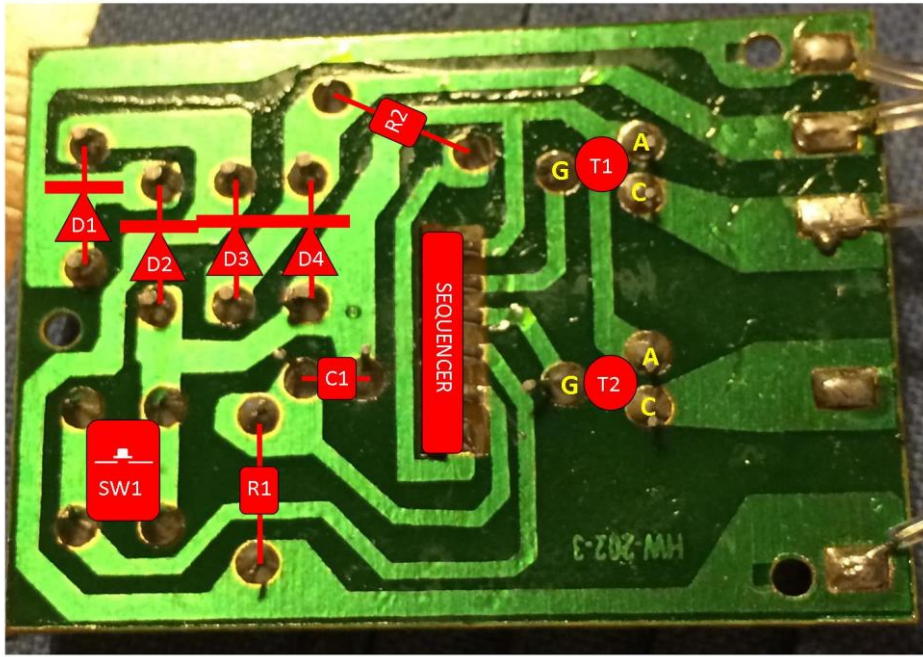


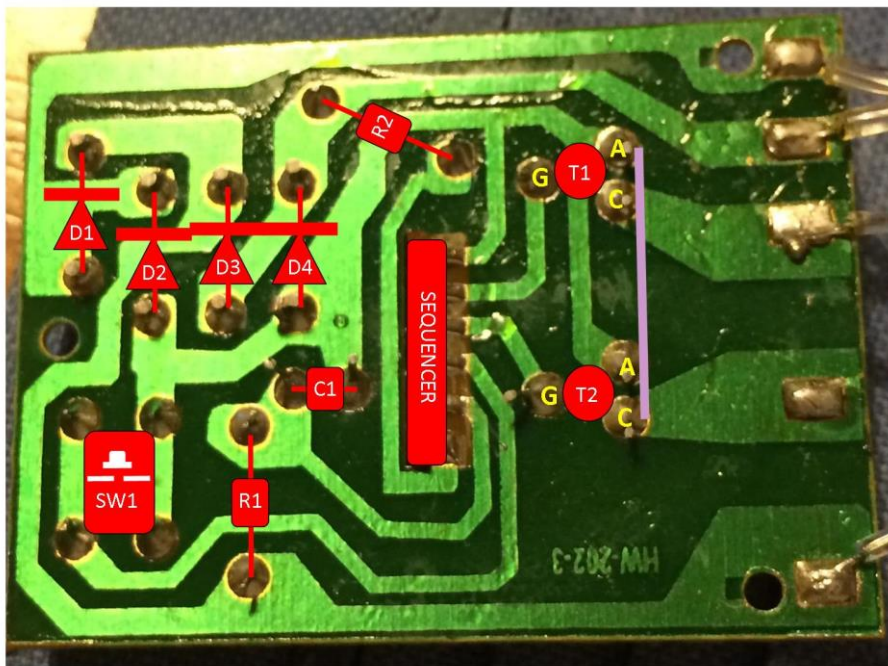
# Stop the XMAS LED Flashers

Here is my guide on how to stop those annoying LED's from flashing

Initial investigations show the circuit boards consist of a 4 diode bridge rectifier, A single pole pulse switch, a sequencer controlling chip and either 2 or 3 thyristors. There is also a couple of resistors to reduce voltages for the sequencer and gate voltages for the thyristors and a single capacitor . The complete cct board could be replaced by a single bridge rectifier of correct power rating.



