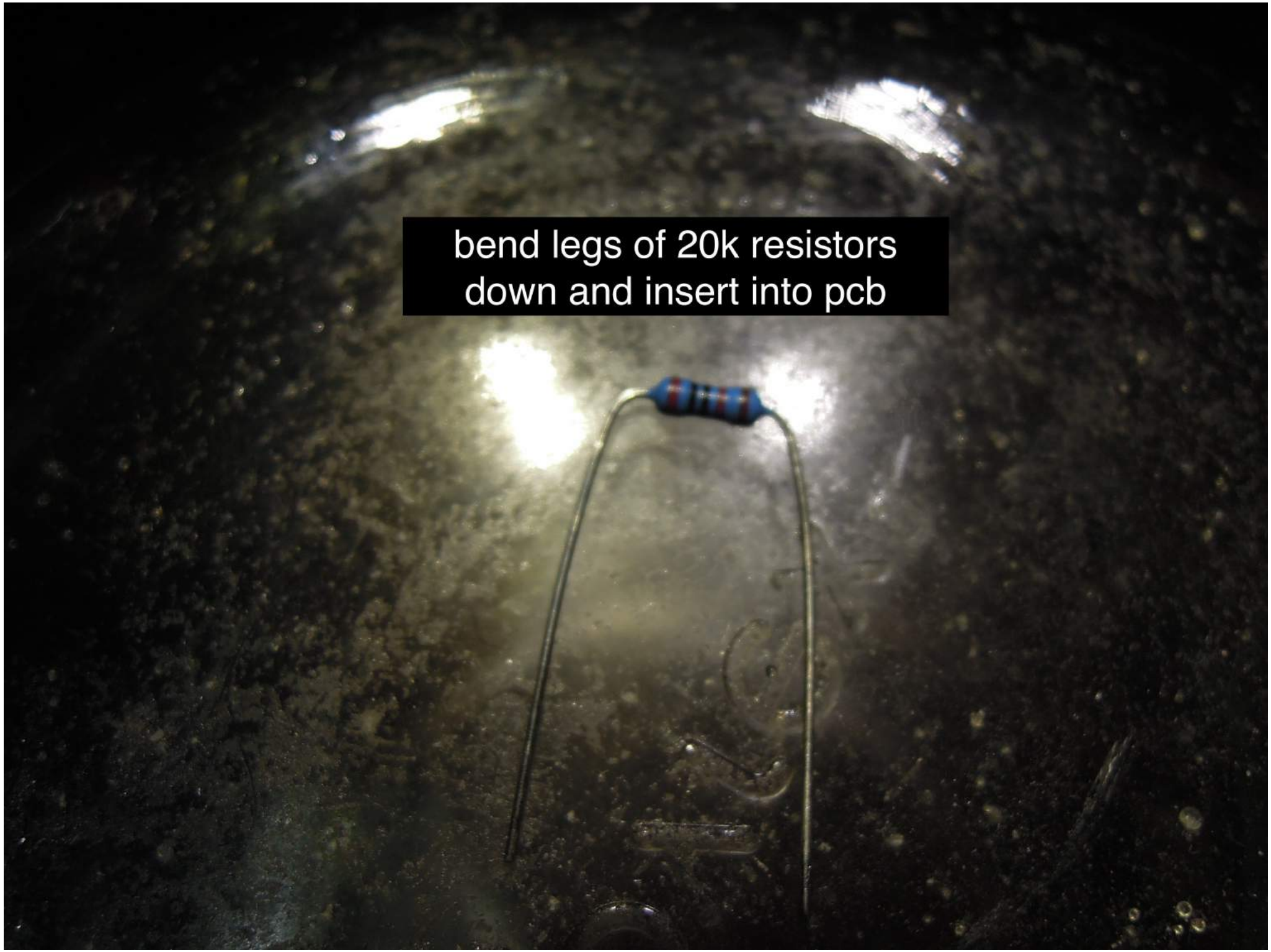
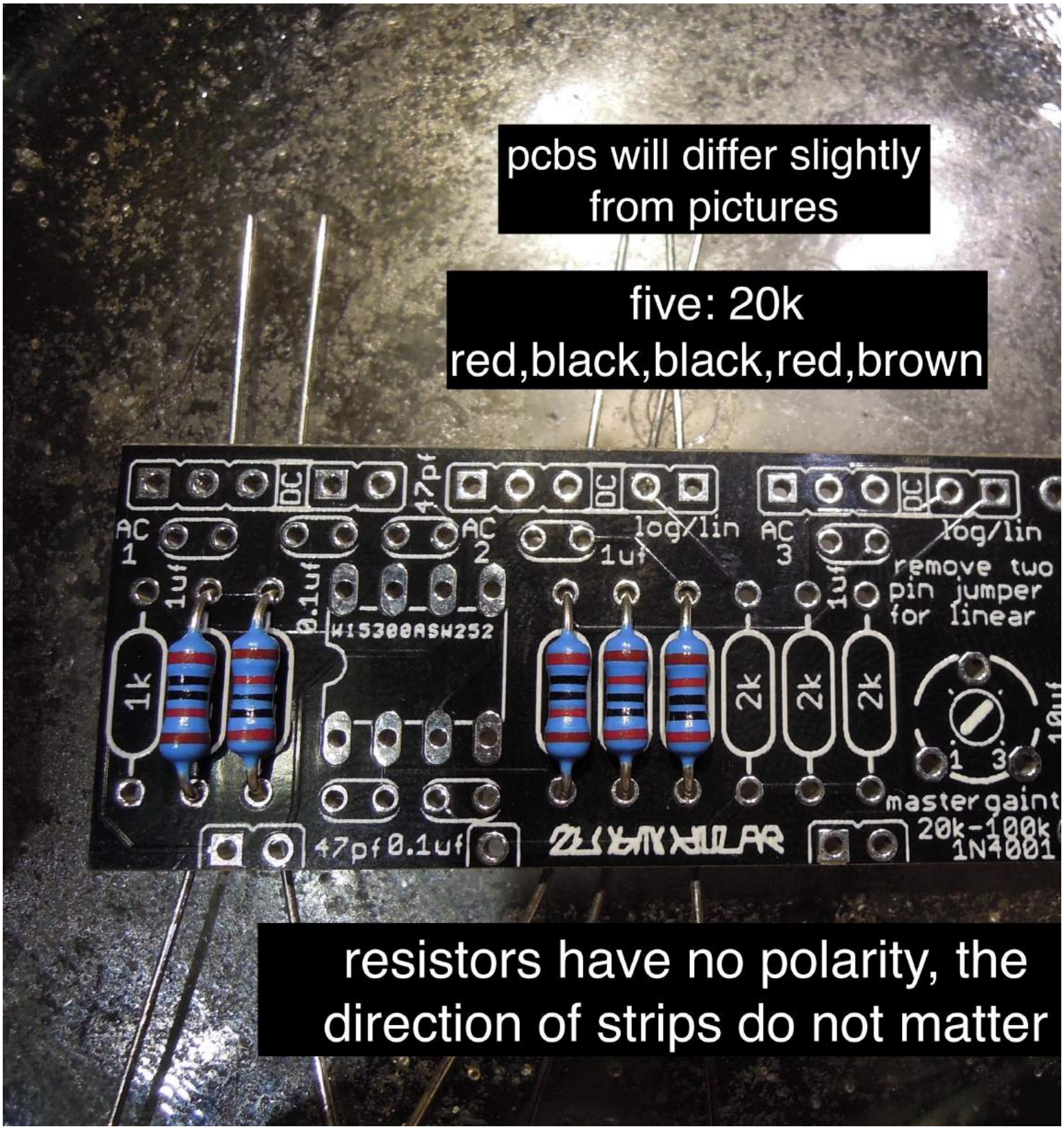
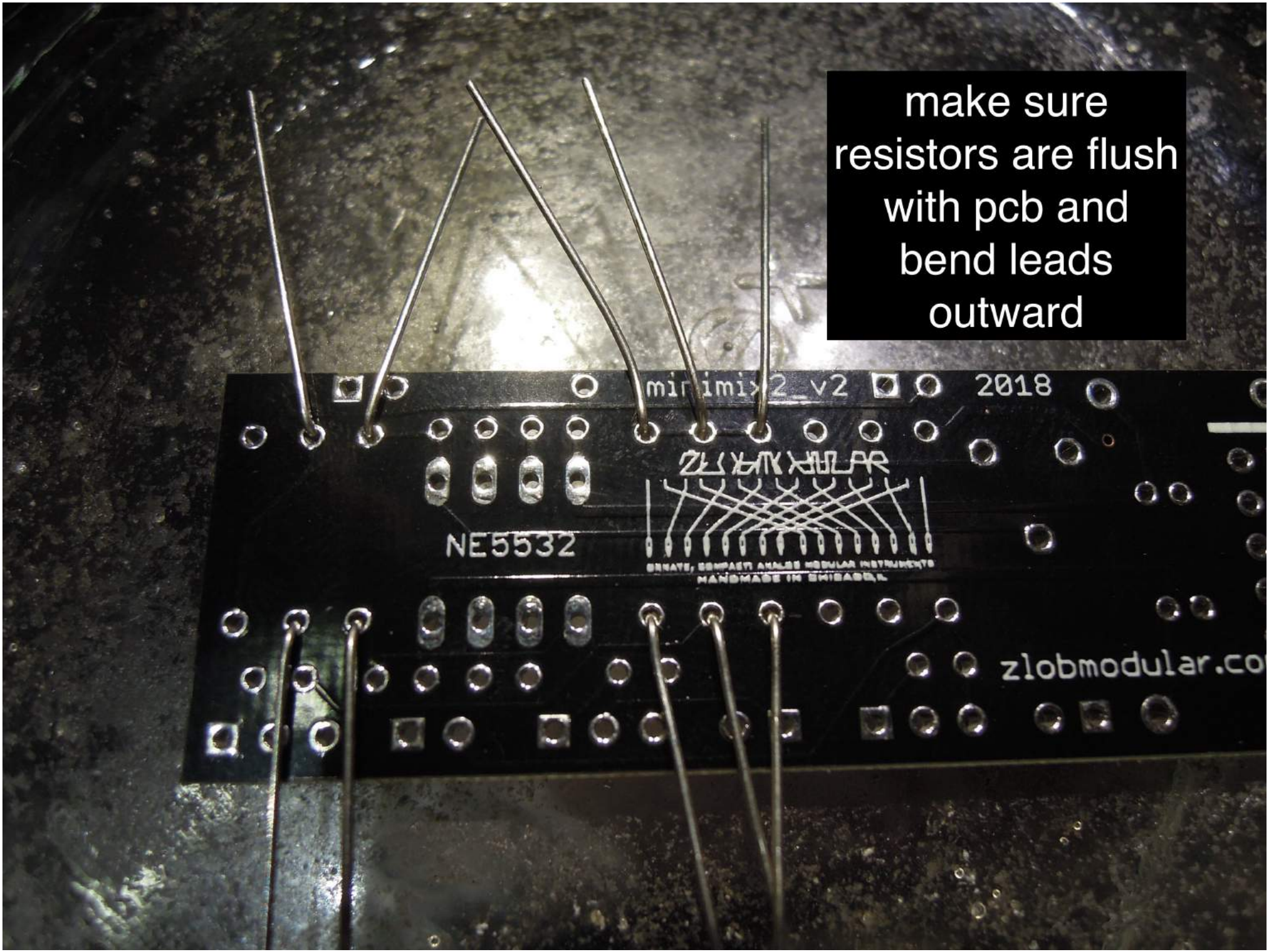

bend legs of 20k resistors
down and insert into pcb


pcbs will differ slightly from pictures
five: 20k red,black,black,red,brown
AC 1
AC 2
AC 3
log/lin
log/lin
remove two pin jumper for linear
1k
2k
2k
2k
1 3
master gaint
20k-100k
1N4001
47pf 0.1uf
resistors have no polarity, the direction of strips do not matter


make sure resistors are flush with pcb and bend leads outward
2018
NE5532
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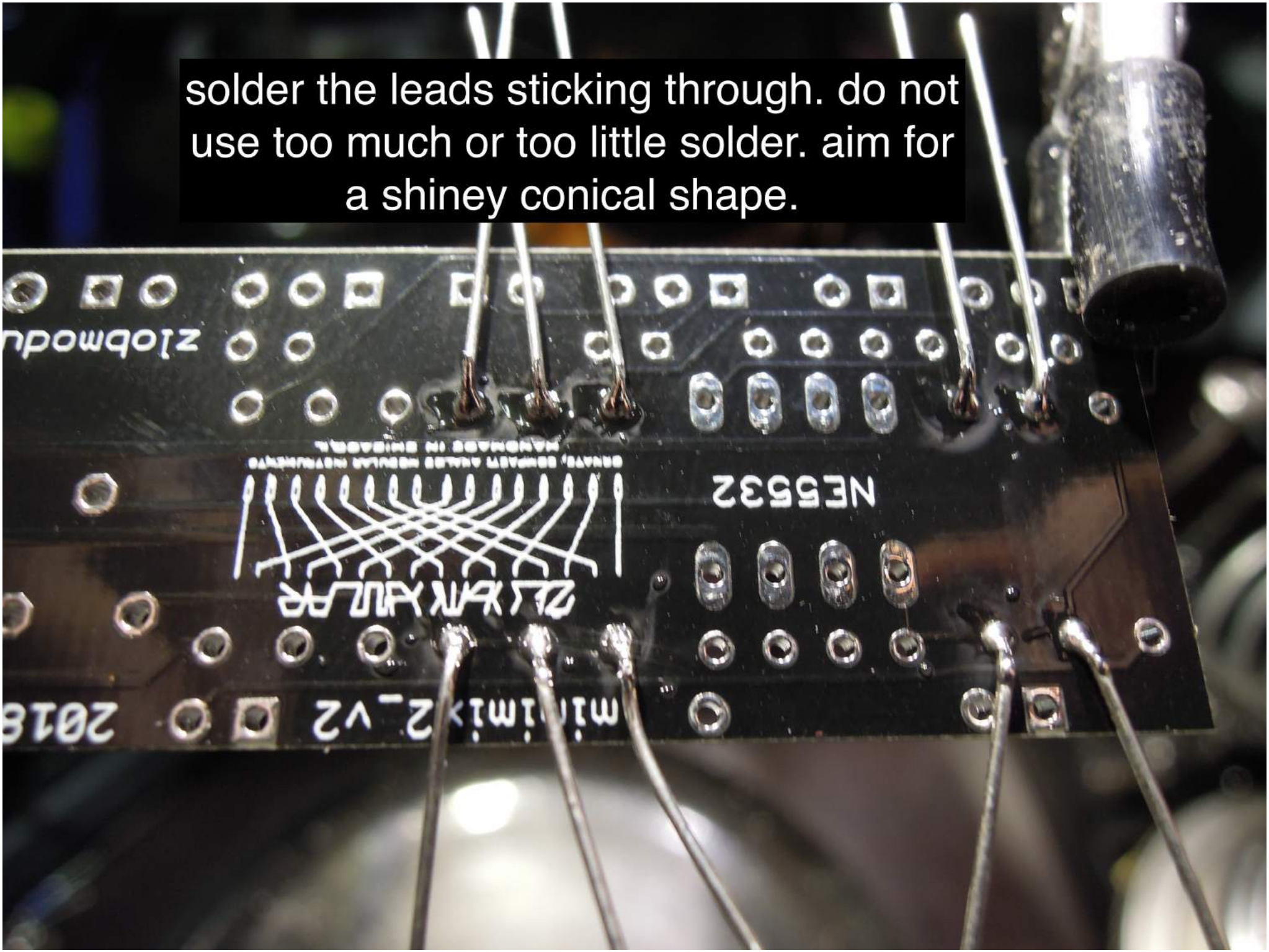
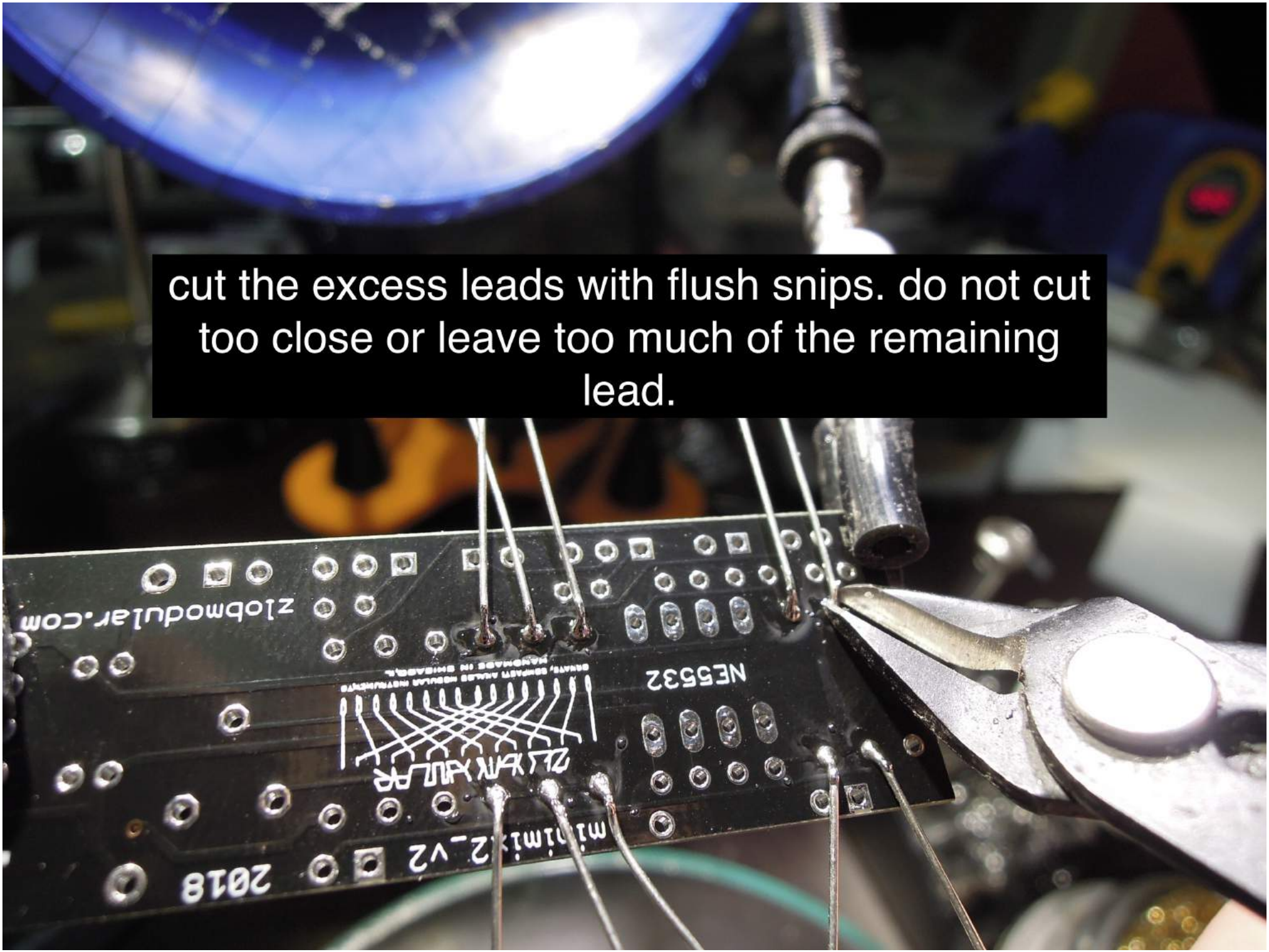
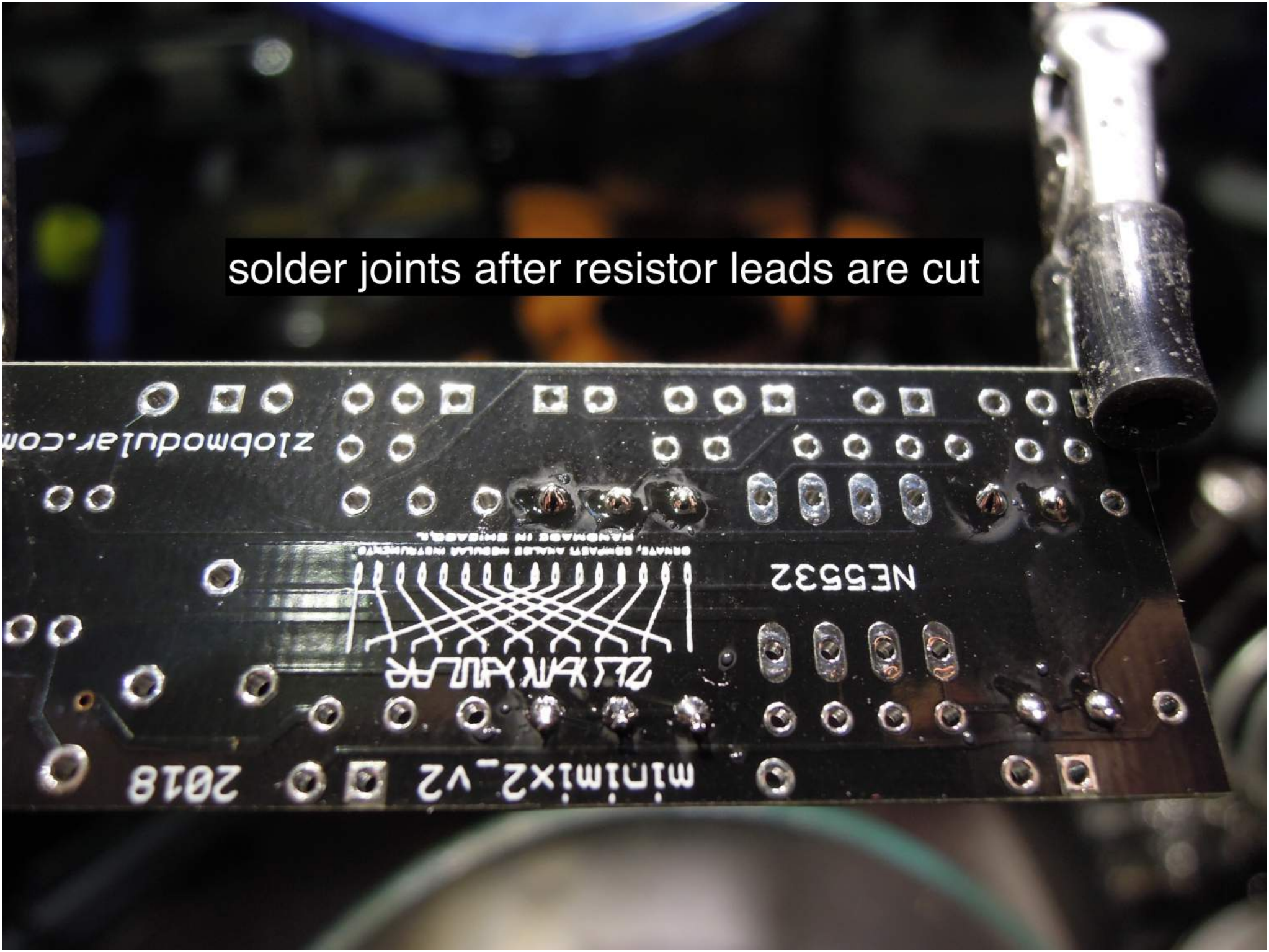

solder the leads sticking through. do not use too much or too little solder. aim for a shiney conical shape.


