

In this picture, posted by Zang, you can see that the diodes and suppressor capacitors are indeed swapped place because of the pin spacing. Not a big problem here, just a case of the silk screen being mixed up.

The bigger problem in this picture is the faulty orientation of the diodes.

In order to make a correct diode bride they all need to be rotated 180°

Wim was the first to notice this error and raised the question on the forum.

Hanzwillem came to the same findings shortly after.

<http://www.diyaudio.com/forums/showthread.php?postid=768239#post768239>



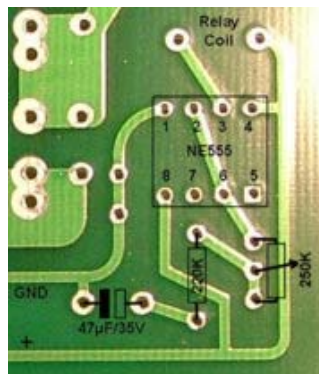
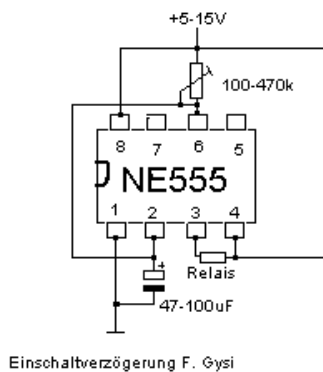
This picture shows you the correct way of the diode placement on the PCB.



Going back to Zang's picture, you can see the correct orientation of the NE555 timer IC. This is also 180° rotated opposite from the silk screen.

Now something that took me a while to figure out, the time delay circuit.

I populated the board with all the necessary components and when I fired up the Power Supply board it came to my attention that the relay didn't activate after the approximate proposed 20 seconds. First I thought it was a faulty relay but when I applied power to the coil it worked. Next in line was the timer IC that might be the culprit, Franz assured me that these things are quite sturdy and therefore hard to believe that this was the cause of the malfunctioning of the circuit. I replaced it anyhow with another one but without any luck. Only when I started comparing the PCB traces with the wiring diagram it dawned on me that the layout on the circuit board is wrong.



As you can see in the above images there are some differences. On the left is Franz's circuit, on the right the actual PCB layout. The left image shows you that the 47µF capacitor is connected between ground and pin 2 (6) of the timer IC and that the resistor (or trimmer) is connected between +VCD and pin 6 (2) of the timer relay. On the PCB the capacitor goes from ground in series with the resistor to pin 6 of the timer relay. Get the picture!