Rear of 2 Thyristor cct board



Showing location of required shorting link across all Anodes and Cathodes

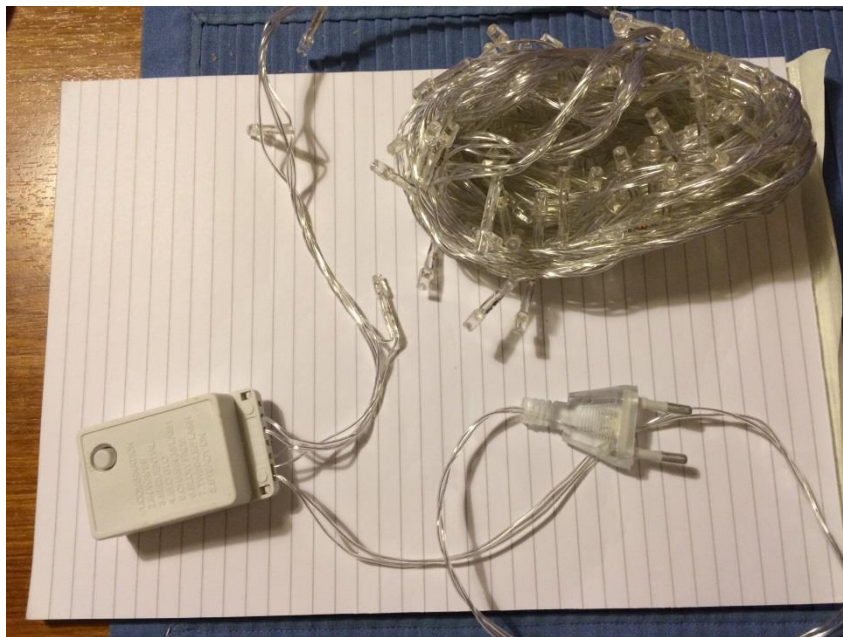
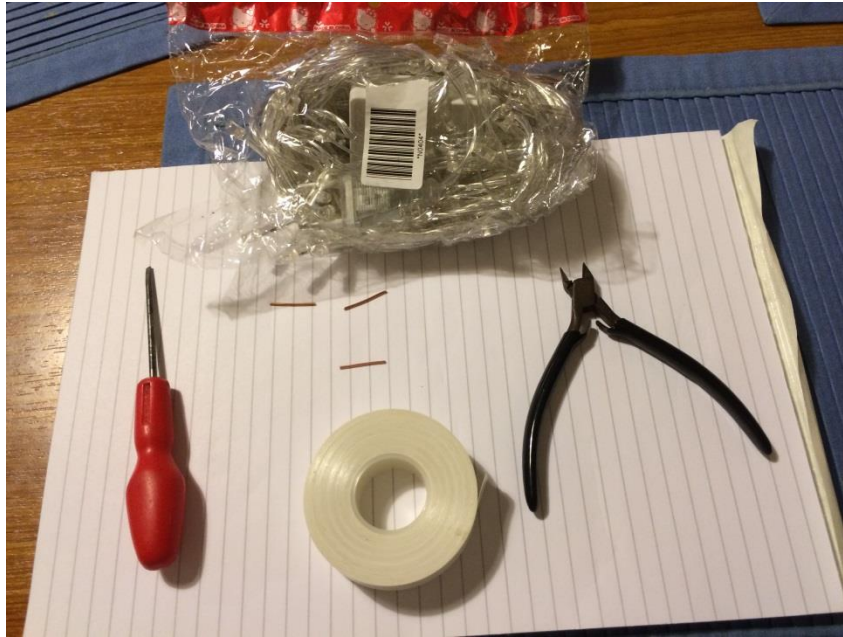
Anything altered following this guide is at your own risk. Please only attempt these modifications if competent to do so.

