

From Johan

Jun 2, 2010 at 5:57pm

Greetings,

A hint that may be of interest to Quad owners. This applies to the Quad, GT, and "plus" (Not sure about the Q2/20).

There appears to be excessive noise on +12V and -12V lines powering the op-amps at the front end. It is wide-band hash, I'm not sure where it comes from. Closer inspection at DC filtering revealed 4.7uF electrolytic caps on those lines, located near the front-end op amps. Usually, that should be sufficient. Evidently, not quite in this case.

Electrolytics are known to become leaky due to age, and these Quads are getting to that age, so was wondering about that. **I replaced those 4.7uF caps with new, 100uF 50V parts** --- what a difference it made.

For my motherboard revisions:

Quad & "plus" models -- locate C3 and C7 (gray 4.7uF electrolytics). These are near the input sockets.

GT model -- locate C3 and C4 (gray electrolytics) near the input sockets.

Just verify you located the correct parts by tracing the +12V and -12V supply lines to the front-end.

CAUTION:

Please do not attempt doing this yourself unless you feel qualified soldering on delicate printed circuit boards. It is a simple job for a qualified electronics tech. Seek help.

The trick is to snip the old part off, then carefully unsolder the remaining leads from the motherboard. Push a cold pin through the heated holes to properly clear out solder fill. Clean and flux the pads, and install the new part. Carefully inspect your work for solder bridges after cleanup with flux remover.

Trust this is of interest.

Regards.

Johan.

