

Following the big-C_rework_SOP_rc2, this is how I applied the fix.

I used 31swg tinned copperwire (I meant to use 35swg but I picked up the wrong spool. The thinner 35swg would be better. I will post a picture of the tools I used later. The important ones were a weller esd FE50M with a 0.4mm tip (PTS7), a long arm binocular viewer (like this <http://url.ie/1deq>). I used 32swg 62S solder and some future 315 flux (the msds states it is 98% propan-2-ol or IPA in old terms, with activators). To desolder I used 1.5mm braid (dipped in flux).

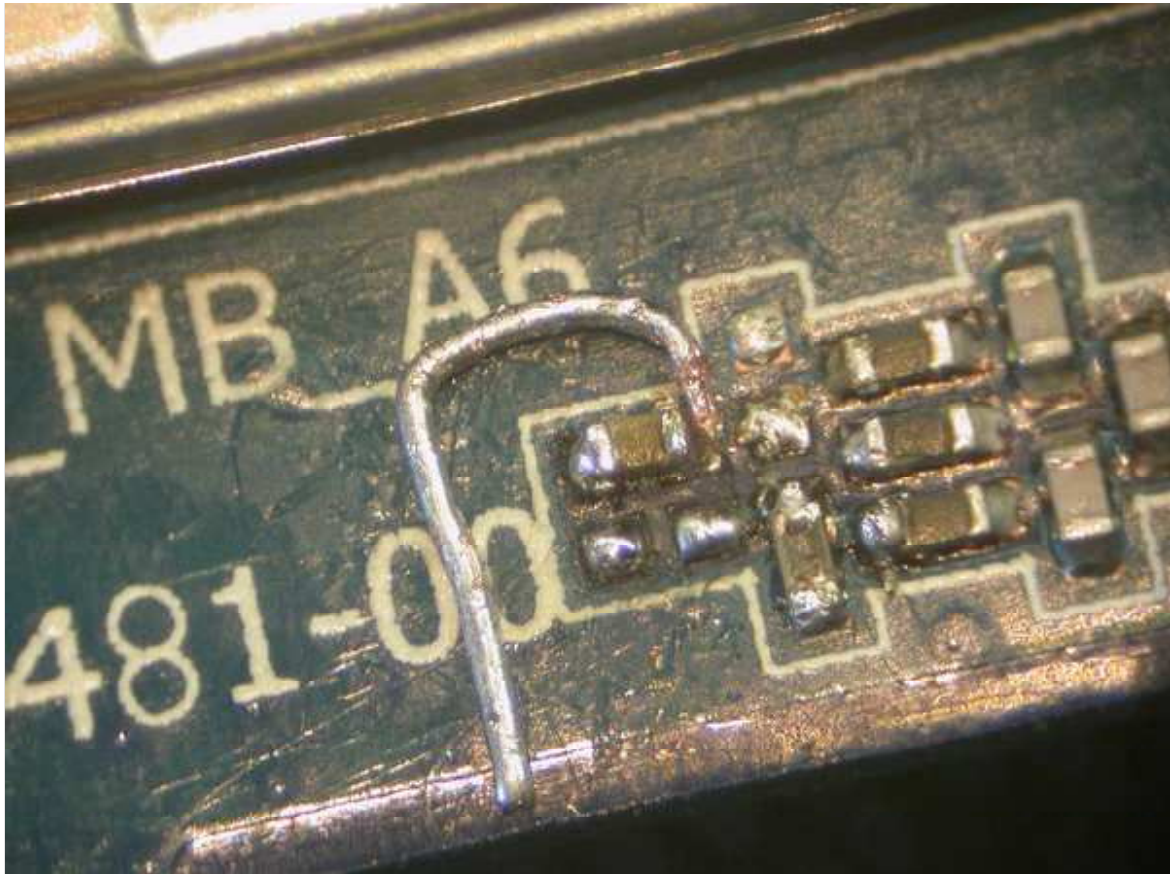
I photographed the work through the binocular viewer (low powered 10x microscope).

The smallest 100 μ F cap I could find was <http://url.ie/1dev> (though now I see a 4V one which I hadn't before <http://url.ie/1dew>).

