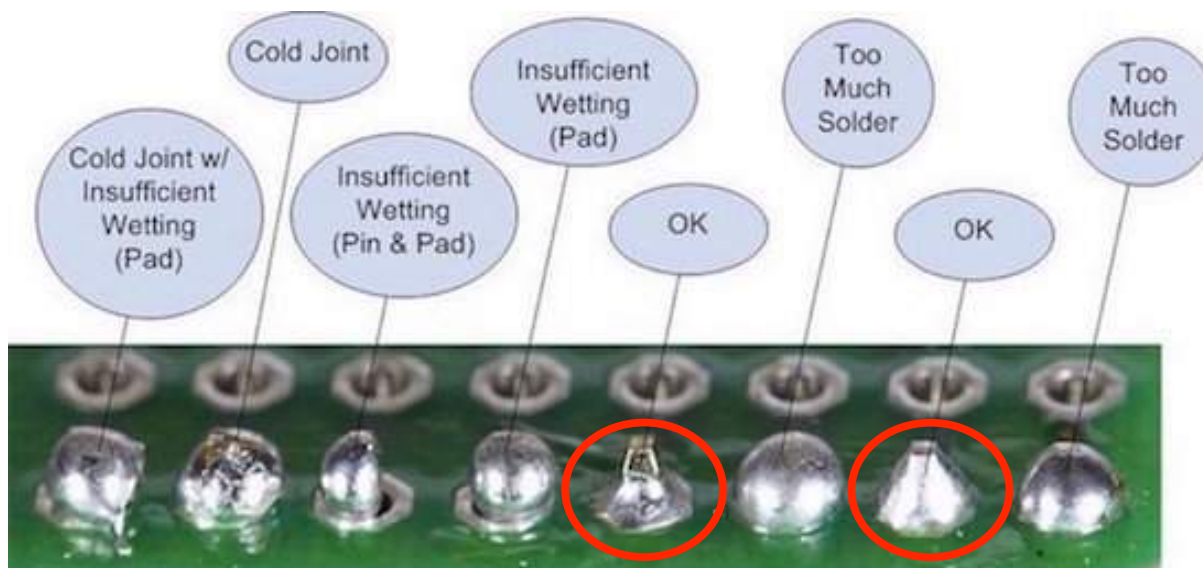
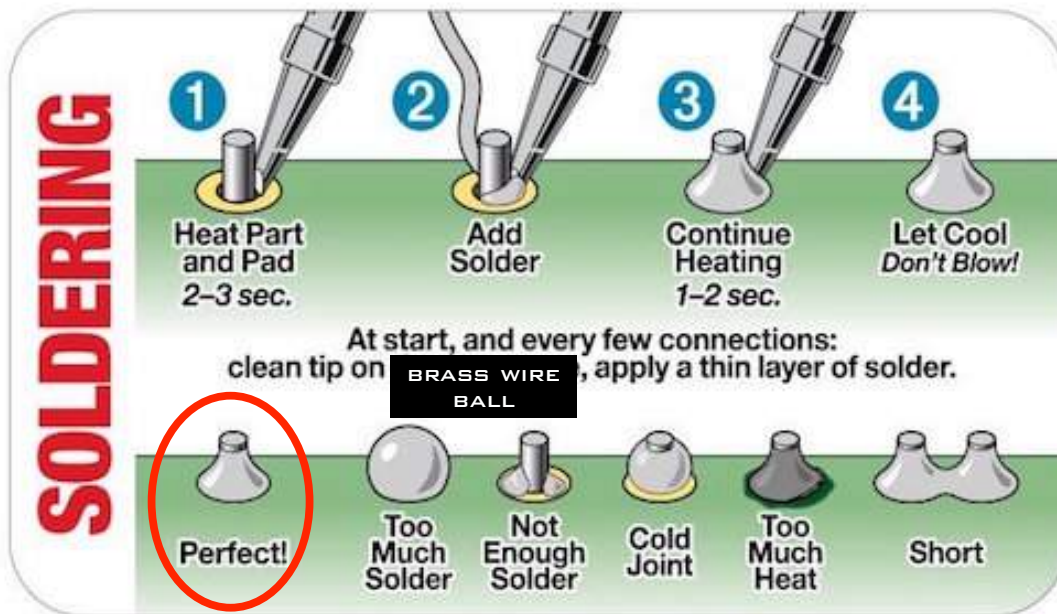
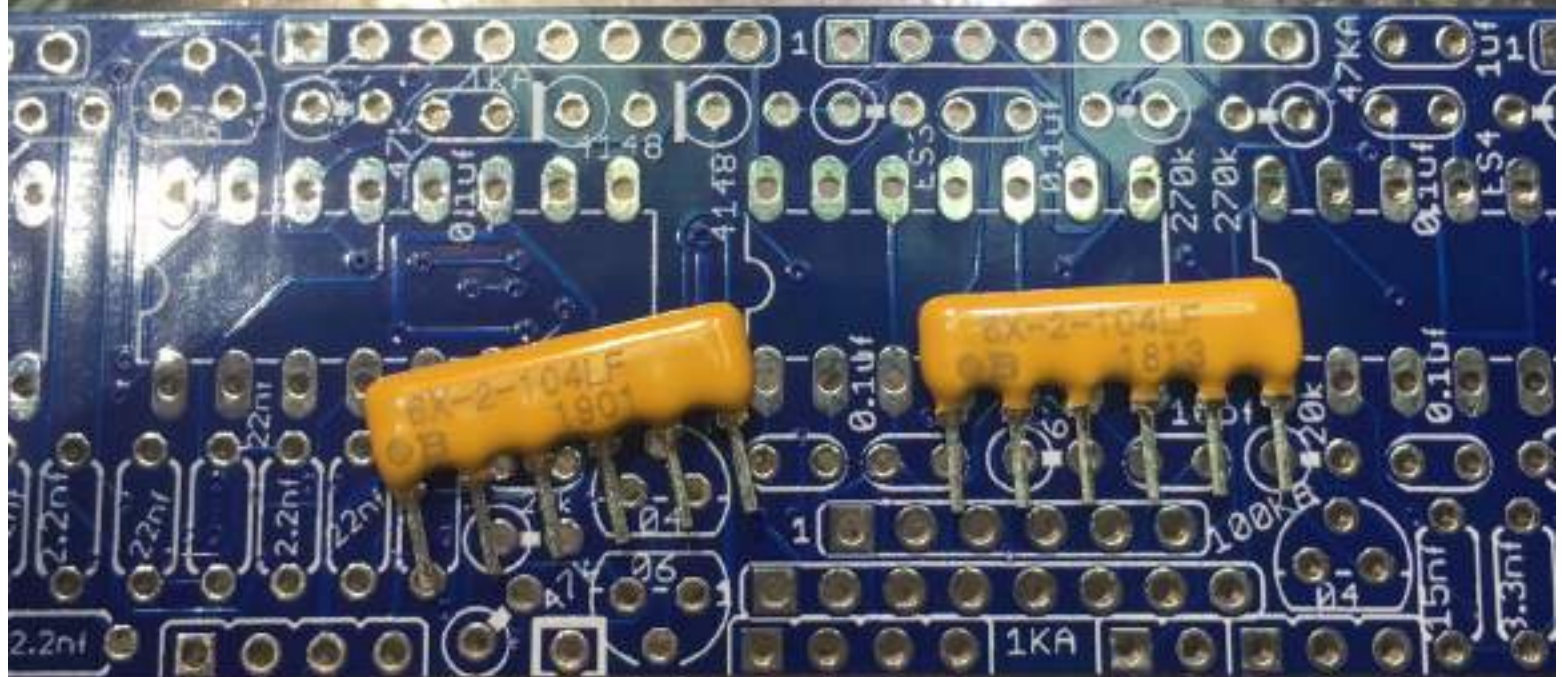


IF YOU CAN FOLLOW THESE TECHNIQUES
BELOW AND SOLDER UP TO THESE
“PERFECT” AND “OK” SPECS YOU SHOULD
HAVE MUCH LESS TROUBLESHOOTING AND
PROBLEMS WITH THIS BUILD AND ALL
OTHER DIY PROJECTS.