cut the excess leads with flush snips. do not cut too close or leave too much of the remaining lead.


solder joints after resistor leads are cut
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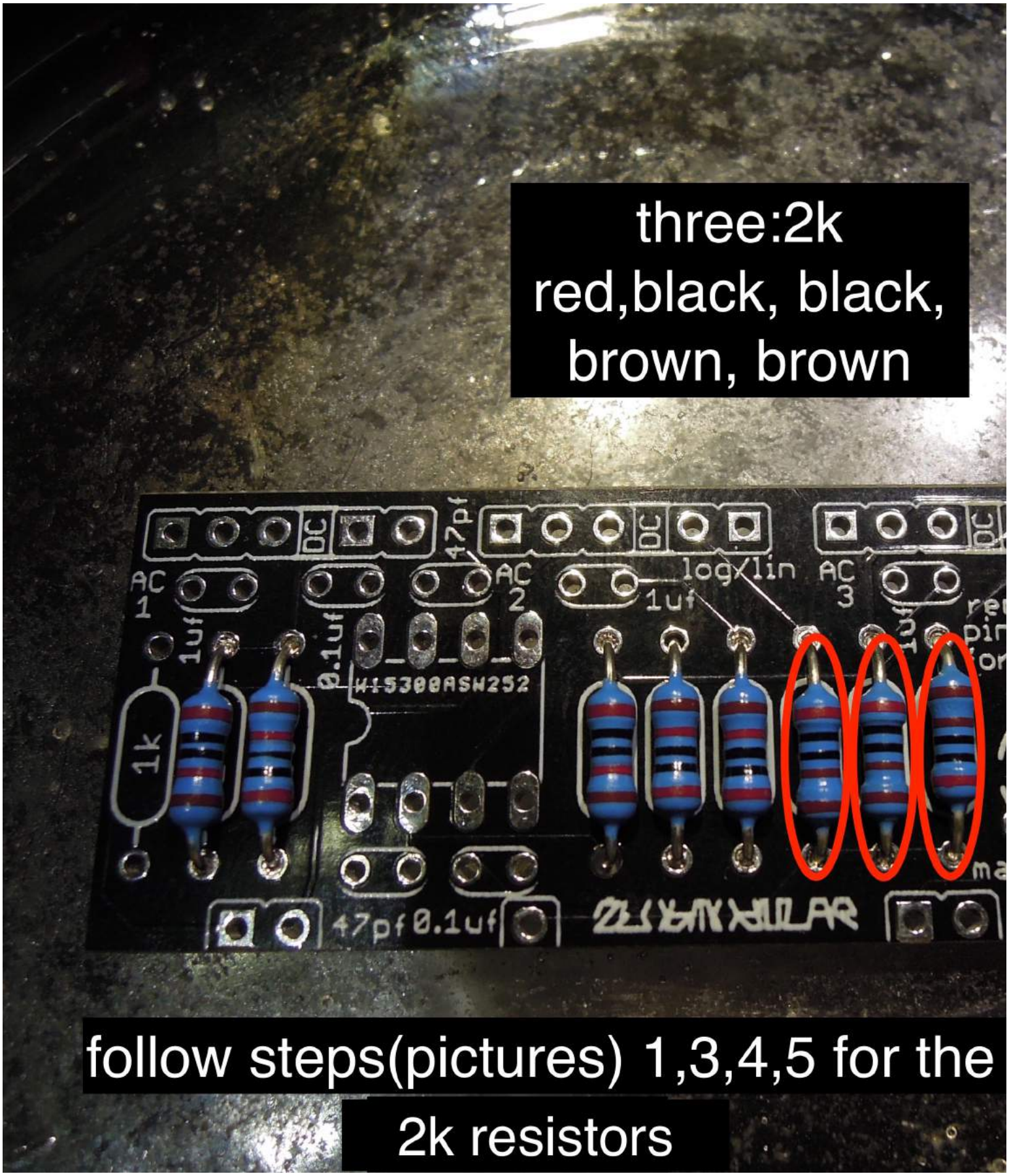
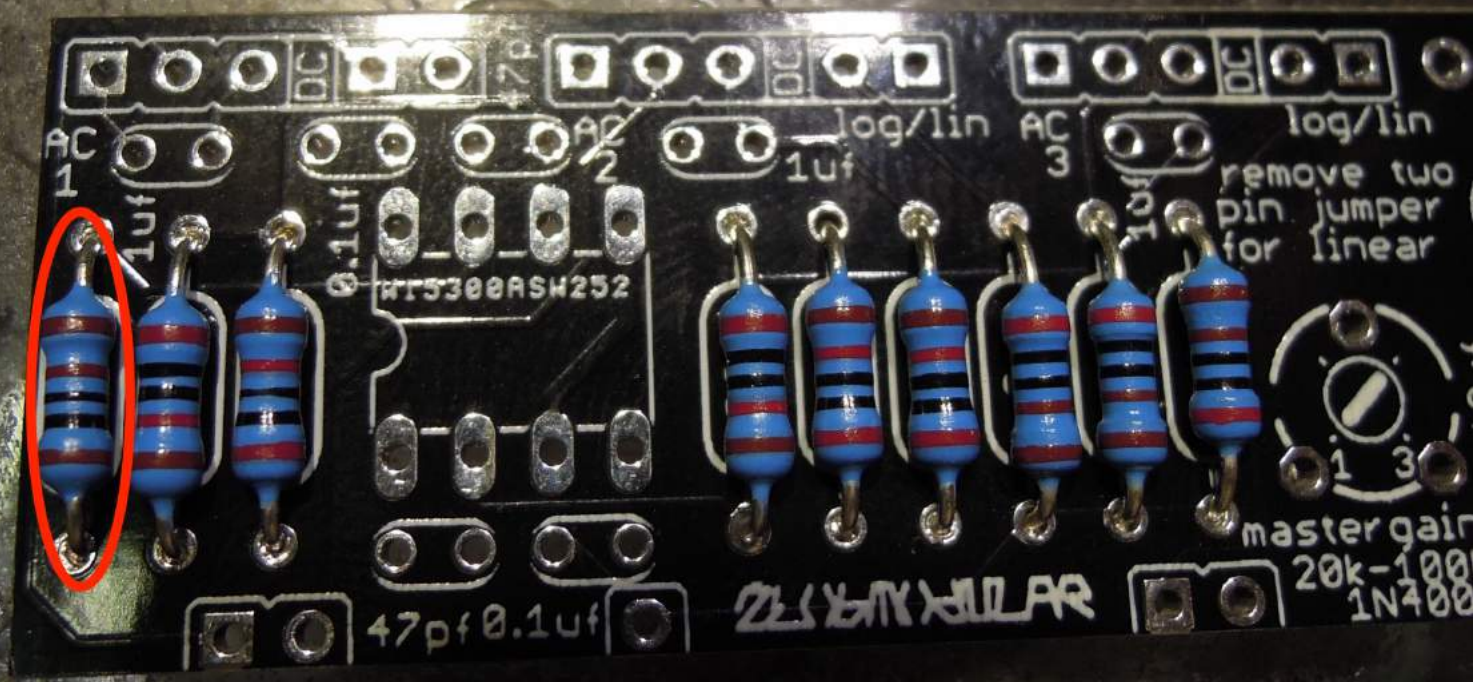
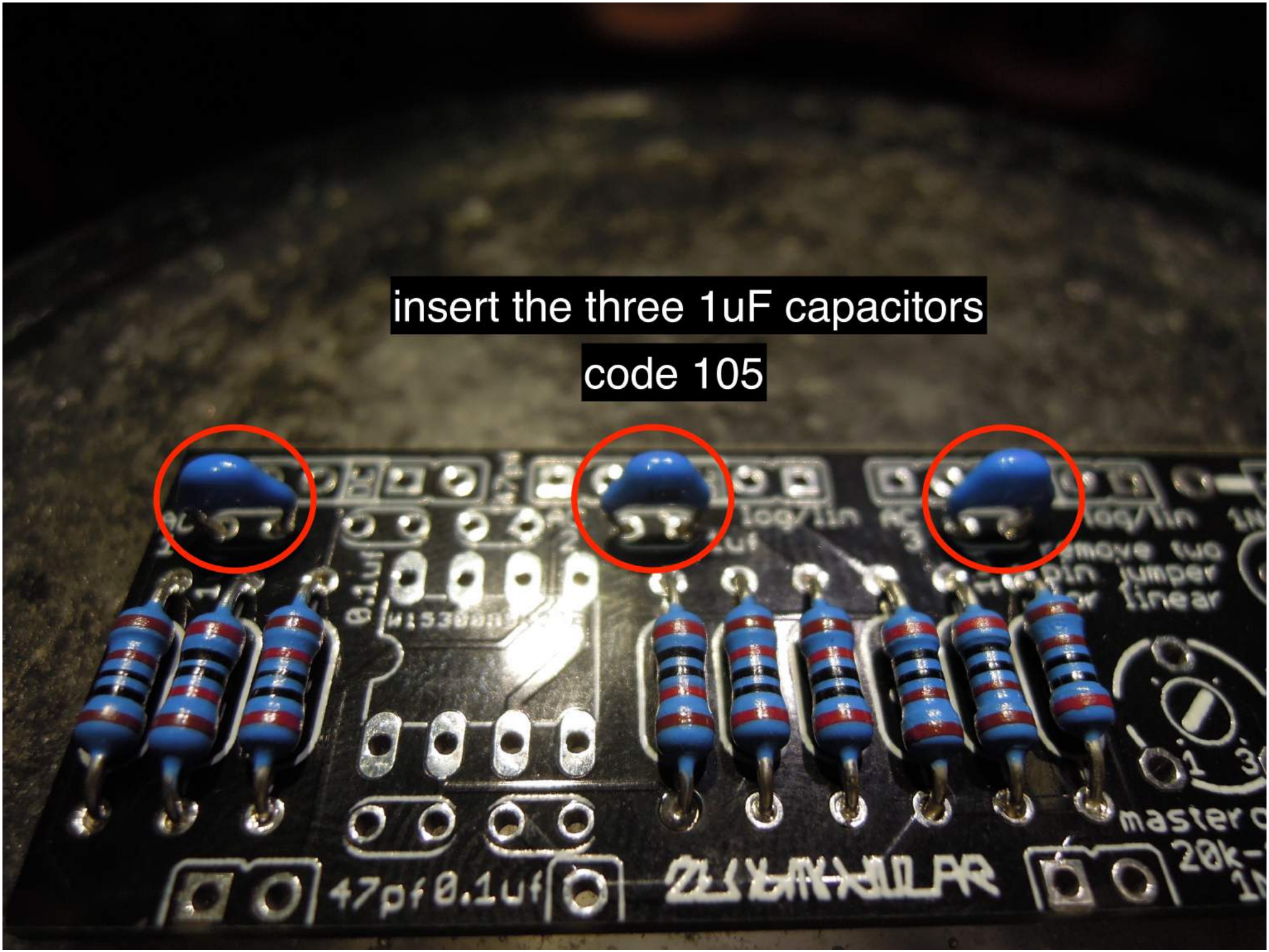
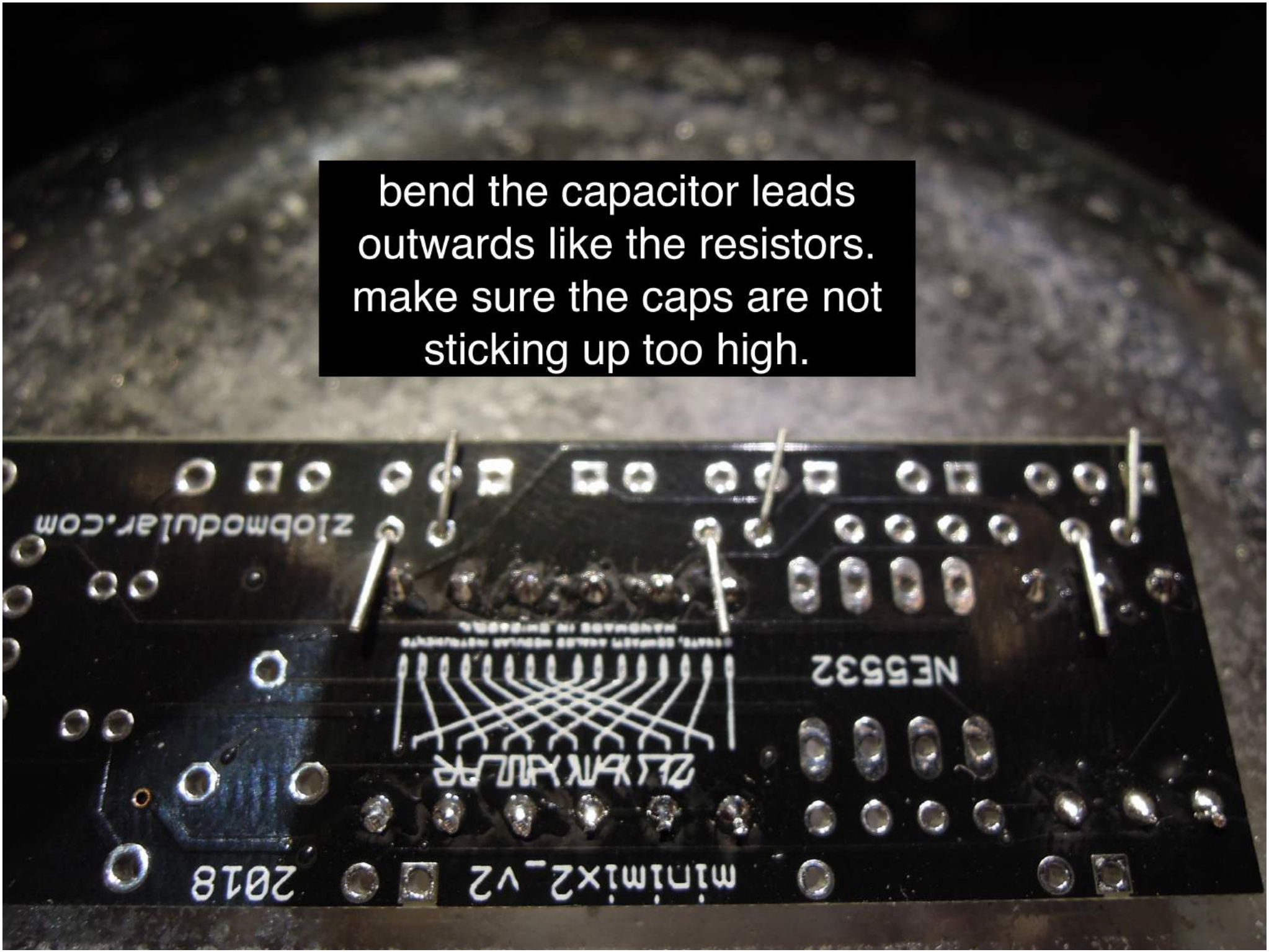

three:2k
red,black, black,
brown, brown
AC 1
1uf
1k
0.1uf
47pf
AC 2
log/lin
1uf
AC 3
47pf 0.1uf
follow steps(pictures) 1,3,4,5 for the
2k resistors