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# Stop the XMAS LED Flashers

All you will require including a Soldering iron and solder

1. Snips (side cutters) and terminal screwdriver.
2. Copper wire (Solid preferred). Length approximately 1cm. I used the earth wire from some 1mm twin and earth Power cable I had lying around.
3. Insulation tape this is essential as the small controller boxes are not as robust as I would like for a mains powered unit.
4. Some silicone type glue may be required this is explained later



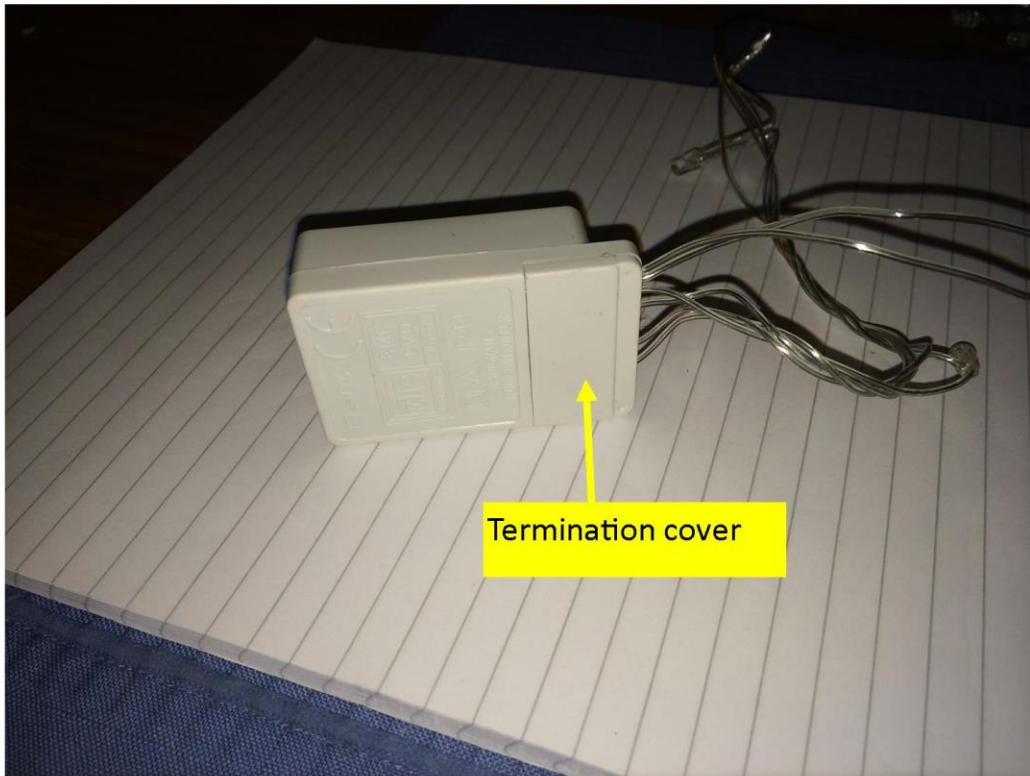
LED's, AC Plug and Control box

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# Stop the XMAS LED Flashers



This cover is generally glued with silicone adhesive, if required carefully remove.



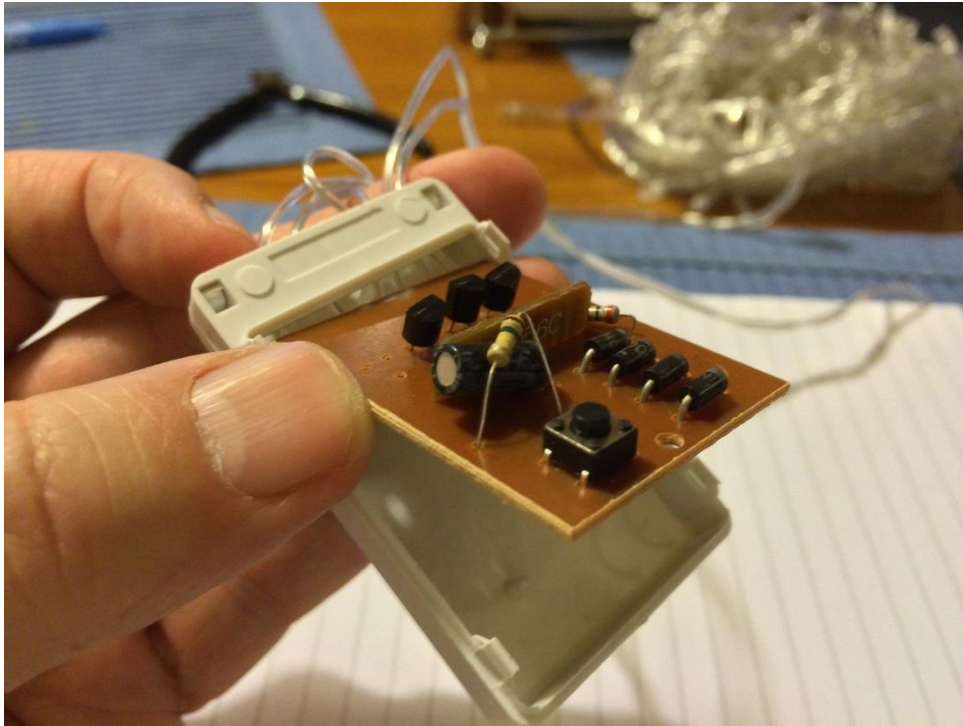
Inside of Control box with cover open, this is held in place with 4 side snap clips. It should open easily with a terminal screwdriver