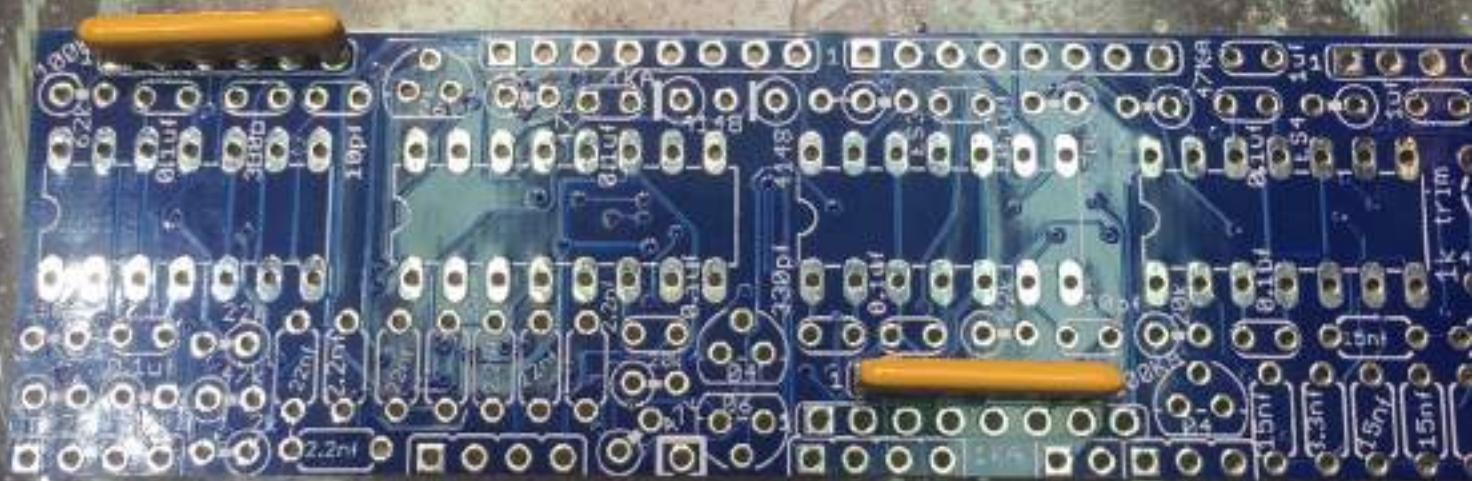


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THESE PICTURES. THEY ARE PROVIDED FOR
EDUCATIONAL PURPOSES

**TWO 100K 6PIN RESISTOR
ARRAYS
CODE 104. THESE ARE
ISOLATED AND CAN BE
REPLACED WITH INDIVIDUAL
VERTICAL RESISTORS.**



**TWO 100K ARRAYS. FACE TEXT
OUT FOR EASIER
TROUBLESHOOTING**

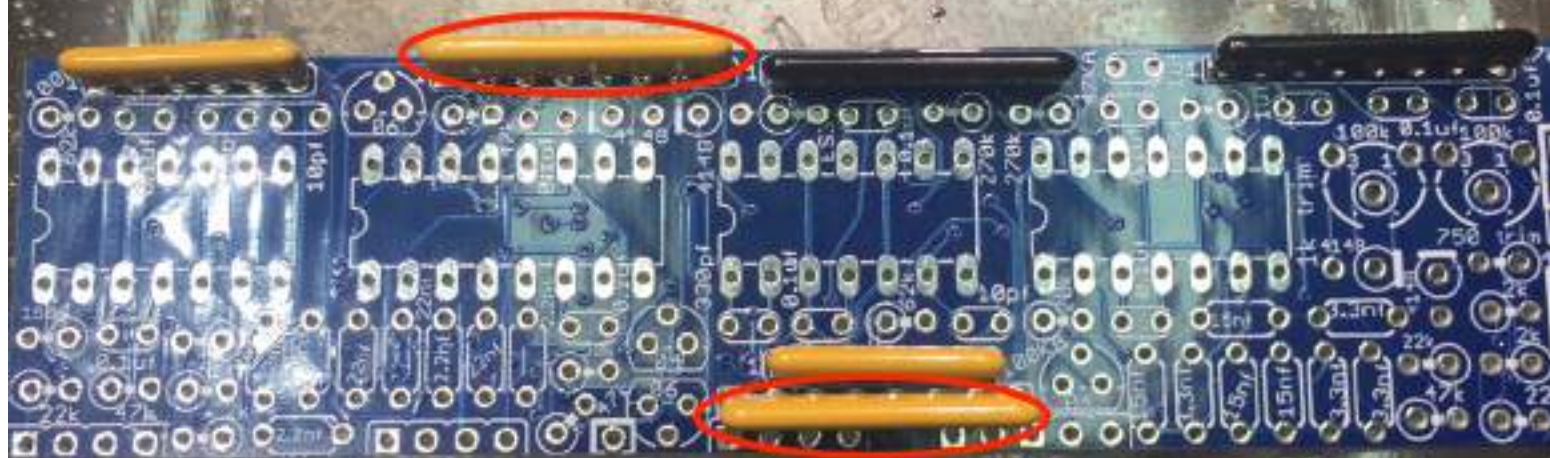


**TWO 8PIN 47K
RESISTOR ARRAYS.
