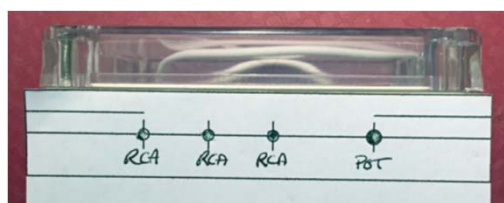
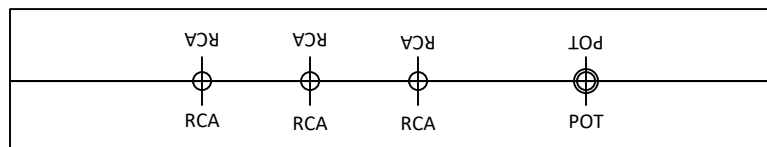


Dew Heater Controller Assembly Notes

Cut out the drilling template below and align the long edge on the box where the clear lid attaches and the ends to the sides of the box. Flip it over for the other side to keep the pots opposite each other on the box. Mark the center of each circle on the box. Then drill to match the part that's going in the hole. The RCA jacks and the pots will have different size holes.



Align the template so that it is even with where the clear lid meets the base. If you go much lower the RCA jacks will be too close to the circuit board.

Below is the correct wiring so that the Pots turn clockwise to increase heat and counter-clockwise for less heat or off. The wire colors do not matter. The green wire is a bit thicker and you may need to trim off a few strands to get it in the PCB hole.

Remember not to solder the RCA jacks until they are mounted in the case. Please rough up the RCA solder points, the MOSFETs and 7805 pins a bit with the sandpaper before soldering or you will have a difficult time making a good connection.



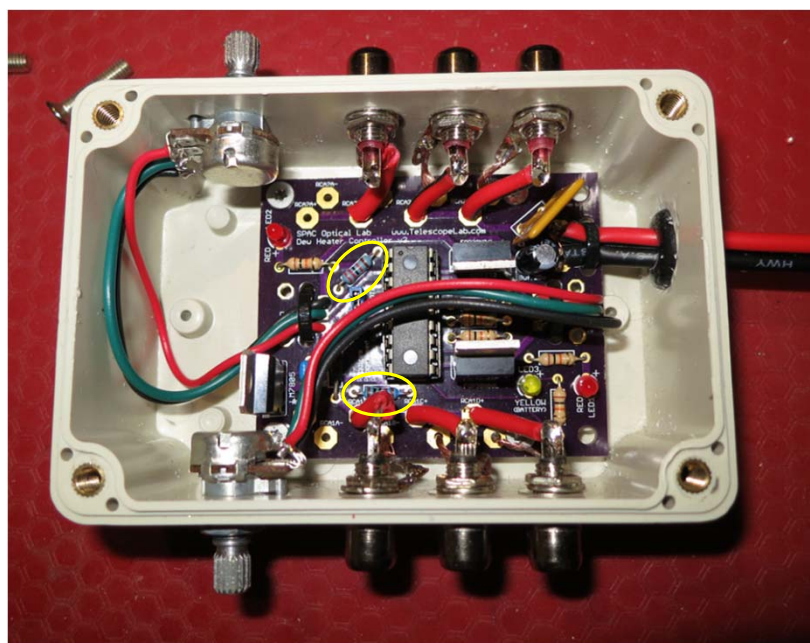
Right in yellow ovals are the two 1% (blue) resistors. The diagonal one is 22k and the horizontal one is 10k. These are for the voltage divider that monitors your 12v battery.

With the LEDs in your kit all of the other resistors are 10k.

There is one diode, get the polarity right (align the band on the diode with the one on the board.)

You will need to carve out the inside of the case a bit to make it thinner for the grommet. I suggest a Dremel with a small round cutting head. The 10K Pots will also need a notch in the inside of the box for the pin that prevents them from turning. Note that the pins will be on opposite sides of the pots in the case (in photo the top pot's pin is on the left and the bottom one is on the right.)

The clear case cover is often a bit hazy. Use cerium oxide or toothpaste on a wet paper towel to 'polish' it for a minute or two and it becomes much clearer.



The circuit board holes that align with the case screw mounts are at one end of the board (left in the photo) and about 2/3 to the other end, not at the far end (leave those open). Attach the board to the base before installing the RCA jack that is over the screws.