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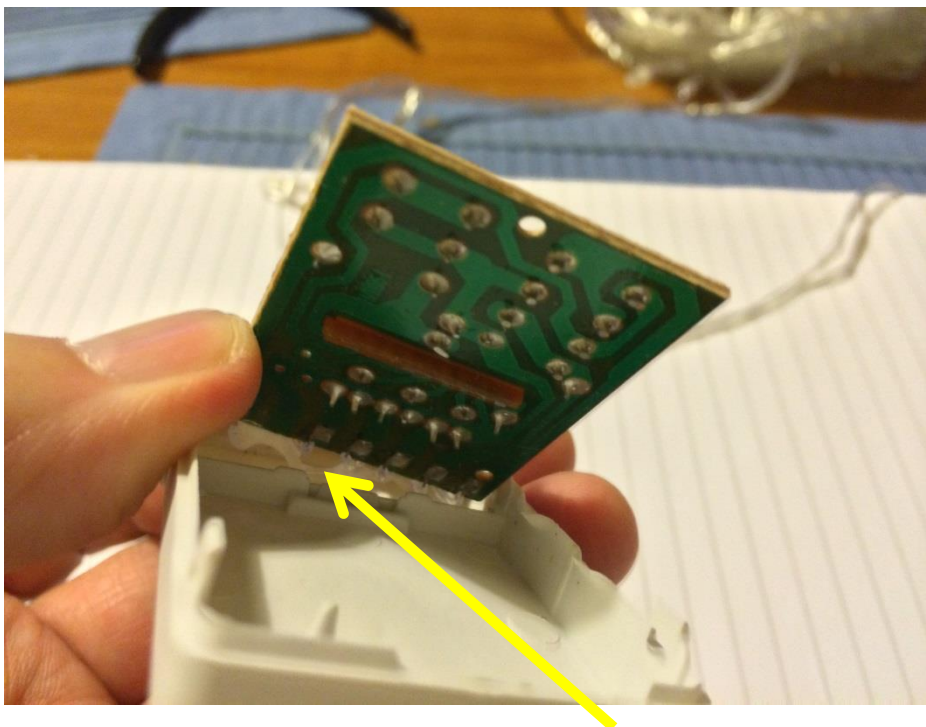
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# Stop the XMAS LED Flashers

Access is required to rear of circuit board by hinging the loose board forward. This should be carried out carefully avoiding straining the soldered terminated wires. If wires break off then access can be made by removing the termination cover shown earlier. When cover is replaced it is strongly recommended silicone type adhesive should be used for this.



Carefully lift up the circuit board from the opposite end of control box wires.