CODE 473**

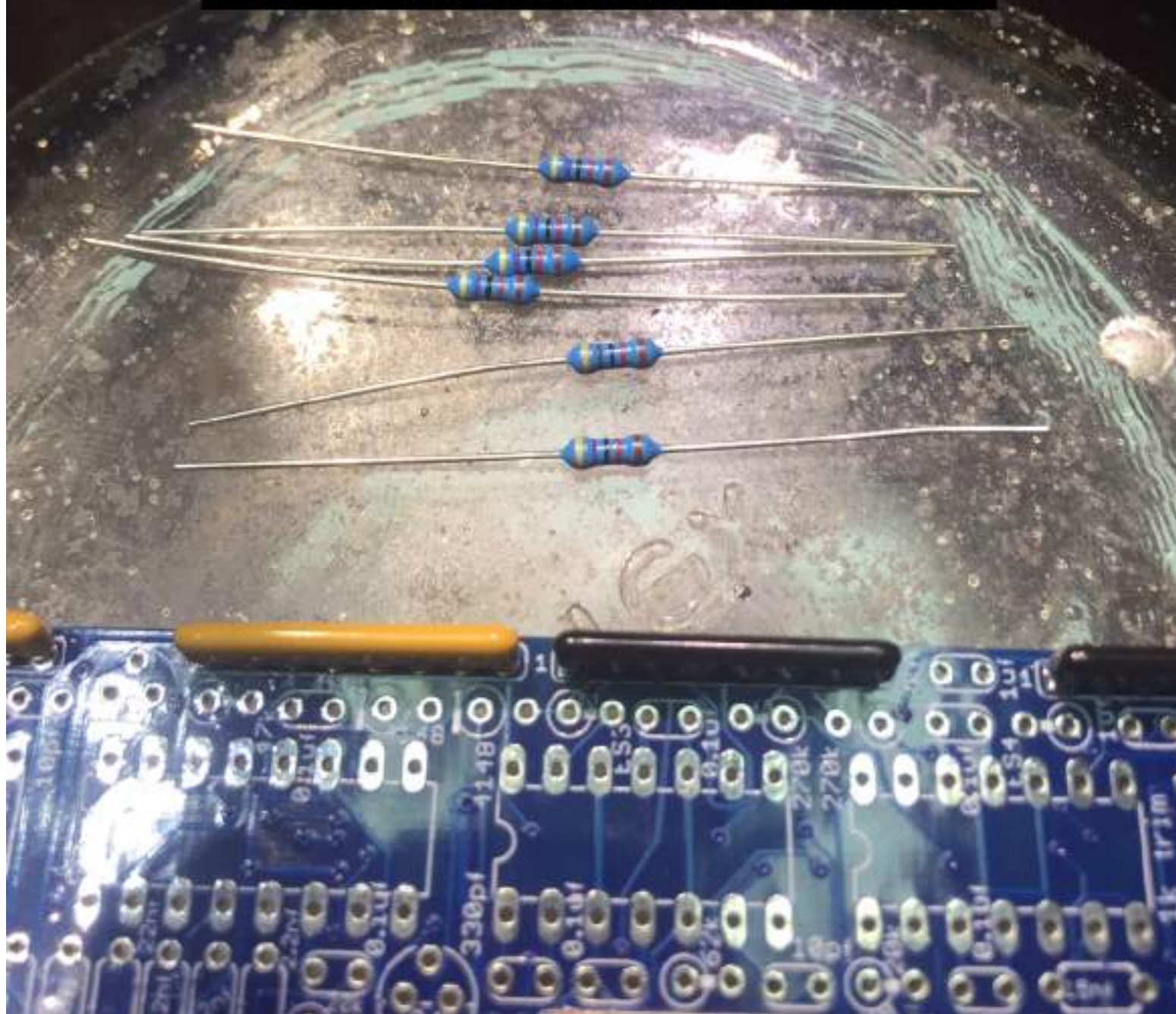
TWO 47K ARRAYS



