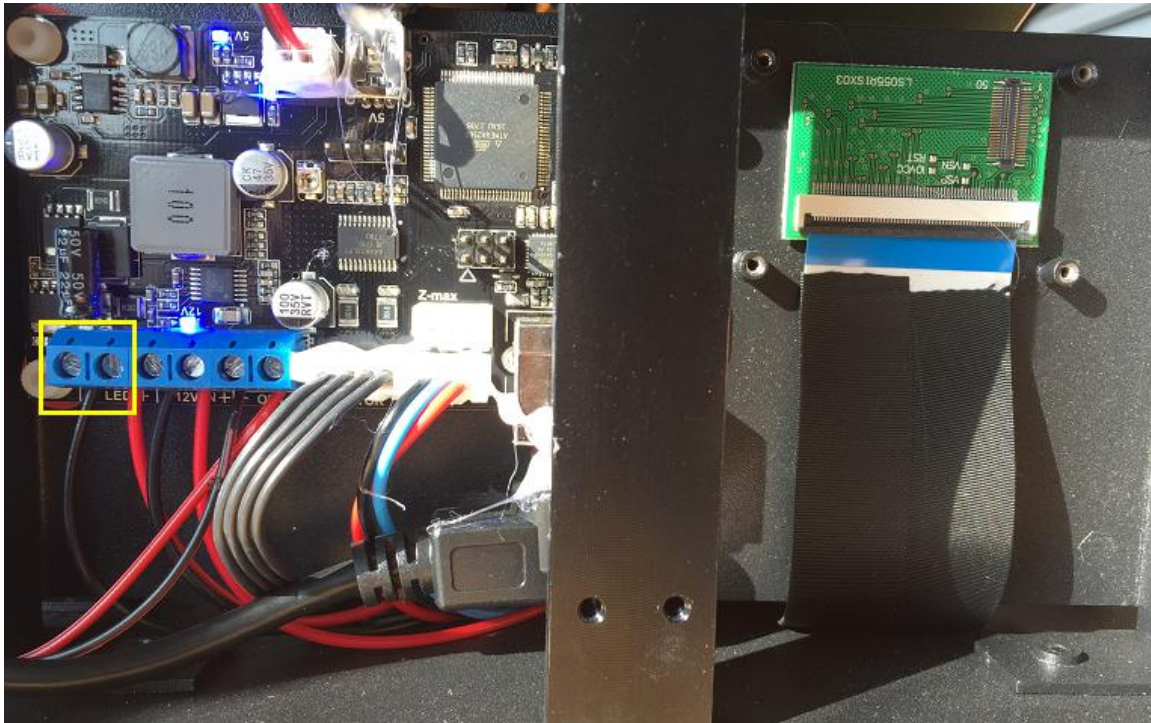
This troubleshooting guidance walks you through to find why not your UV lamp does not turn on and find the root of issue.