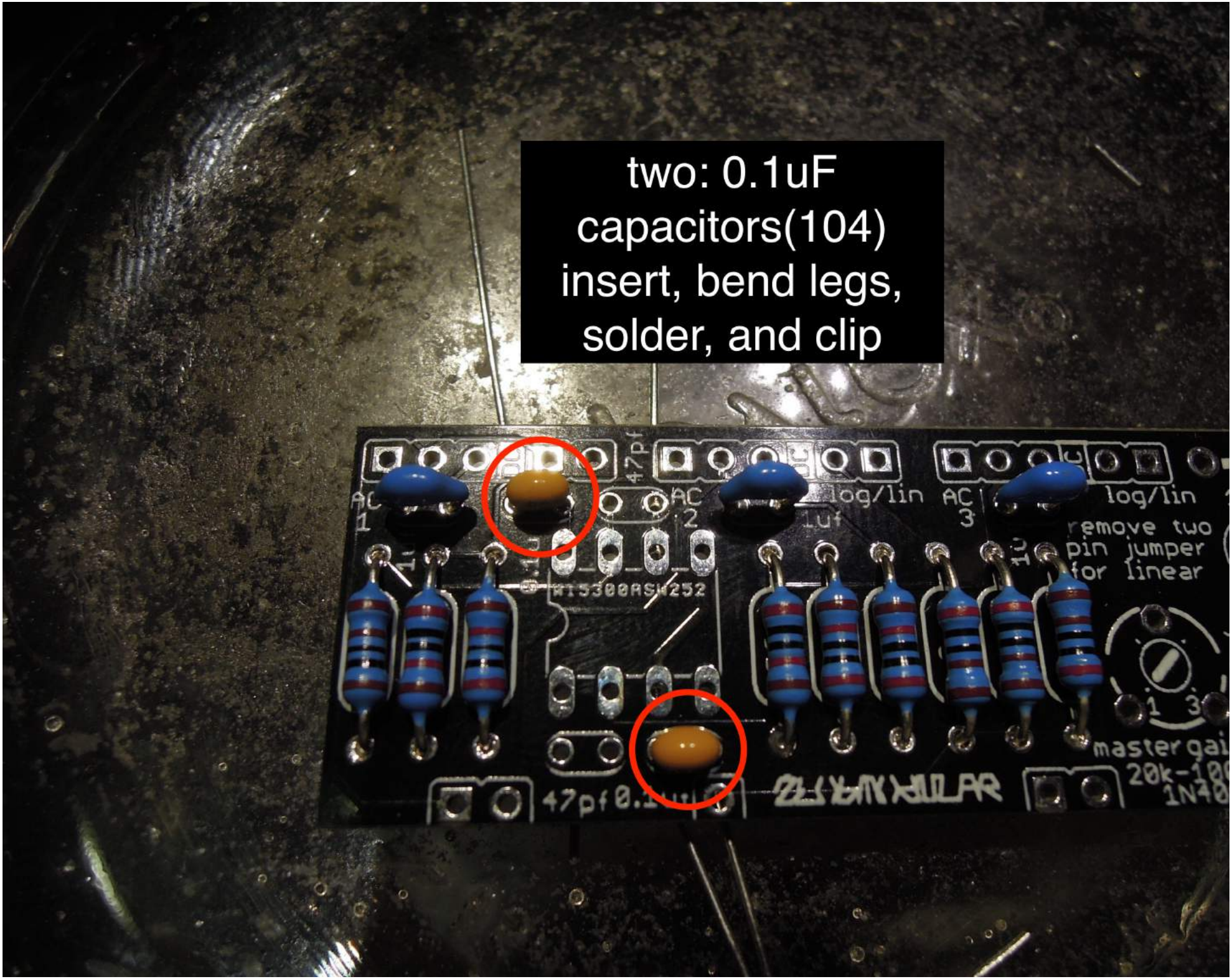
one: 1k
brown,black,black,brown,brown

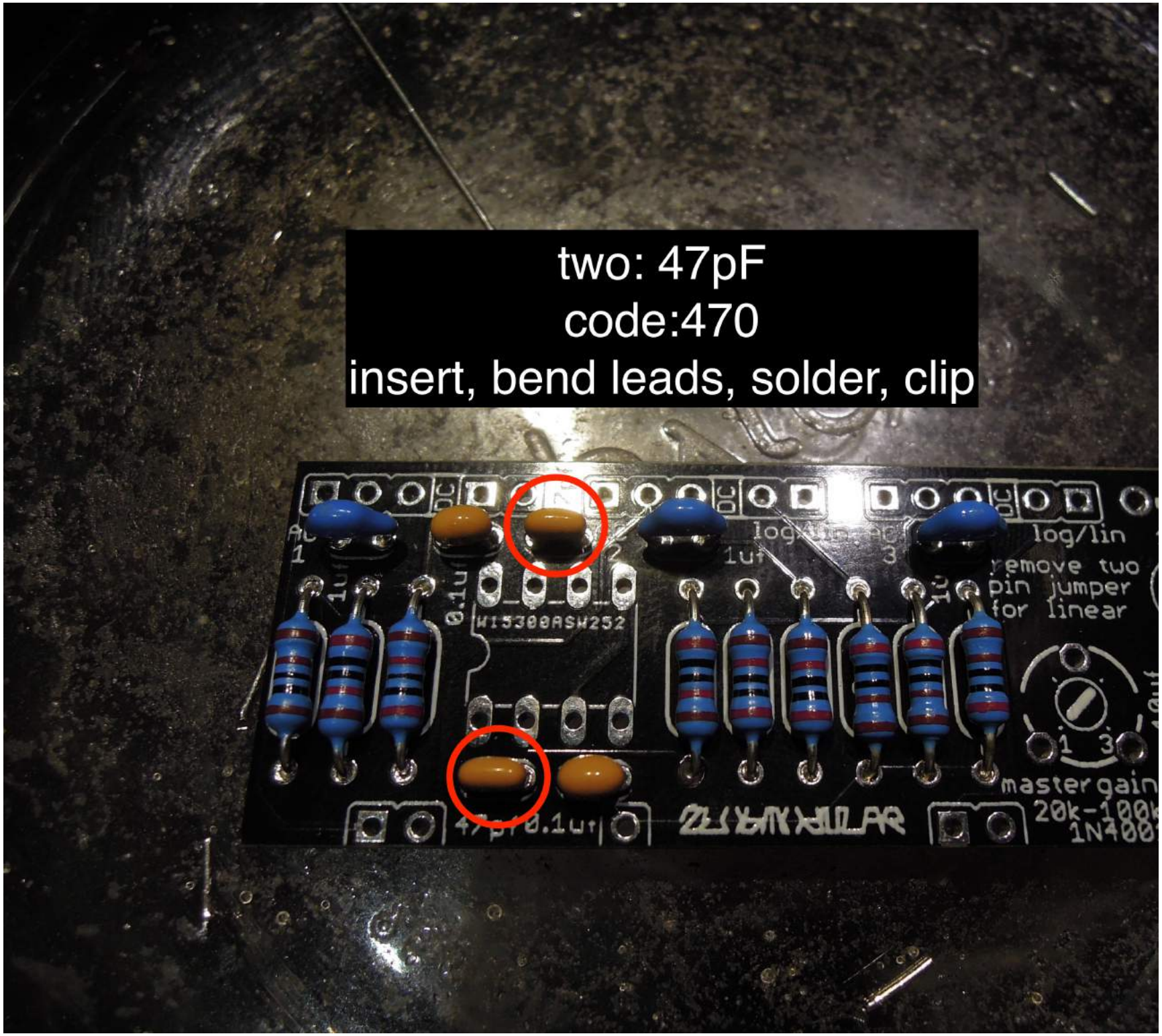


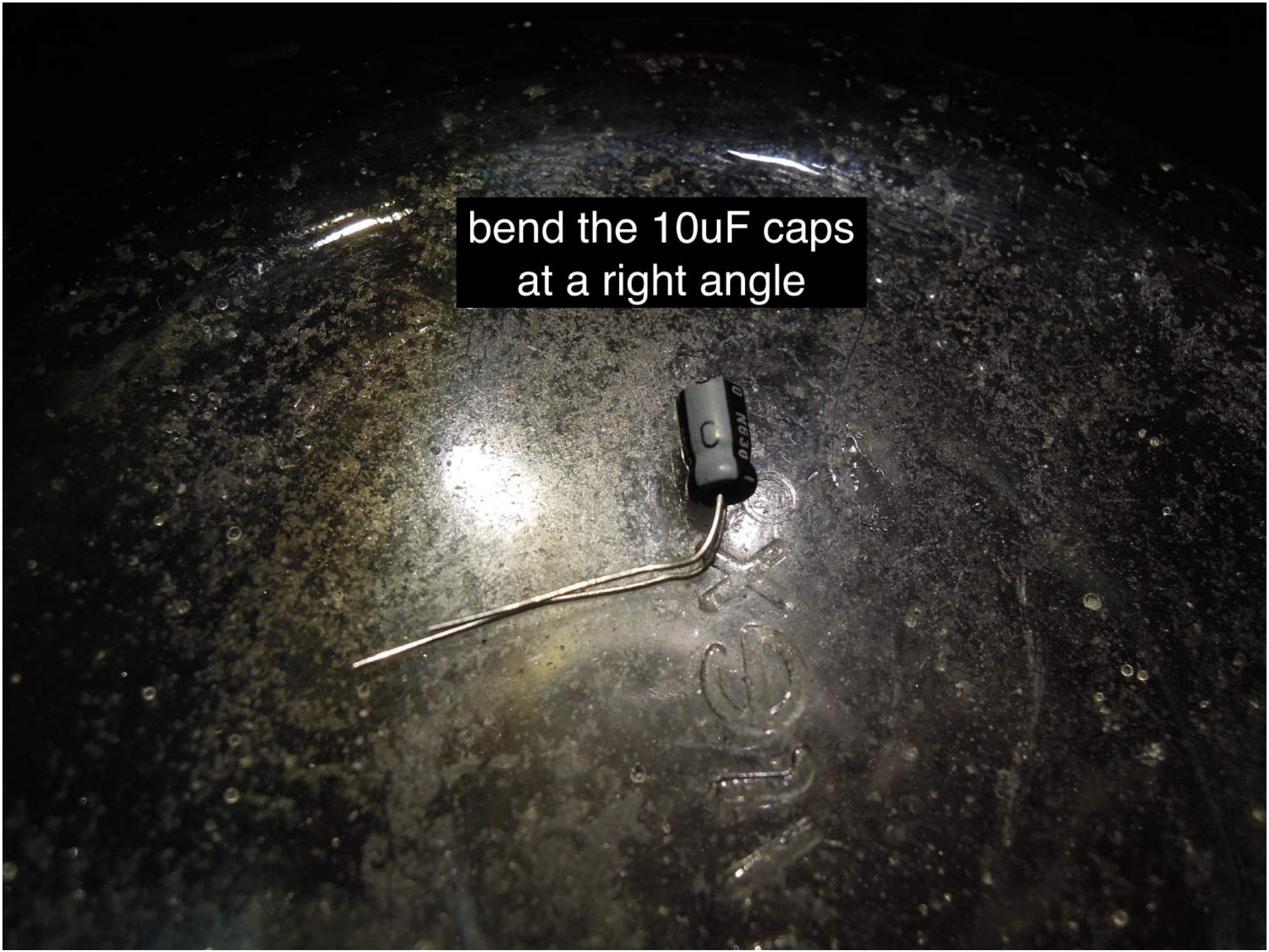
once again follow steps 1,3,4,5

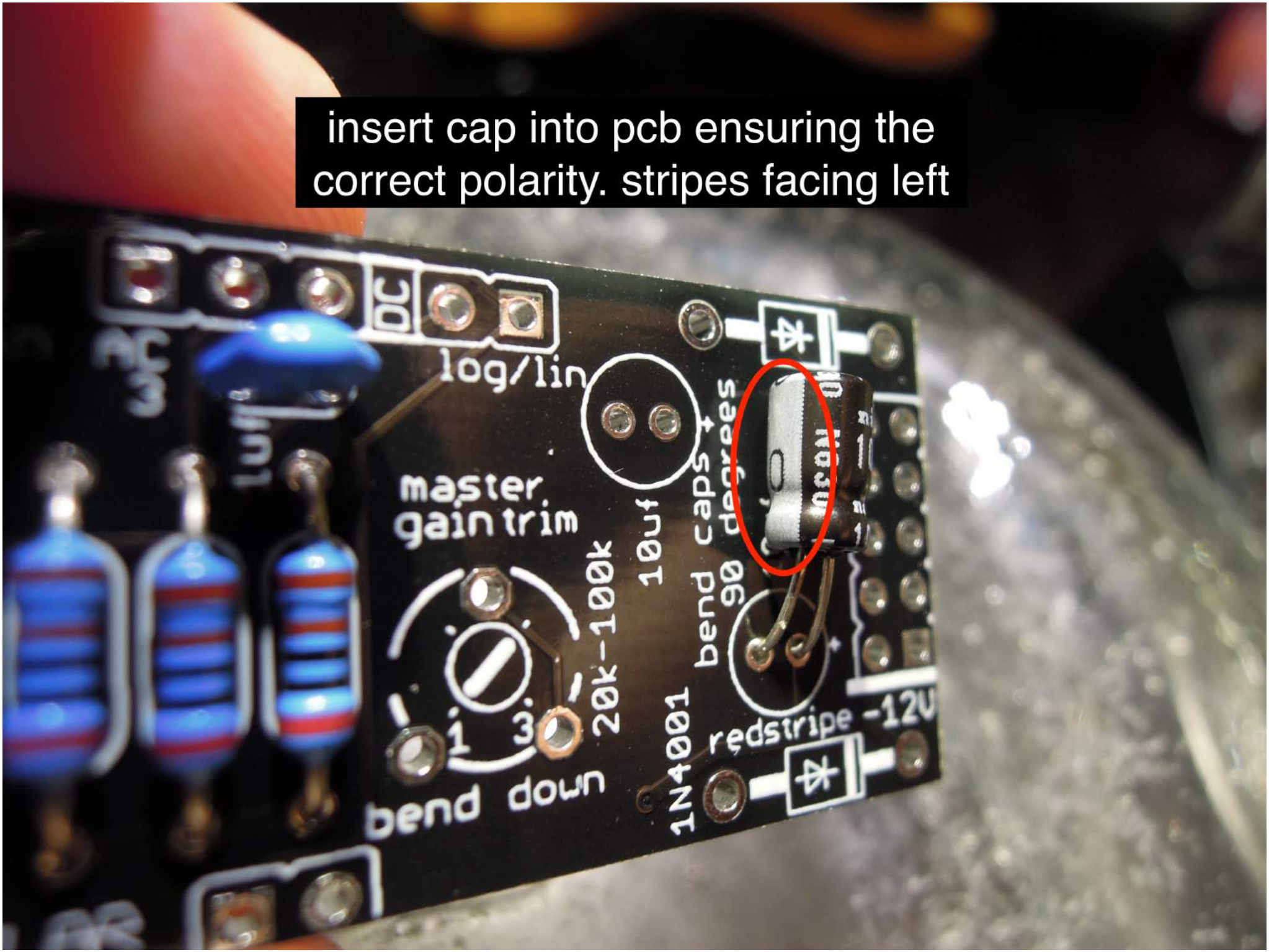

insert the three 1uF capacitors
code 105
47pf
0.1uf

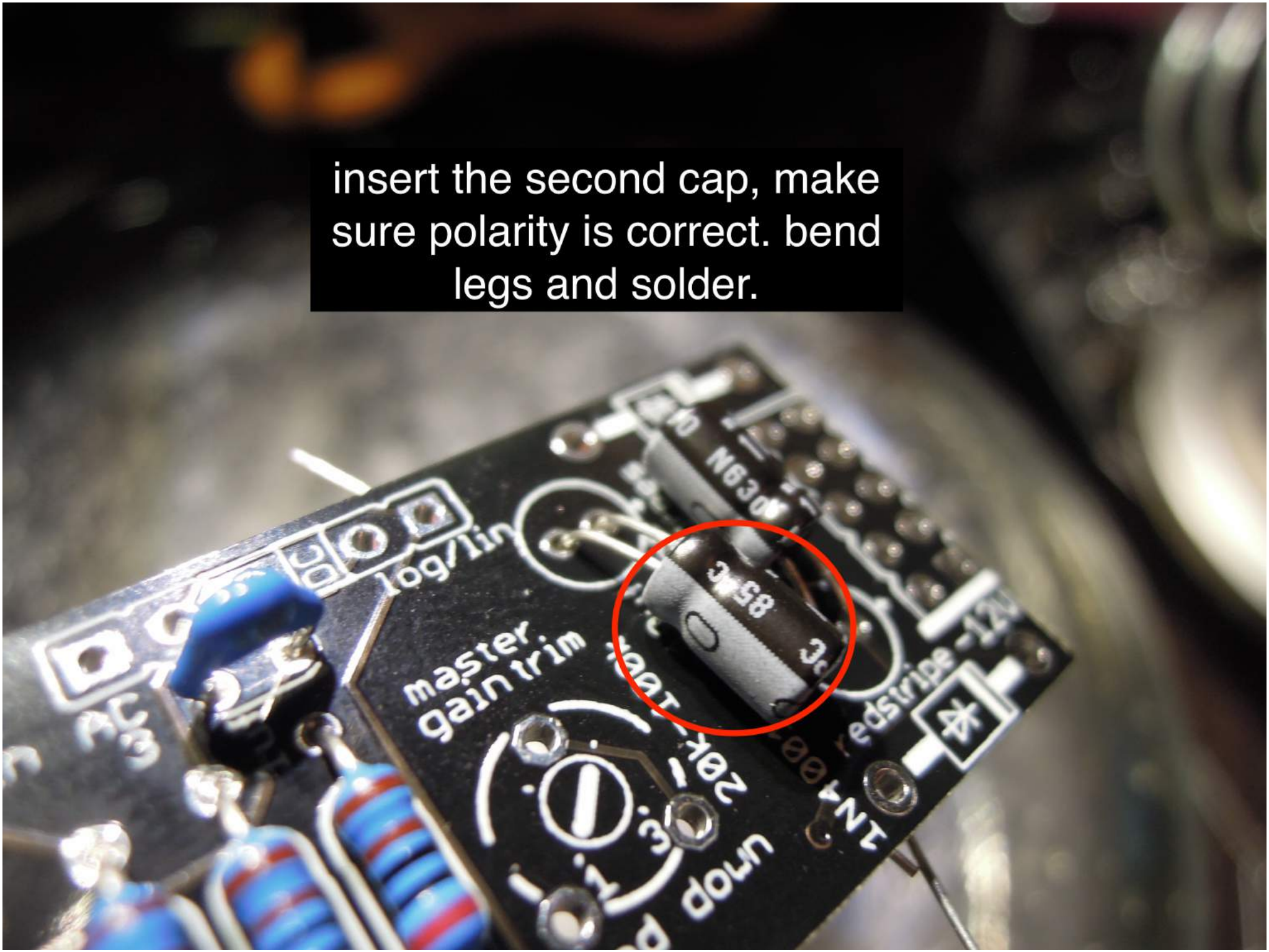

bend the capacitor leads
outwards like the resistors.
make sure the caps are not
sticking up too high.
ziobmodular.com
NE5532
2018

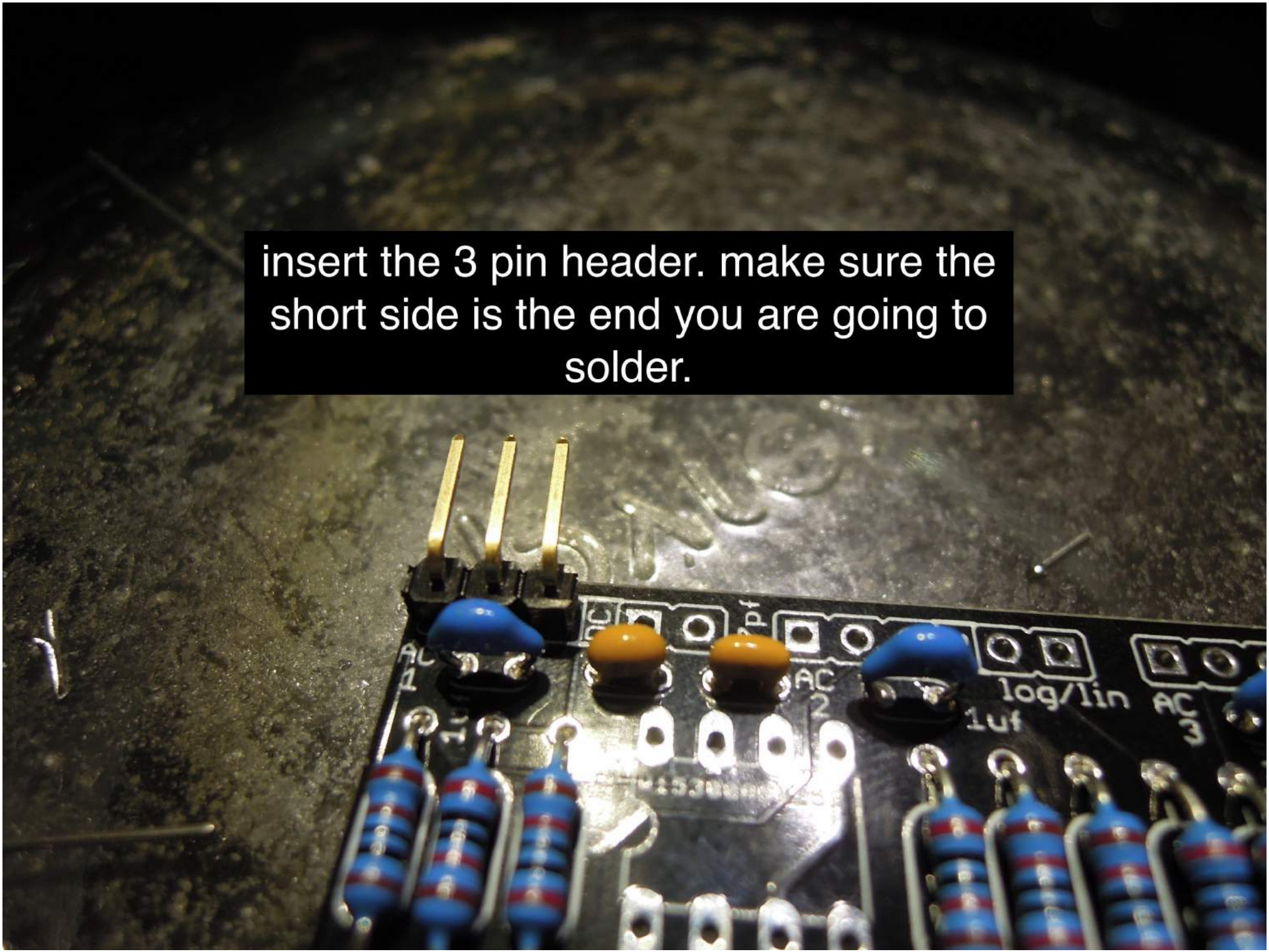

two: 0.1uF
capacitors(104)
insert, bend legs,
solder, and clip
log/lin
log/lin
remove two
pin jumper
for linear
47pf

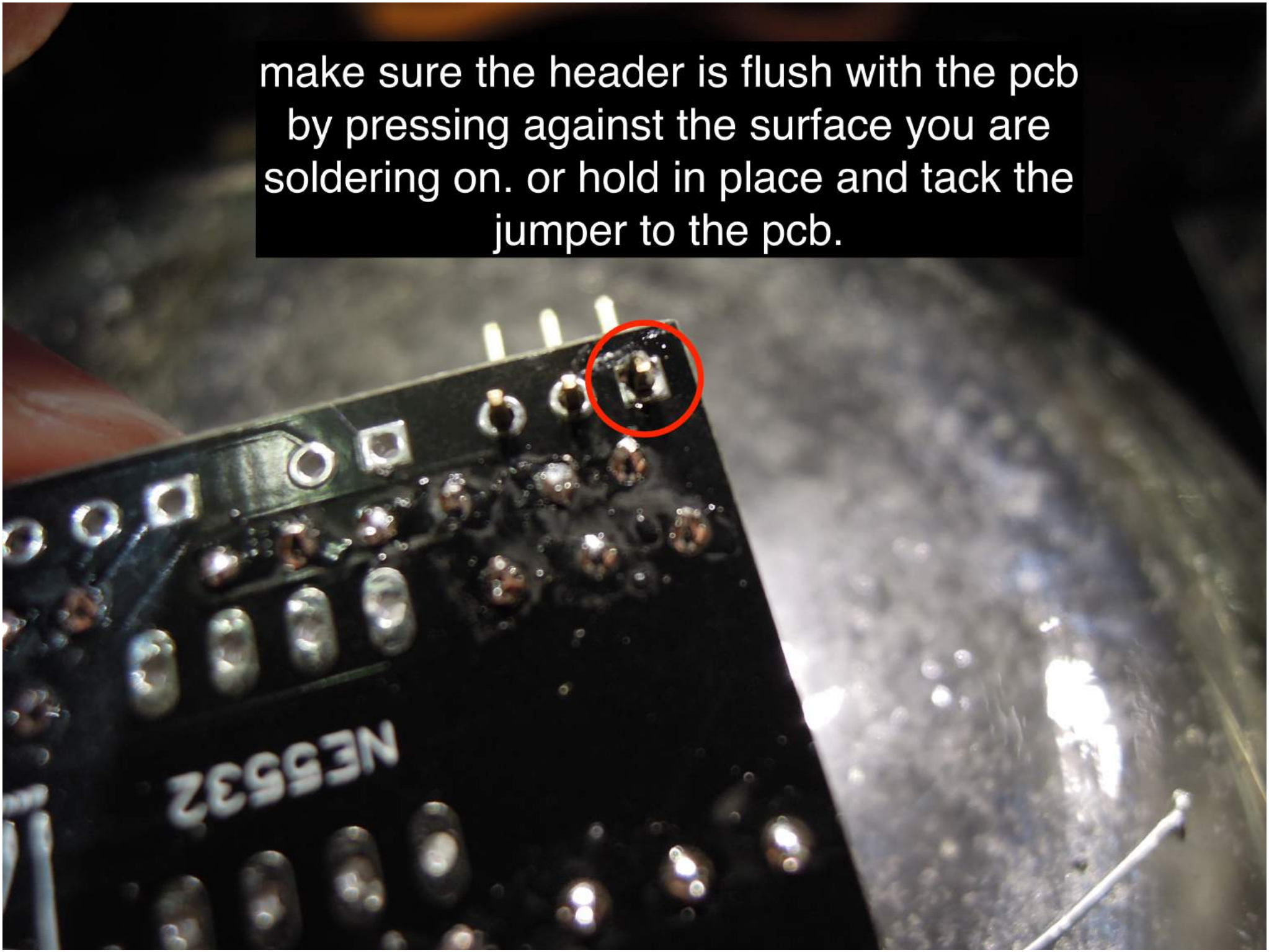

two: 47pF
code:470
insert, bend leads, solder, clip
log/lin
remove two
pin jumper
for linear
master gain
20k-100k

