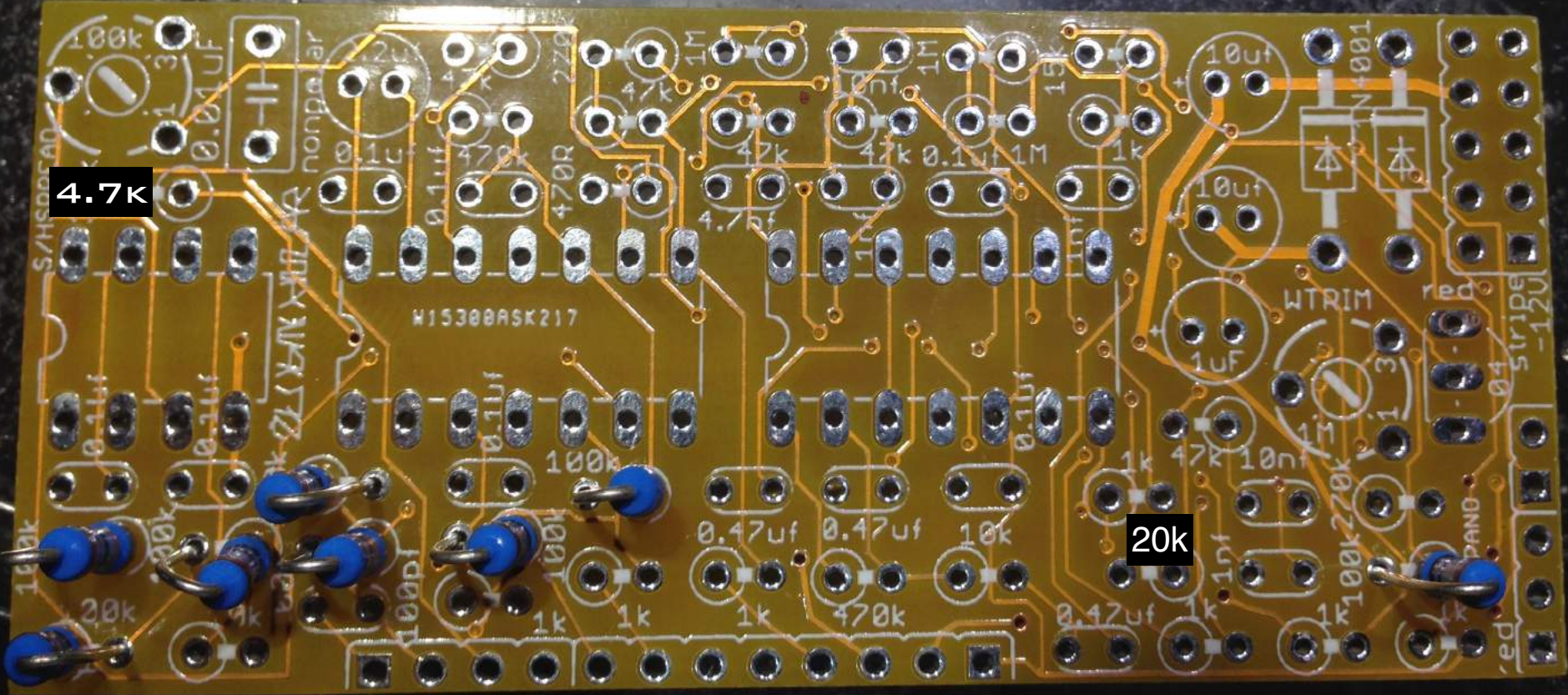
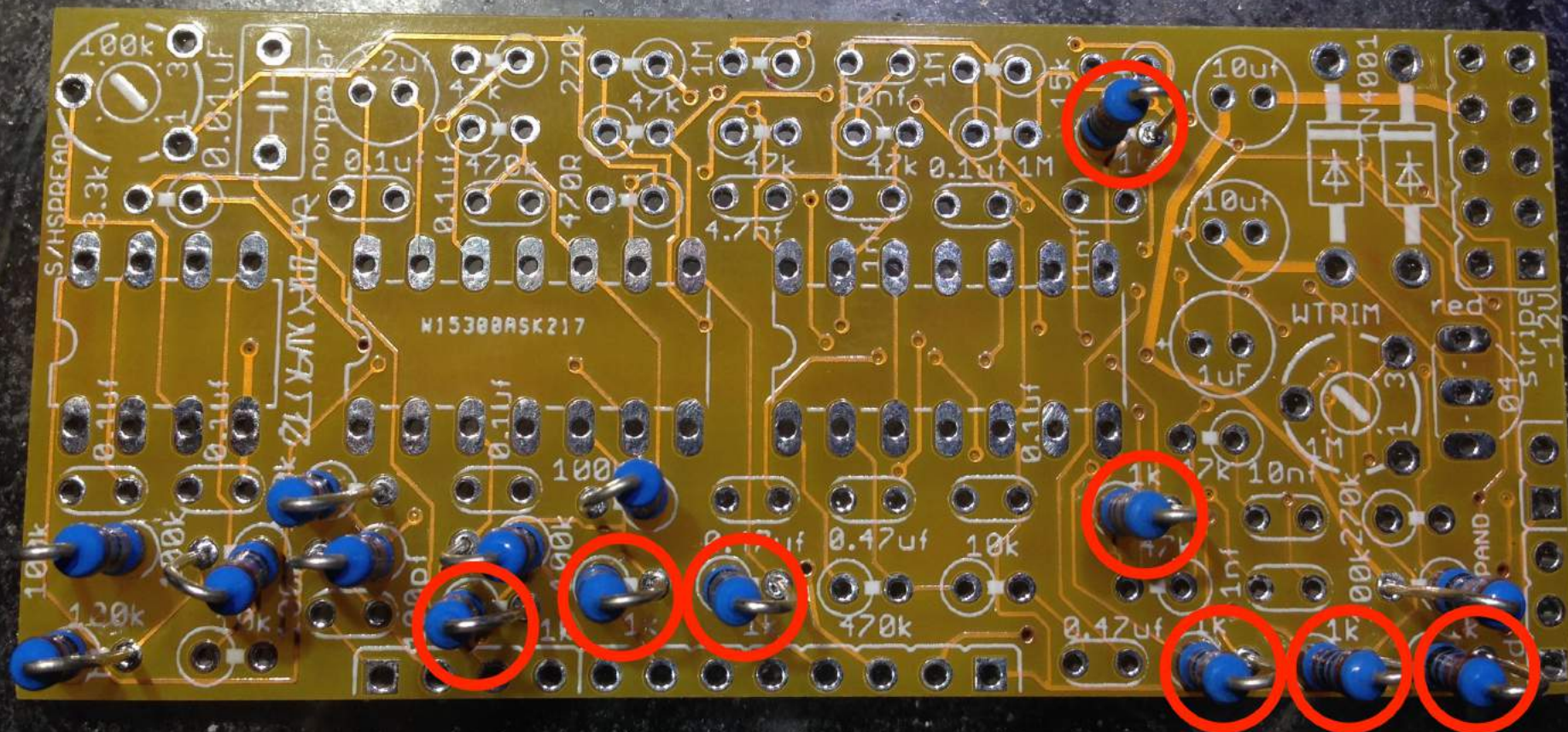


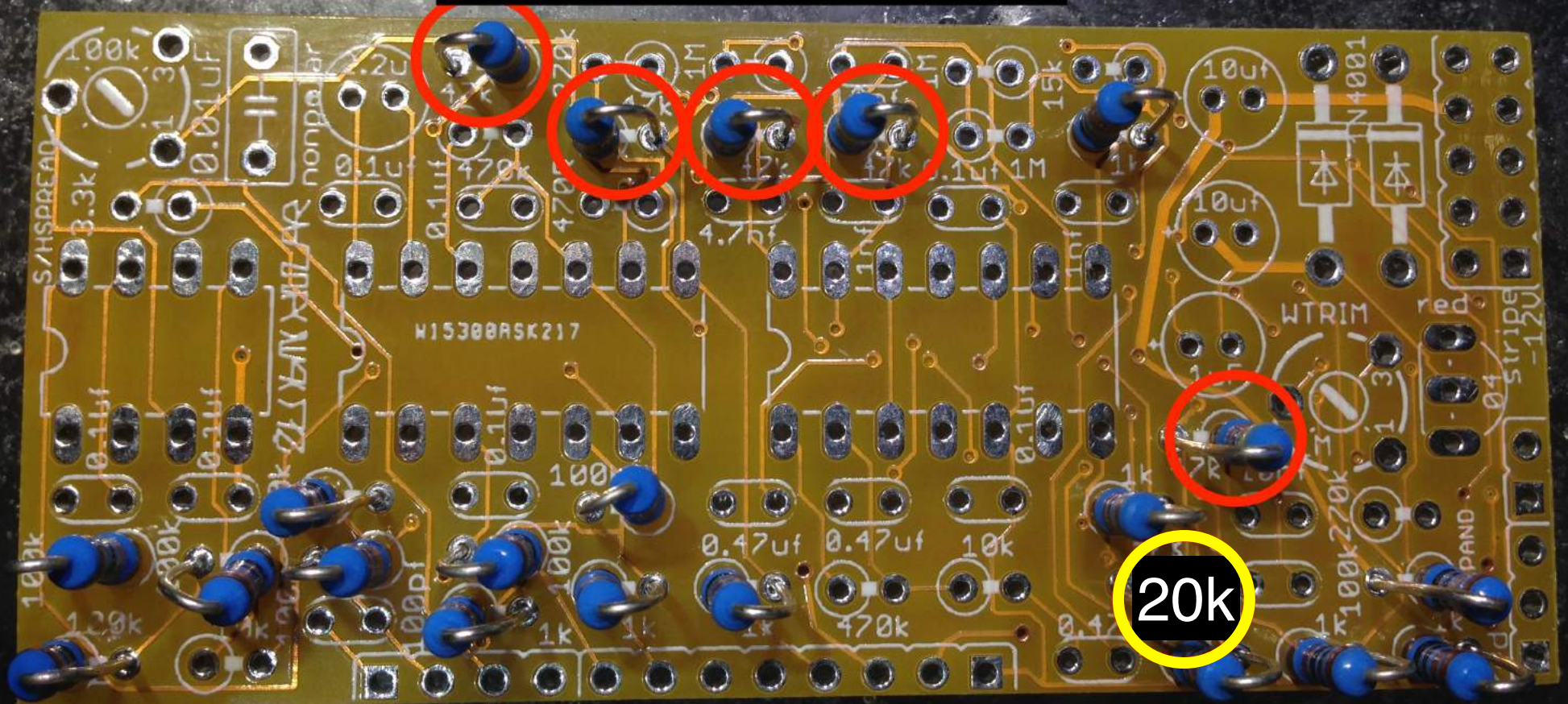
8
100k
brown, black, black,
orange, brown