2.0 Scope

This document covers Duplicator 7

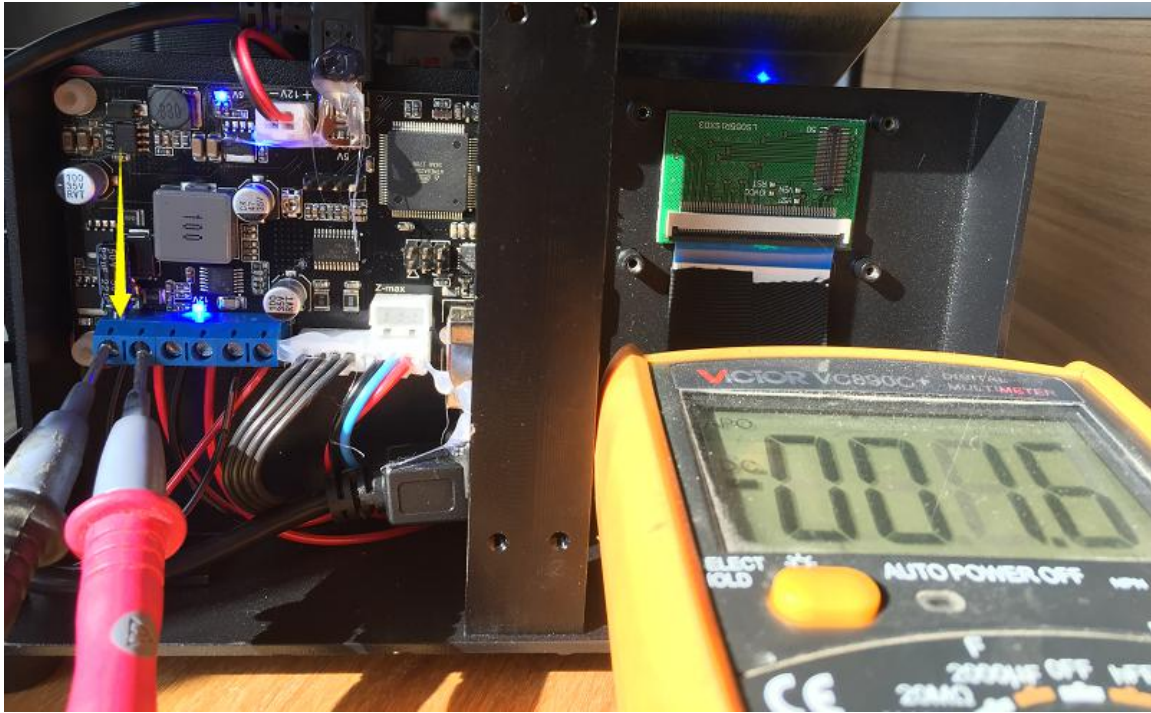
3.0 Check the LED wires

First check the LED lamp's wire on the motherboard. Make sure they are not loose and are placed properly.



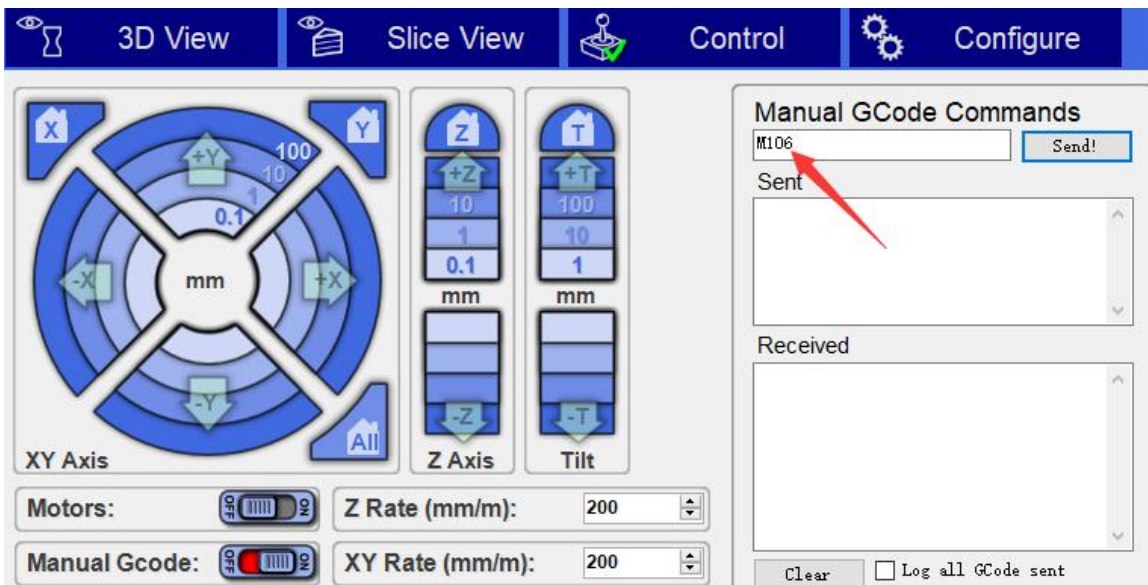
4.0 Voltage measurement

In the normal situation when the printer is on and printer is not on printing process voltage on LED pins would be between 1.6 to 2v.