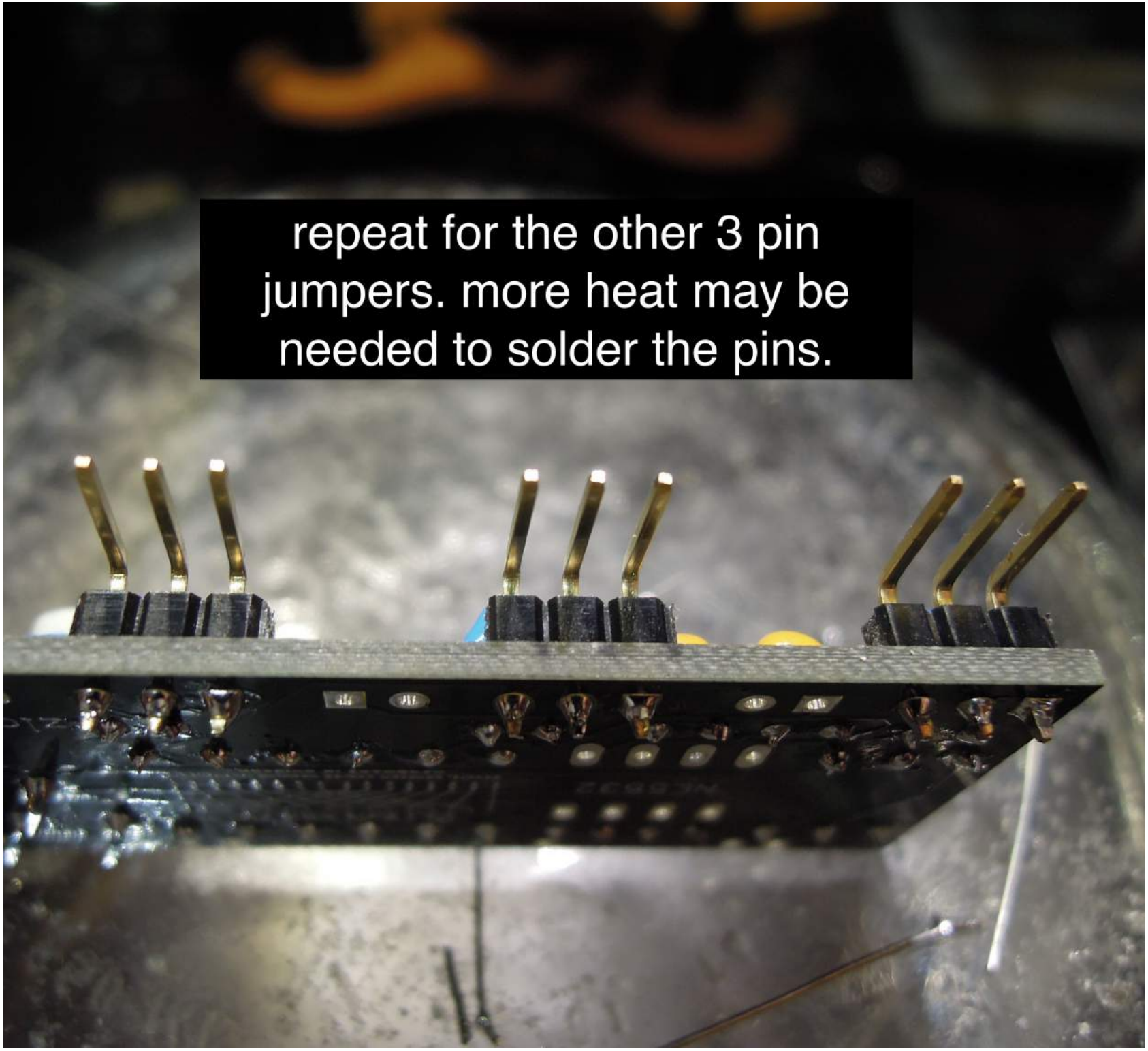

bend the 10uF caps
at a right angle

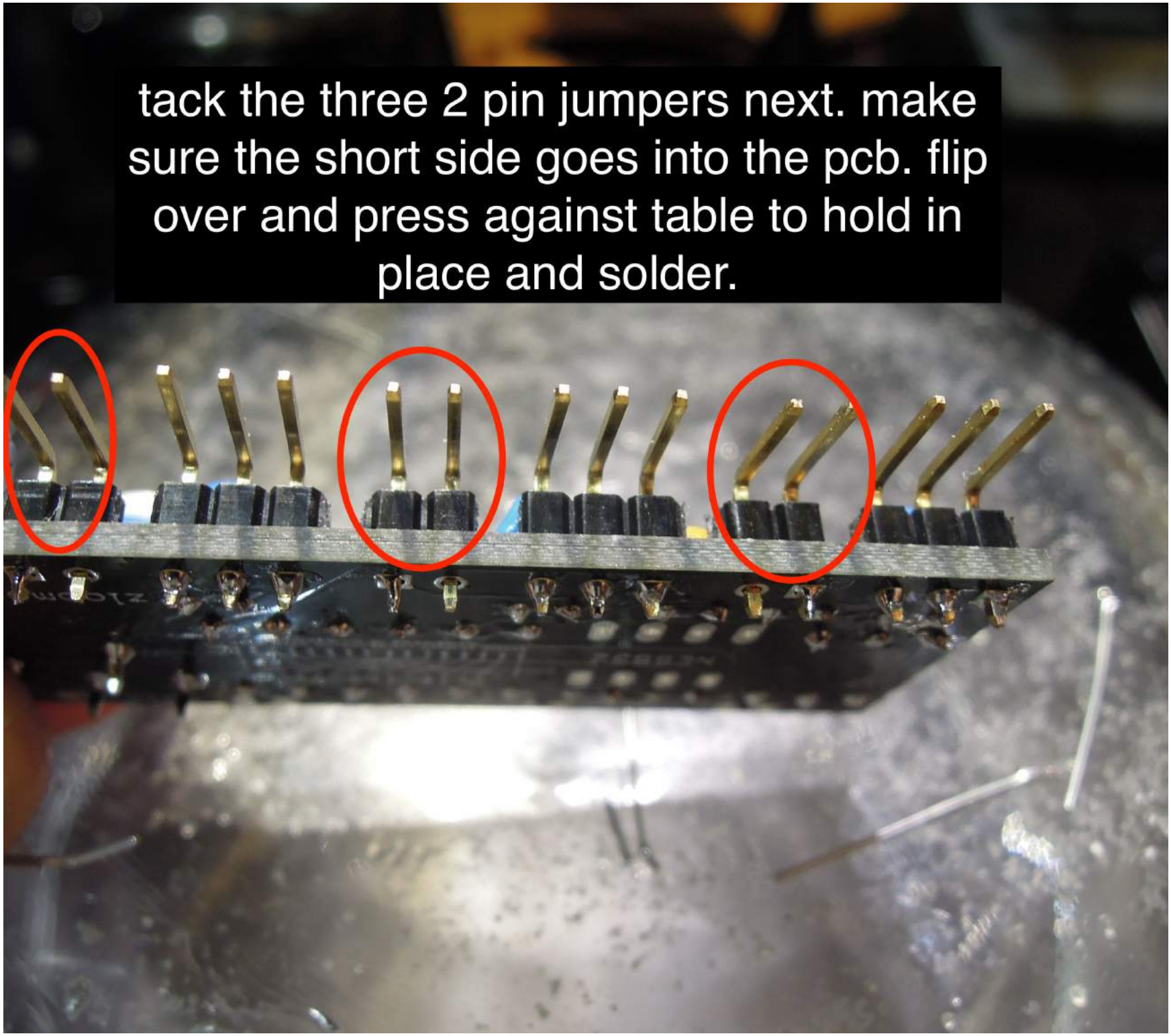

insert cap into pcb ensuring the correct polarity. stripes facing left
DC
log/lin
master gain trim
20k-100k
10uf
bend caps 90 degrees
1N4001
redstripe
-12V
bend down
1
3

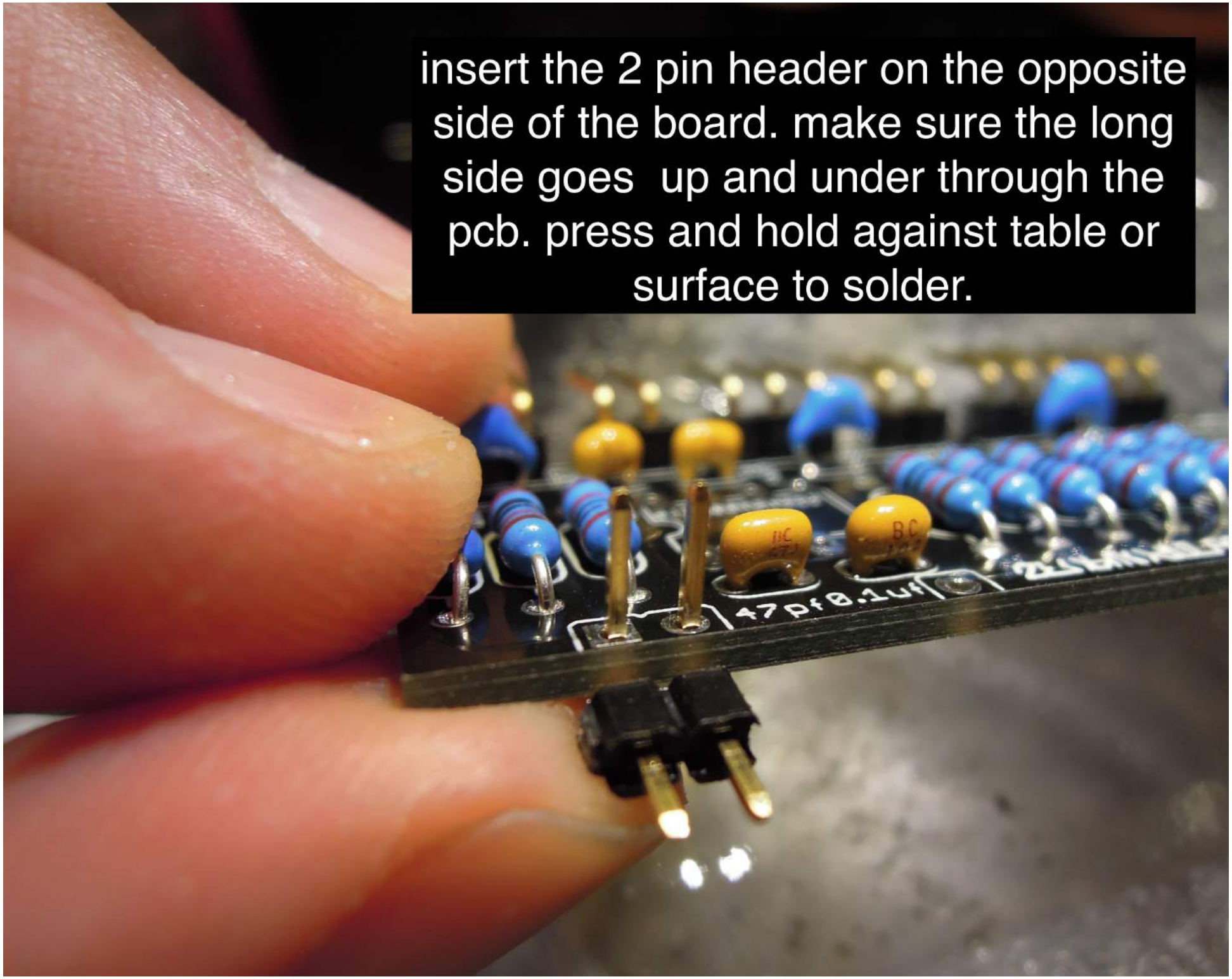

insert the second cap, make sure polarity is correct. bend legs and solder.
log/lin
master gain trim
redstripe

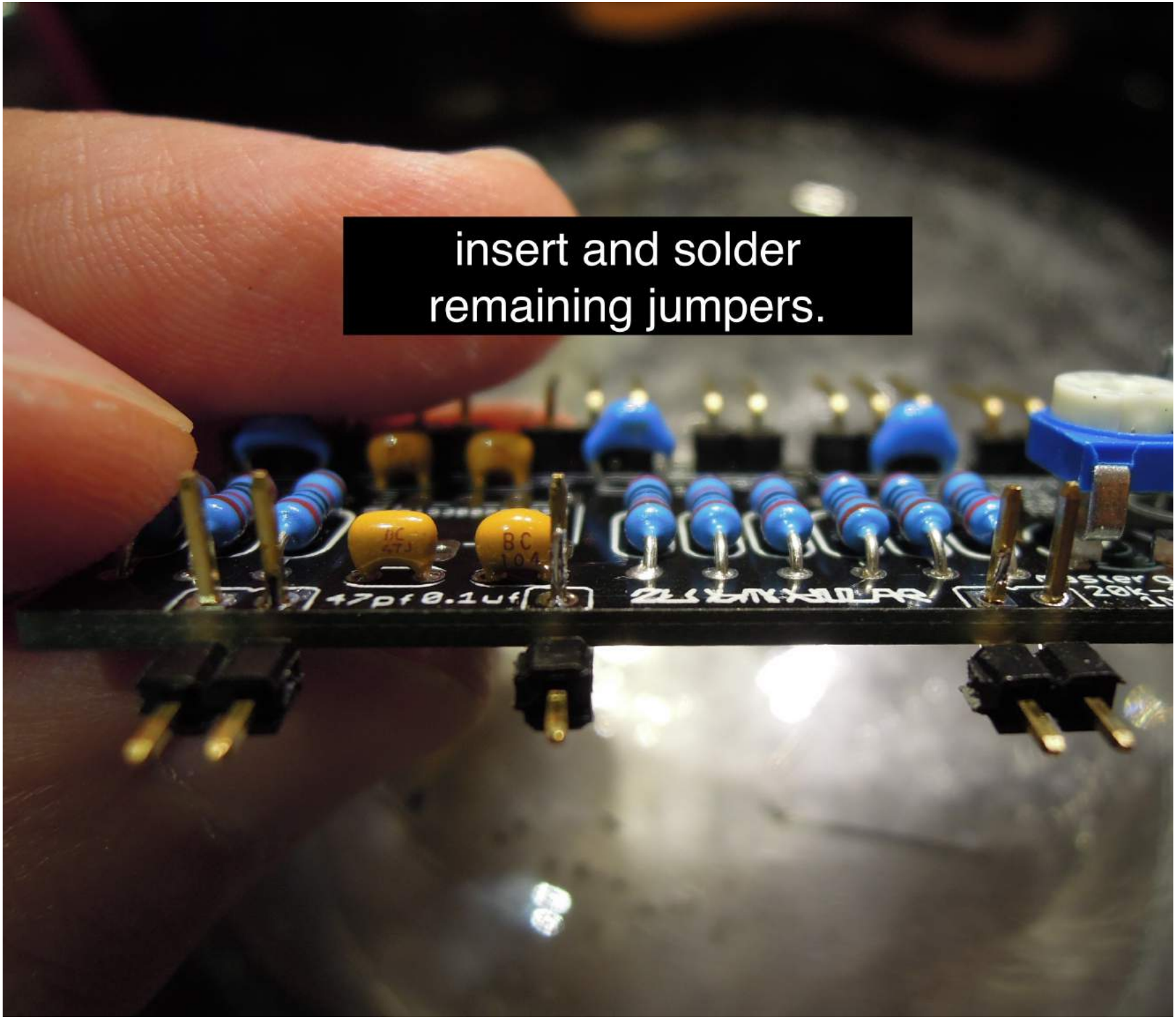

insert the 3 pin header. make sure the short side is the end you are going to solder.
AC 2
log/lin
AC 3
1uf

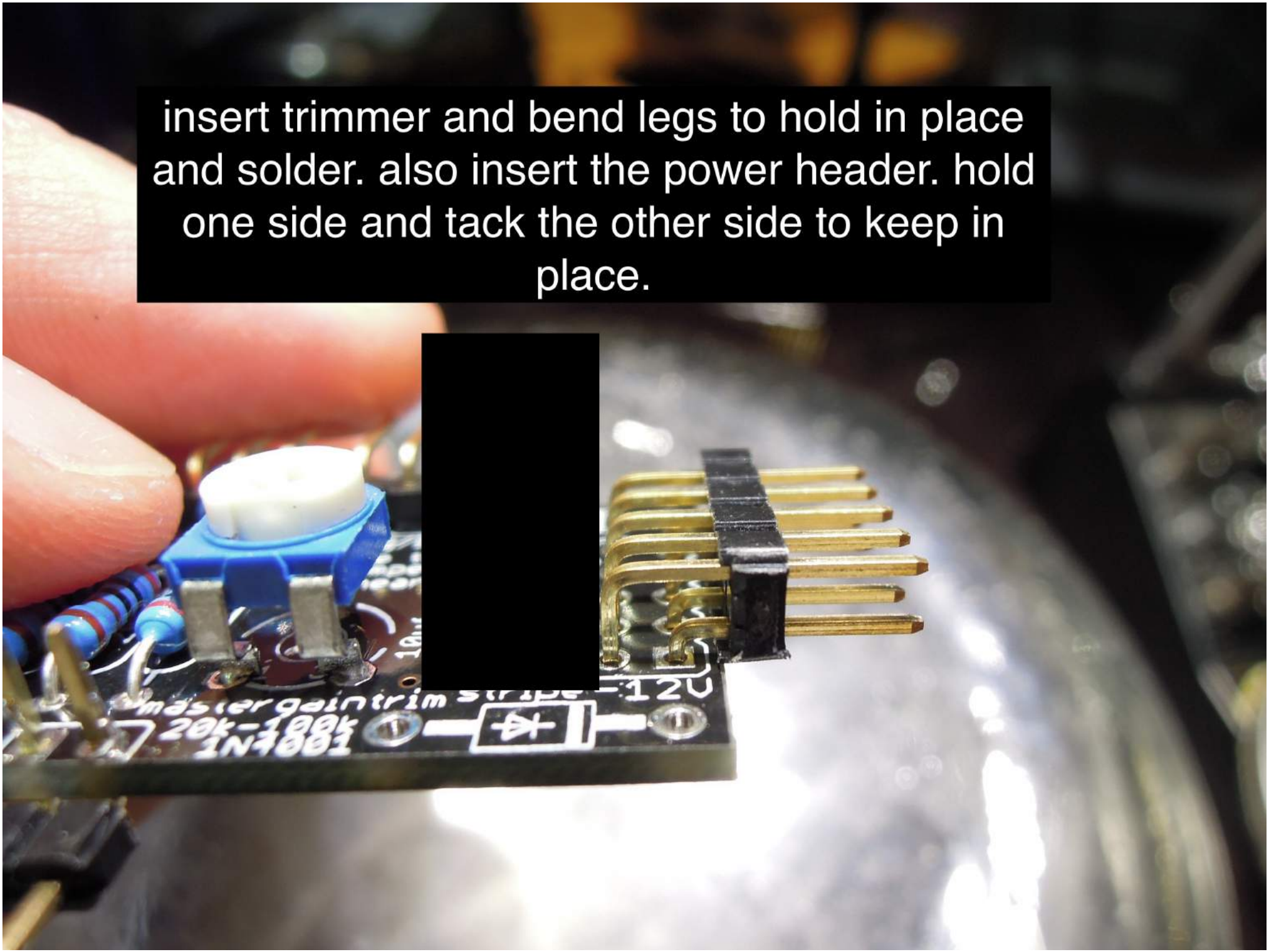

make sure the header is flush with the pcb by pressing against the surface you are soldering on. or hold in place and tack the jumper to the pcb.
NE5532

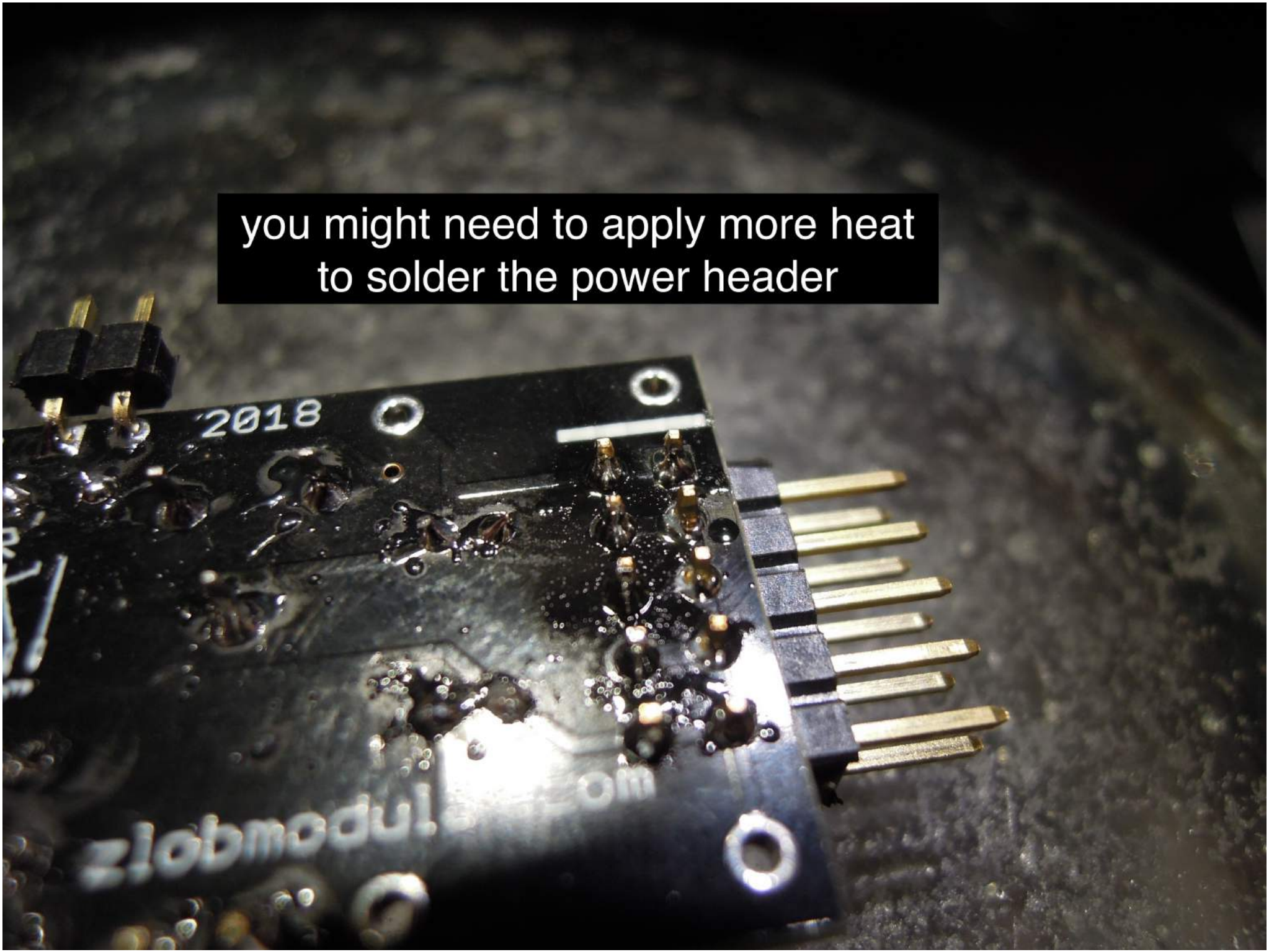

repeat for the other 3 pin
jumpers. more heat may be
needed to solder the pins.