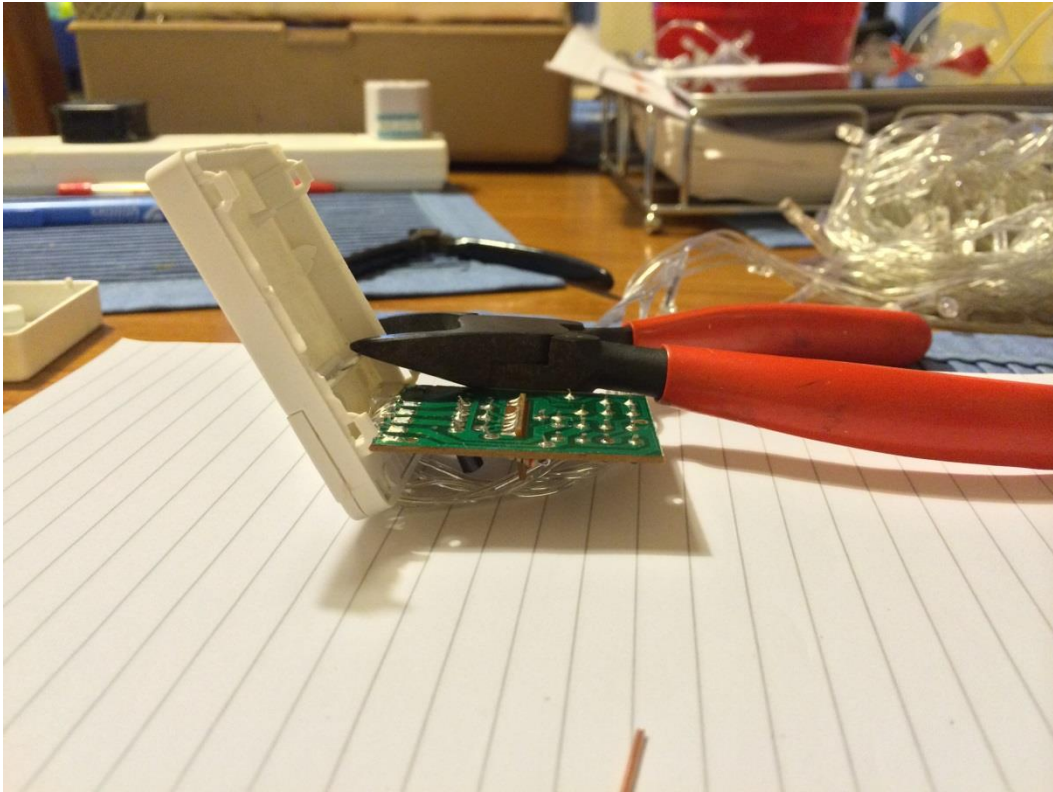
Silicone Adhesive can be seen here

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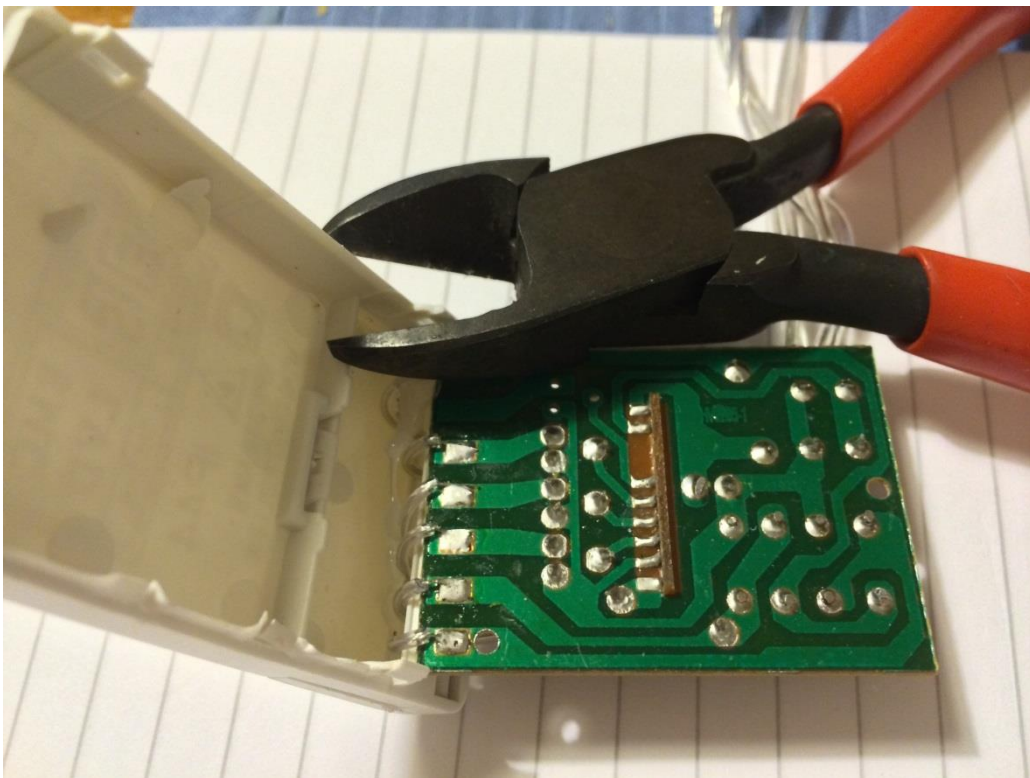
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# Stop the XMAS LED Flashers



Carefully hold circuit board and Box in above position and avoid too much stress on wire connections ready for soldering. My side cutters were ideal weight and shape for this.