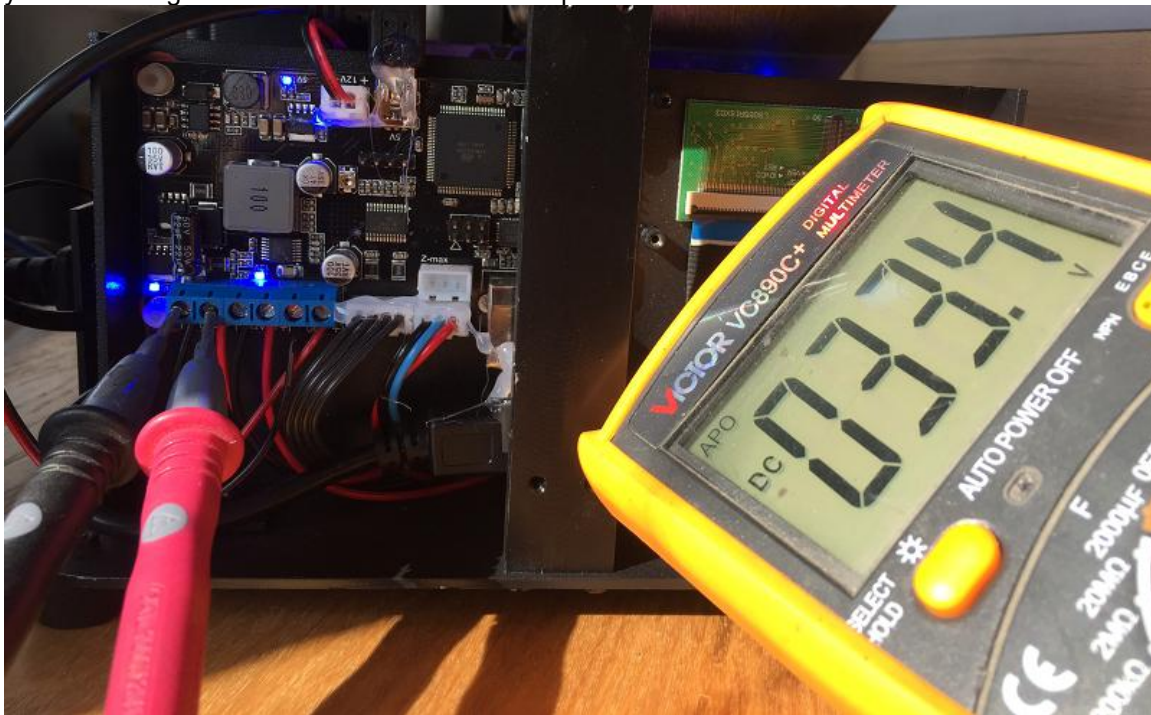


4.1 check the Voltage on LED pins on the Motherboard

When the printer is on and connected send M106 command to printer and measure the voltage on LED pins on the board.