8
1k
brown,black,black,
brown,brown

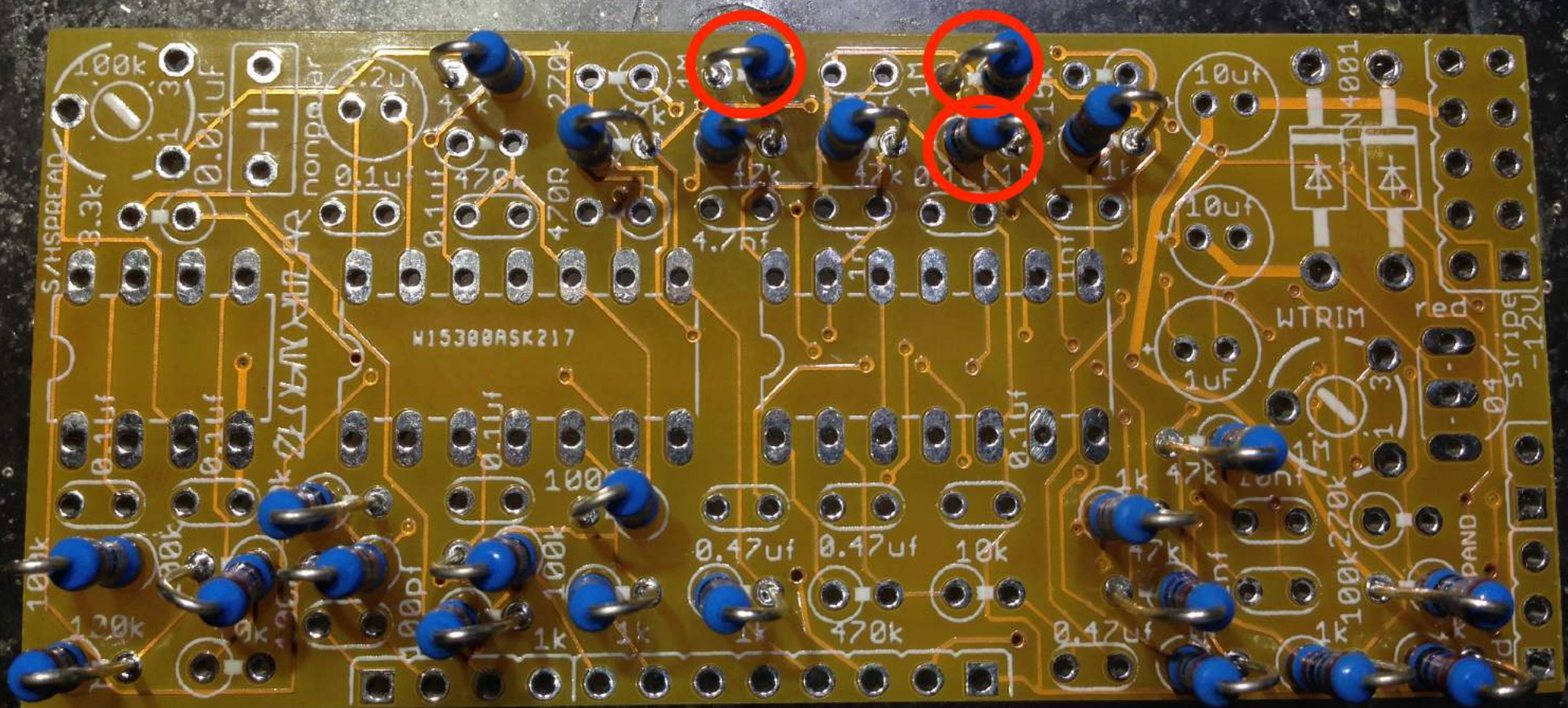


5
47k
yellow, purple, black,
red, brown

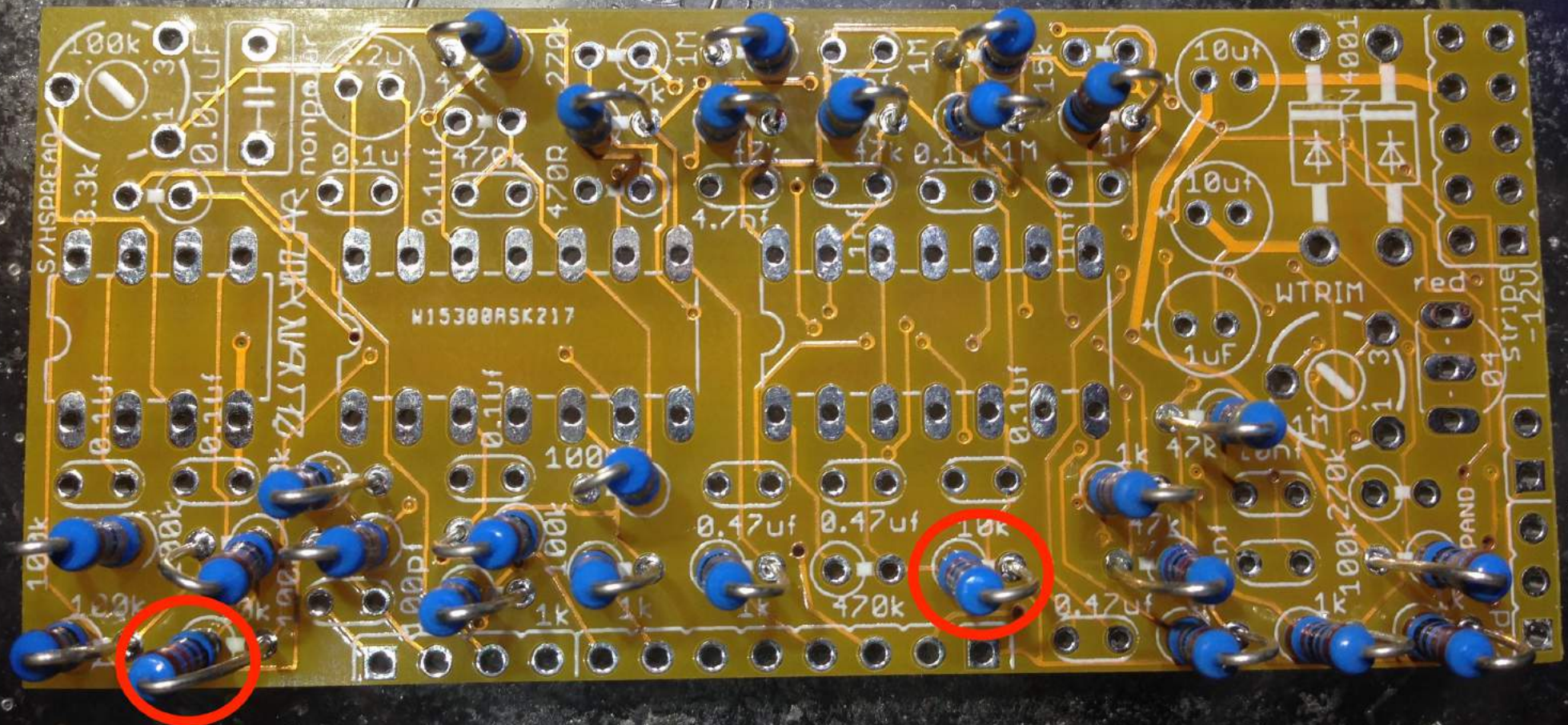


the yellow circled value should now be 20k. some pcbs will still say 47k, but it has now changed to 20k.

