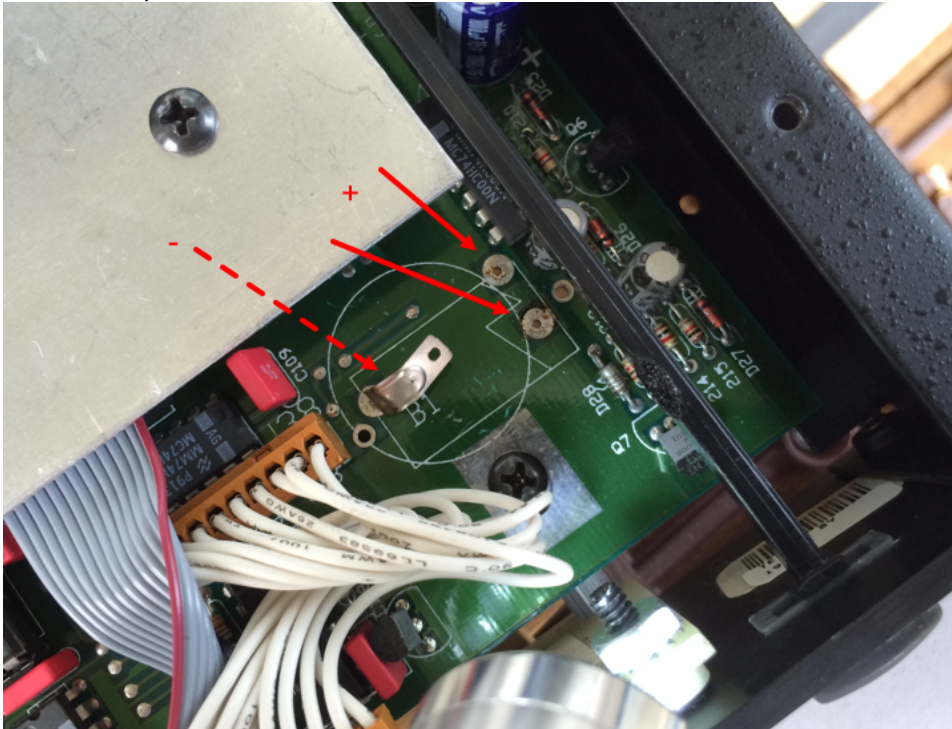


Fixing an ALESIS QuadraVerb GT for easy battery replacement

I have removed the old battery by taking it entirely out. I removed first all solder as much as possible and then pulled the old battery out). This picture shows the place where the old battery was soldered to the circuit board.

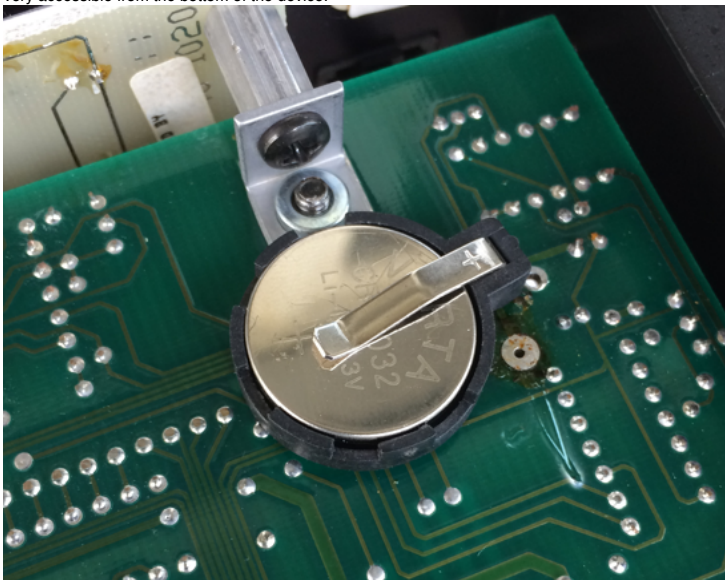


The circle corresponds roughly to the size of the old battery. To the left is the prong (minus pole, broken red arrow) having been attached to the old battery's bottom. This prong's pin is still soldered to the circuit board. The larger prong (positive pole, two red arrows) had 2 pins (now empty holes to the right of the circle) and was soldered to the top of the old battery. This design is awful and it is very cumbersome to replace a battery. I decided to change that.

The old battery was an original battery according to ALESIS specifications, i.e. a poly-carbonmonofluoride Lithium Coin 3V battery of type BR2325. Mr. Loser from Pusterla, a very experienced electronics expert, checked it out and told me that I could easily also just use one of the more common CR batteries instead and I chose a CR2032 lithium battery (3V) and a fitting holder similar to the following picture



I was lucky, the holder's two pins fit precisely into two holes of the three ones holding the old battery. The circuit board also connects the two positive pole holes, making it possible to use a two pin battery holder. To make a future change of the battery even easier I soldered the battery holder to the other side of the circuit board where it is very accessible from the bottom of the device:





The following shows the soldering of the new battery holder seen from the top of the circuit board with the minus pole pin soldered to the same solder joint as previously the old battery's negative pole was soldered and the plus pole pin of the holder soldered to the frontmost of the two solder joints:



Unfortunately the QuadraVerb GT manual describes only restoring the 90 presets, which did not restore the entire memory, notably not the programs 90-99 ("BLANK PROGRAM"). A full factory reset is nowhere described in that manual. On the internet (<http://www.dlse.nl/synthrepair/reset.html>) I found then the needed instructions, which are press BYPASS and PROG while powering on the unit. I needed to do that several times to fully restore all of QuadraVerb GT's functions, since first only one "BLANK PROGRAM", i.e. program 90, was becoming available. After several full resets all appears to have resumed to normal operation. I later learned from a forum 'Quadraverb GT - Can't upload EFTP patches | Charlie Hall & Friends' that one needs to keep those two buttons BYPASS and PROG pressed for a long time during startup, i.e. until message 'BASIC PROGRAM' appears ("... Press and hold both the PROGRAM and BYPASS buttons while switching on the GT. When the opening message has changed to BASIC PROGRAM, release the 2 buttons. ..."). The reset is then performed fully reliable when following this instruction.

The QuadraVerb GT works now fully and very reliably with the new battery holder using the CR2032 battery. Changing that battery again will be a piece of cake and requires merely to remove the bottom plate of the QuadraVerb GT and a small screwdriver to lift the old battery from the holder and pulling it out and pushing the new one back into the holder until it snaps into place. No more any soldering to circuit board at an even crammed place!

af, 14.Aug.2015