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## Chapter 1: What's it about

At some point in time Franz G. came up with the idea to build a small amplifier with a tube front end and the well known LM3875 as power amp. He started a thread on [www.diyaudio.com](http://www.diyaudio.com) so we could all follow his adventures whilst designing this little beauty. The link below will get you to this thread.

<http://www.diyaudio.com/forums/showthread.php?s=&threadid=48118&highlight=>

A few pages down the line digi01 also got interested in this little gizmo and started designing some small PCB's so other people could build this amplifier also.

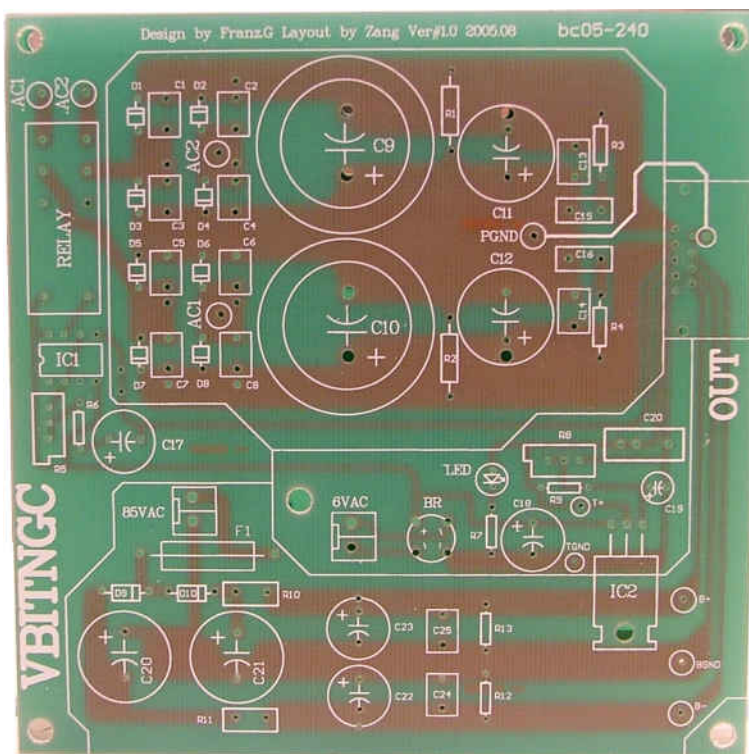
A new thread was created to follow up on other DIY'ers experiences regarding the VBITNGC.

<http://www.diyaudio.com/forums/showthread.php?s=&threadid=67561&perpage=10&pagenumber=1>

Now, with all the good intentions of both Franz and Zang a few errors found there way into these circuit boards. In this building guide I will try to cover all the corrections that have to be made to get this project to a good end. Most of the errors are situated on the Power Supply board and the small Tube board.

## Chapter 2: References and corrections

First of all let's have a look at the silk screen of the Power Supply board.



1. D1 through D8 and C1 through C8 are a bit confusing. Most of you already figured out that the diodes goes in place of the "C" markings and the parallel cap's in place of the "D" markings because of there size and pin spacing.
2. IC1 needs to be rotated 180°
3. The VAC-in for the HT supply is marked as 85V. This needs to be  $\pm 40-45$ VAC to get around 60VDC after rectifying.
4. In both the heater supply section and the HT supply section you will see a C20 marking. Only C20 in the HT supply section is mentioned in the parts list. C20 in the heater supply section needs to be a 1 $\mu$ F MKT cap (or better).