

Replacement Display PCB (Printed Circuit Board) Procedure

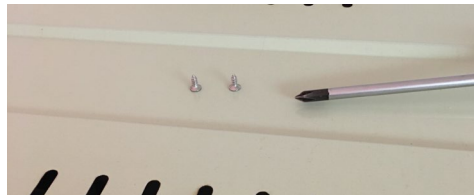
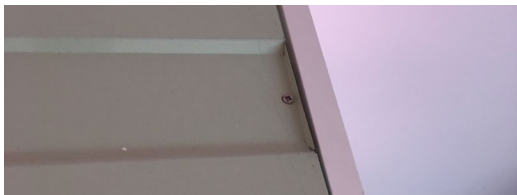
Purpose: How to remove and replace the Display PCB on the Plant Producer Hydroponics unit

Prerequisites

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

Remove the old PCB:

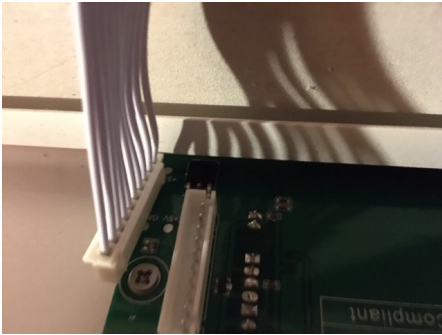
1. Turn the power off by pressing the switch down to the "O" position (the switch is located at the top-left rear of the unit).
2. Remove the top cover to expose the electronics of the unit by removing the two Philips screws, one on each end. Use a step stool or step ladder to see the top of the unit.



3. Identify the PCB and connectors. The display PCB is located under the top cover in the front-middle rail.



4. Disconnect the connector (1). Grasp the wires close to the connectors and pull outward with as little force necessary (may have to wiggle it back and forth and out at the same time). Use both hands for the display connector if needed.

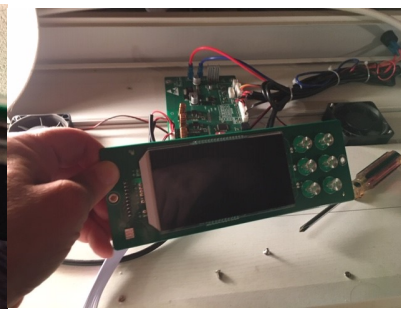
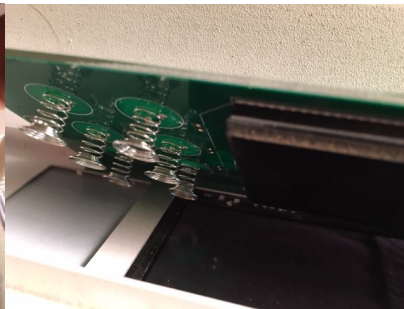


5. Unscrew the two Philips screws that secure the board to the rail and set aside. The display PCB will slide down once the screws are removed. Grasp the PCB by the edges and remove, pull the top out first, then pull up and out using two hands if necessary. Be careful not to snag the wires

(slid down – left side)

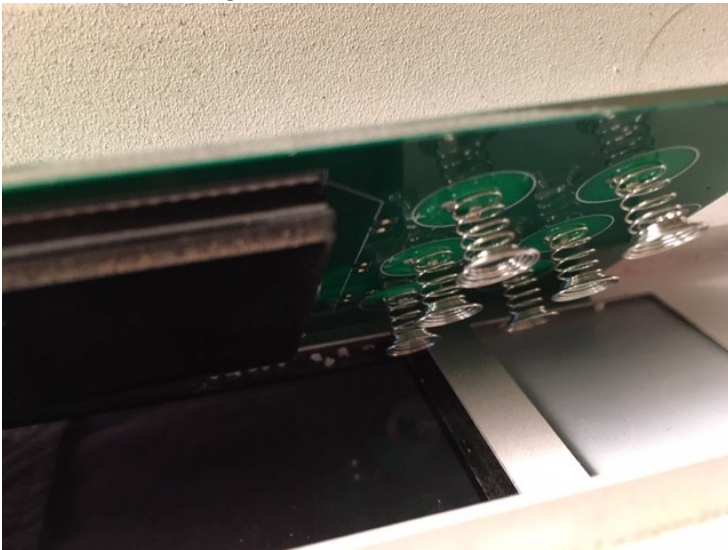
(pull the top out first – right side)

(grasp by edges and remove)



Install replacement display PCB.

1. Install the replacement by having the springs on the right-hand side. Put the bottom edge in first, then push the top in. Raise the board slightly on each end one at a time and start the Philips screw. Do not tighten until the second screw is started. Tighten screws.



2. To reconnect the connector, align them then push in. Notice the slot on the connector on board and cable and align them, then push the connector onto the board.



3. Quick test. Power on the unit (press I) and ensure the display turns on. (press + for 5 seconds until it beeps if no display)



4. Turn the power back off. Install the top cover. Tighten the two Phillips screws.



5. Test. 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). 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. The 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 Display 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 the chlorine to leach out.
3. The unit will beep once every 50 minutes when the water level drops too low.
4. The 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: www.realityworks.com/support/