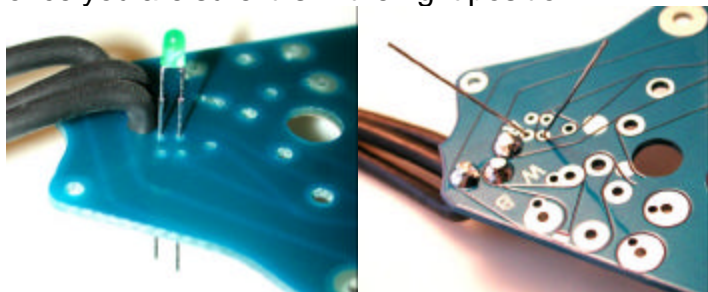




PROFESSOR MOTOR CONTROLLERS

Pilot Light Installation Instructions

Step 1. Insert the green light emitting diode (LED) into the circuit board with the shorter of the two leads towards the bottom of the controller in the two holes closest to where the controller leads connect. Check the first photo below to make sure this is correctly inserted. Push it all the way down to the circuit board surface and bend the leads as shown to hold the part in place once you are sure it is in the right position.



Step 2. Insert the yellow light emitting diode into the circuit board in the two adjacent holes with the shorter of the two leads towards the **TOP** of the controller (opposite from the way the green one was inserted) and bend the leads over to hold in place as before with the LED fully inserted down against the circuit board.

Step 3. Flip the board over and solder in the LEDs. To do this properly only 60-40 rosin core solder should be used (NEVER use acid core solder or acid flux) and a pencil point low wattage soldering iron should be used, ideally. Trim the excess length of the LED leads after soldering. Insert the resistor component (last part left) as shown below and solder in on the **BACK** of the circuit board. Trim any excess lead length of the resistor on the front side.



When all of this is complete hook up the controller to track power and test. The green light will be on when track power is positive polarity and the yellow light will be on when track power is negative polarity. This polarity check feature can help prevent controller damage from miswiring if checked on initial hookup.

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