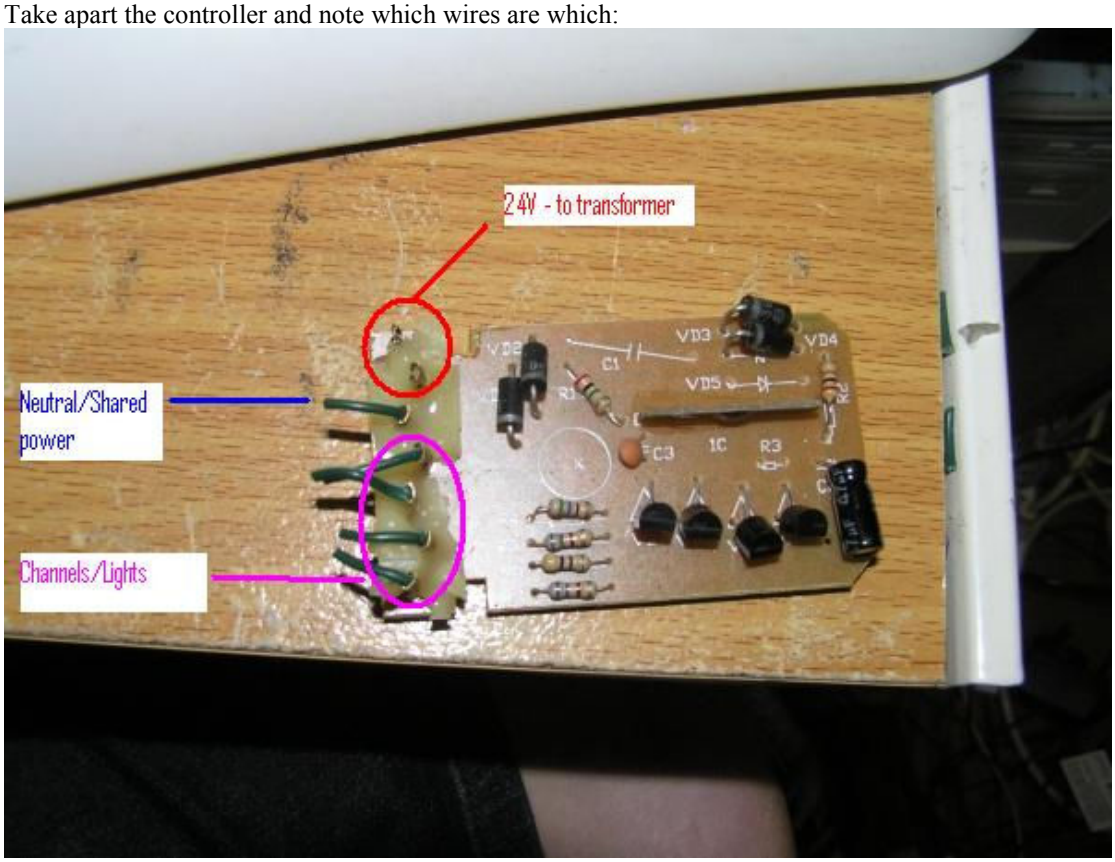
Removing Controller from LED string.

Take apart the controller and note which wires are which:



Note:
* Wire to the transformer will be obvious – these will be the only ones leading back to the power plug.
* The shared power wire will be the next one, mark it in some way so it's easily identifiable.
* No matter how many wires are left, these will be your lights starting with channel 1 next to the shared power.

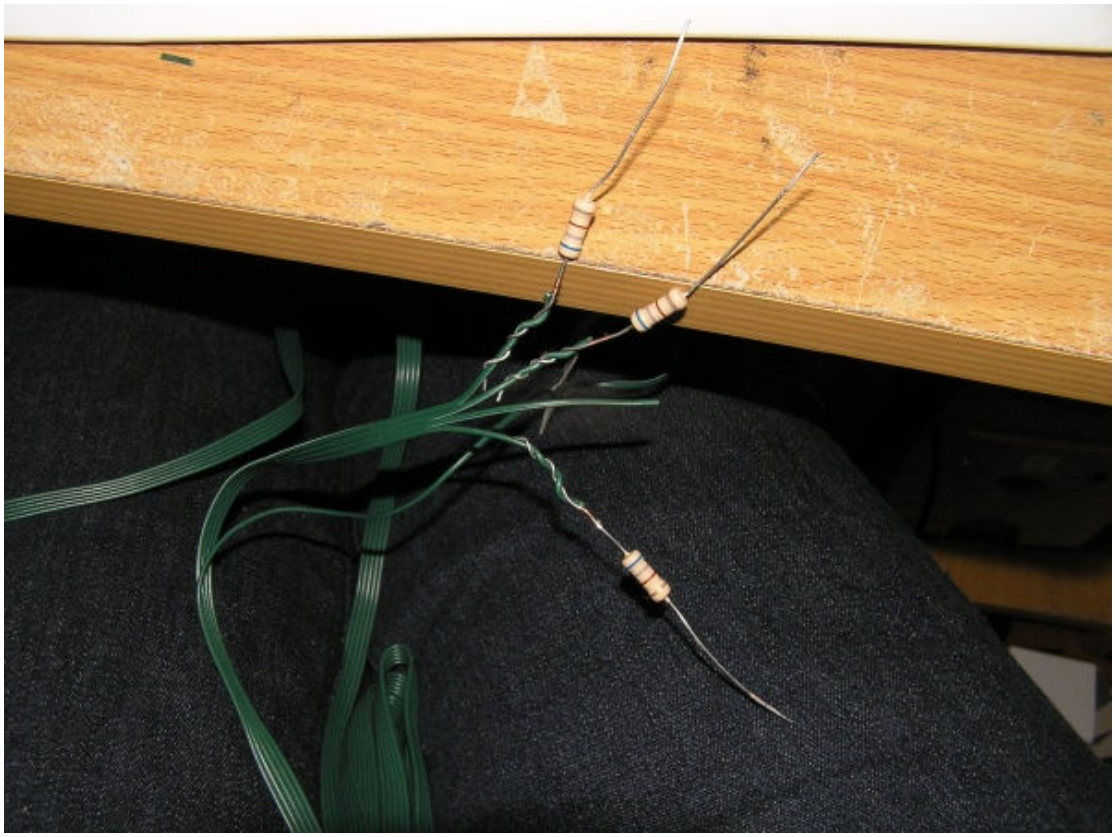
If need be mark ALL wires so you know what is what.