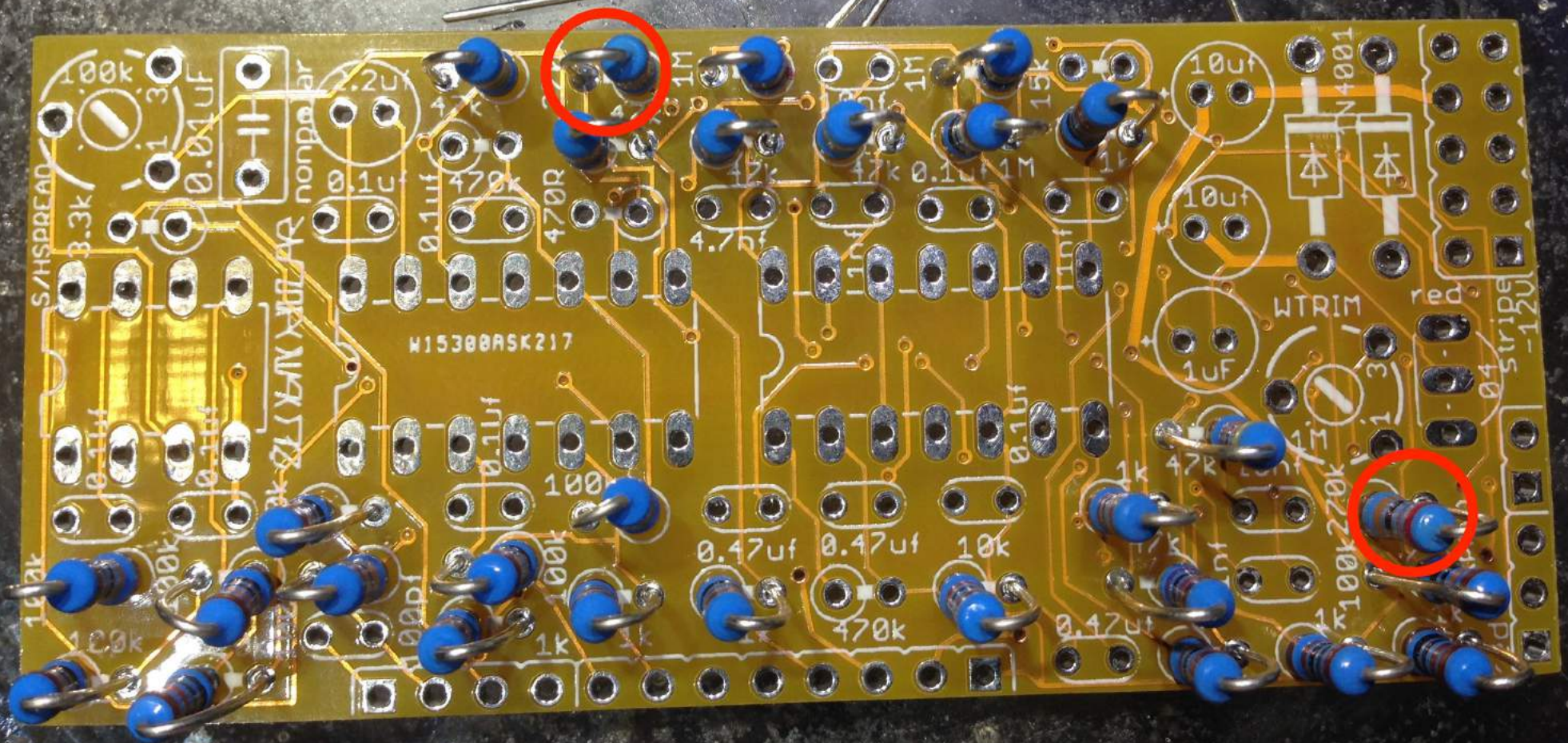
3
1M
brown,black,black,
yellow,brown



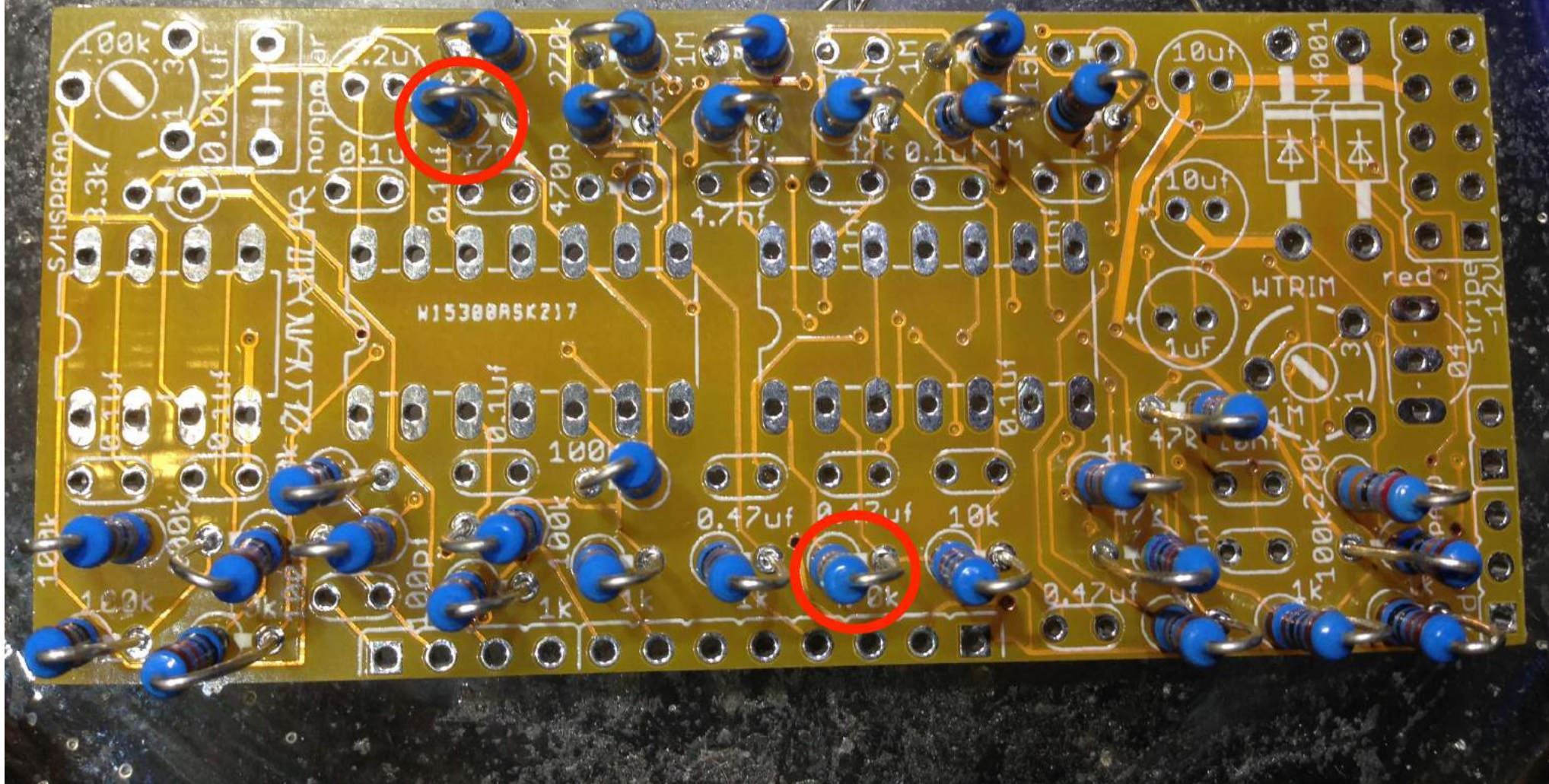
2
10k
brown,black,
black,red, brown



2
270k
red circles
red, purple, black,
orange, brown

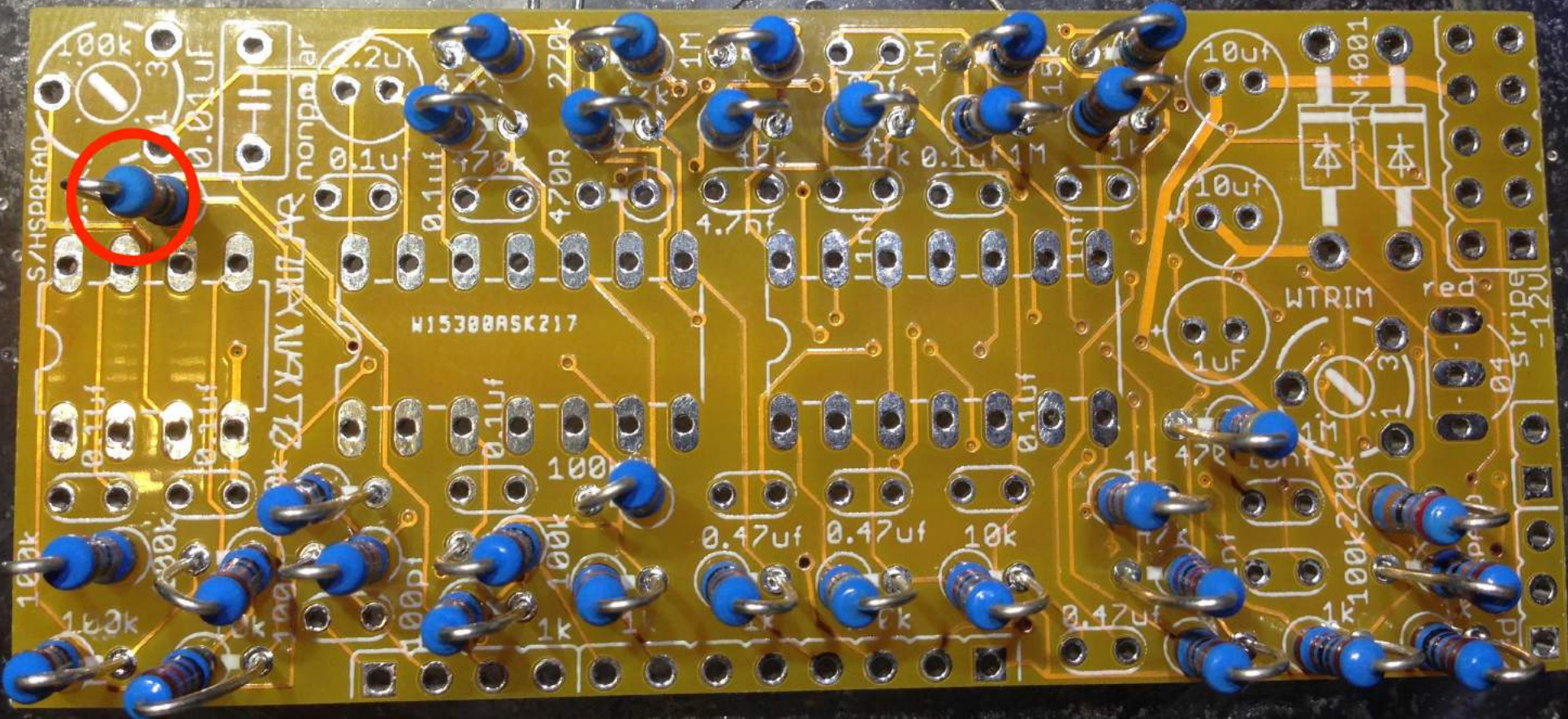