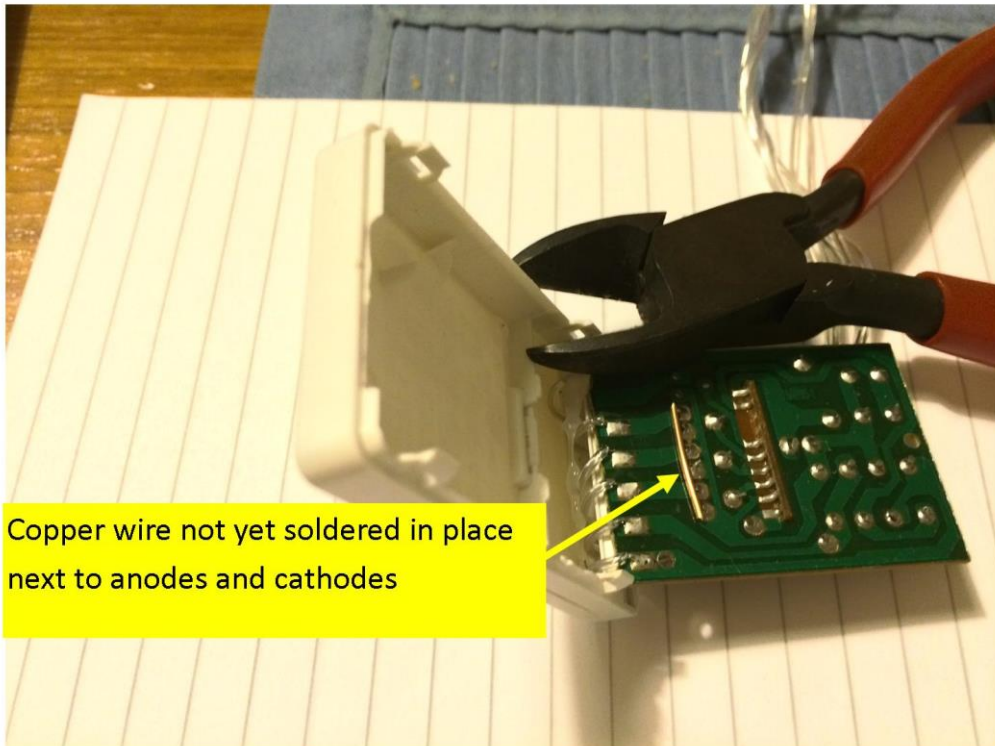


Ready for wire to be put in place

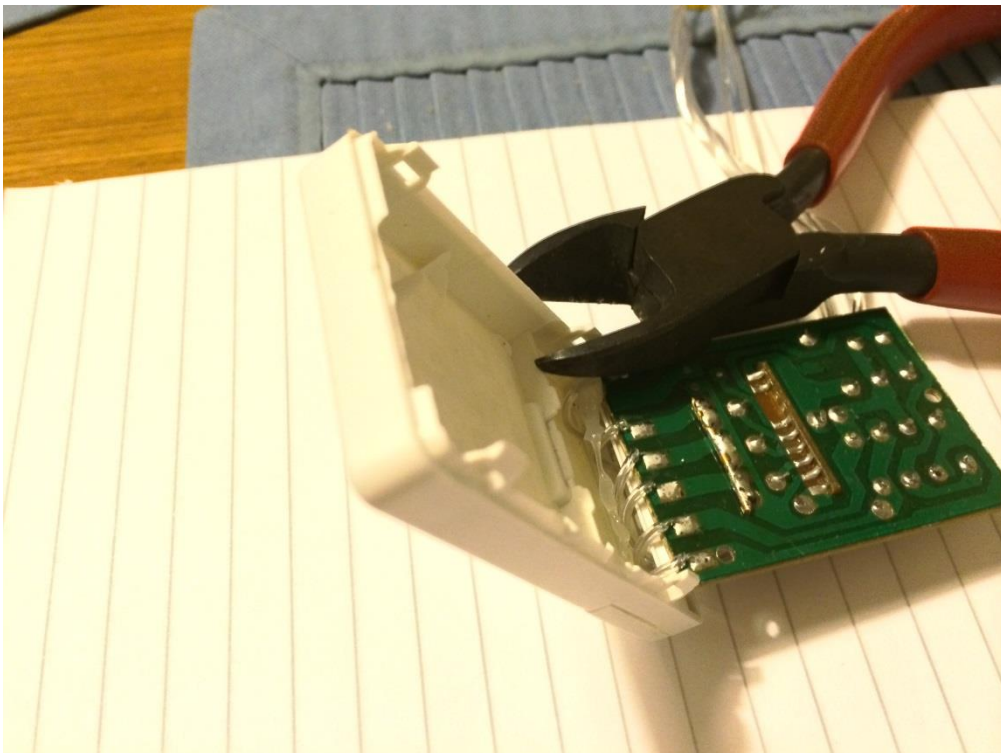
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# Stop the XMAS LED Flashers