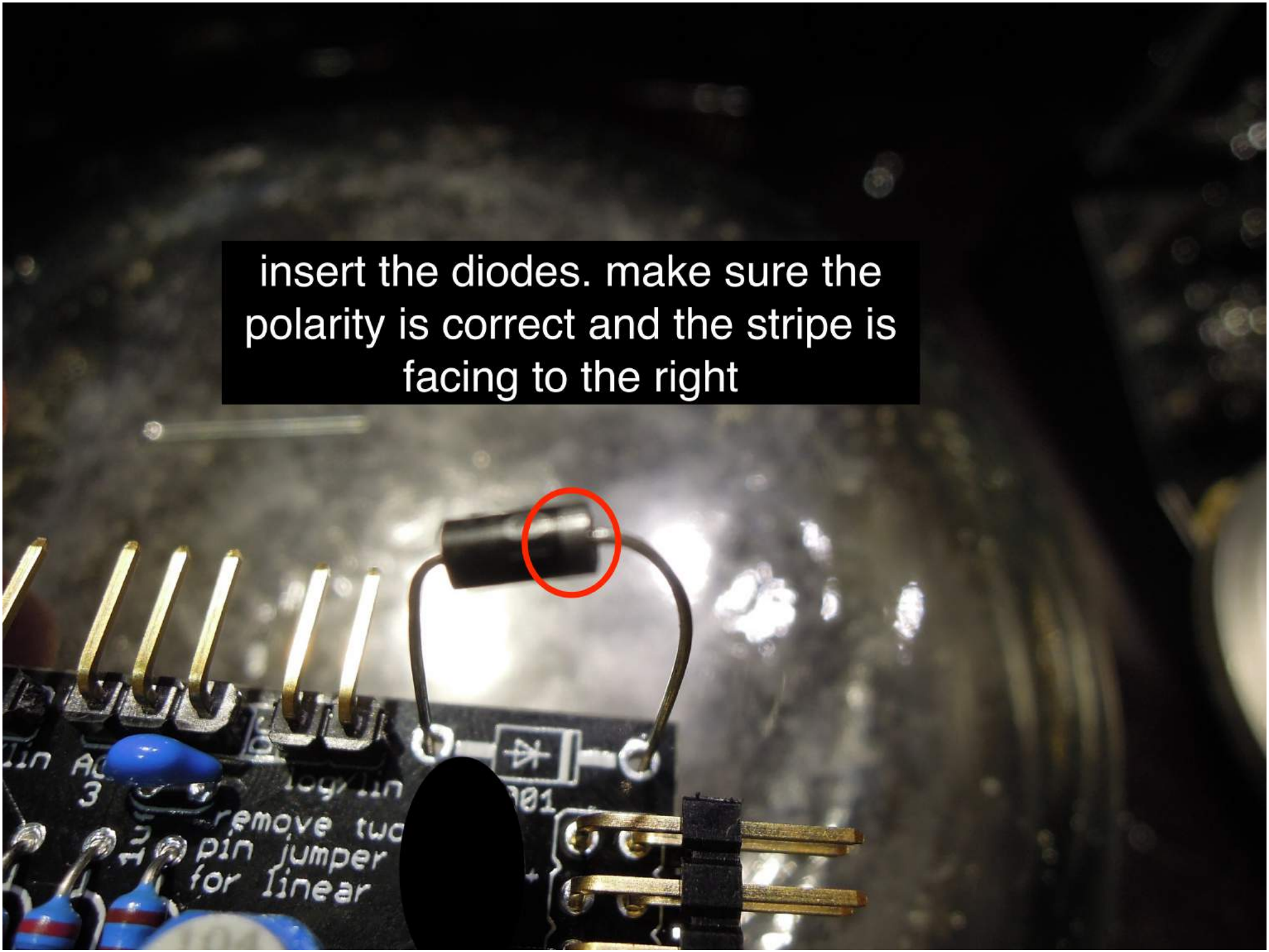

tack the three 2 pin jumpers next. make sure the short side goes into the pcb. flip over and press against table to hold in place and solder.

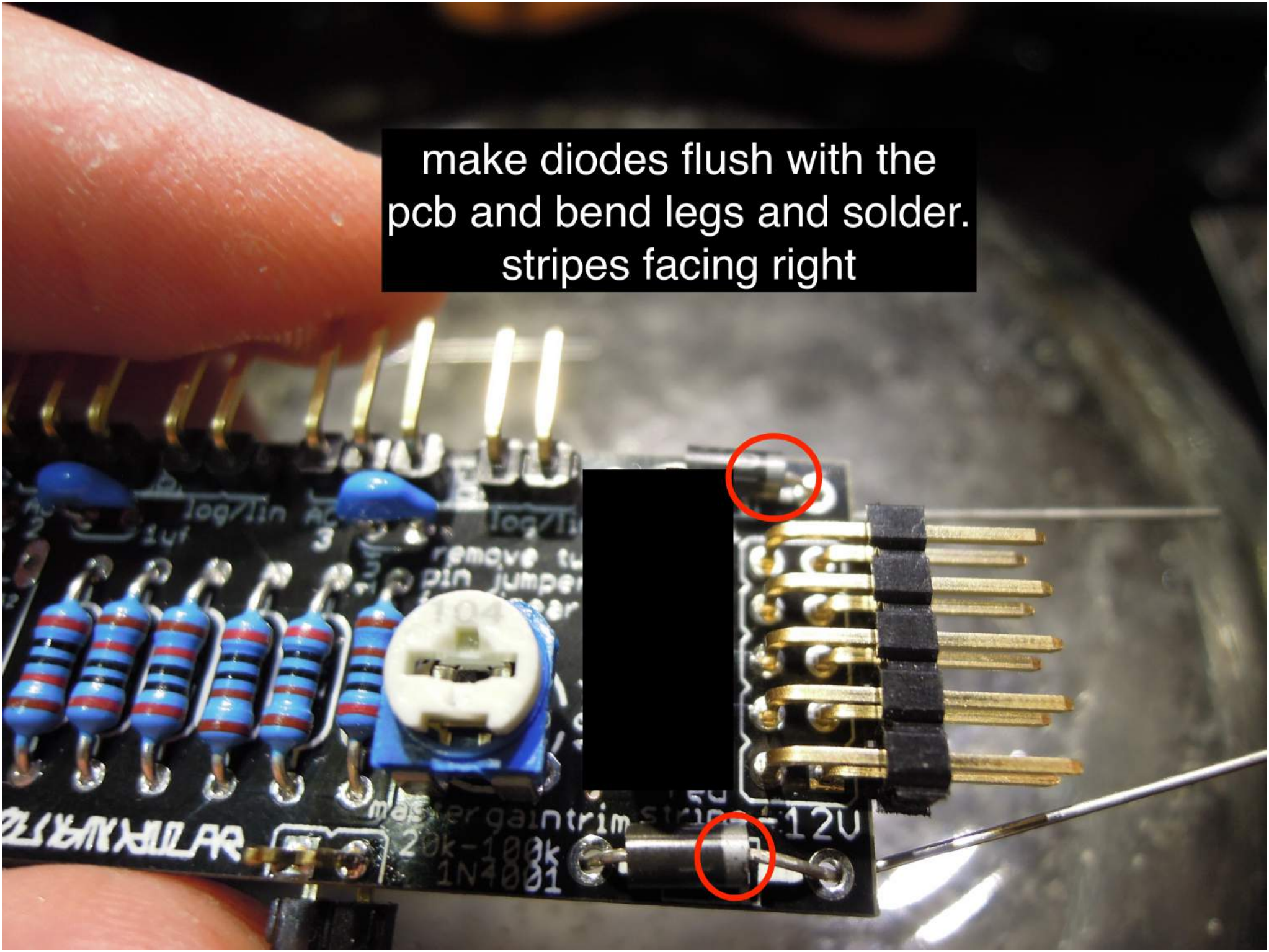

insert the 2 pin header on the opposite side of the board. make sure the long side goes up and under through the pcb. press and hold against table or surface to solder.
47pf
0.1uf

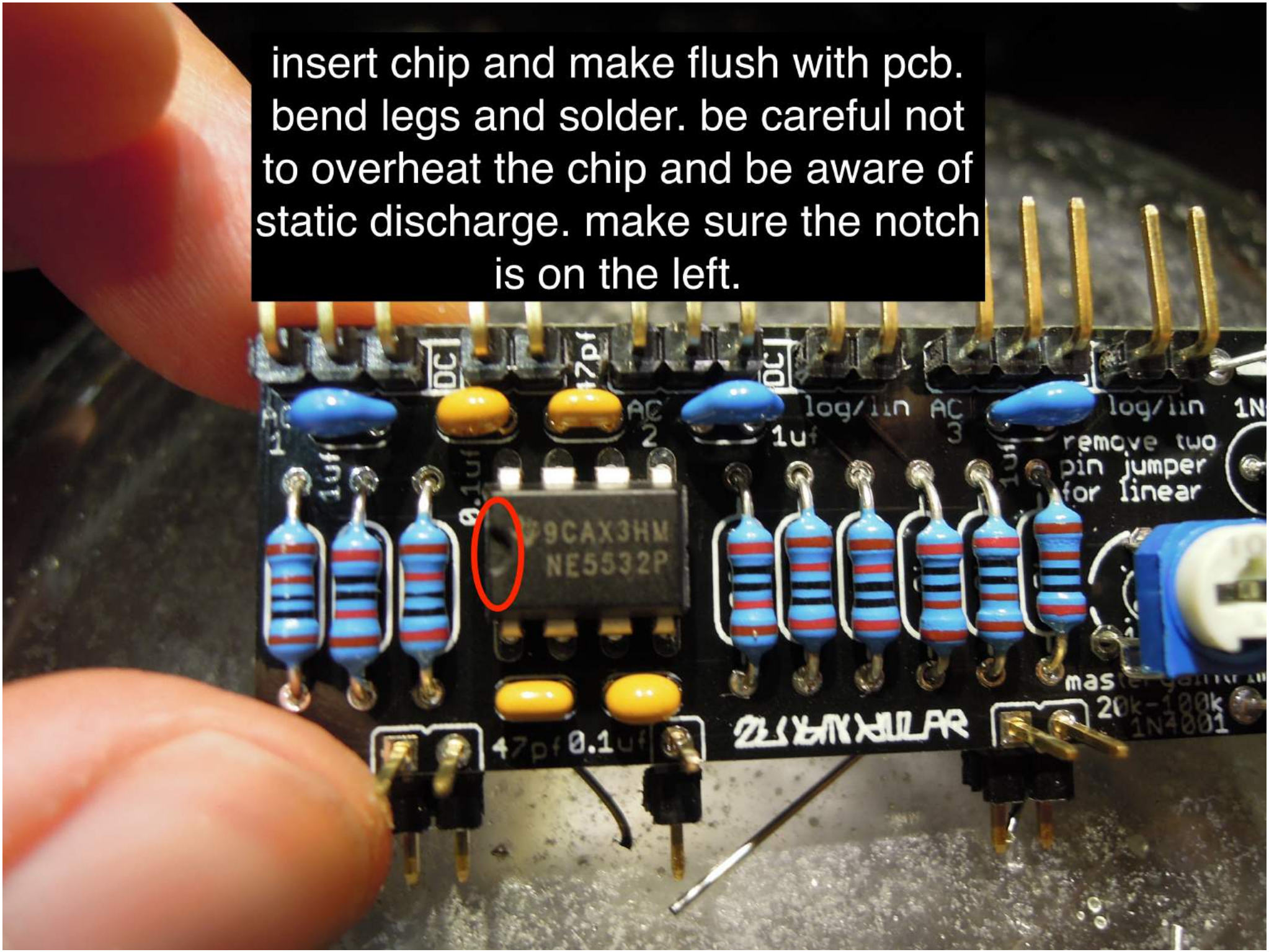

insert and solder
remaining jumpers.
47pf
0.1uf

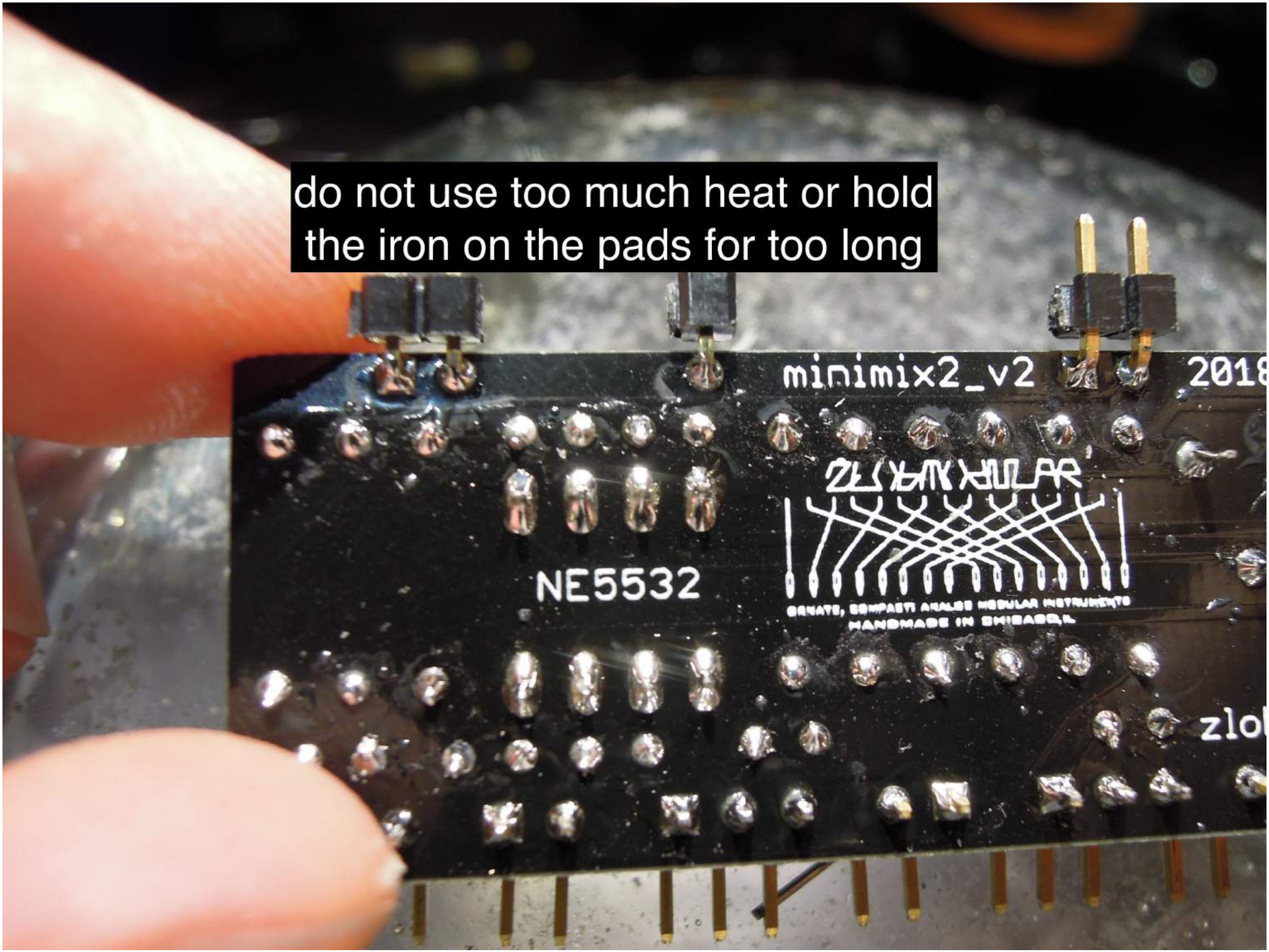

insert trimmer and bend legs to hold in place and solder. also insert the power header. hold one side and tack the other side to keep in place.
mastergaintrim
20k-100k
1N4001
12V

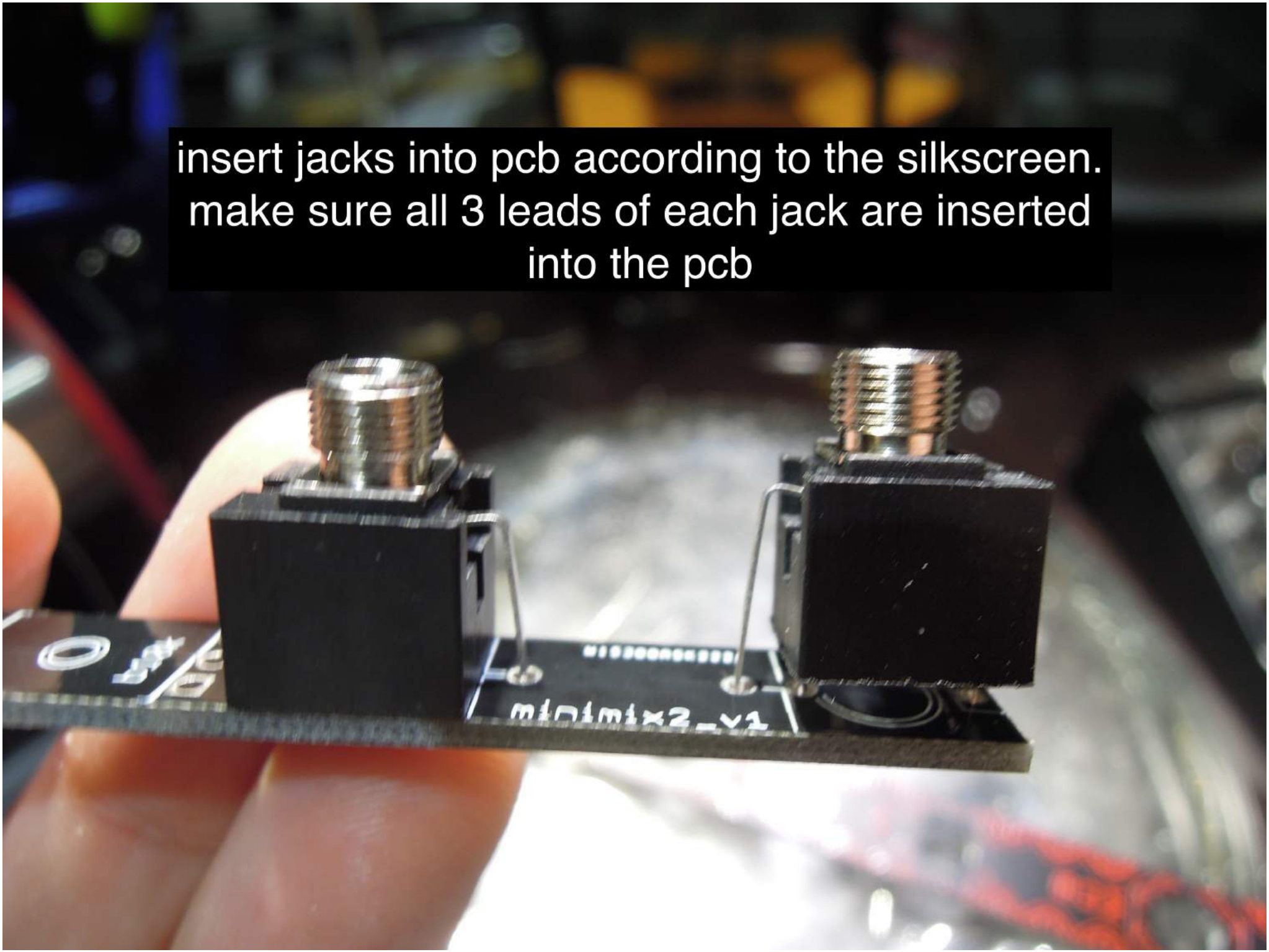

you might need to apply more heat
to solder the power header
2018

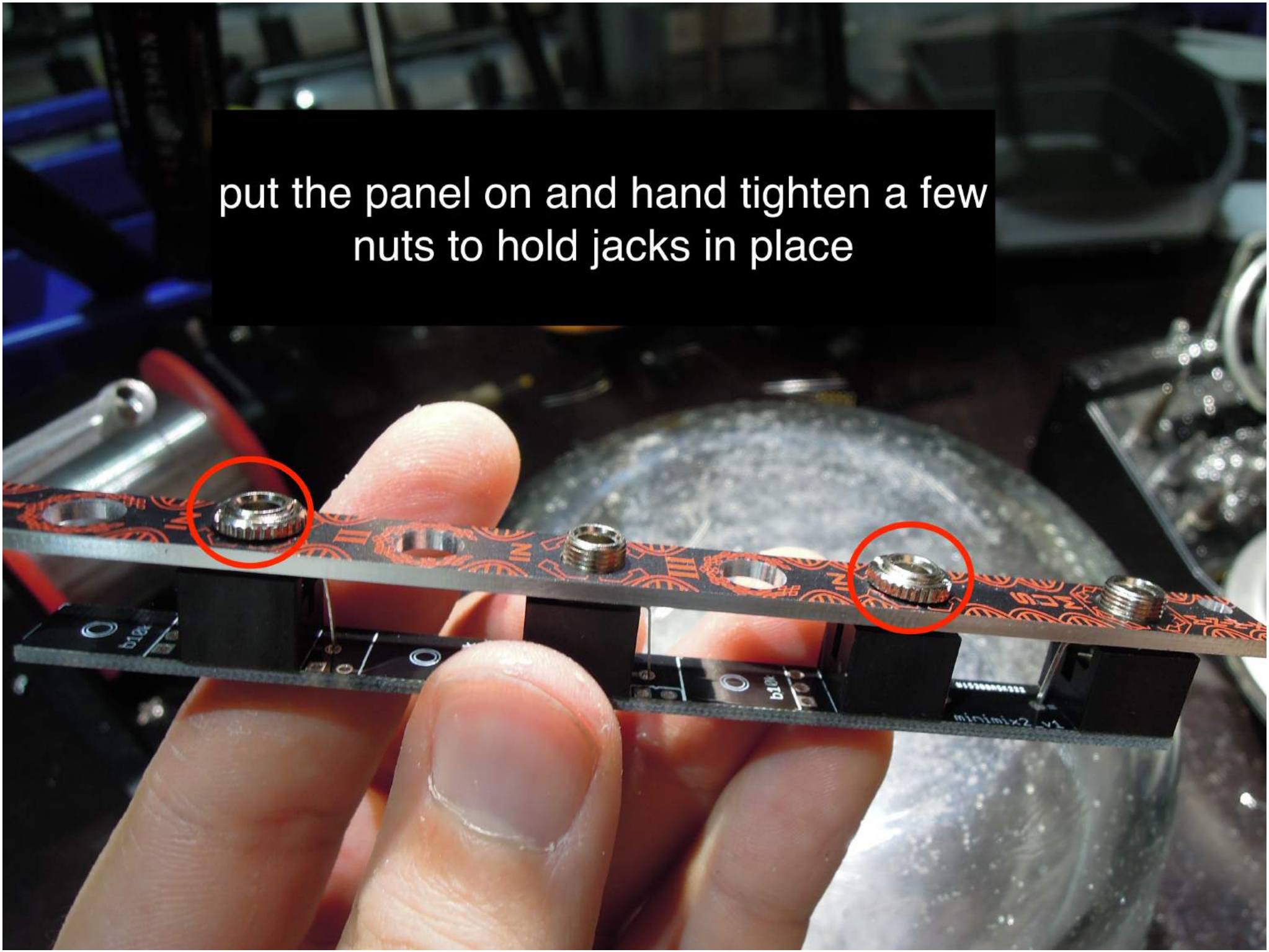

insert the diodes. make sure the polarity is correct and the stripe is facing to the right
remove two
pin jumper
for linear