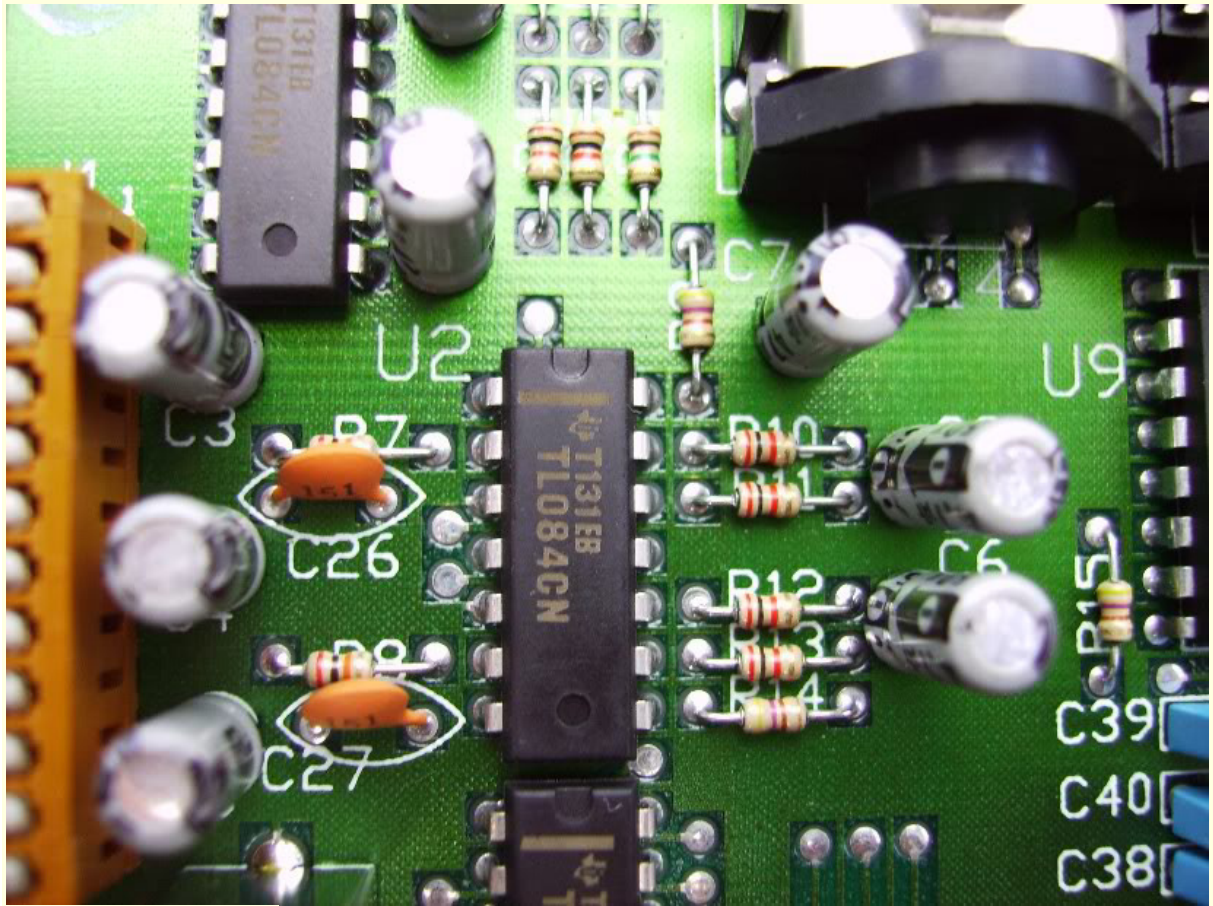
From grip

Jun 15, 2010 at 10:13pm

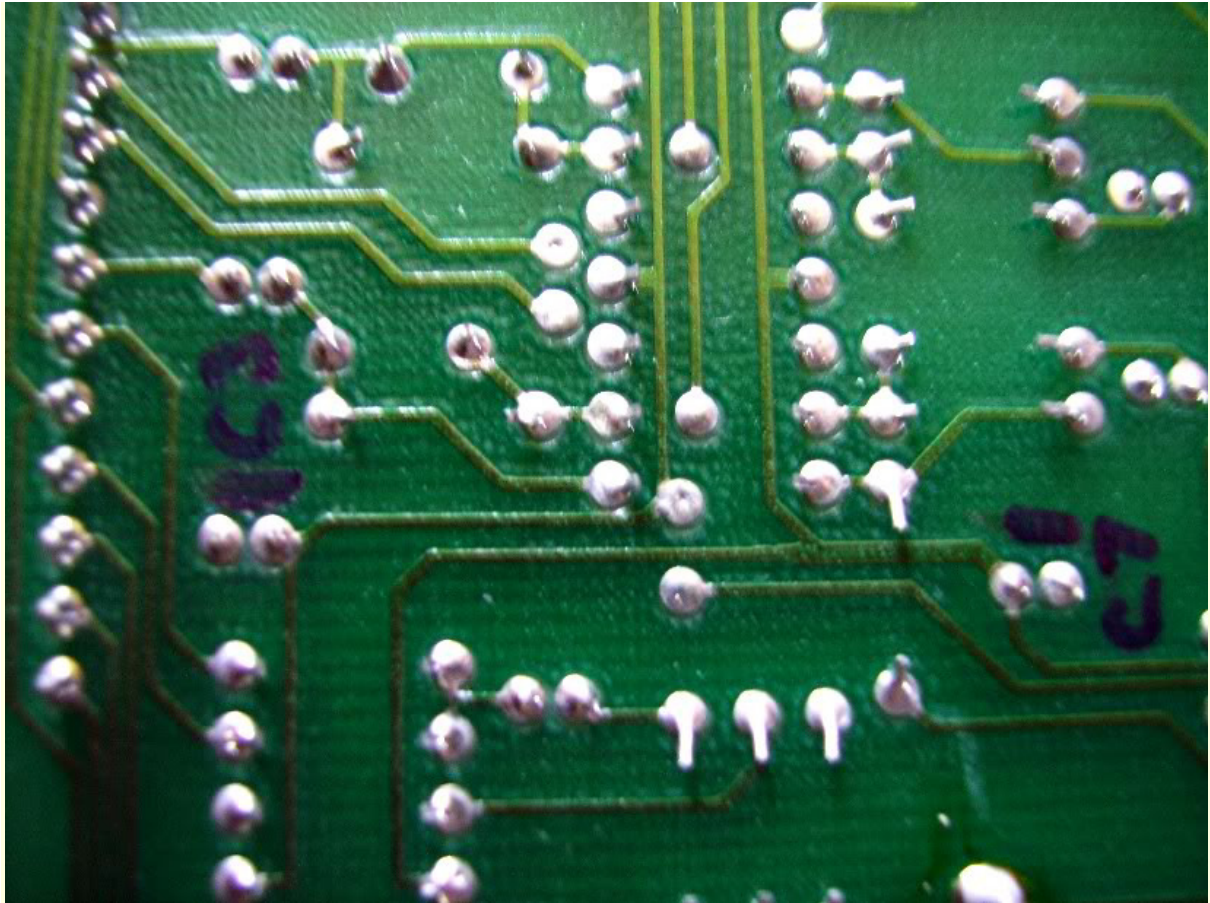
Hi All,

I have just modified my Quadverb Plus, Capacitors C3 and C7 are the ones that I changed for this model following Johans advice. I can confirm that this mod makes a significant difference to the noise level. Many thanks again Johan for your sharing this mod. I found that a desoldering wick was essential to get the capacitors out.