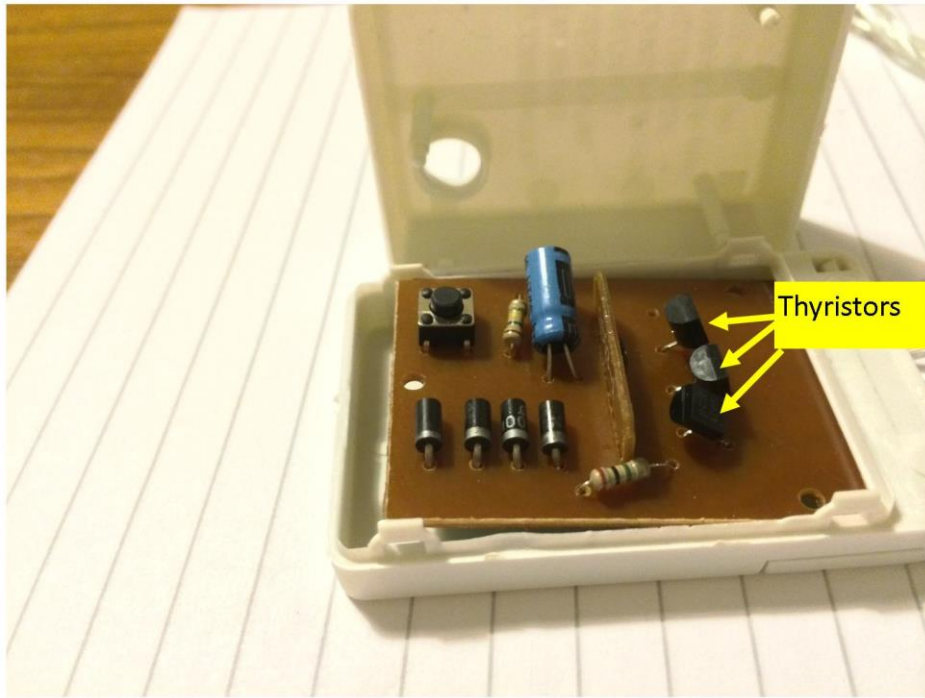
Copper link now in place ensure length is correct to only short all anodes and cathodes