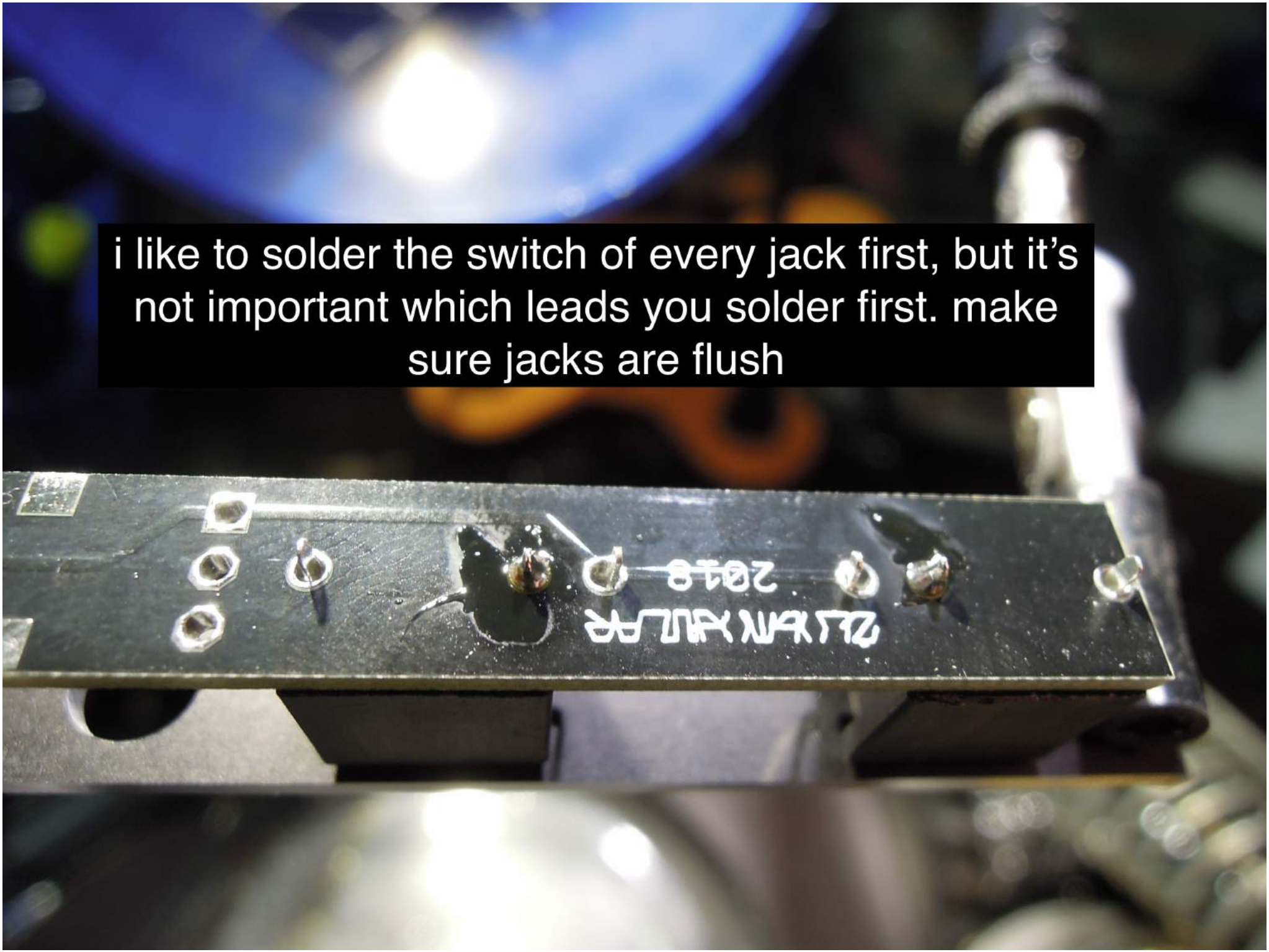

make diodes flush with the
pcb and bend legs and solder.
stripes facing right

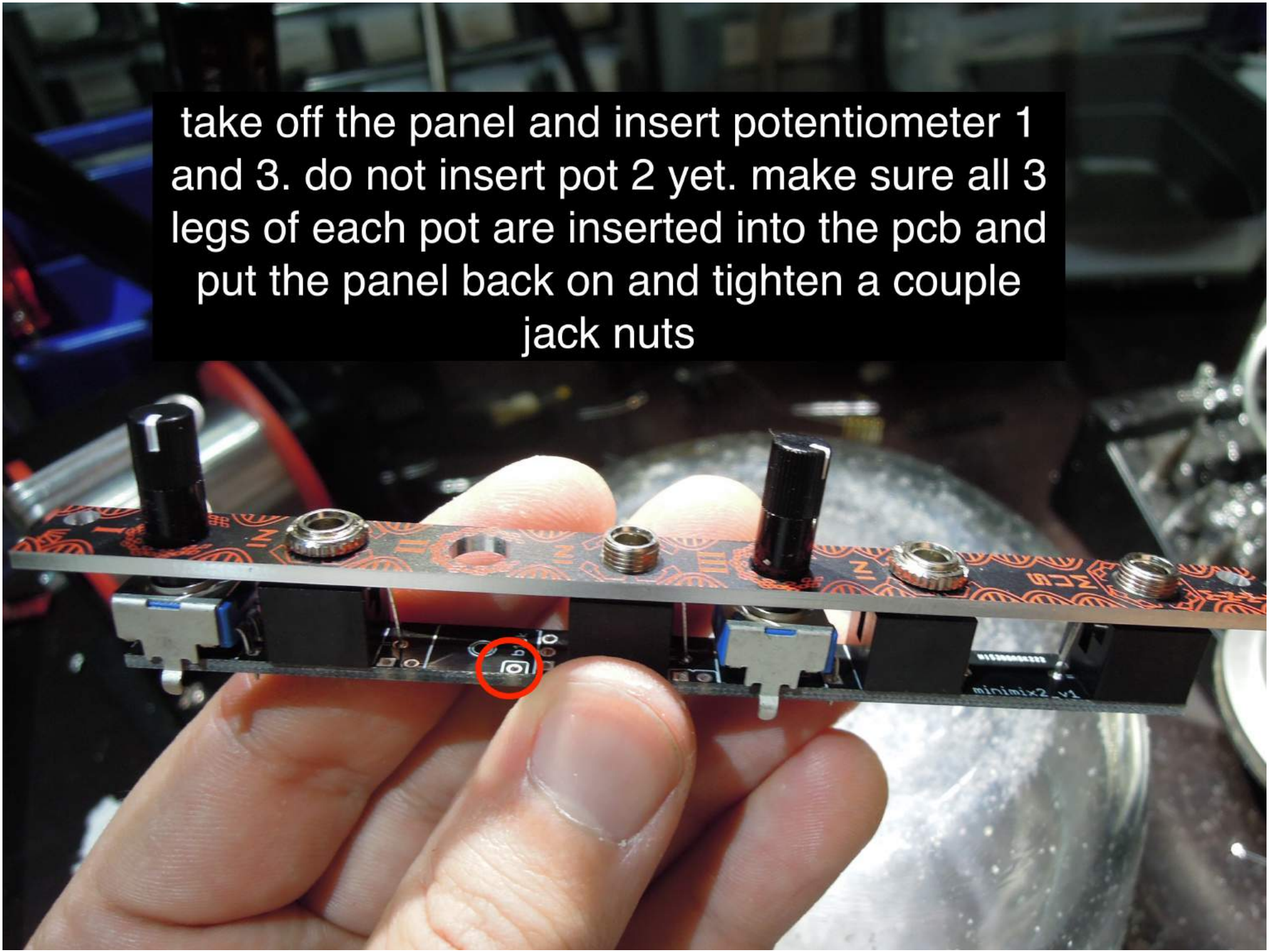

insert chip and make flush with pcb. bend legs and solder. be careful not to overheat the chip and be aware of static discharge. make sure the notch is on the left.
remove two pin jumper for linear
NE5532P
47pf
0.1uf

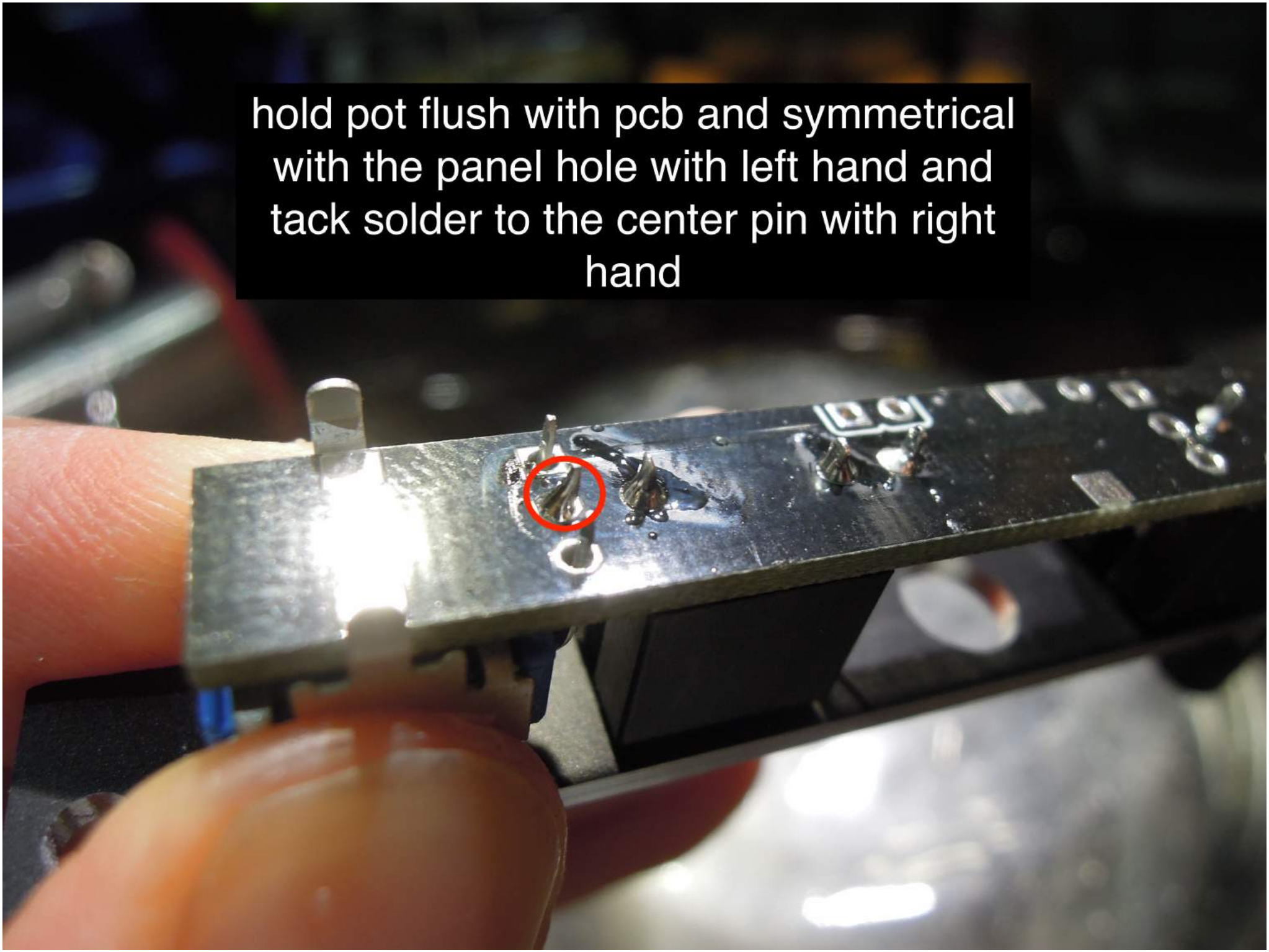

do not use too much heat or hold
the iron on the pads for too long
minimix2_v2
NE5532

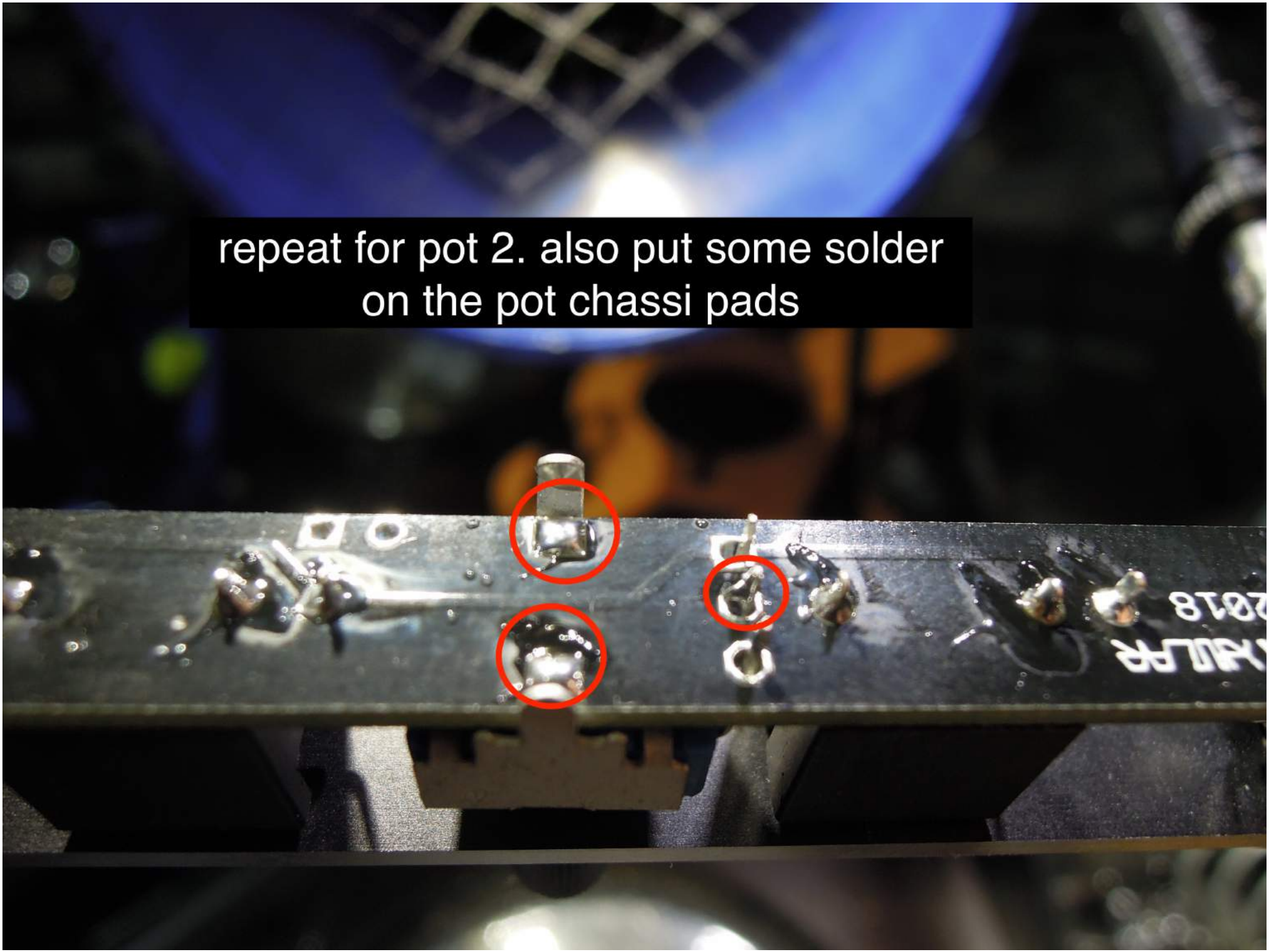

insert jacks into pcb according to the silkscreen.
make sure all 3 leads of each jack are inserted
into the pcb
minimix2_v1