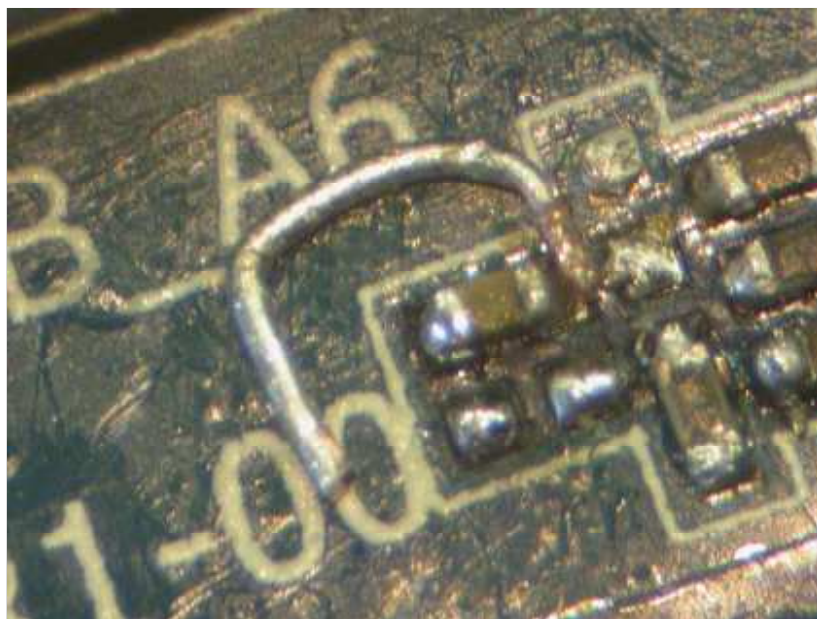
I probed R4303 and found it was 2k2 Ω



I cut a piece of wire and bent it to be as short as possible, bearing in mind it was the wrong thickness it could likely be made shorter.



I then cut it to fit (I dropped the wire more than once so if the piece of wire changes in the next pictures that is why)



You will notice a missing capacitor C4303 that is because I bridged it with C4304 and ran the iron between the two to remove the bridge. This action accidentally removed C4303 and damaged it, I had to buy a replacement. A 0.4mm tip might seem like a small size but when dealing with form factor 0402 (1x0.5x0.25)mm it can be a little awkward (especially if you have a shaky hand).

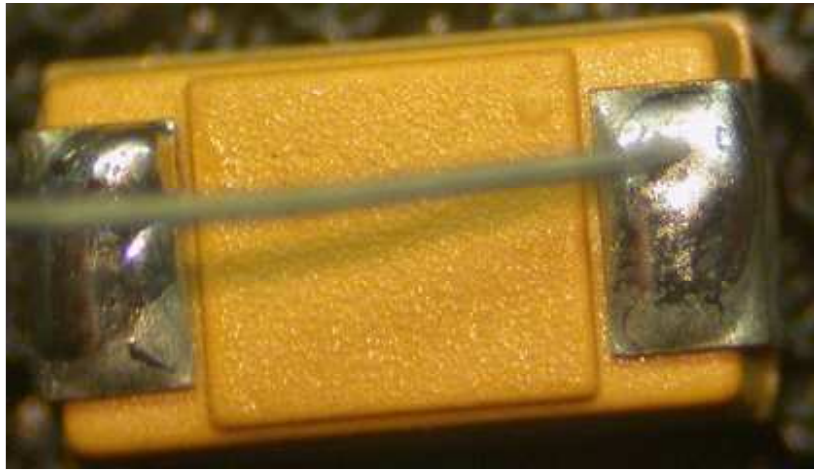
I decided to solder the wire to C4304 first and then place the 100 μ F cap on. This worked OK without melting the solder on C4304 when soldering on the 100 μ F cap.



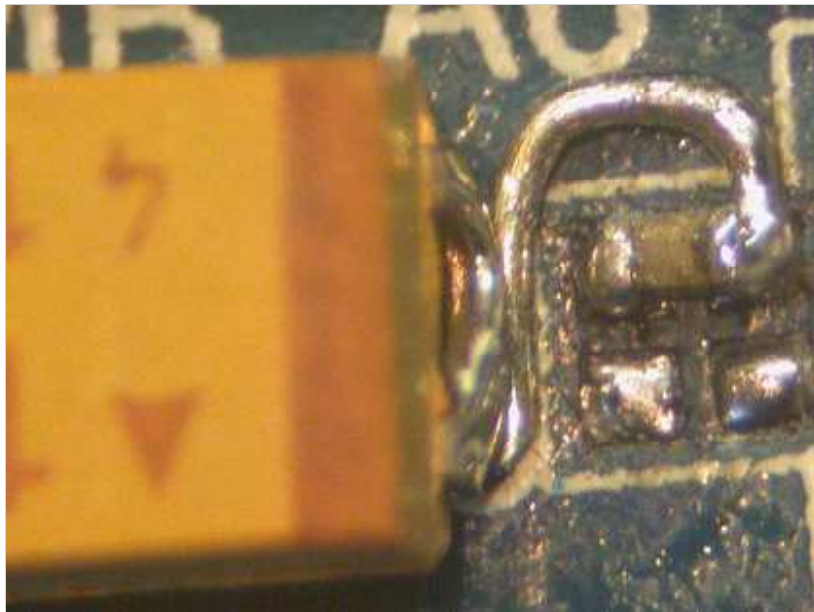
Next I placed the 100 μ F cap and marked where I should scratch off the paint on the motherboard. On these tant caps the +ve side (anode) has the line, as per the datasheet (see above link*)



I tinned the pads on the cap, though I'm not sure if this is necessary, I'd recommend only a little.



I soldered the anode first, this meant I wouldn't have to adjust the wire link.



The above joint was ok but from above it doesn't look like it has made contact, below I tidied it up. And replaced C4303. I desoldered the pads on the motherboard before replacing it



The case fits. So far I've had no complaints about the buzz, **but my voice is very low on calls.** :(Though I can't be sure it wasn't before, I know there are posts on this topic so I will read them next



I can put this on the wiki as a link if it helps. Use any part of it as you wish.

The photos are here sequential from C1 to C12 <http://anyotherkey.googlepages.com/c1.jpg>