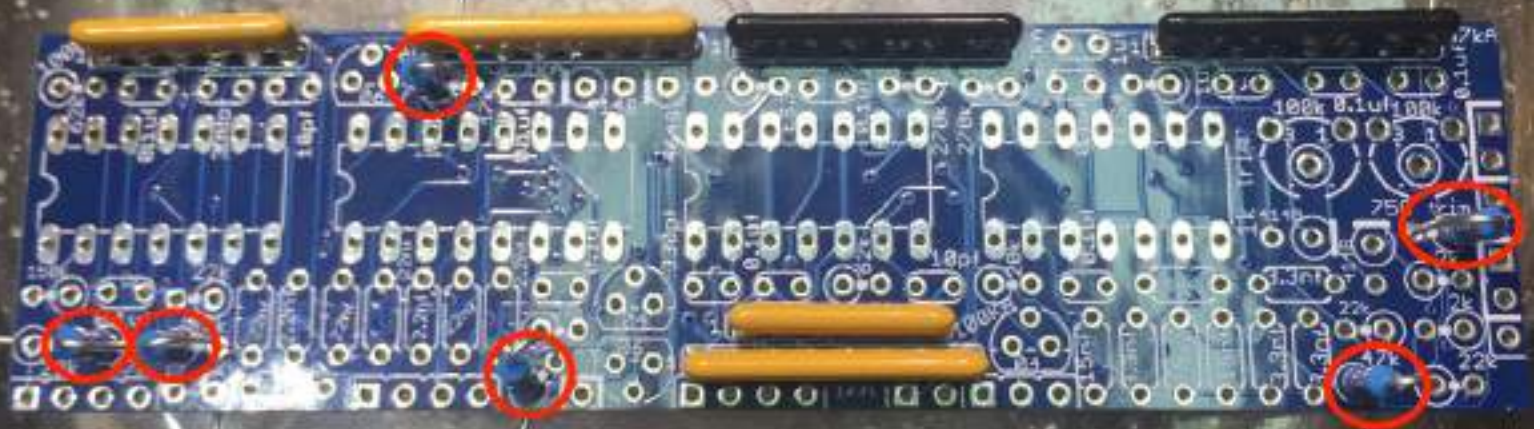
TWO 1K 8PIN



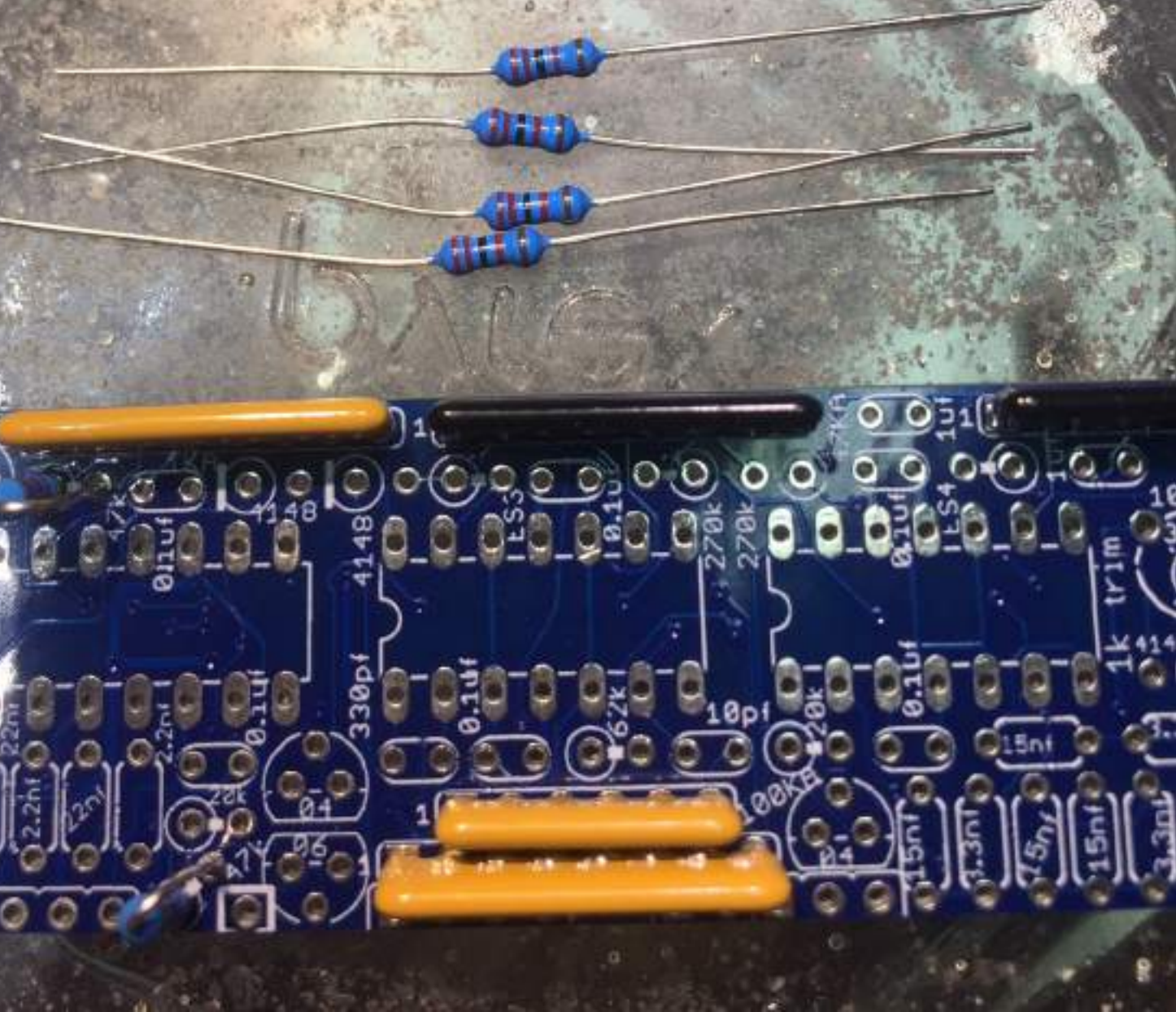