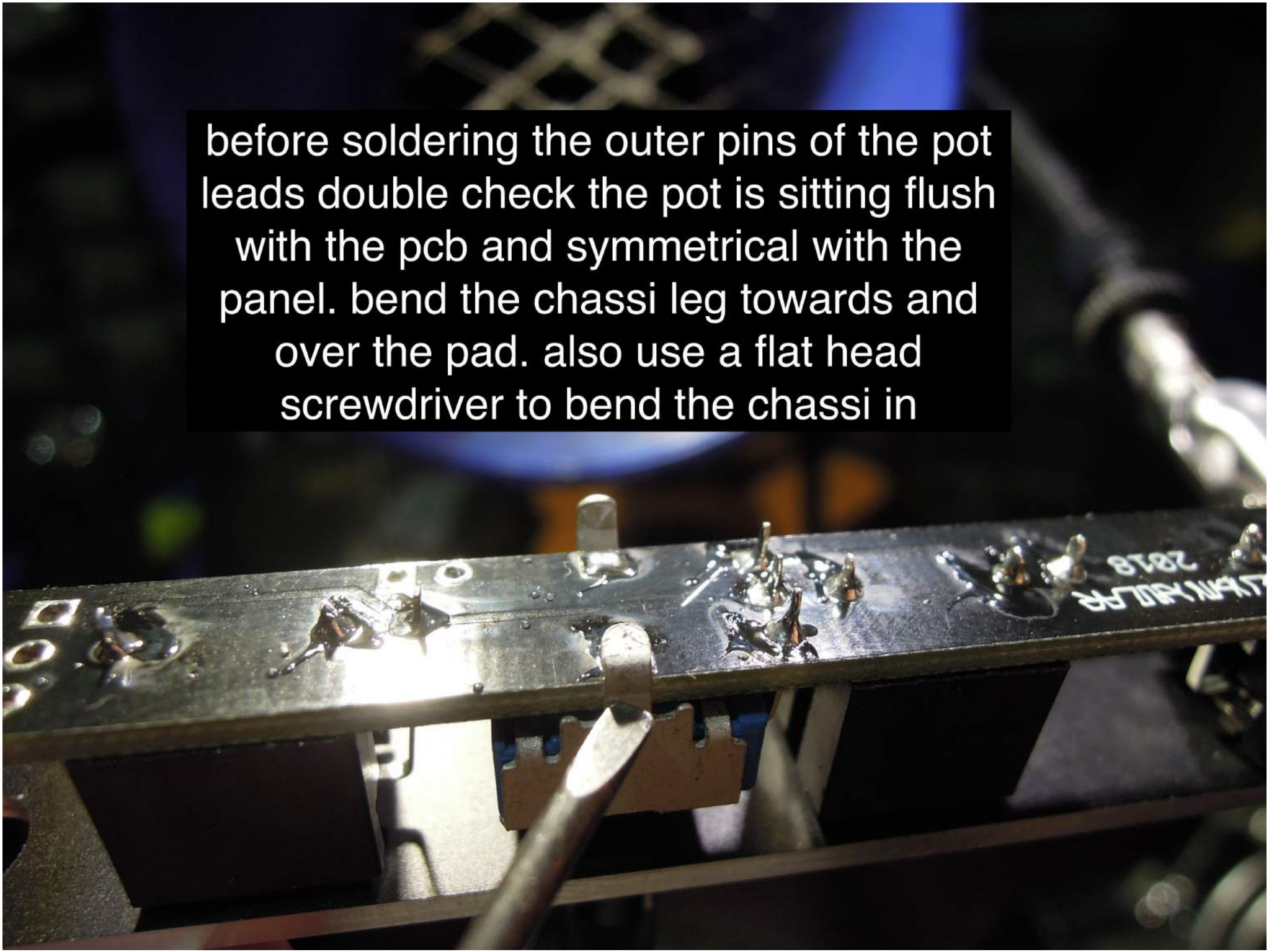

put the panel on and hand tighten a few nuts to hold jacks in place

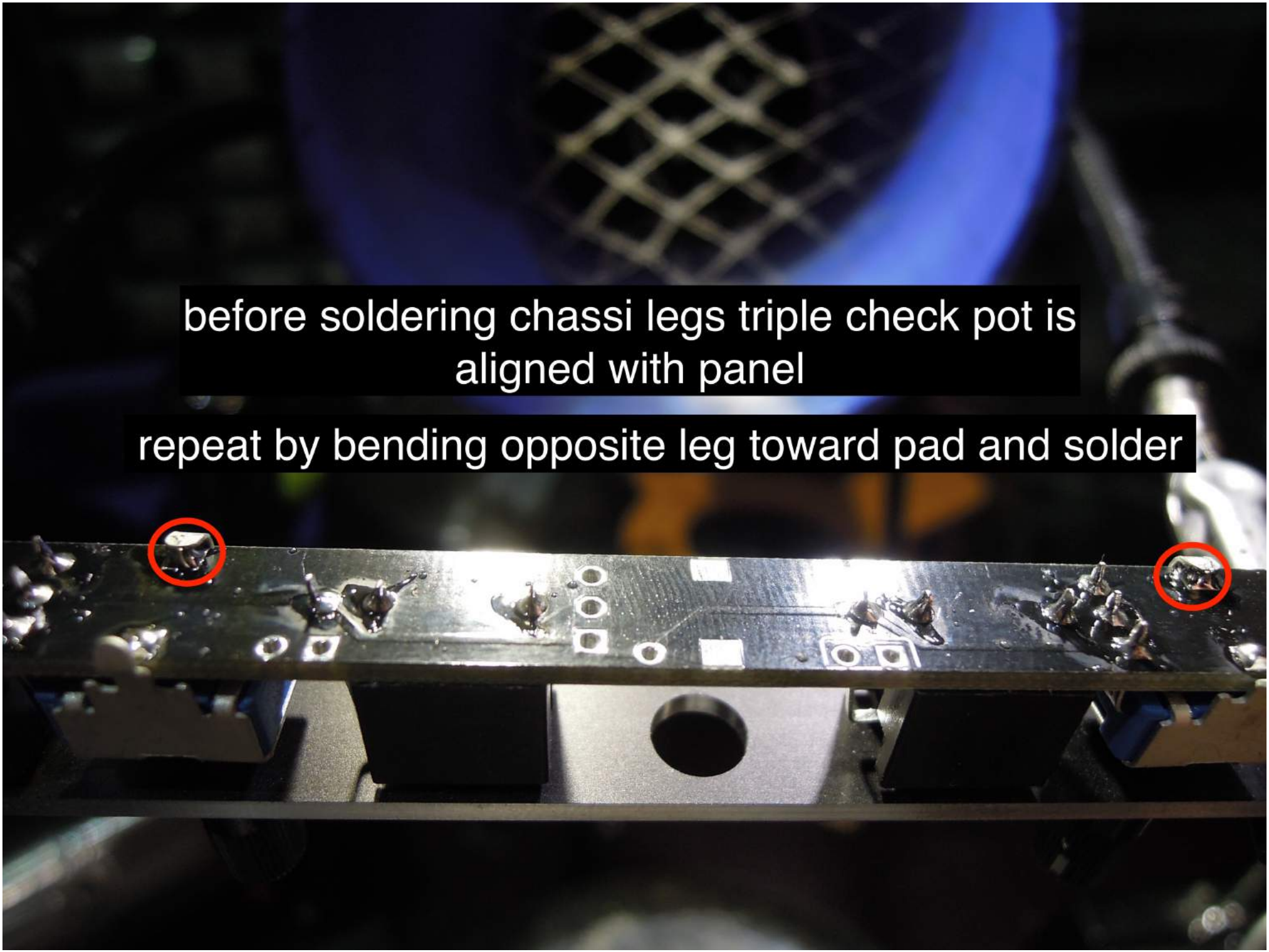

i like to solder the switch of every jack first, but it’s not important which leads you solder first. make sure jacks are flush

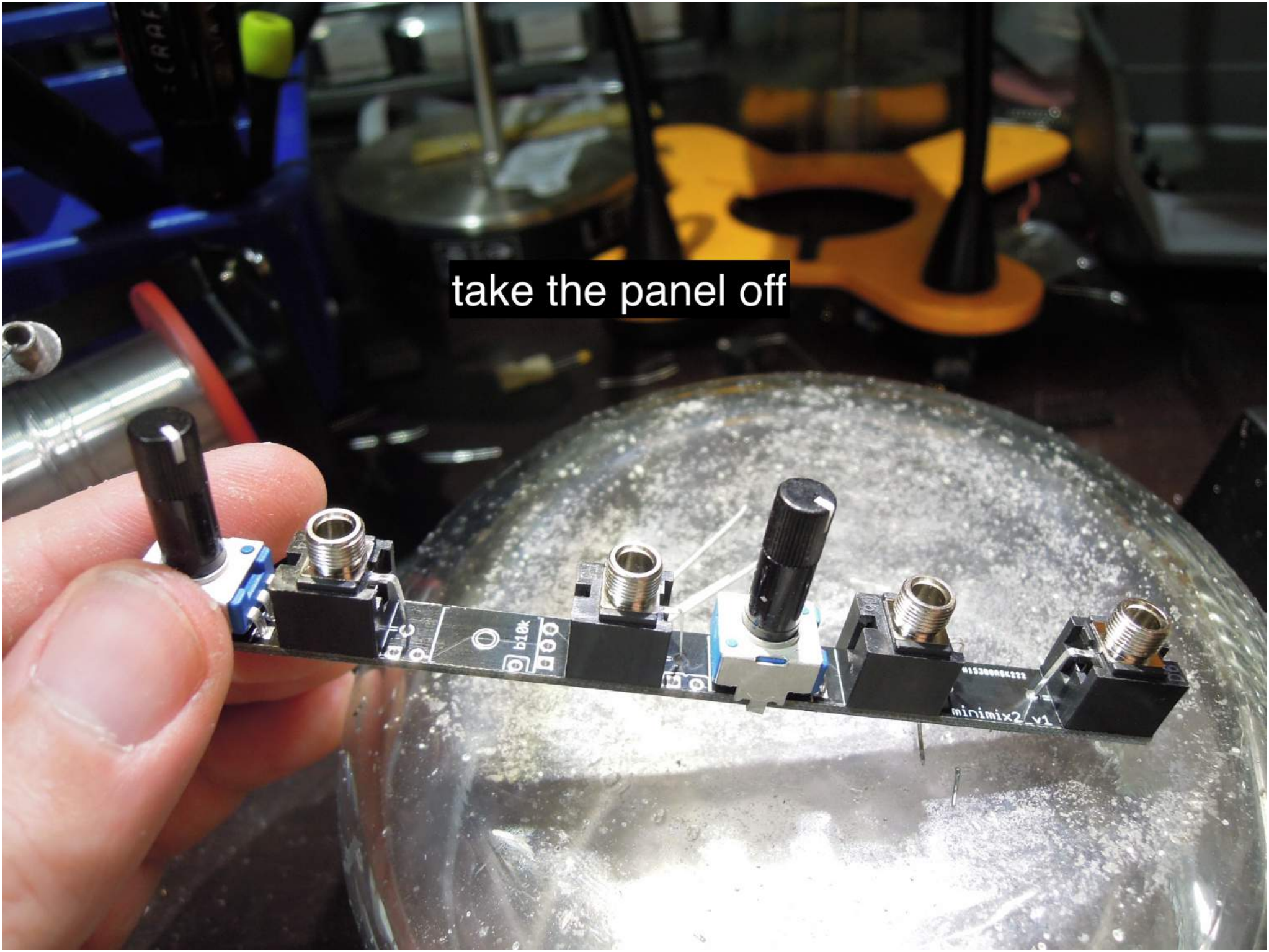

take off the panel and insert potentiometer 1 and 3. do not insert pot 2 yet. make sure all 3 legs of each pot are inserted into the pcb and put the panel back on and tighten a couple jack nuts


hold pot flush with pcb and symmetrical with the panel hole with left hand and tack solder to the center pin with right hand

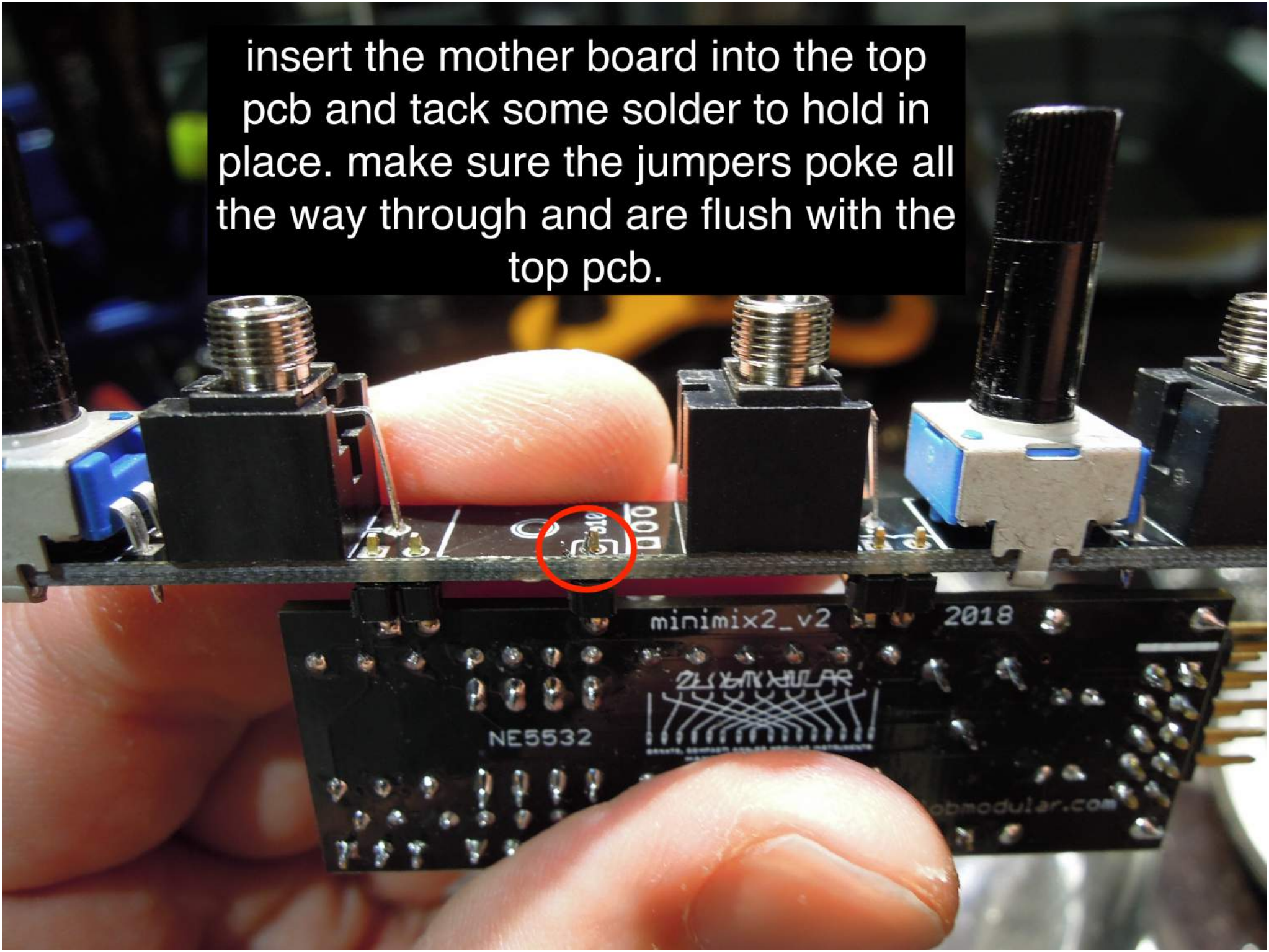

repeat for pot 2. also put some solder
on the pot chassi pads

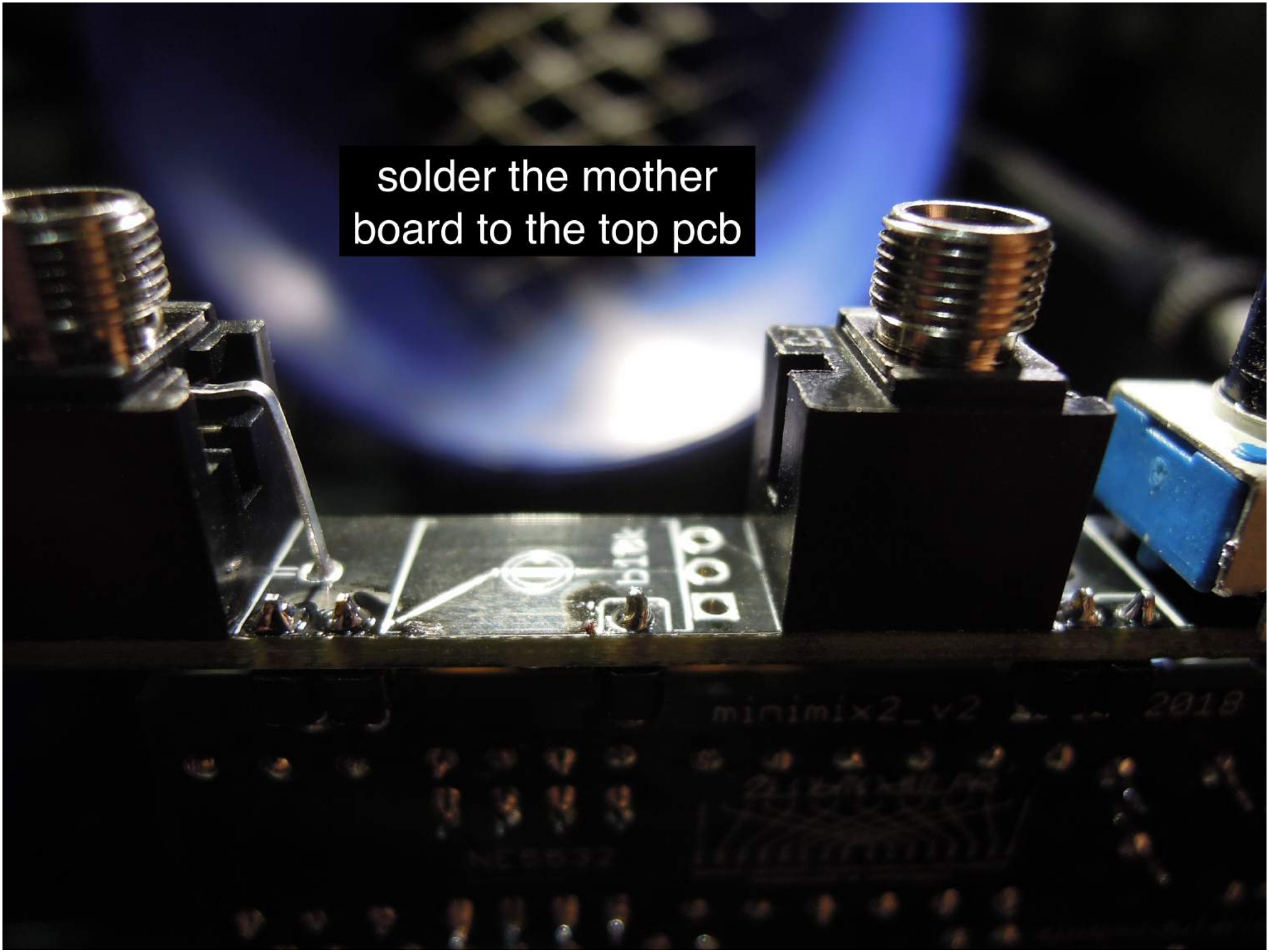

before soldering the outer pins of the pot leads double check the pot is sitting flush with the pcb and symmetrical with the panel. bend the chassi leg towards and over the pad. also use a flat head screwdriver to bend the chassi in

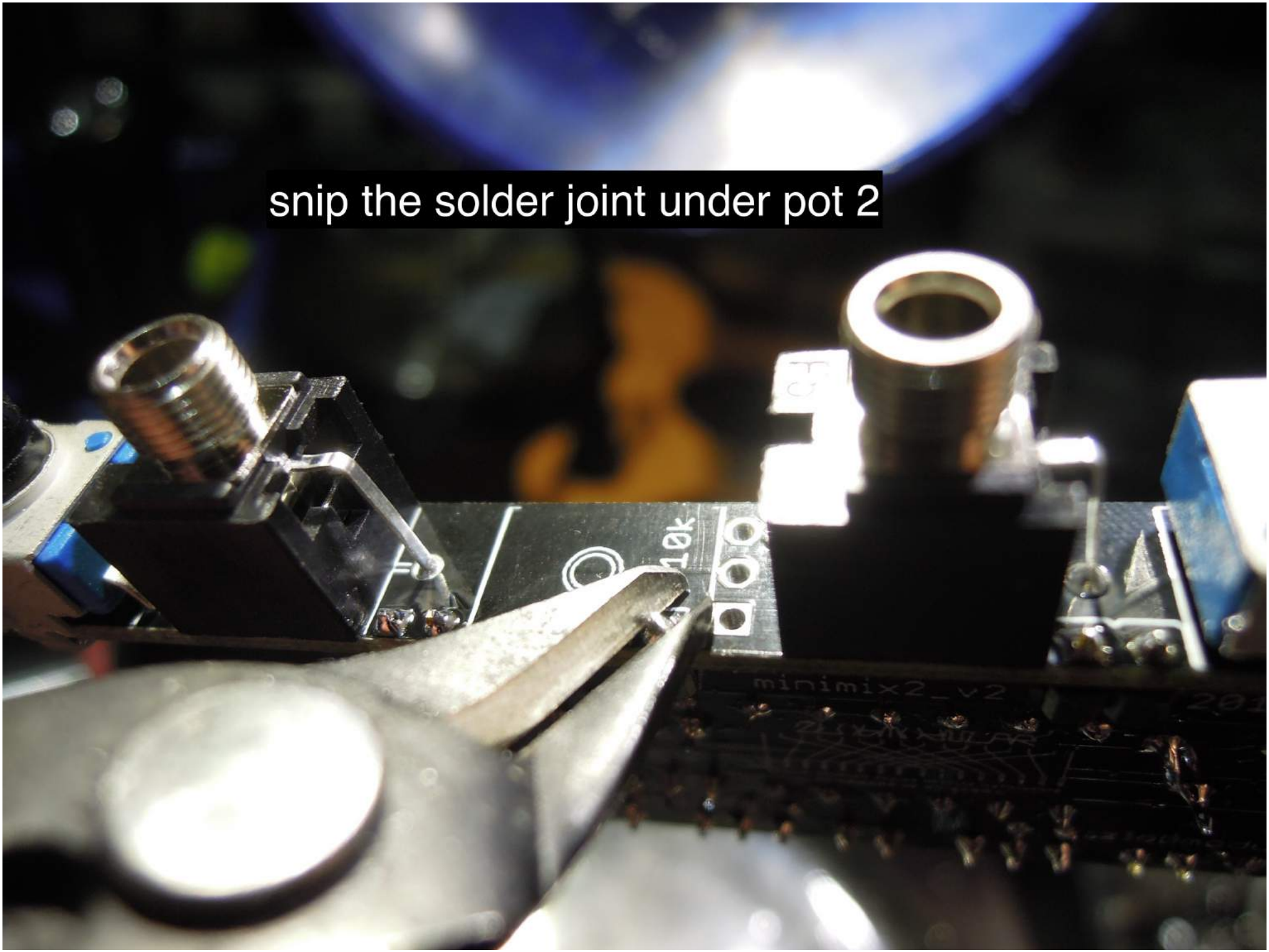

before soldering chassi legs triple check pot is aligned with panel
repeat by bending opposite leg toward pad and solder

