

disclaimer

fyi: i will not use capital letter and i will also not apologize for my real crappy english and typo! if it's bothering you: don't read. this document is the 2nd of its kind. the first one is in german and very obsolete.

how to run a c64 with batteries

this page is about building my 2nd c64 laptop, this time with a 40x4 lcd screen and a nicd akku pack. the first one is still in usage and running with a video display and a lead akku. if you are interested, i can send you details. just email me, my adress is at the bottom of this page.



the part "how to insert a 40x4 display in my c64" is very well described on n. coplins hp: look at www.64hdd.com

what do we need?

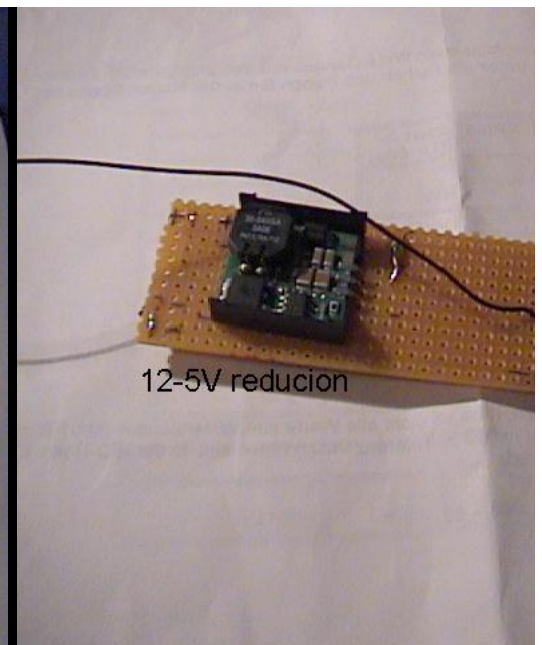
partlist:

- some resistors (some pence)
- an step down switch regulator 12 - 5 v (ether buy a complete solution (30\$) or build it yourself (15\$))
- a ne555 chip (some pence)
- 2 battery packs each having 5 1.2 v nicd (price depends on capacity- i assume 20\$)
- connectors and stuff ~5\$
- a batterycharger or whatever "ladegerät" is in your language (10\$)

for my purpose i wanted also an sound amplifier (will add 8\$)

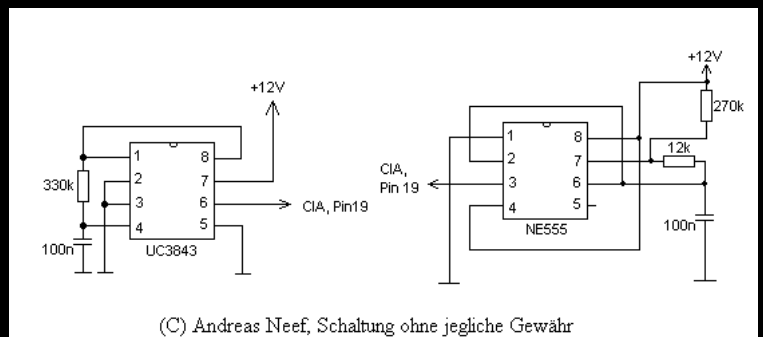
all in all we are at 50\$

now lets begin: first we have to solder a socalled tod clicker.



originally the c64 gets clocked by the 50 hz of the main power net
as we use batteries and dc power we need to generate this
clocking with the following switching:

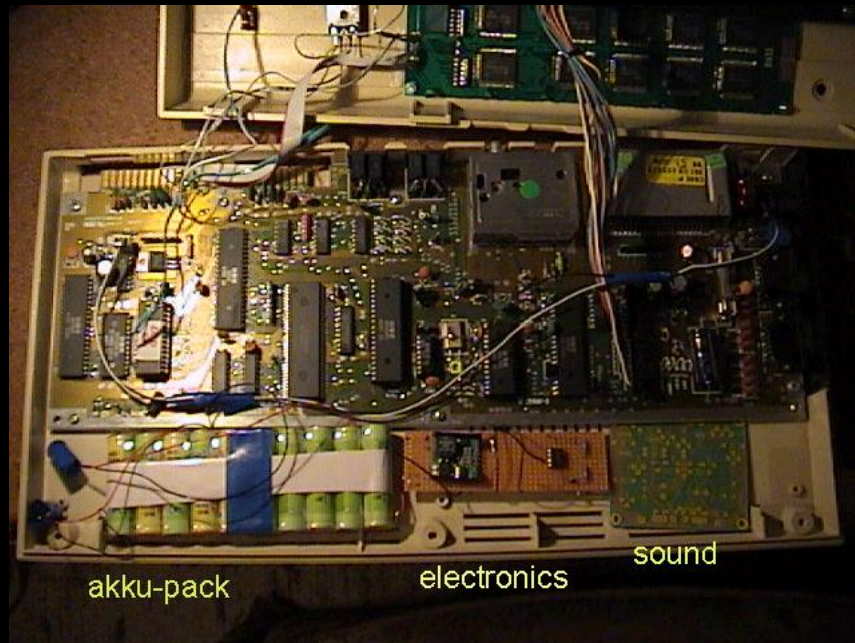
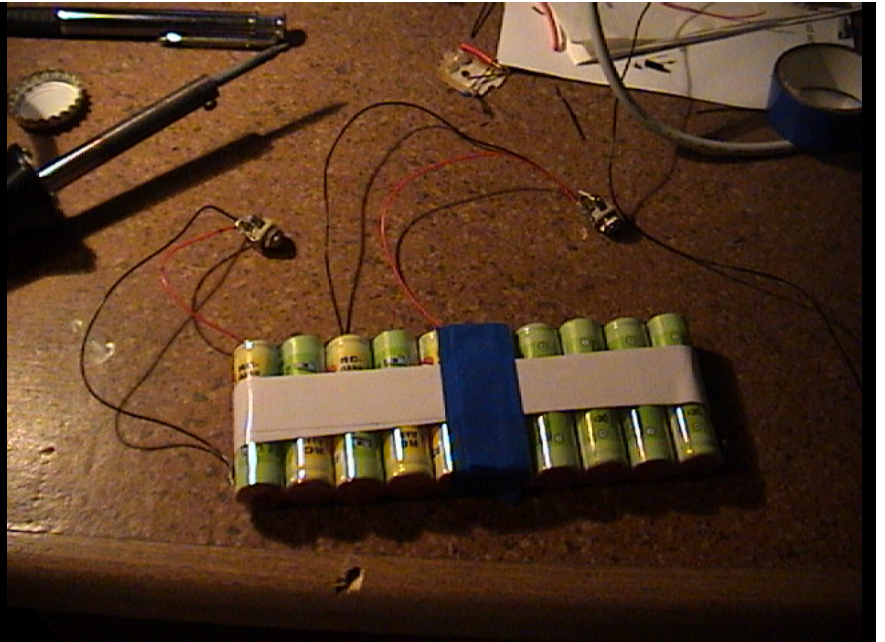
for current reduction i recommend a "step down switch
regulator", which works with an efficiency of about 85%. this
prevents too much heat and power waste.
also place it on the little board we use



also the c64 is normally driven by 9v ac which gets converted into 12 v dc internally.
we cannot use the power connector to supply our beloved mashine with juice, we have to set it to some points on the motherboard.
where exactly is very well described on ilkers pages:

http://cbm.ficilar.name.tr/sayfa/c64c_with_pc_power_supply.html

as there are only 6V batterychargers really cheap i chose to insert 2 charging points: 1 for the first pack. one for the 2nd. i soldered the 2 packs up and taped them that nothing can crack them up.



on this pic you can see how things will be arranged in the c64 case (in some days)

13.10.2005

today i added a **colorchanging** led to my unique master(hit)piece: [watch the video](#)