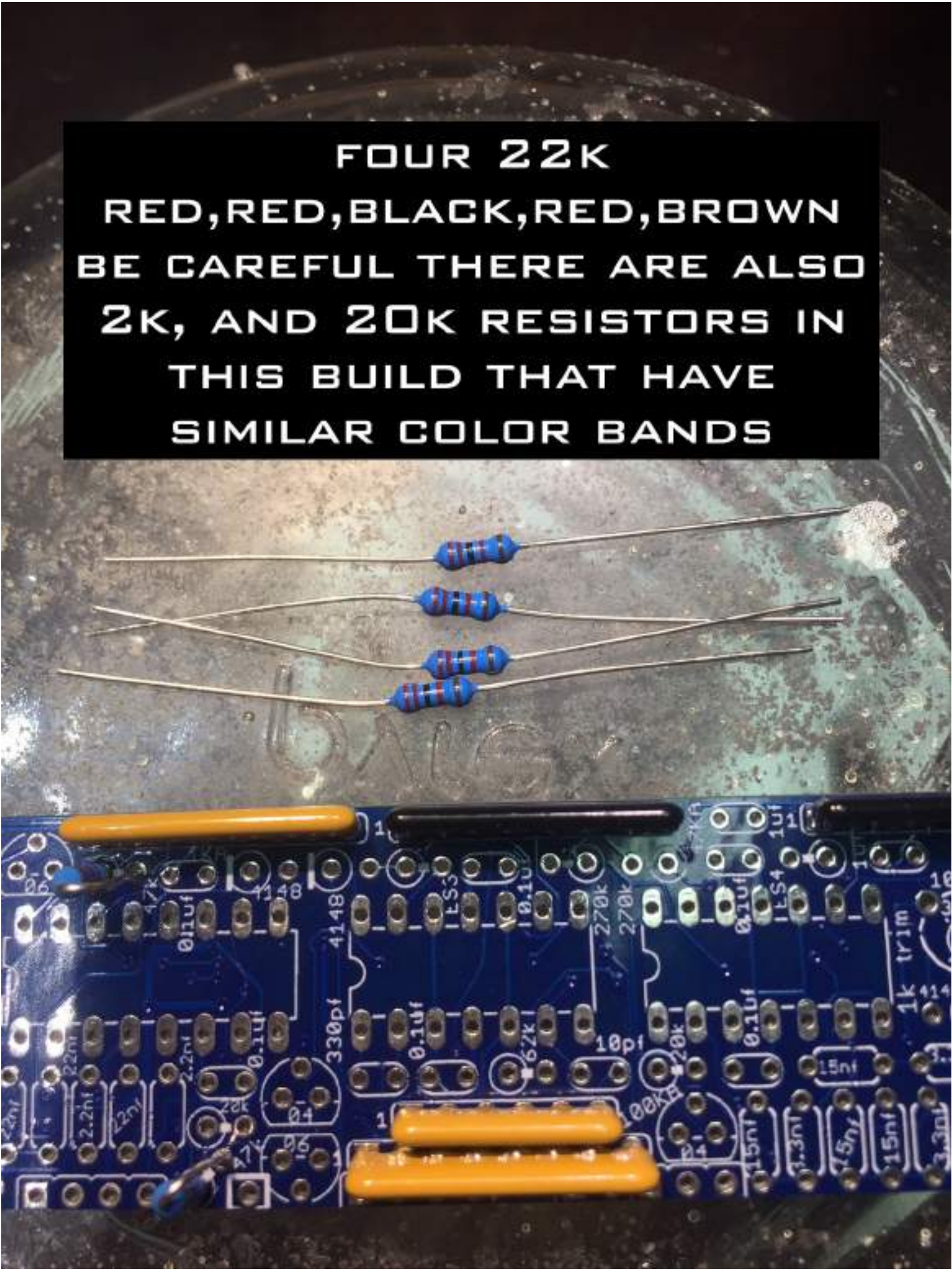
**SIX 47K
YELLOW,PURPLE,BLACK,