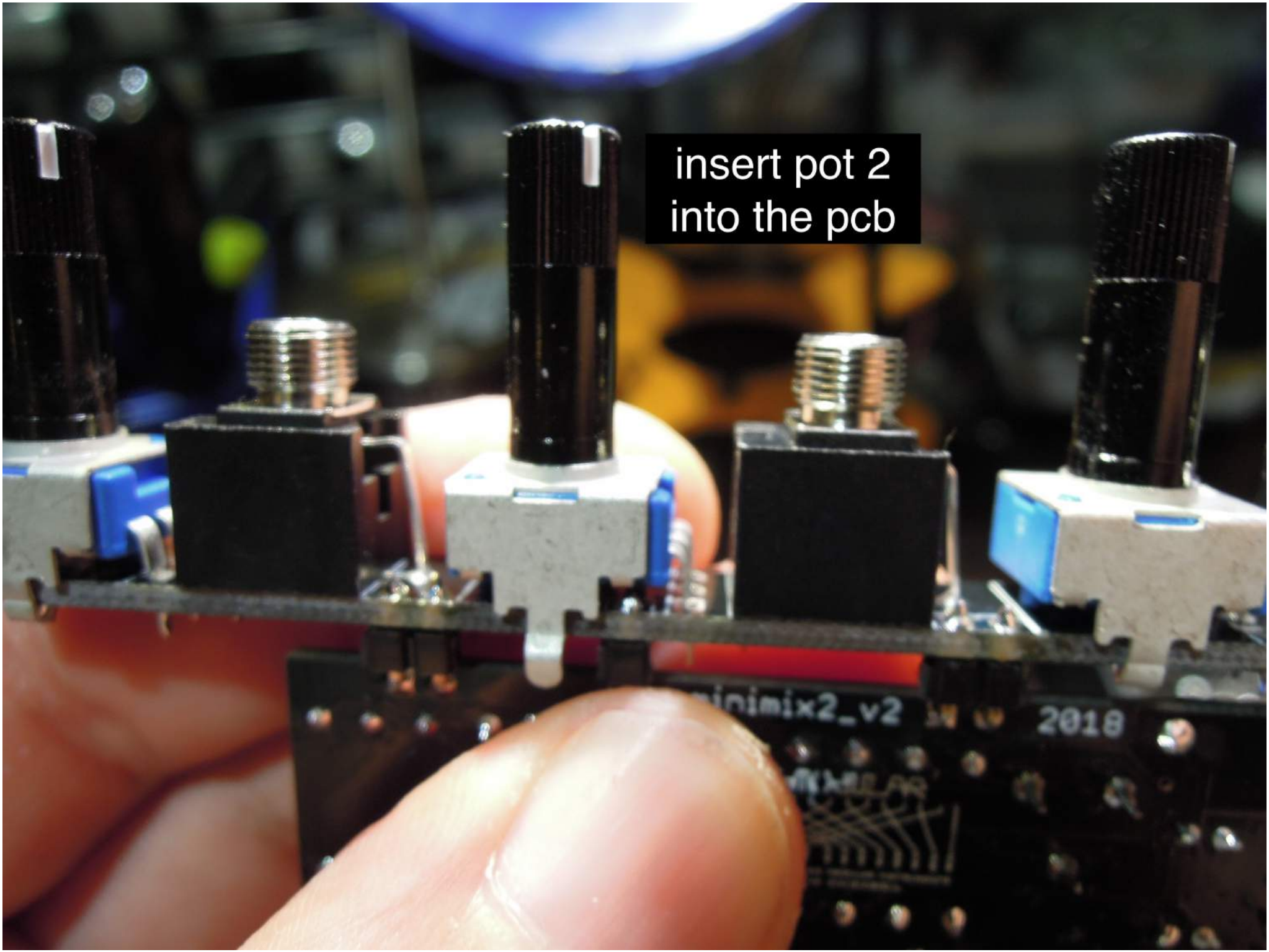

take the panel off
minimix2_v1

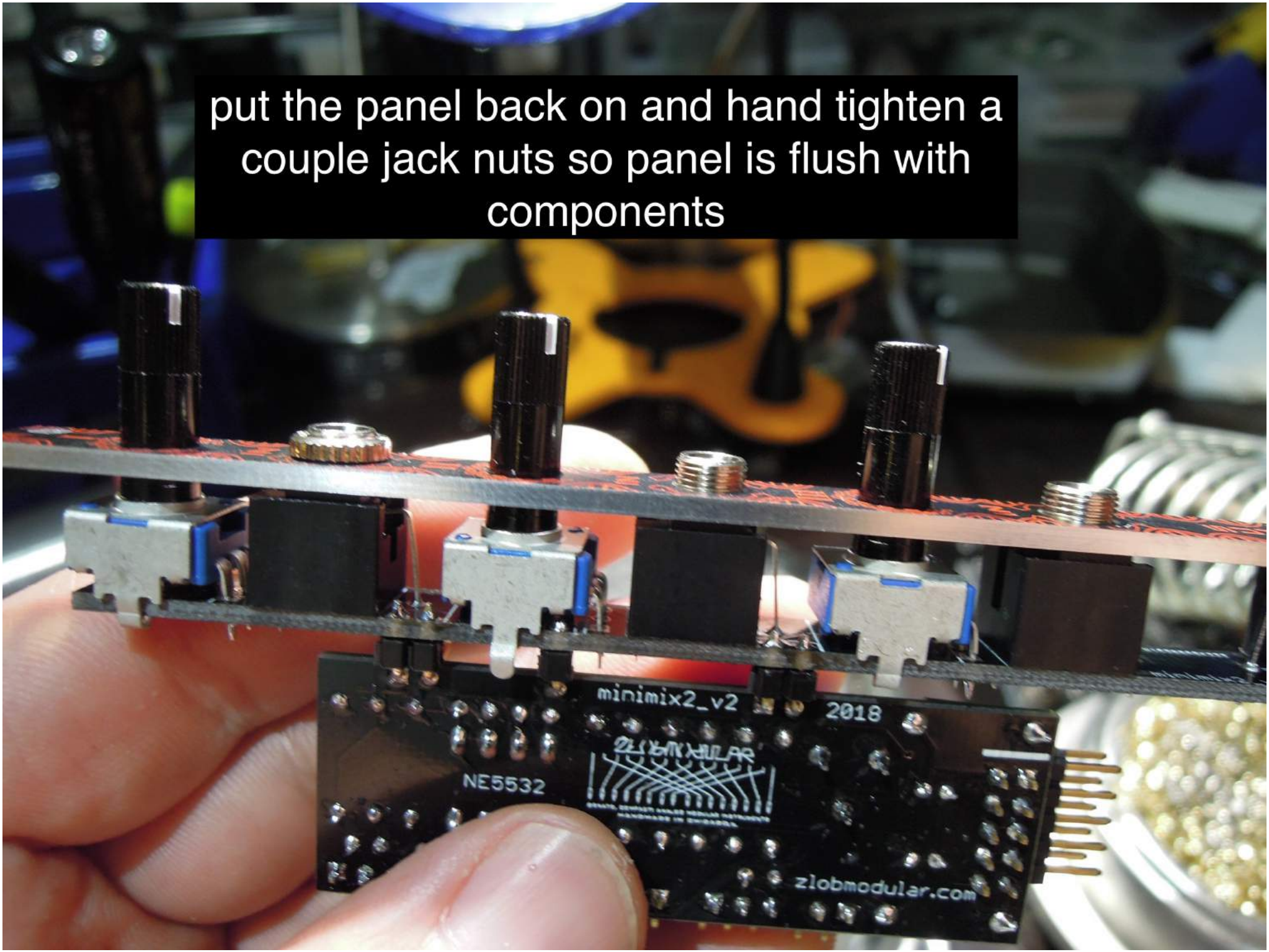

tin the chassi pads for pot 2

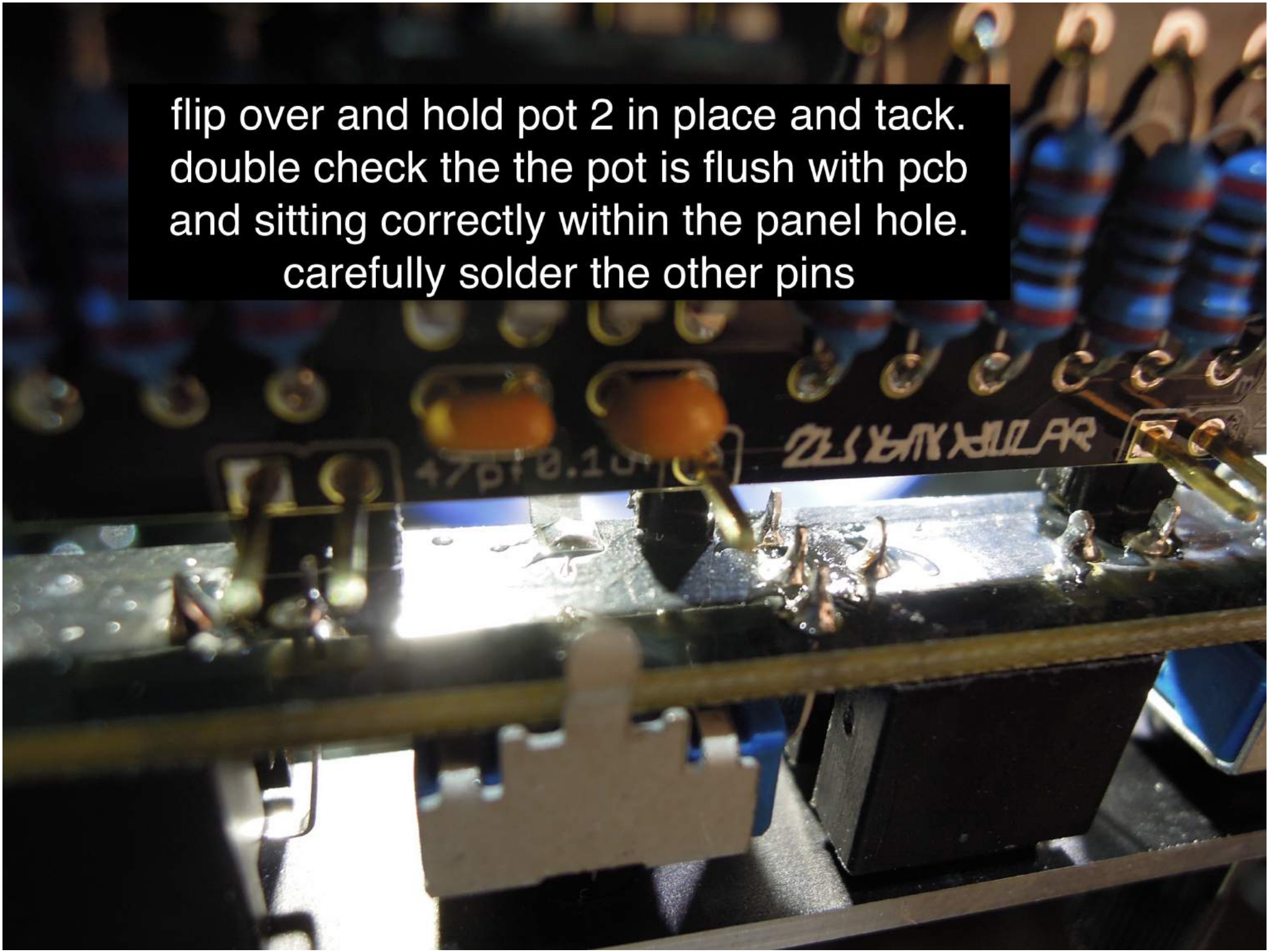

insert the mother board into the top pcb and tack some solder to hold in place. make sure the jumpers poke all the way through and are flush with the top pcb.
minimix2_v2
2018
NE5532

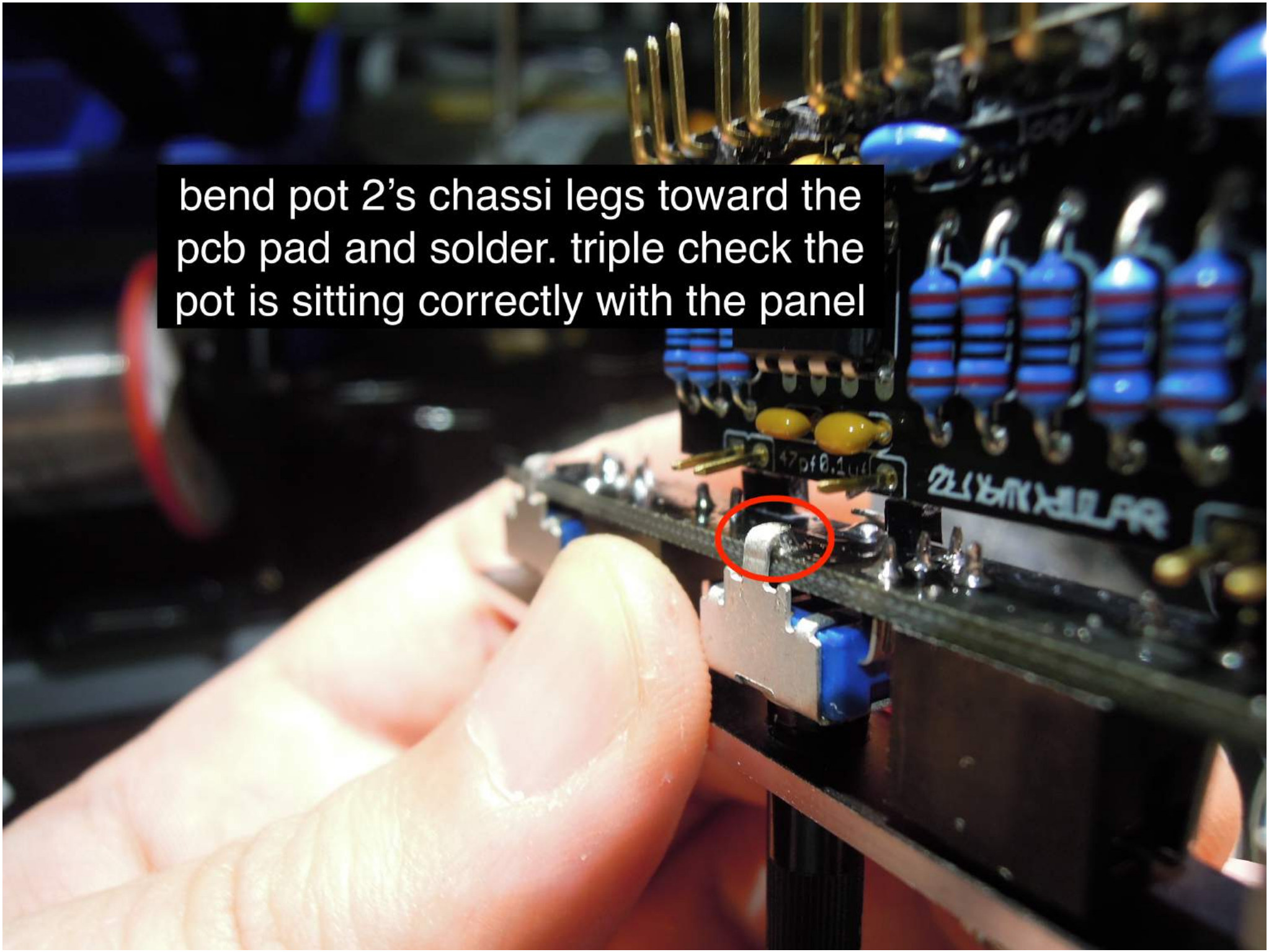

solder the mother
board to the top pcb

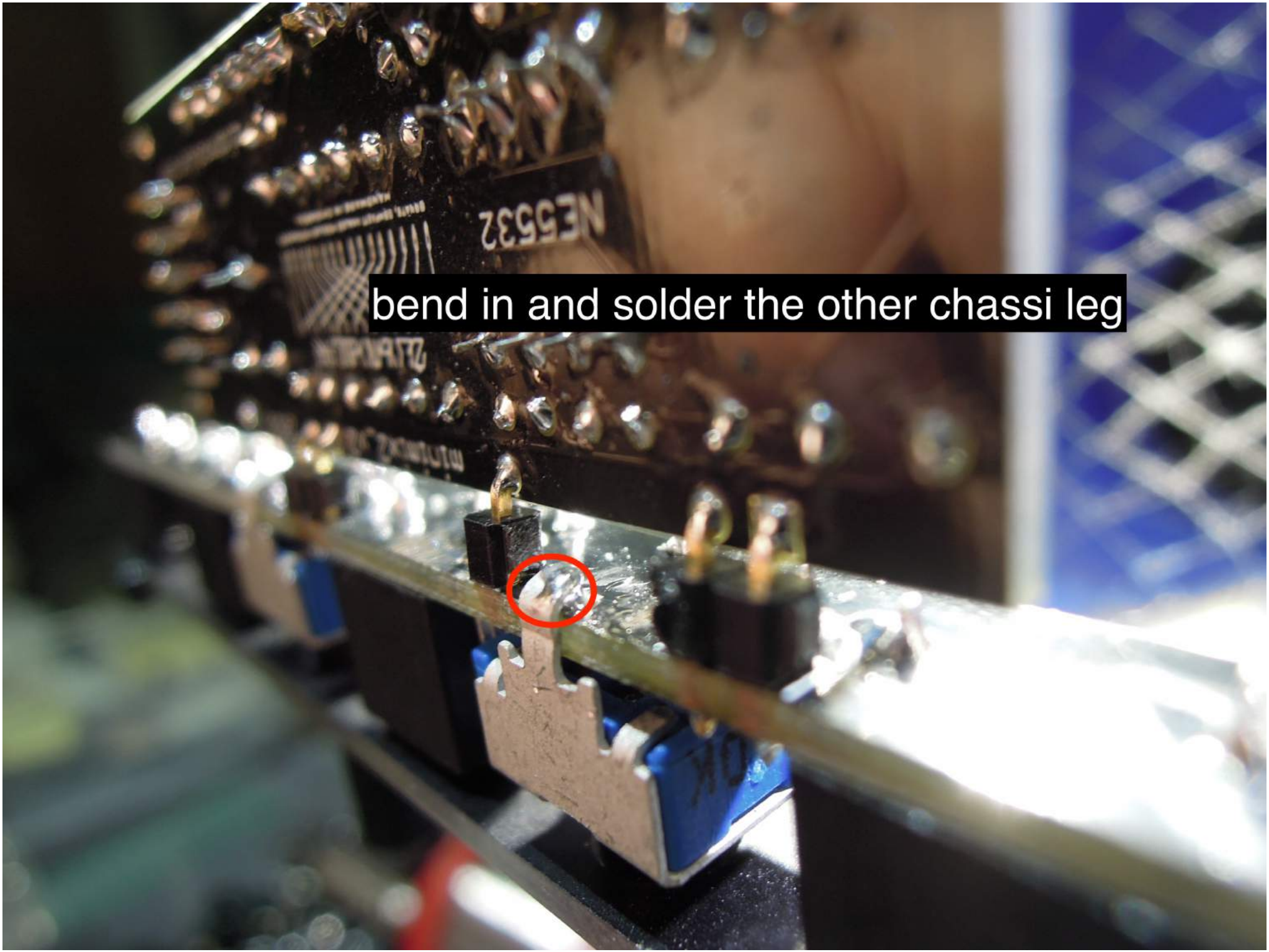

snip the solder joint under pot 2
10k
minimix2_v2


insert pot 2
into the pcb
2018

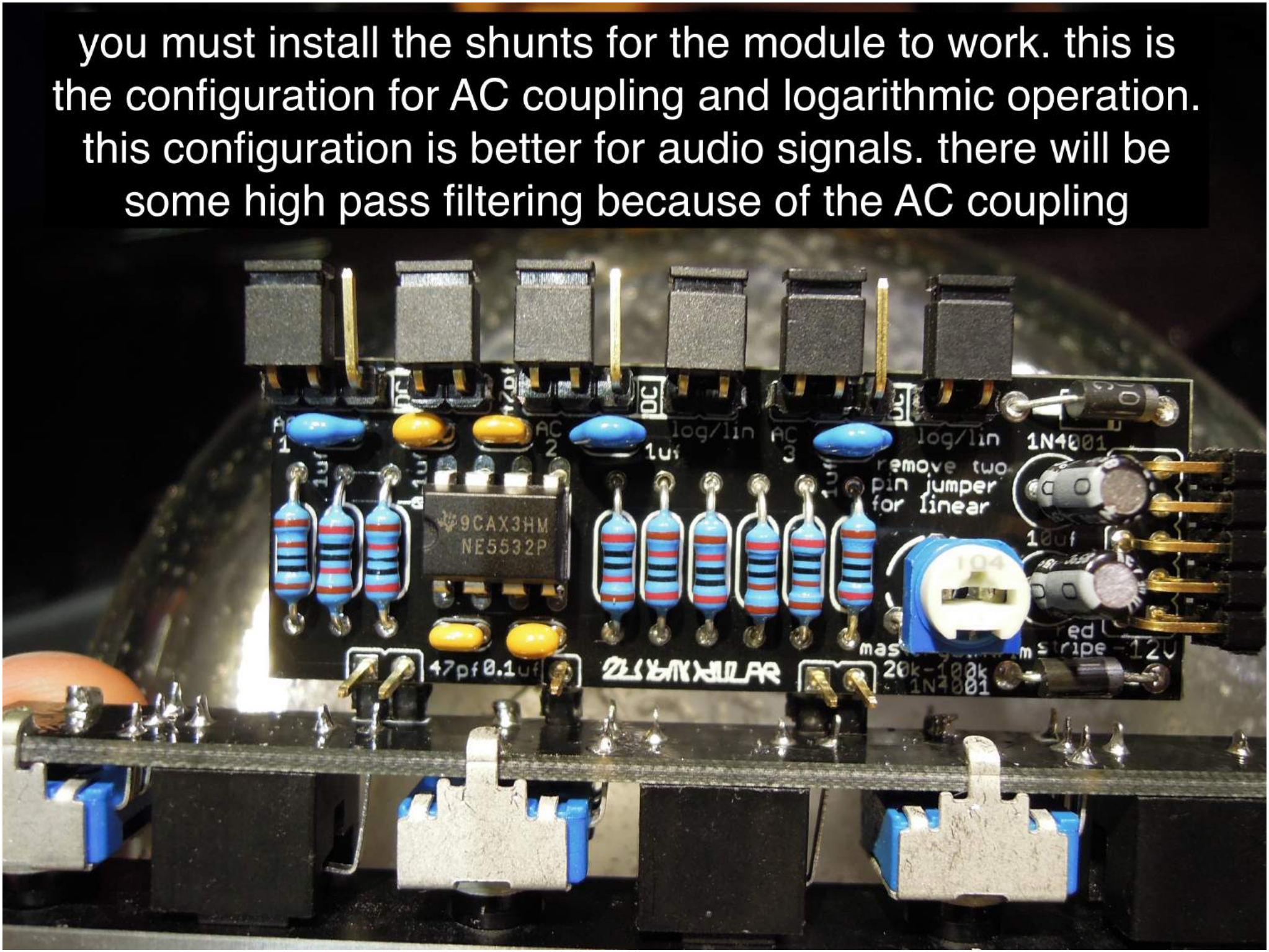

put the panel back on and hand tighten a couple jack nuts so panel is flush with components
minimix2_v2
2018
NE5532
zlobmodular.com


flip over and hold pot 2 in place and tack.
double check the the pot is flush with pcb
and sitting correctly within the panel hole.
carefully solder the other pins


bend pot 2's chassi legs toward the pcb pad and solder. triple check the pot is sitting correctly with the panel


bend in and solder the other chassi leg

you must install the shunts for the module to work. this is the configuration for AC coupling and logarithmic operation. this configuration is better for audio signals. there will be some high pass filtering because of the AC coupling



this is the configuration for DC coupling and linear operation. this configuration is better suited for control voltage mixing. the trim pot sets the master gain for all 3 channels. turn to the left for less gain or to the right for more gain. if you use a 100k trim, the center position will be around unity gain