

Replacement PCB (Printed Circuit Board) Procedure

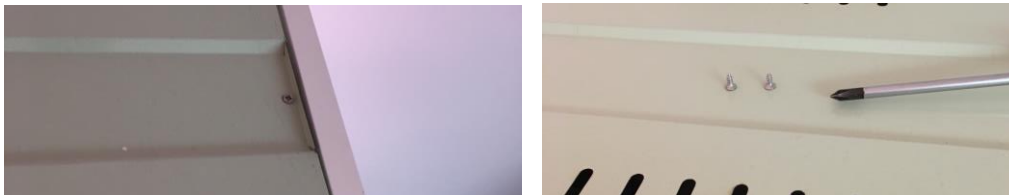
Purpose: How to remove and replace the PCB on the Plant Producer Hydroponics unit

Prerequisites

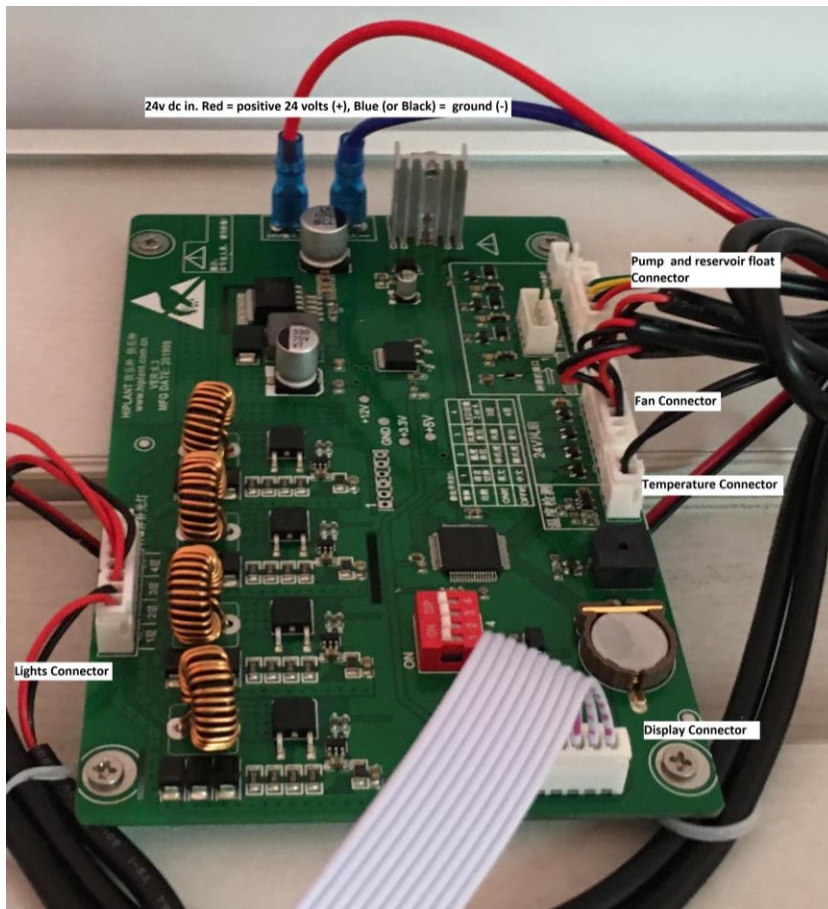
- Have a Phillips screwdriver with a good tip and a step stool or step ladder available

Remove old PCB:

1. Turn the power off by pressing the switch down to the “O” position (the switch is located at the top-left rear of the unit).
2. Remove the top cover to expose the electronics of the unit by removing the two Philips screws, one on each end. Use a step stool or step ladder to see the top of the unit.



3. Identify the PCB and connectors. The PCB is located under the top cover in the middle of the shelf.



4. Disconnect the connectors. Grasp the wires close to the connectors and pull up with as little force necessary (may have to wiggle it back and forth and up at the same time). Use both hands for the display connector if needed.