2
470k
yellow, purple,
black, orange,
brown

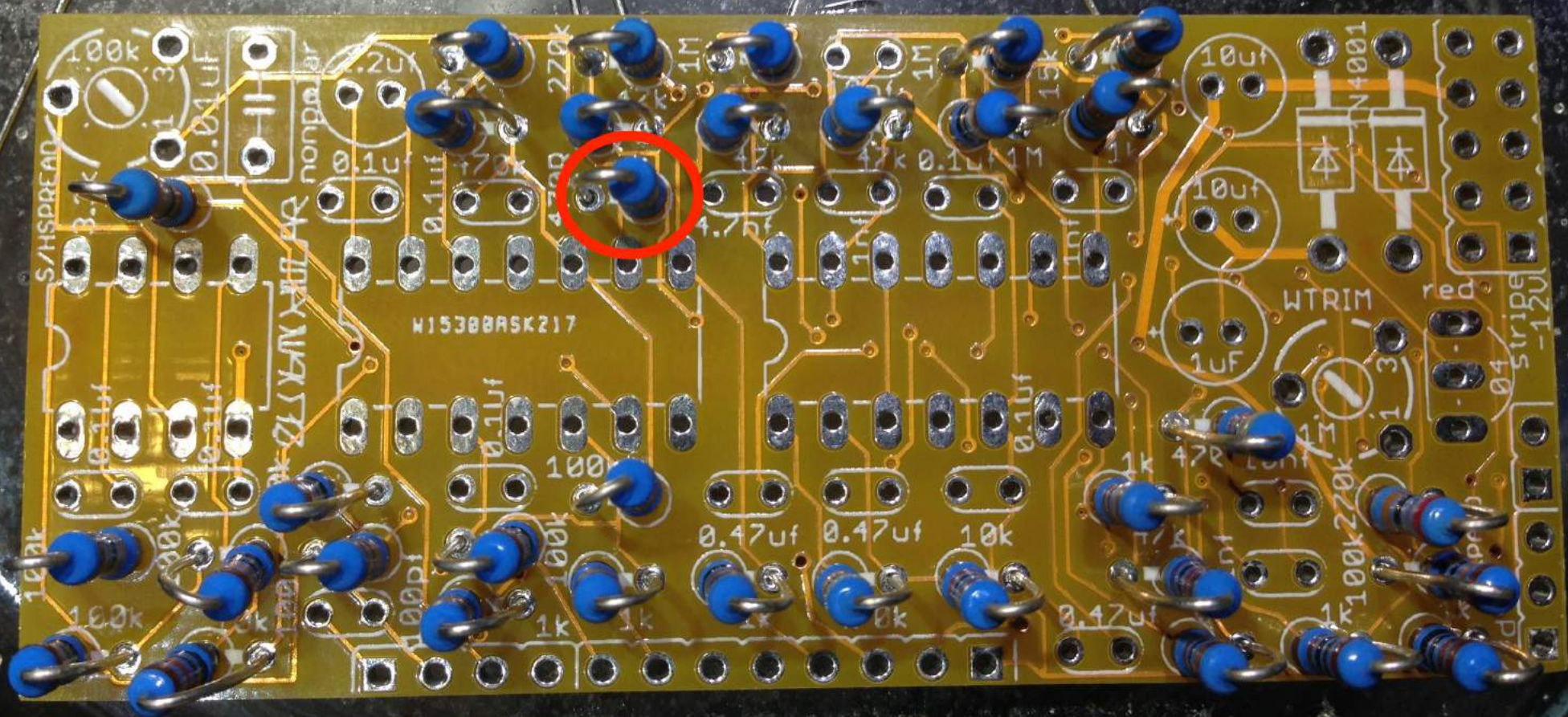




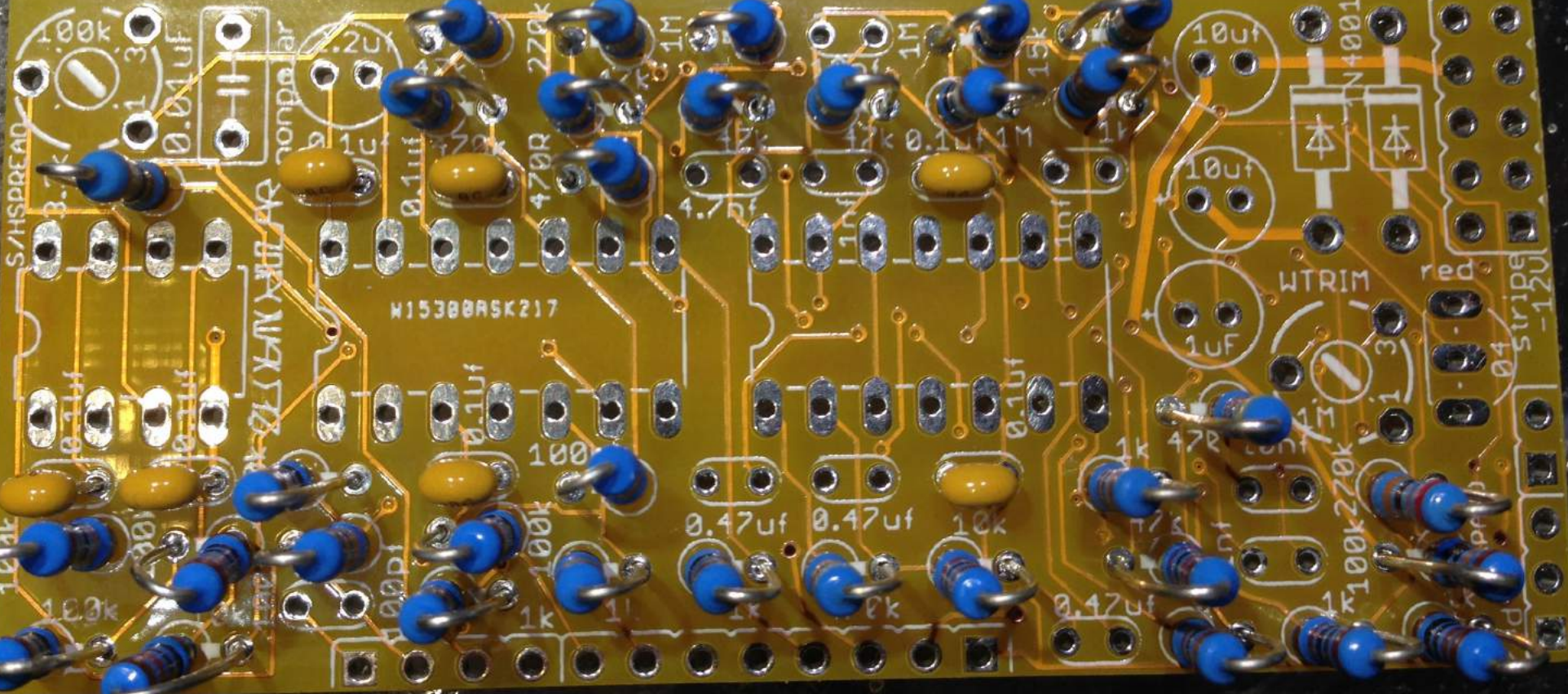
1
4.7K
YELLOW,PURPLE,
BLACK,BROWN,BROWN.
BOARDS WILL SAY 3.3K BUT
THIS SHOULD BE 4.7K NOW