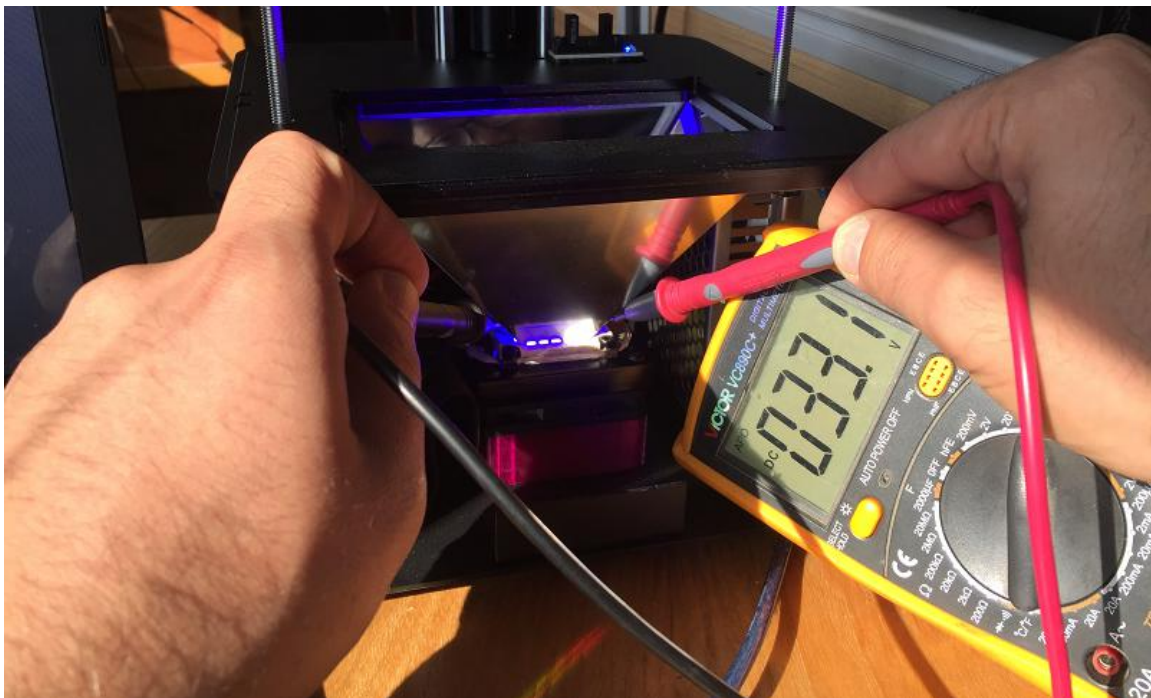


The Voltage should be Between 33.5 to 37v. If this is what appear on your Multimeter. This means board receives the right voltage and sent the right voltage out to the LED lamp as it is expected. In a word your motherboard is not defective. But if you do not receive the right voltage your board might be defective and should be replaced.