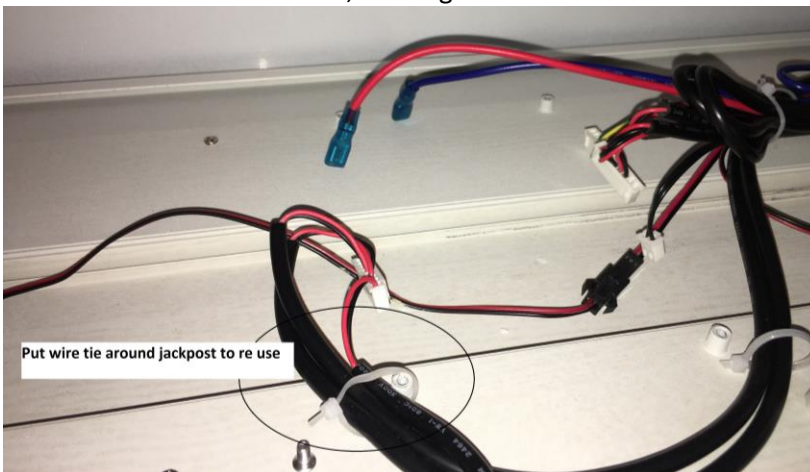


5. Unscrew the four Philips screws that secure the board to the shelf and set aside. Grasp the PCB by the edges and remove, using two hands if necessary. Be careful not to snag the wires