1
470R
yellow, purple, black,
black, brown



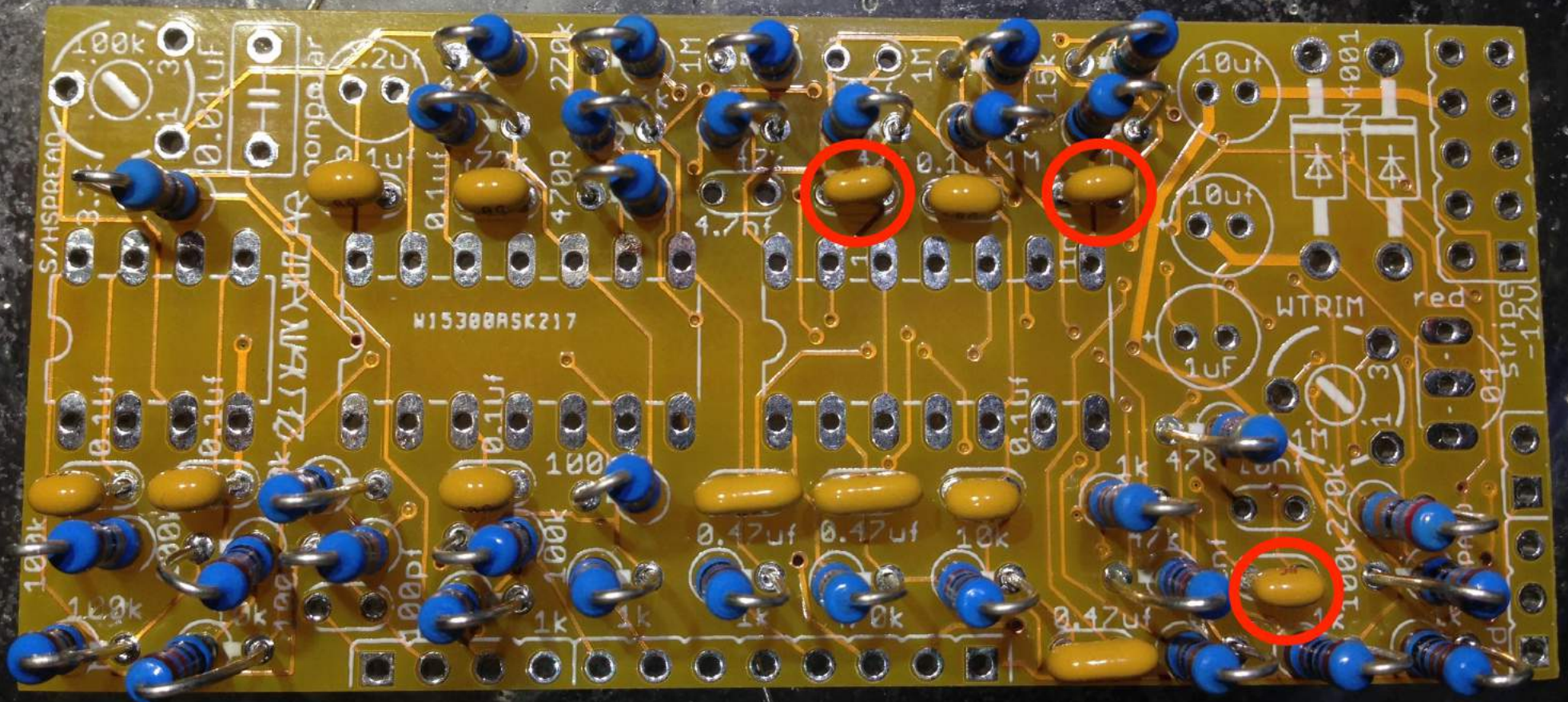
104



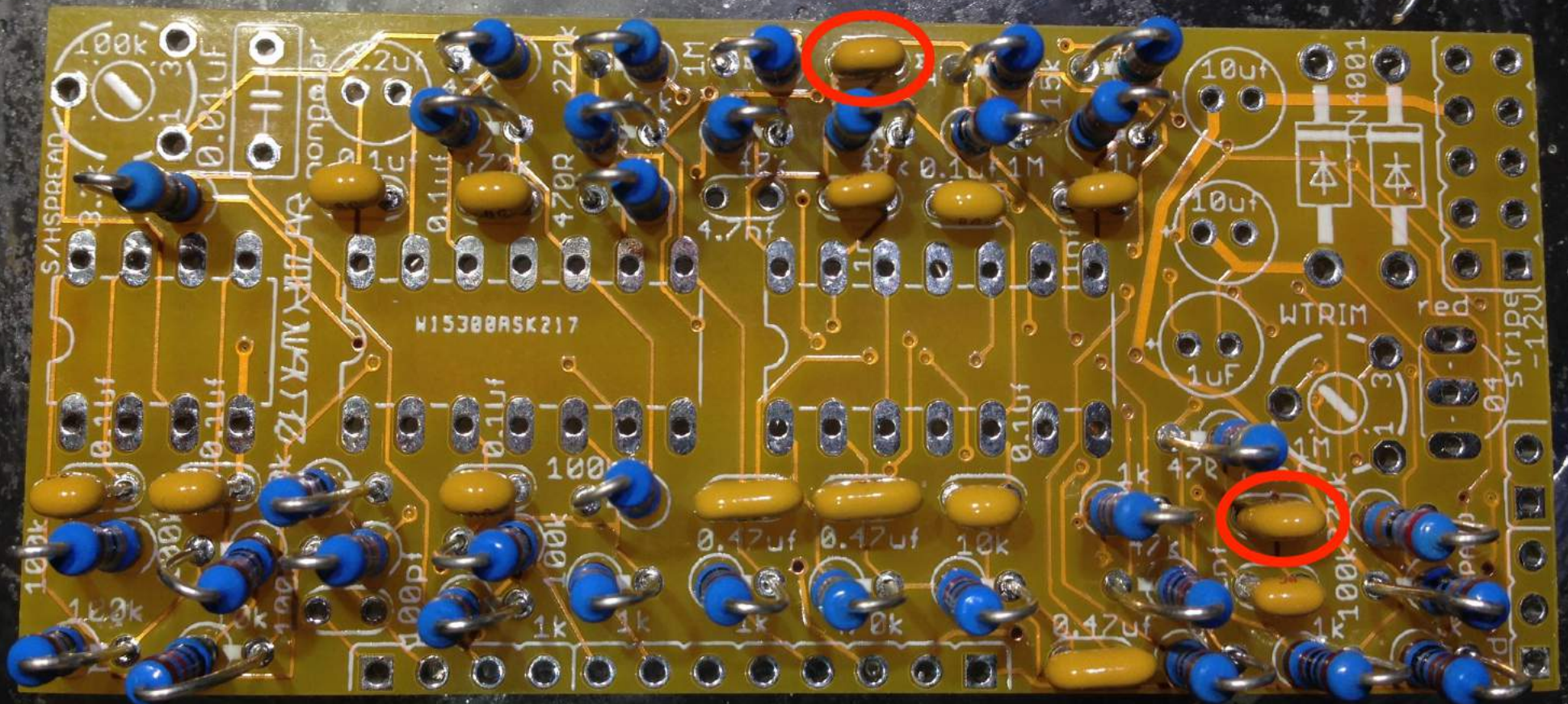
474



3
1nf=0.001uf
102

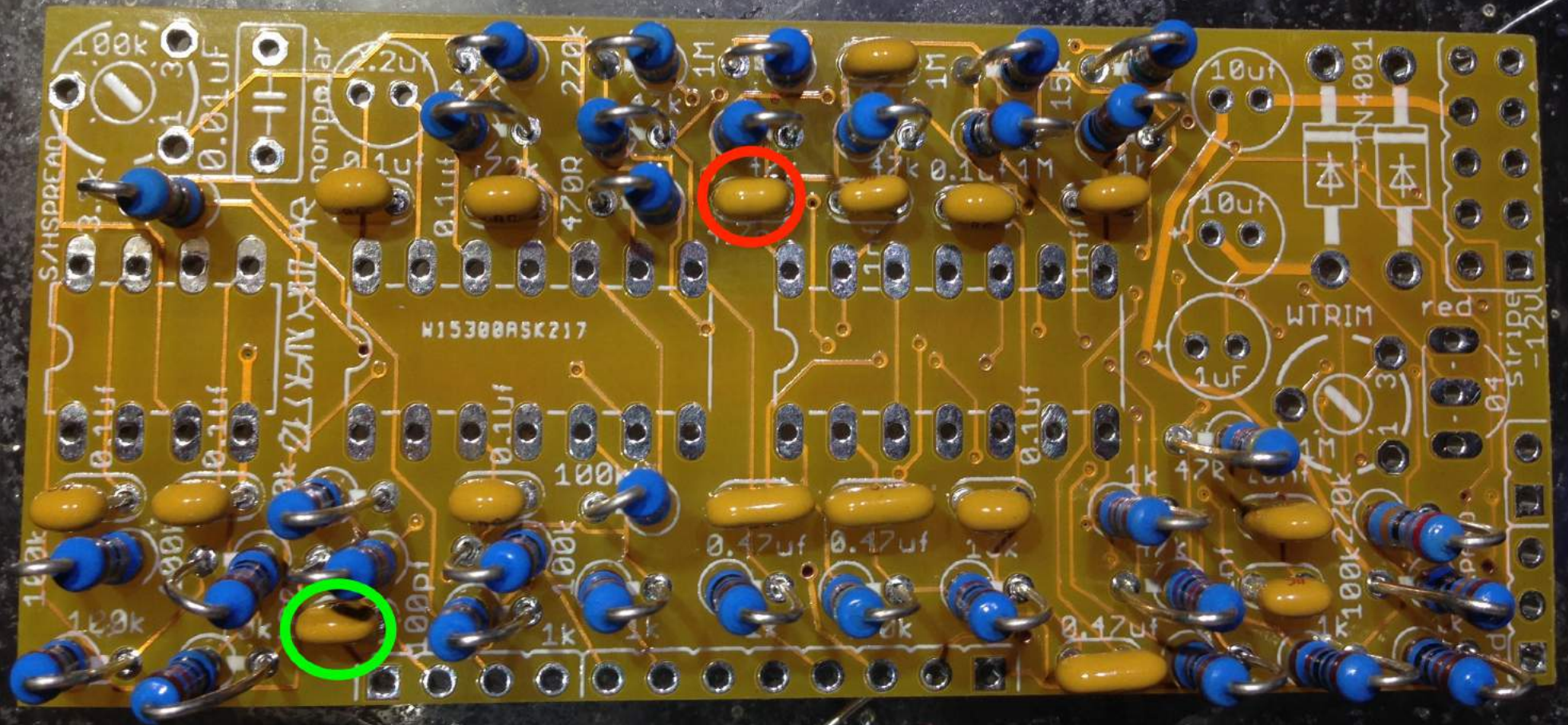


2
10nf=0.01uf
103



1
100pf
green circle
101

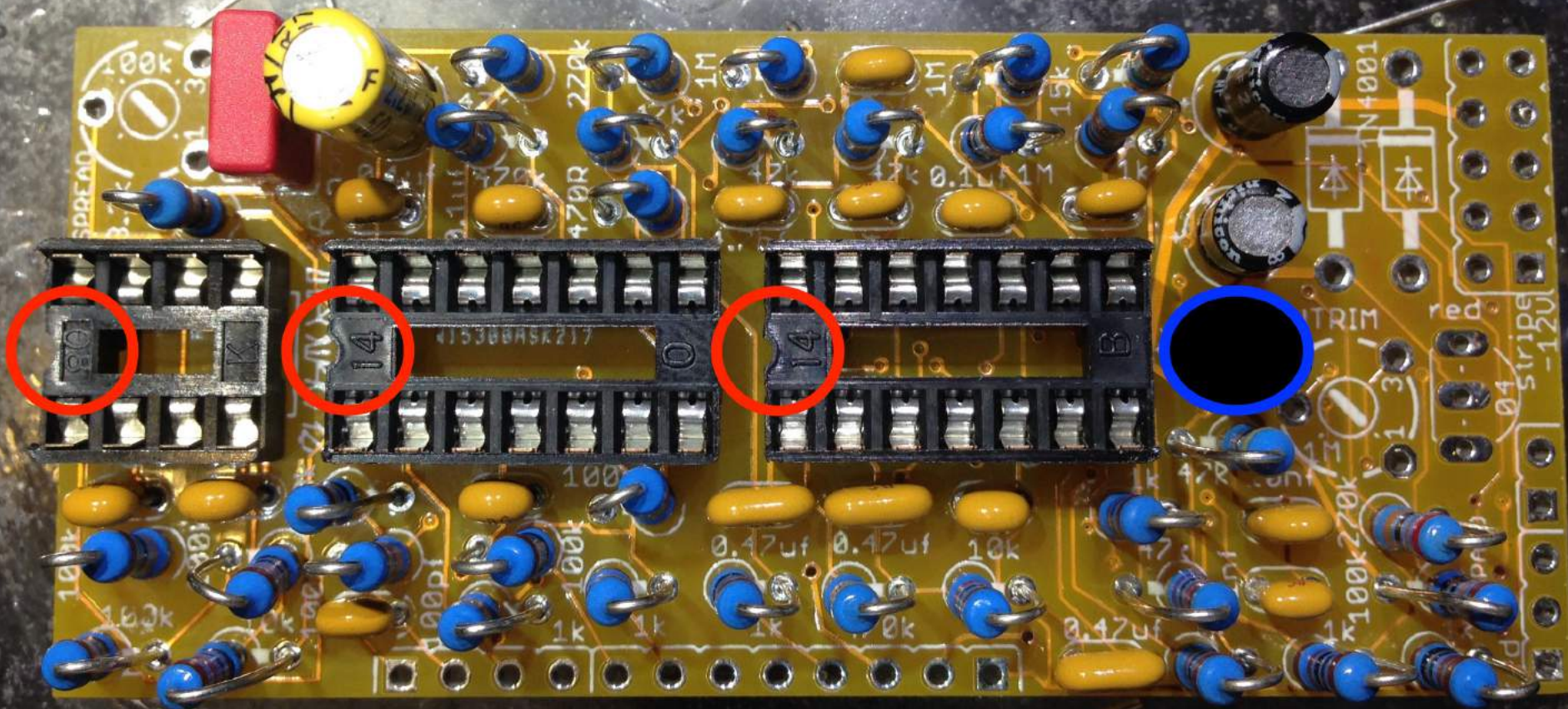
1
4.7nf
red circle
472



note proper
polarity for 10uf
caps



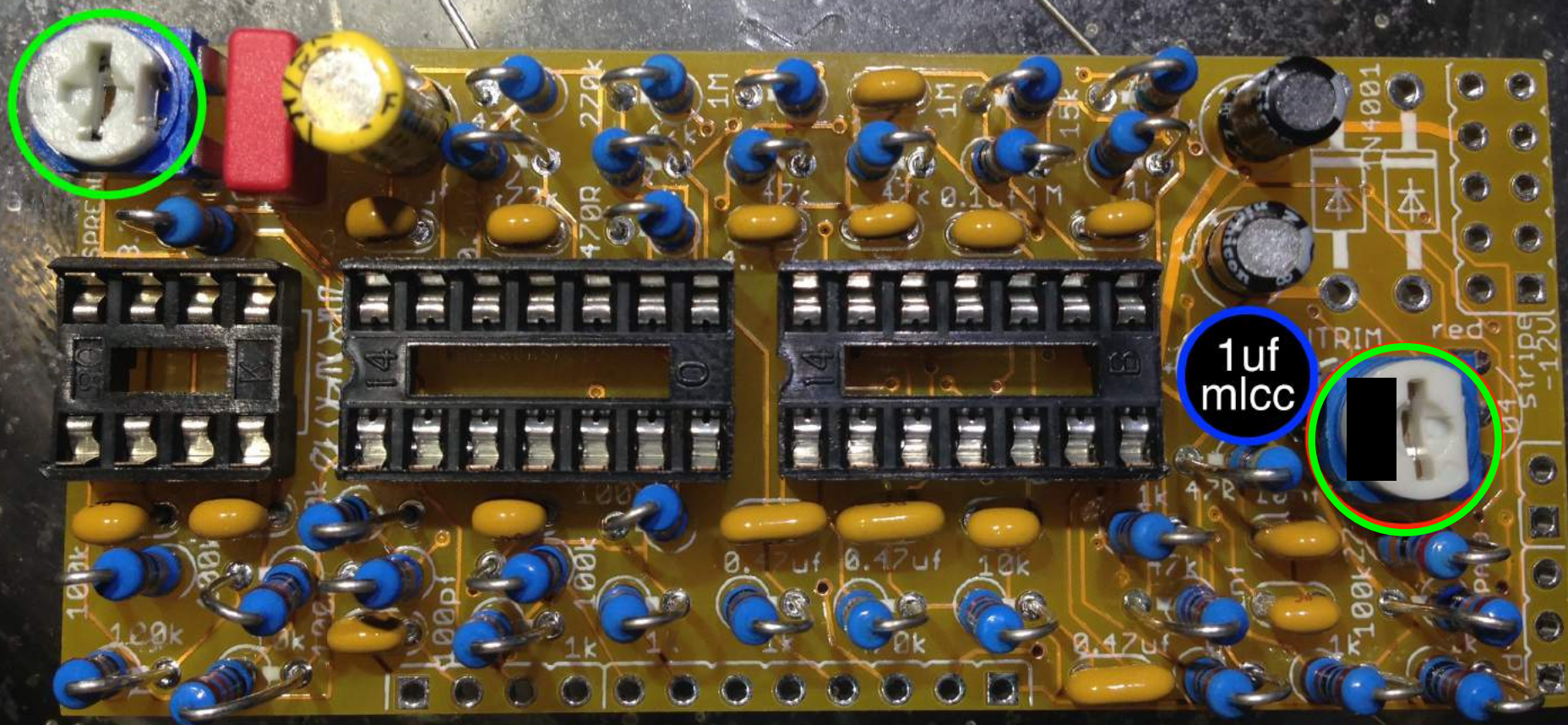
install dip sockets, pay attention to the direction of the notch