1. Cut wires and strip the ends. Using the LED calculator http://led.linear1.org/led.wiz work out what resistor you need.

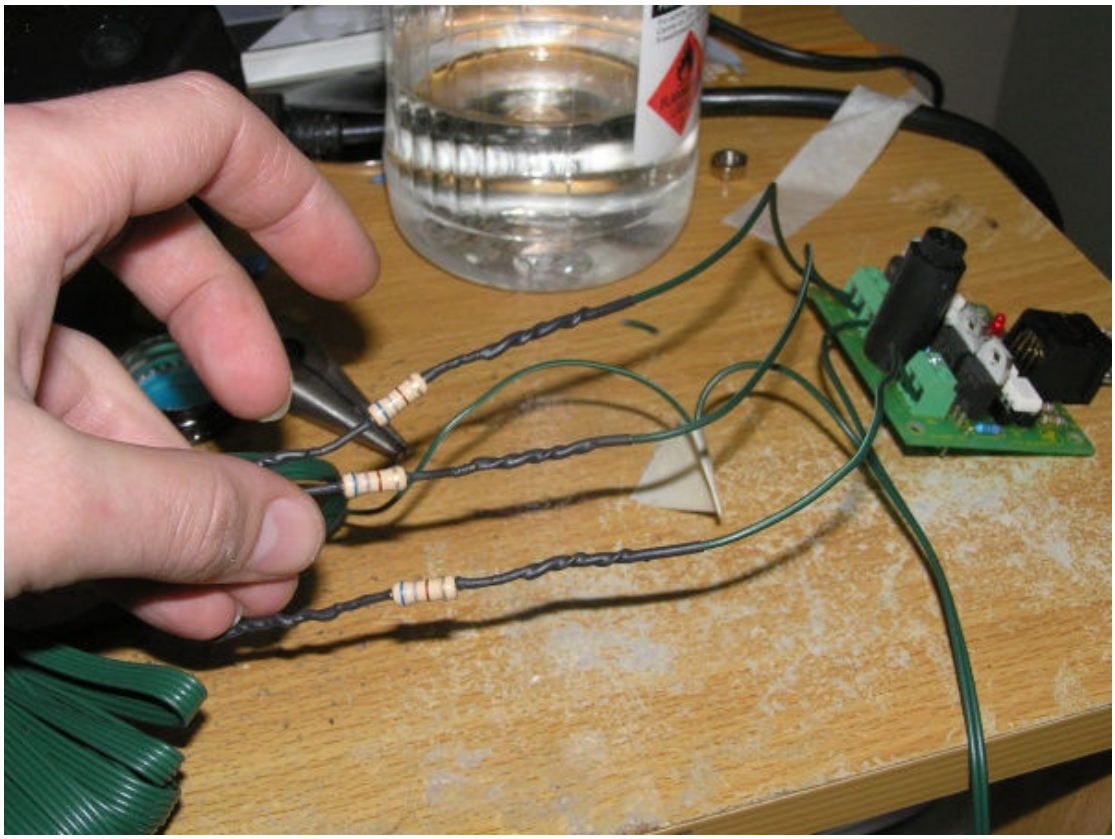
Source voltage – 24V
Diode forward voltage – click ? to workout voltage
Diode forward current – most common is 20ma. Click ? for explaination
Number of LEDs in array – count how many LEDs of one colour or pick an LED and follow the string and count how many LEDs connected, when you get to a plug that has 3 wires that's the last in the series.
Click Design my array for resistor value.

Note:
* Depending on the specs of the LEDs, resistors might be 1watt – which are bigger than resistors on controller boards.

2. Once you've worked out what resistors to use, connect them to the channel wires.



Twist the wire together with the resistor. You can add a drop of solder to be sure connection has been made. Cover with heat shrink to cover exposed wires and secure the connection.



Note:
* It's optional, but might be easier to make a connection to SSR terminal, connect a small section of wire to the other end of the resistor using the same method as above.

3. Strip a section of the shared power wire and 2 power wires. Connect 1 of the power wires with the shared power wire. The other power wire connects with the AC terminal on the SSR.

