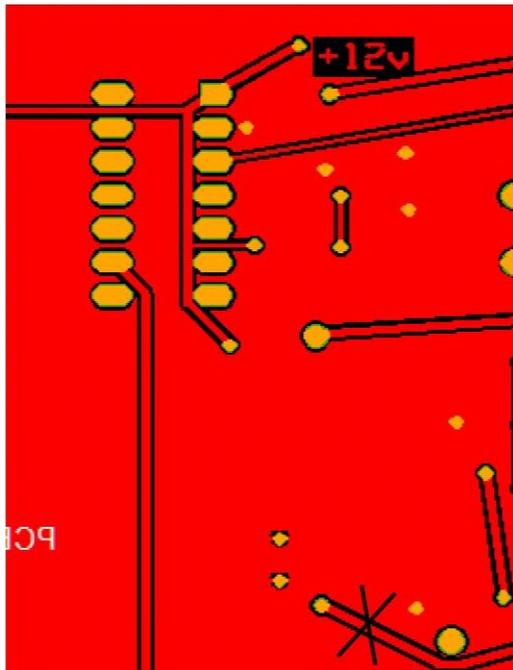


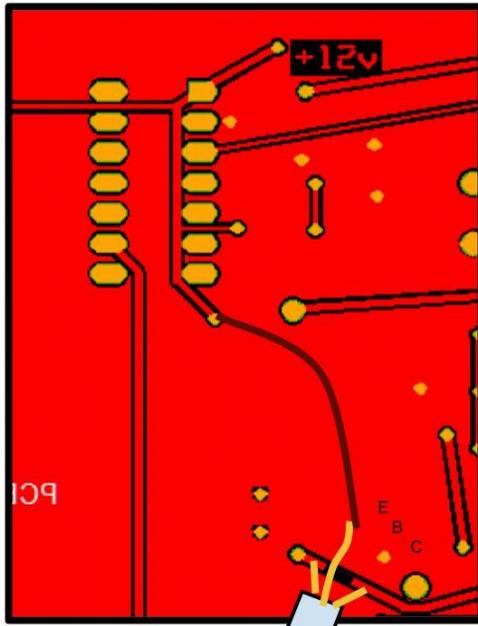
I have been aware of a couple instances of failure of the audio amplifier IC in the Nouveau 75A. A finger test reveals that, sure enough, when running into the internal speaker at full volume, the IC runs hot. A couple solutions exist to help this part survive better:

1. Run the part into headphones or an external amplified speaker. OR
2. Do not operate with the internal speaker past 1/2 clockwise on the volume pot. OR
3. Add a 4.7 to 10 ohm speaker in series with the internal speaker. Just add it in series with the speaker lead. OR
4. A more involved modification that does not sacrifice volume into the internal speaker is to reduce the supply voltage on the audio IC. This can be done by severing the lead between the audio IC and the 12v line, and adding a 2N3904 transistor to drop that voltage to about 4.5v instead.

The steps for that modification are as follows:

- a. Turn the board over to expose the bottom side of the PCB. On the left side of the board, under the 14 pin DIP, sever the trace per the first picture. Scrape back the solder mask on either side of the cut.





Scrape back the solder mask on either side of the cut.. Add a 2N3904 transistor, flat side down, per the attached picture. The left and right leads of the transistor are to be soldered down to bridge the cut trace. The middle lead is to be connected by a fine wire (like magnet wire) to the via below and slightly to the right of the 14 pin DIP IC. Place a small piece of insulating tape under the middle leg of the transistor to prevent it shorting out against the other leads.

All subsequent kits shipped will include this transistor.

73 Dave Cripe NM0S