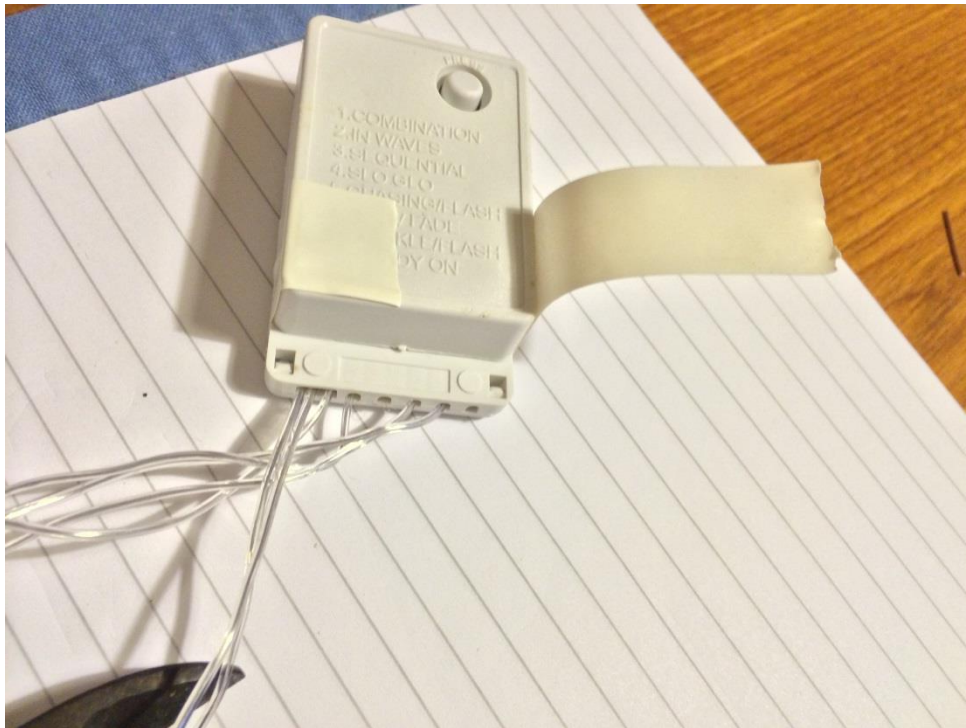
Link now Soldered in place. Can always be removed at later date to allow LED's to flash again



# Stop the XMAS LED Flashers



Cover and front of a 3 thyristor circuit board.

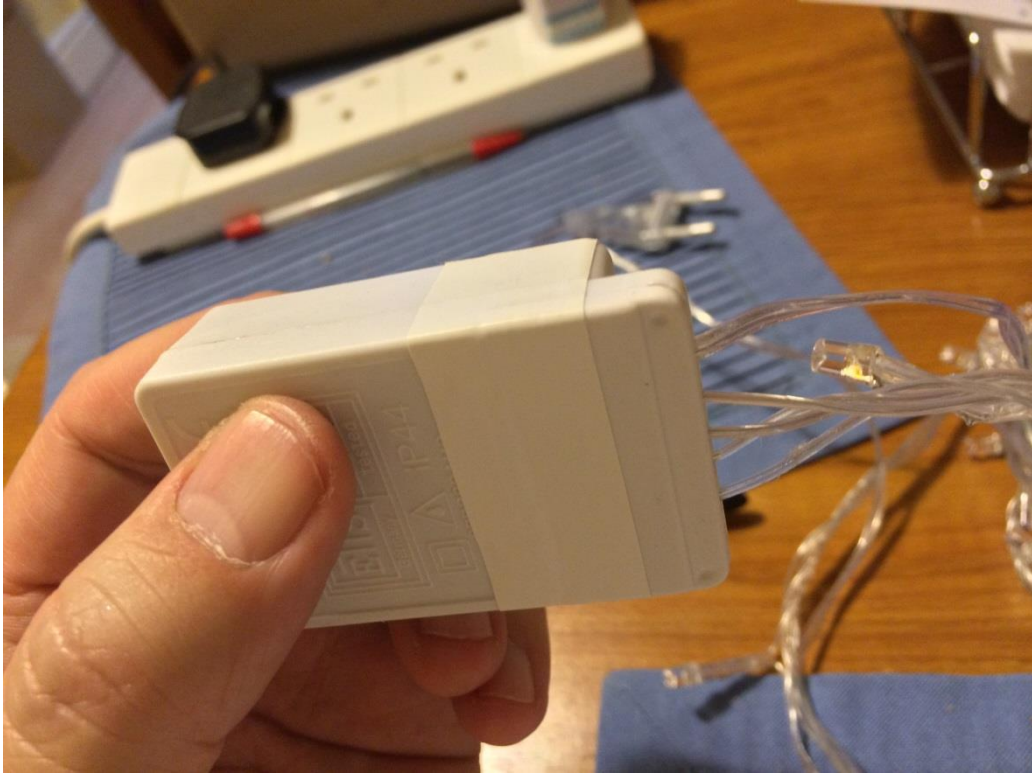


White insulation tape being added for increased protection and security. Silicone Adhesive can be used providing no access is required at a later date.

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# Stop the XMAS LED Flashers



Rear of Control box with Insulation tape added, also holding termination cover in place



Front of control box after completion. LED's will no longer FLASH

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