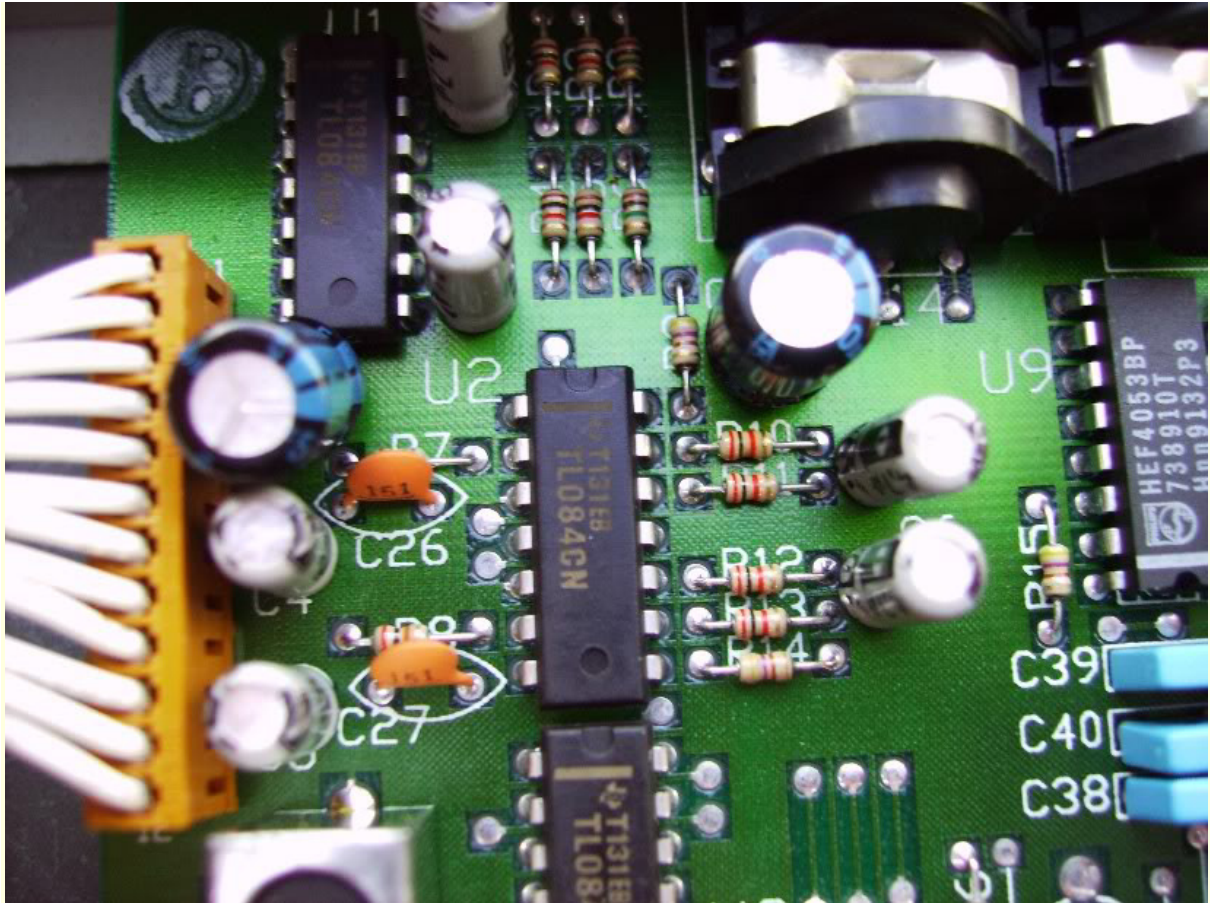
I took a few pics to show graphically where these little beasts are 😊 ...



Capacitor Location



Rear of Circuit Board showing the 4 pins to be de-soldered



Showing the New Capacitors Installed