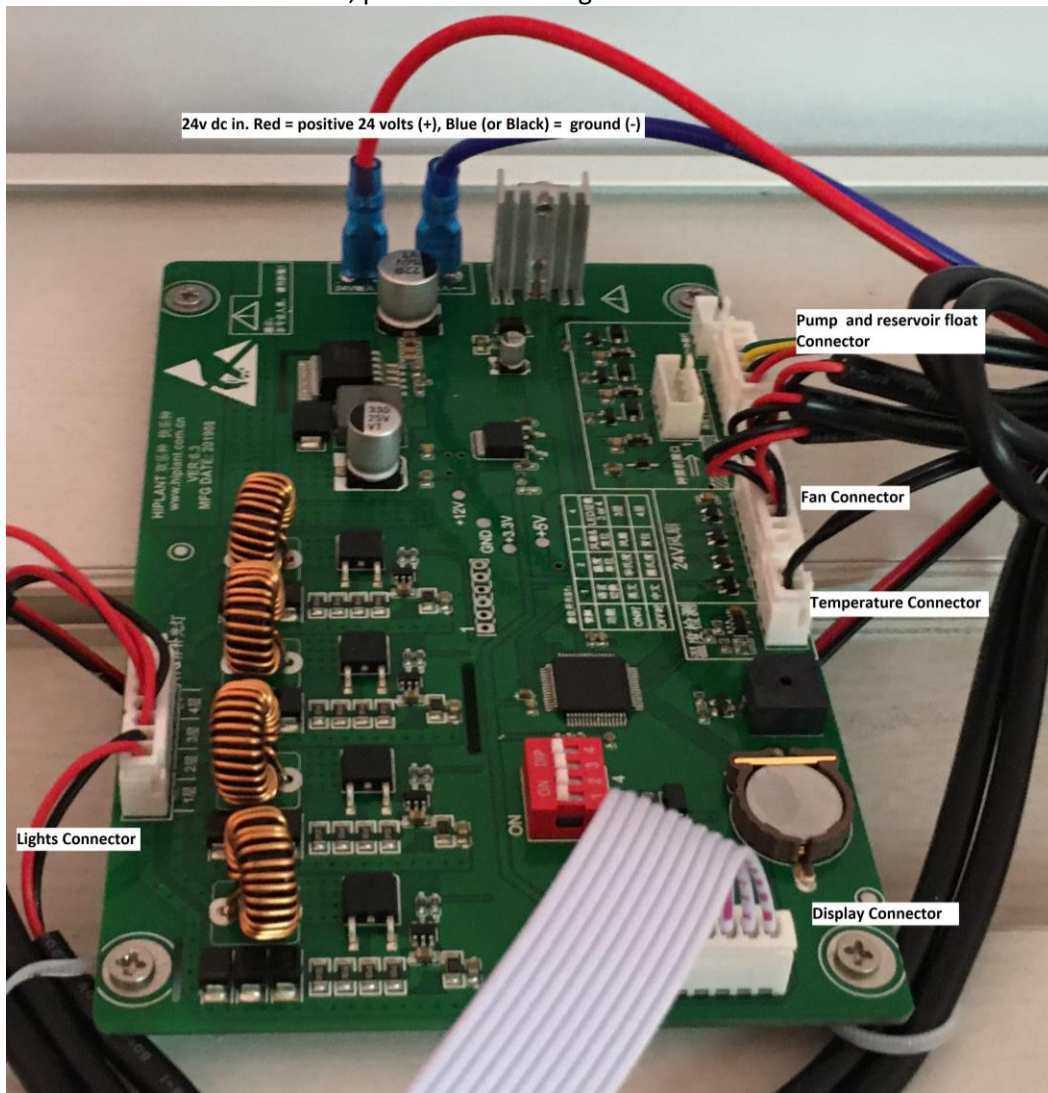


Install replacement PCB.

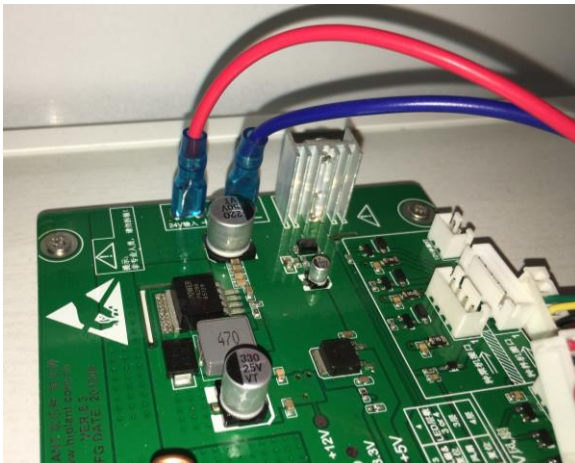
1. Put the wire tie around the jackpost then place the PCB over the top. Put the Phillips screws back in loosely one at a time until all four are started, then tighten.



2. To reconnect the connectors, push them in straight down one at a time. Install them following the image below:



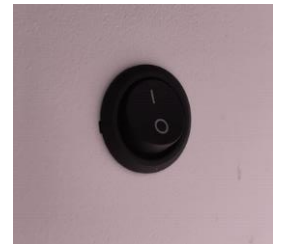
3. Close-up view of the power connectors, ensure red is on +, blue or black is on – .



4. Install the top cover. Tighten the two Phillips screws.



5. Test by plugging the power brick into a wall outlet. Turn on by pressing | on the power switch. Ensure the display, lights, fans and pump works. **NOTE:** may have to change the time to the correct time as well as check the autogrow start time for the lights, fans, and pump to turn on.



Troubleshooting tips:

If there is no power up, press the + key for 5 seconds (it will beep and turn on the display). If it does not beep or turn the display on, ensure the power connectors on the PCB are installed correctly. Also ensure the display connector is installed correctly. If any light does not work, check the auto grow start time. Fans are on when the lights are on. Pump is on for 20 minutes and off for 30 minutes, if the pump symbol is spinning, the pump should be on. You can grab the pump in the reservoir and feel it vibrate if it is on or look and listen for water flow. If any of this does not work contact Product Support.

This completes the PCB replacement. Additional care tips:

1. Ensure the reservoir is filled with water/nutrients, check level daily if possible.
2. Add water regularly to prevent water levels from dropping too low, allow water to sit 24 hours before being added to allow chlorine to leach out.
3. Unit will beep once every 50 minutes when the water level drops too low.
4. Unit will consume more water as the plants get larger.
5. Check the nutrient levels periodically and the plants themselves systematically by keeping records or journaling to obtain optimal growth (suggest 2-4 times a week).

For additional assistance and video tutorials visit our website: <http://www.realityworks.com/knowledge-base/>