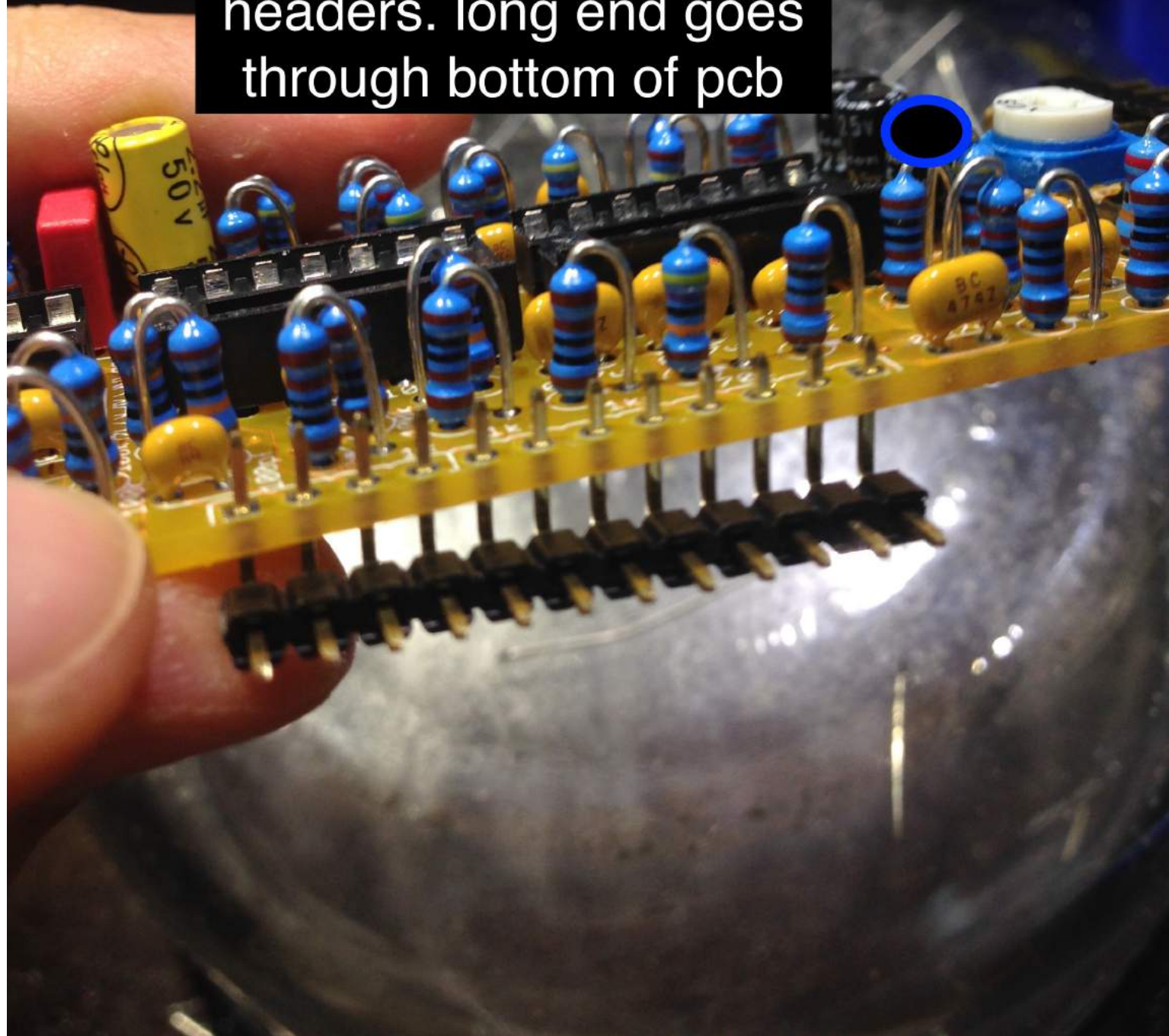
2

100k trim
green circle
104

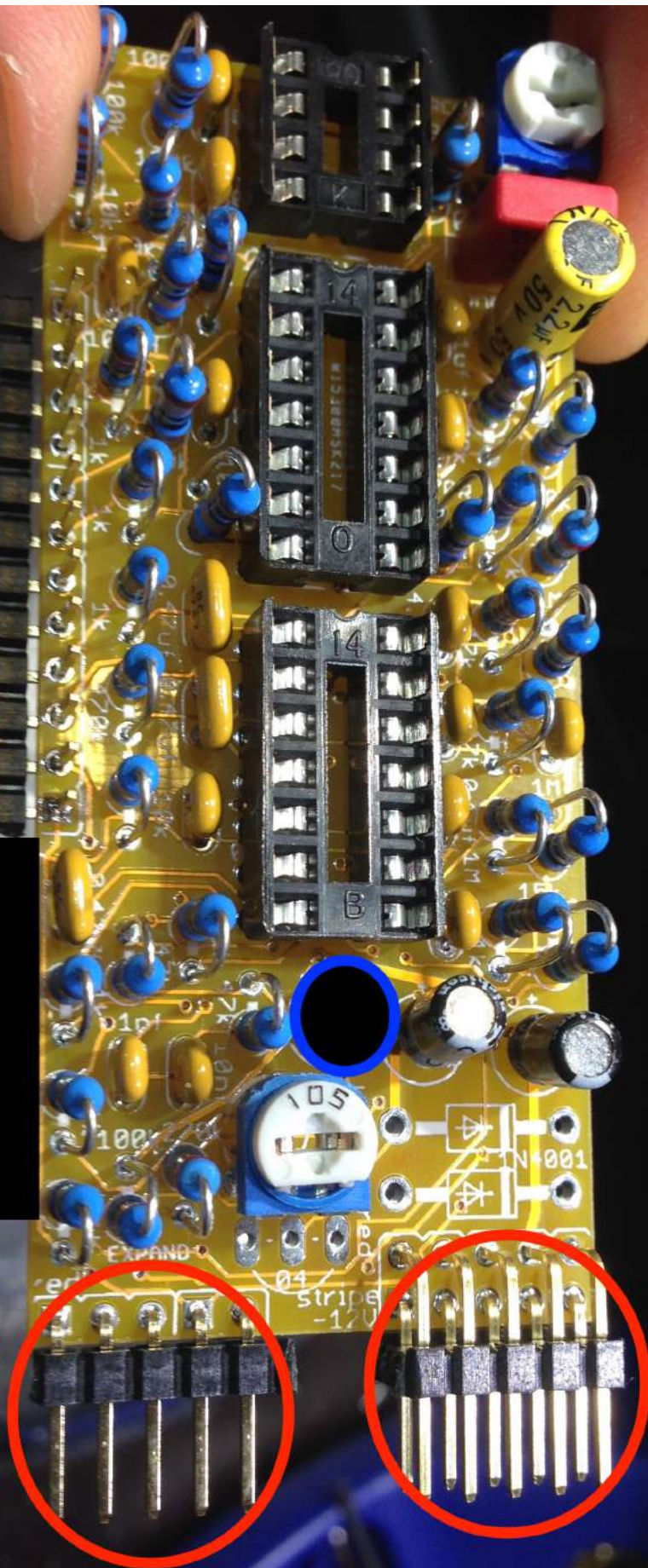
MANY PCBS SAY
1 M FOR THE TRIM
BELOW. BUT IT
SHOULD BE 100K
NOW.