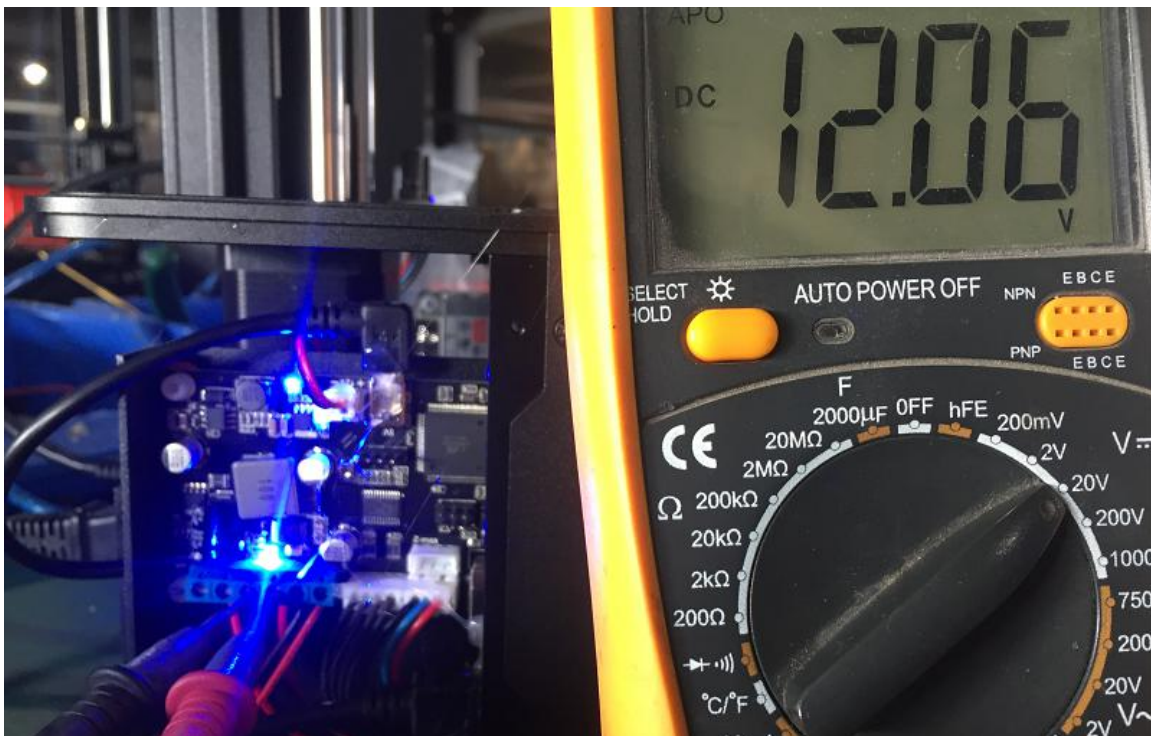
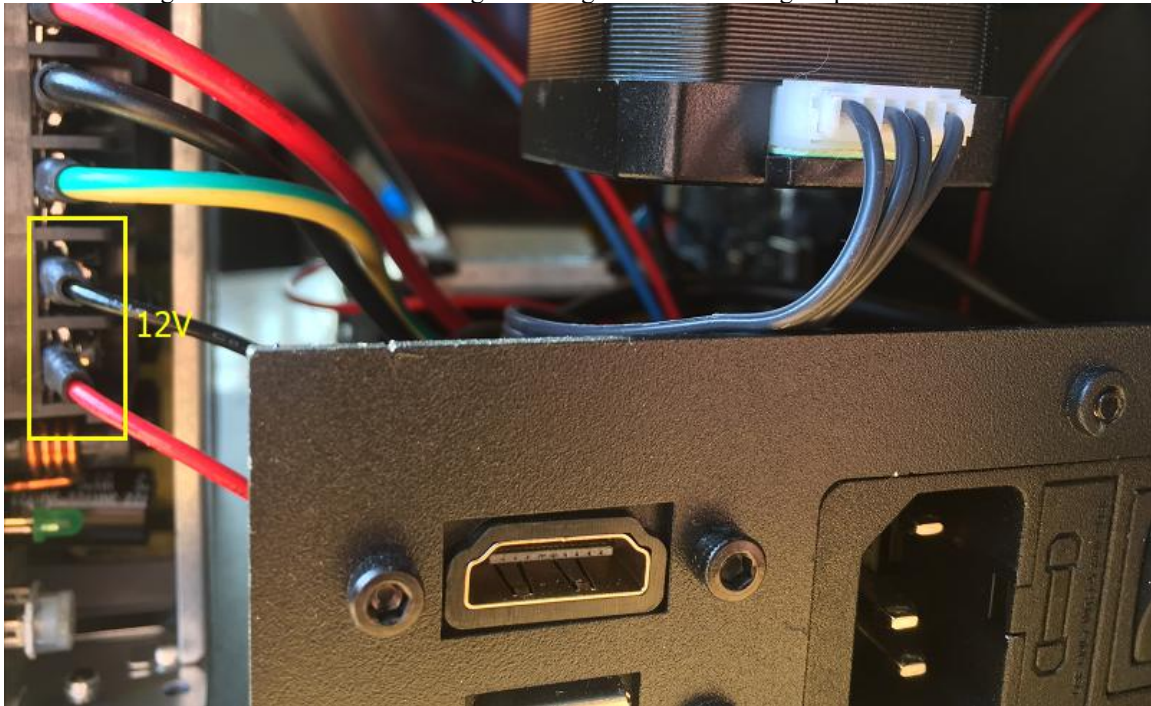
4.2 Check the Voltage on the LED lamp.

Now measure voltage on LED lamp where the wires are soldered. It should have almost the same voltage on the motherboard. If you are receiving voltage a lot less than this number



Note:

Make sure PSU powers up the motherboard and it receives 12v on the pins.
The obvious sign beside measurement voltage is the lights on the board light up.



5. Note

5.1 initiate by Mikey on Dec 4th Dec 2018