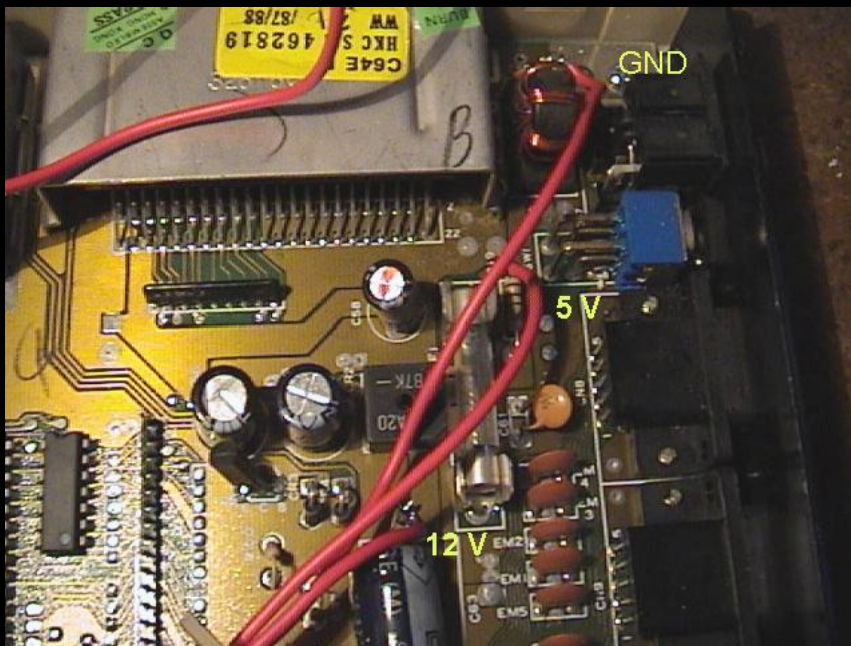
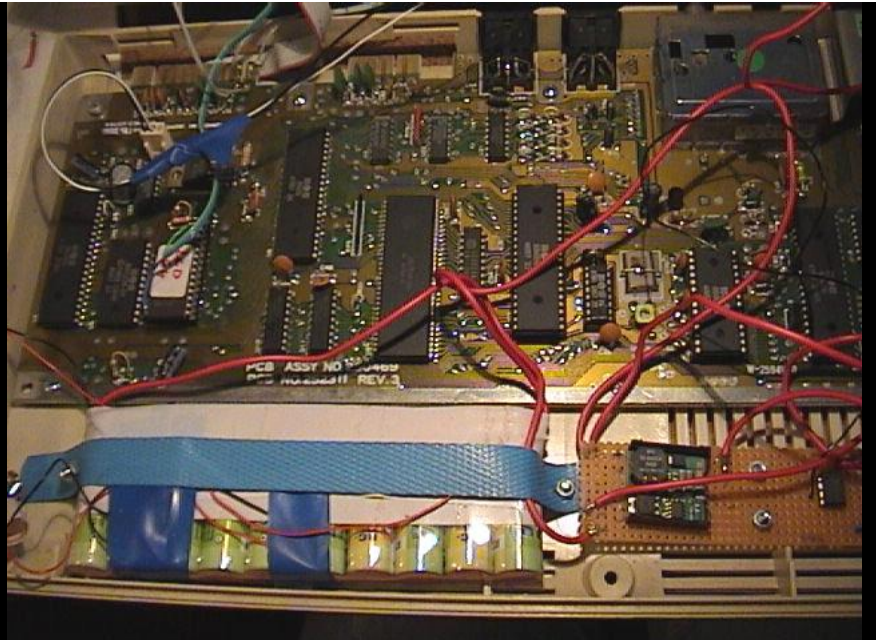
big update

22.10.05

today i added the akkus :)

look yourself.

everything arranged. the battery packs, and the (small) electronic part. (the amplifier will follow I8r)



the points where the currents have to be set: from top
2 bottom: gnd, 5v, 12v

i was really happy when i first turned on:...

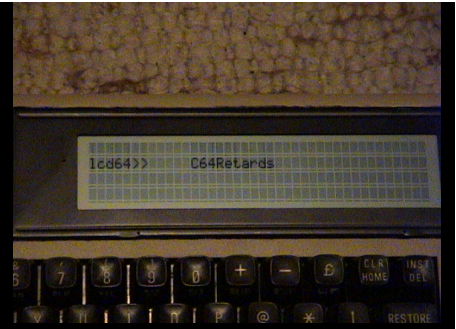


see? no power cord!



last and final update!

after 1 whole year i am ready. the sound amplifier is build in, the sound quality is amazing! i added the 2nd poti for volume control and the cinch-connector to plug the external speaker.
another piece for my glass cabinet :)



project by n. andreas (masterhit)
contact info: webmaster (at) samen-andreas (dot) de