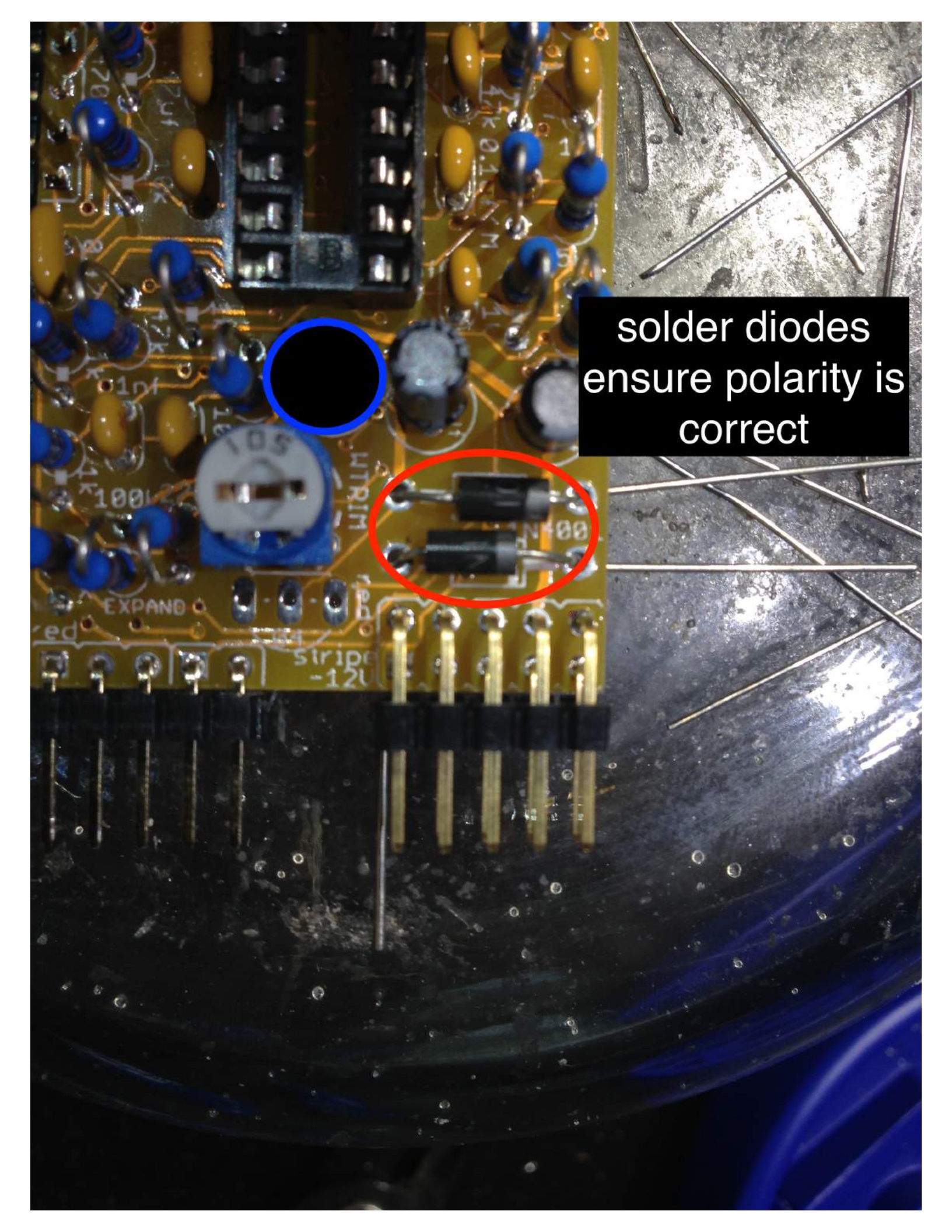


insert/solder right angle
headers. long end goes
through bottom of pcb



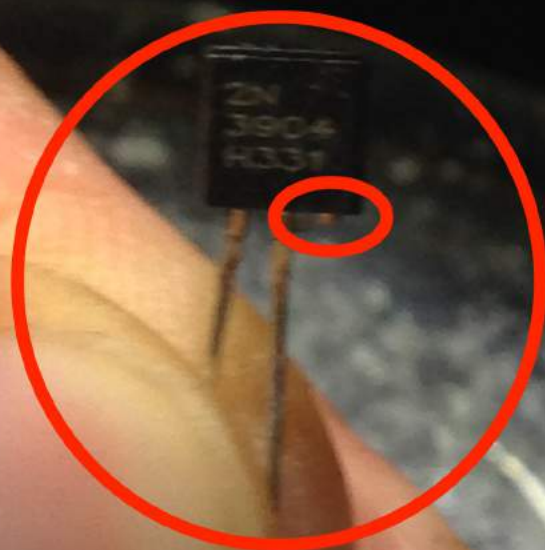
solder
expander
header
and power
header



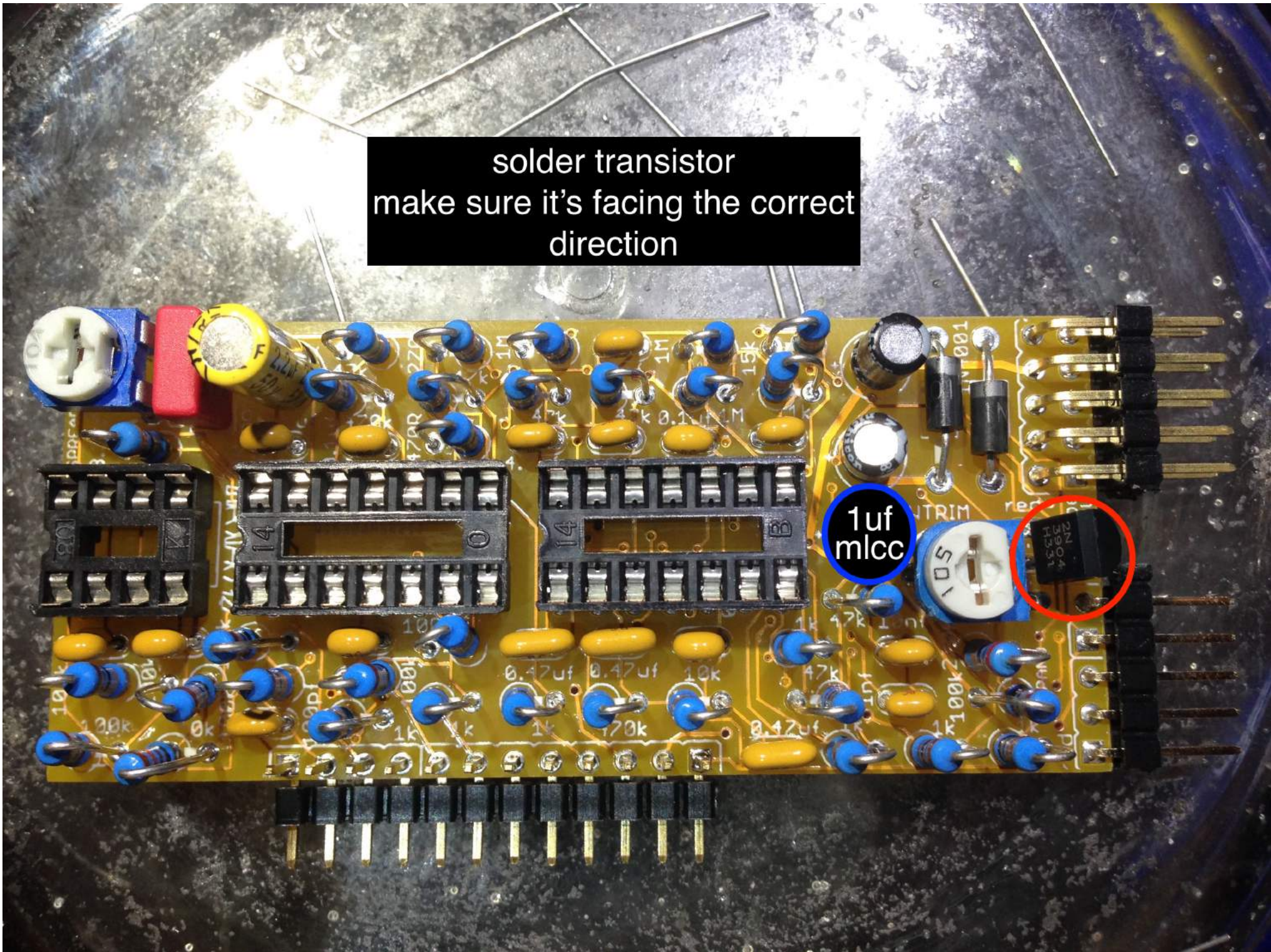


solder diodes
ensure polarity is
correct

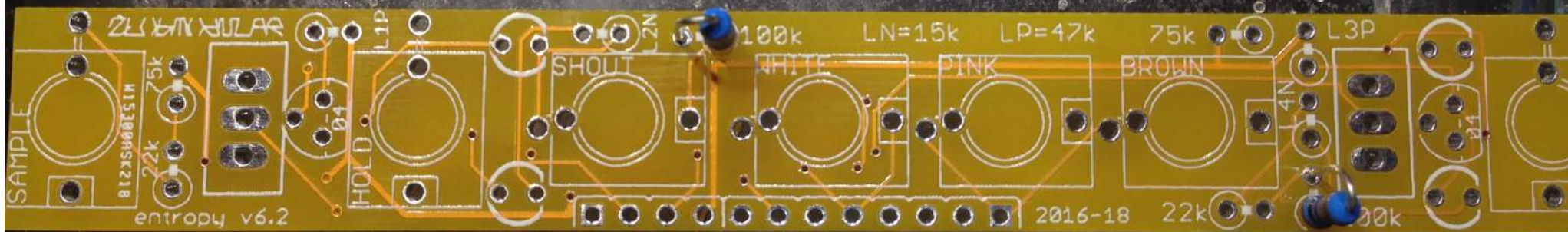
cut collector
of transistor



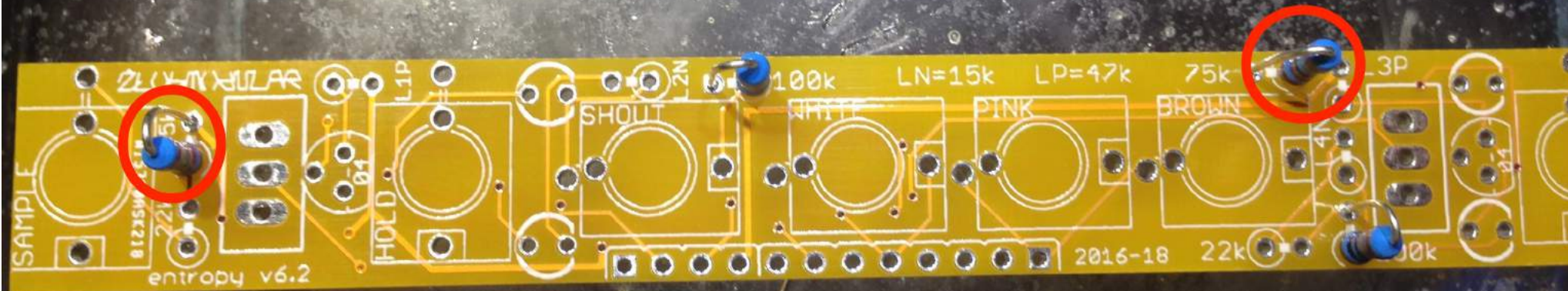
solder transistor
make sure it's facing the correct
direction



2
100k
brown,black,black,
orange,brown

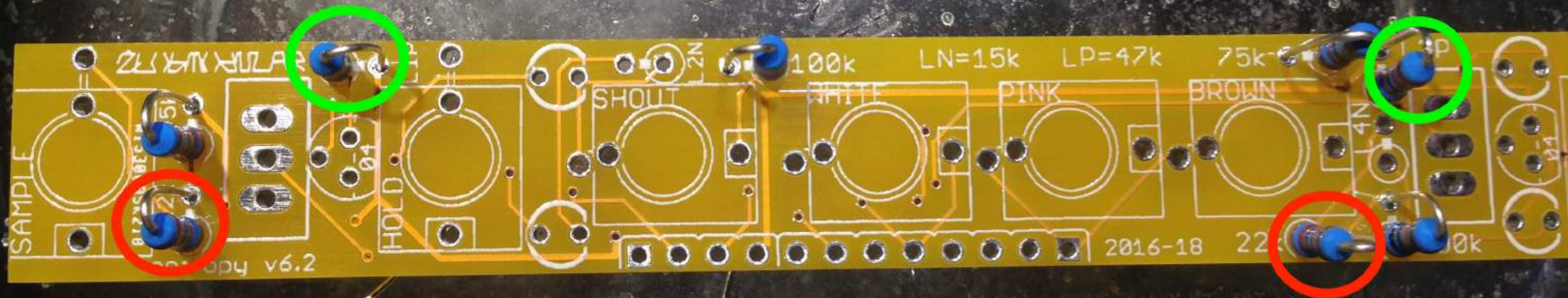


2
75k
purple,green,black,
red,brown

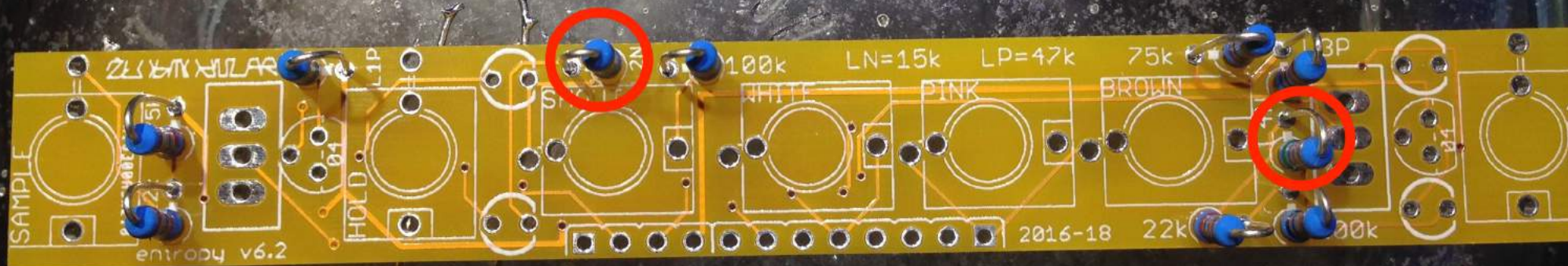


2
22k
red circles
red,red,black,red,brown

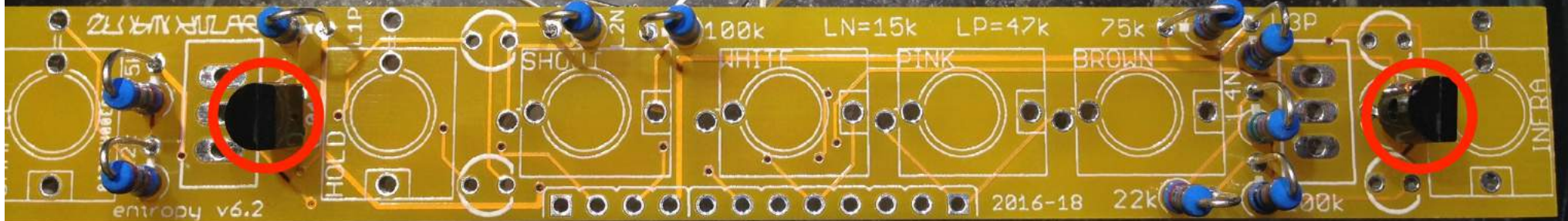
2
47k
green circles
yellow,purple,black,red,brown
sets brightness of positive
indicating(red) led



2
15k
brown, green, black, red,
brown
sets brightness of
negative(blue)
indicating led




2
3904 transistors

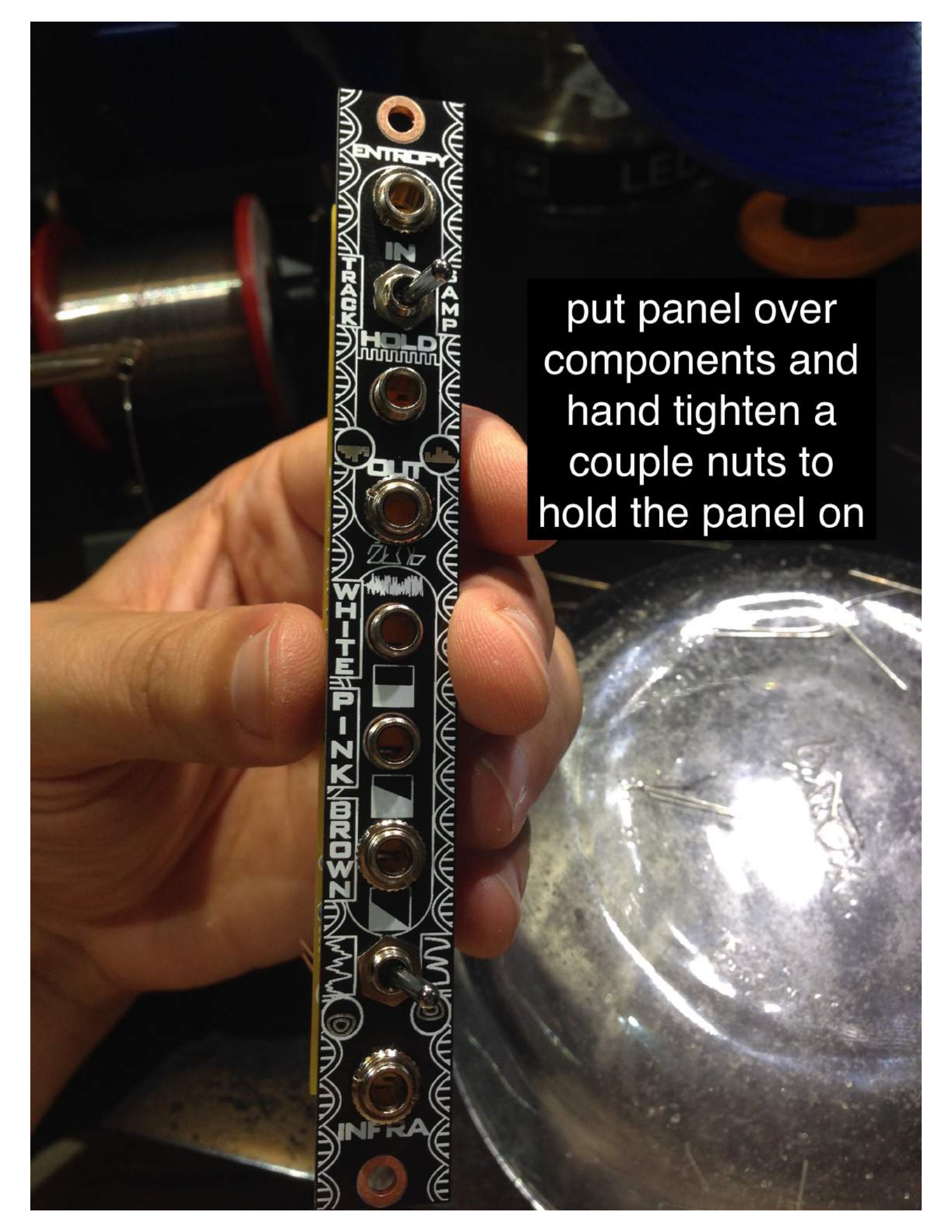


put one nut on each
switch. also insert a cable
twice into each jack to
check for mechanical
failure.



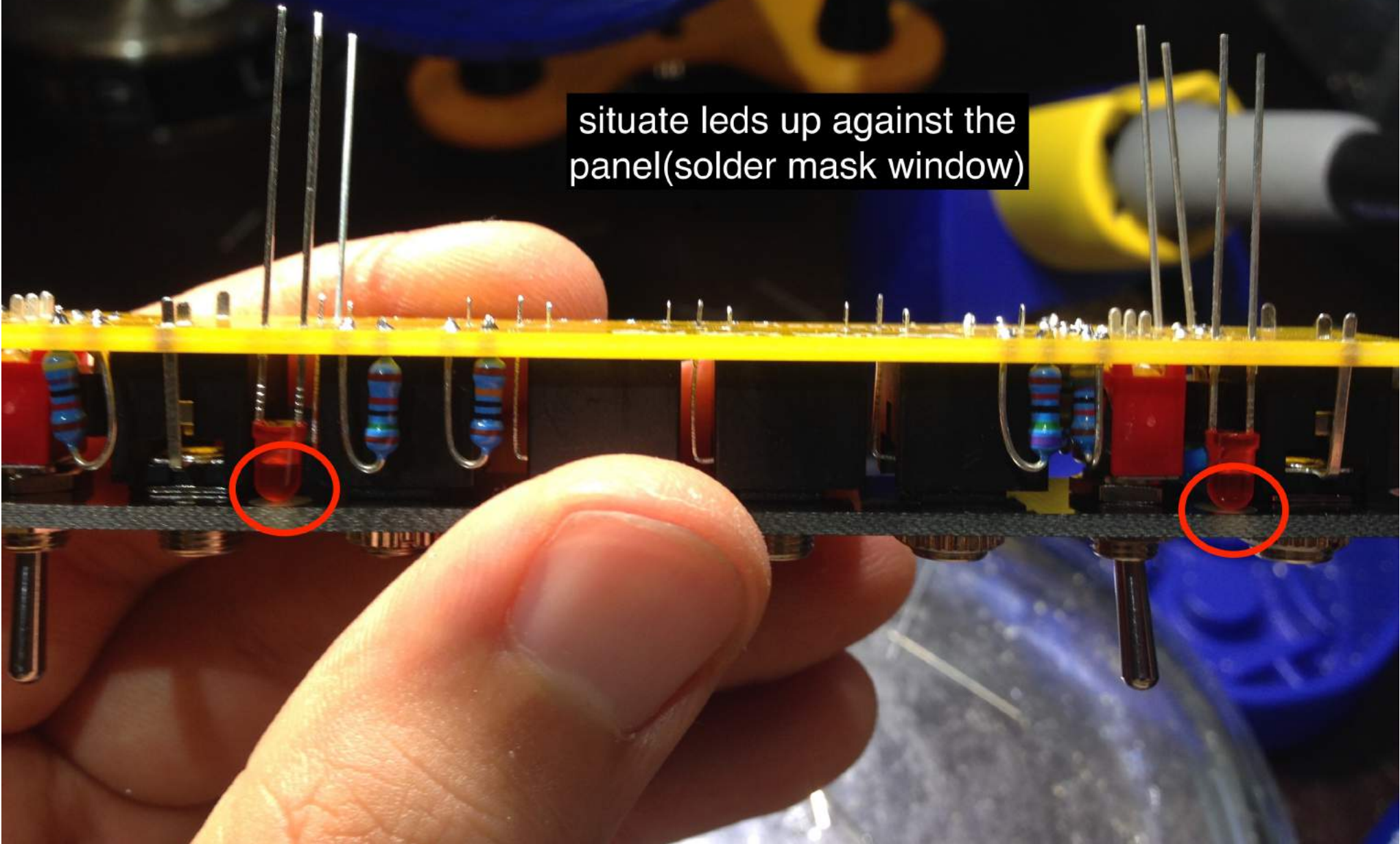
A hand is holding a yellow printed circuit board (PCB) vertically. The board features several BNC connectors, resistors, and LEDs. Blue LEDs are mounted on the left side, and red LEDs are on the right. Various component values are printed on the board, including 'N=10k', 'LP=47k', '25k', '22k', '100k', and '3p'. A date code '2016-18' is also visible. A text box on the right provides instructions on component placement.

insert all
components into
pcb, do not
solder yet. make
sure blue leds
are on the left
and red on right

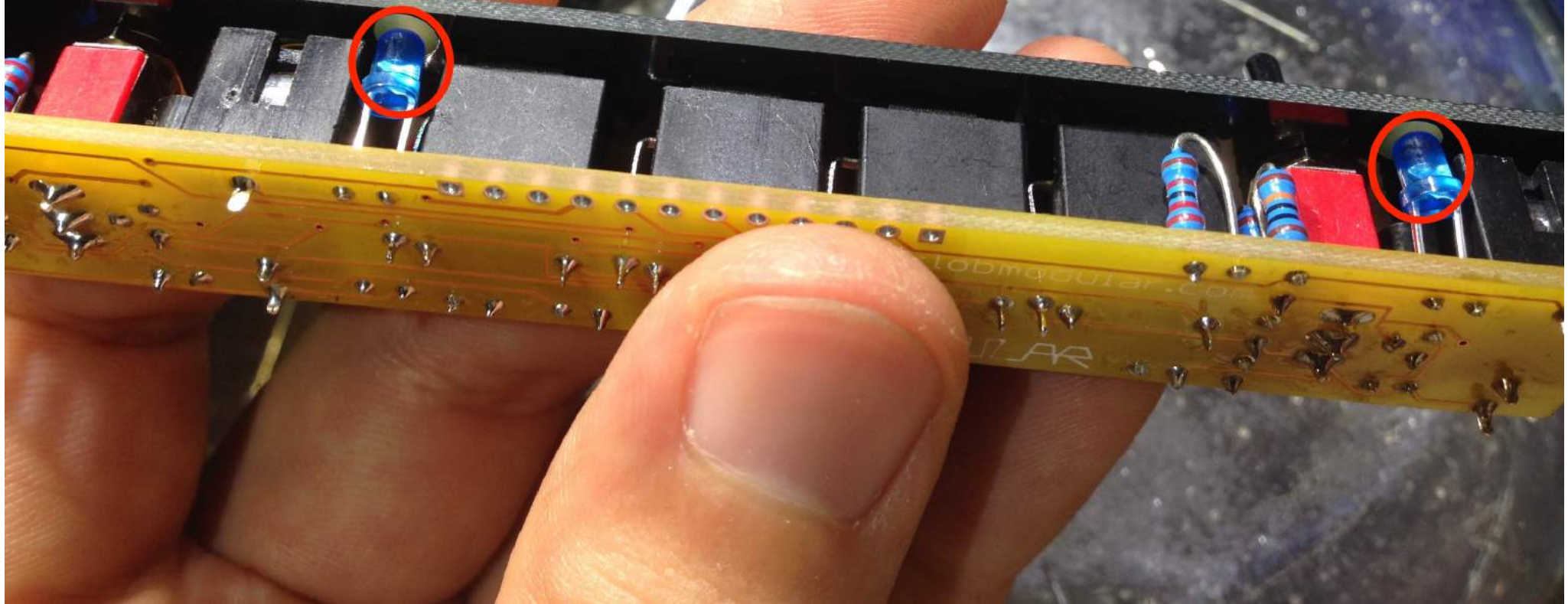


put panel over
components and
hand tighten a
couple nuts to
hold the panel on

situate leds up against the
panel(solder mask window)



same for other side. don't
solder leds too close as you
still have to tighten nuts on
panel. you can bend them
back into place after
soldering.



solder mother board to
top pcb. ensure pcbs are
connecting in the proper
direction