RED,BROWN**



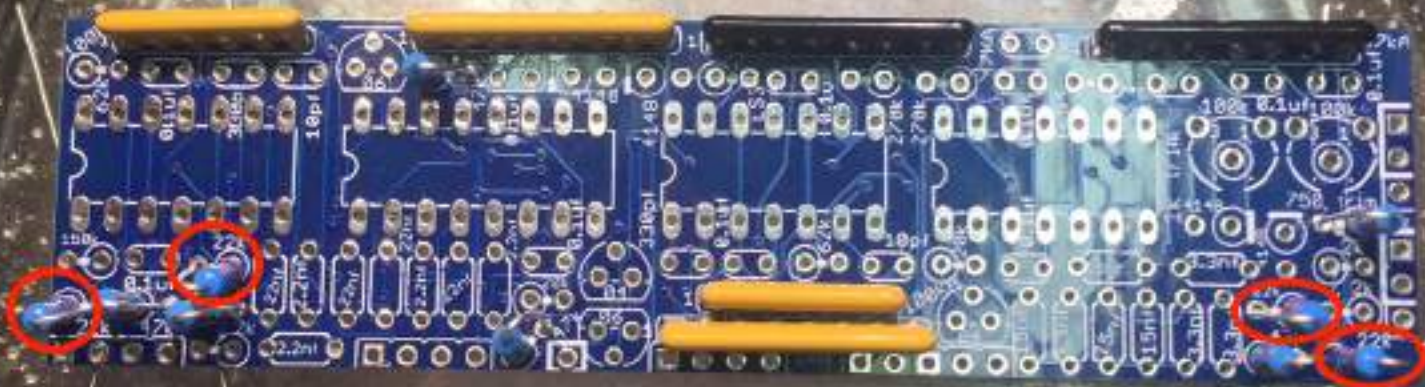
SIX 47K



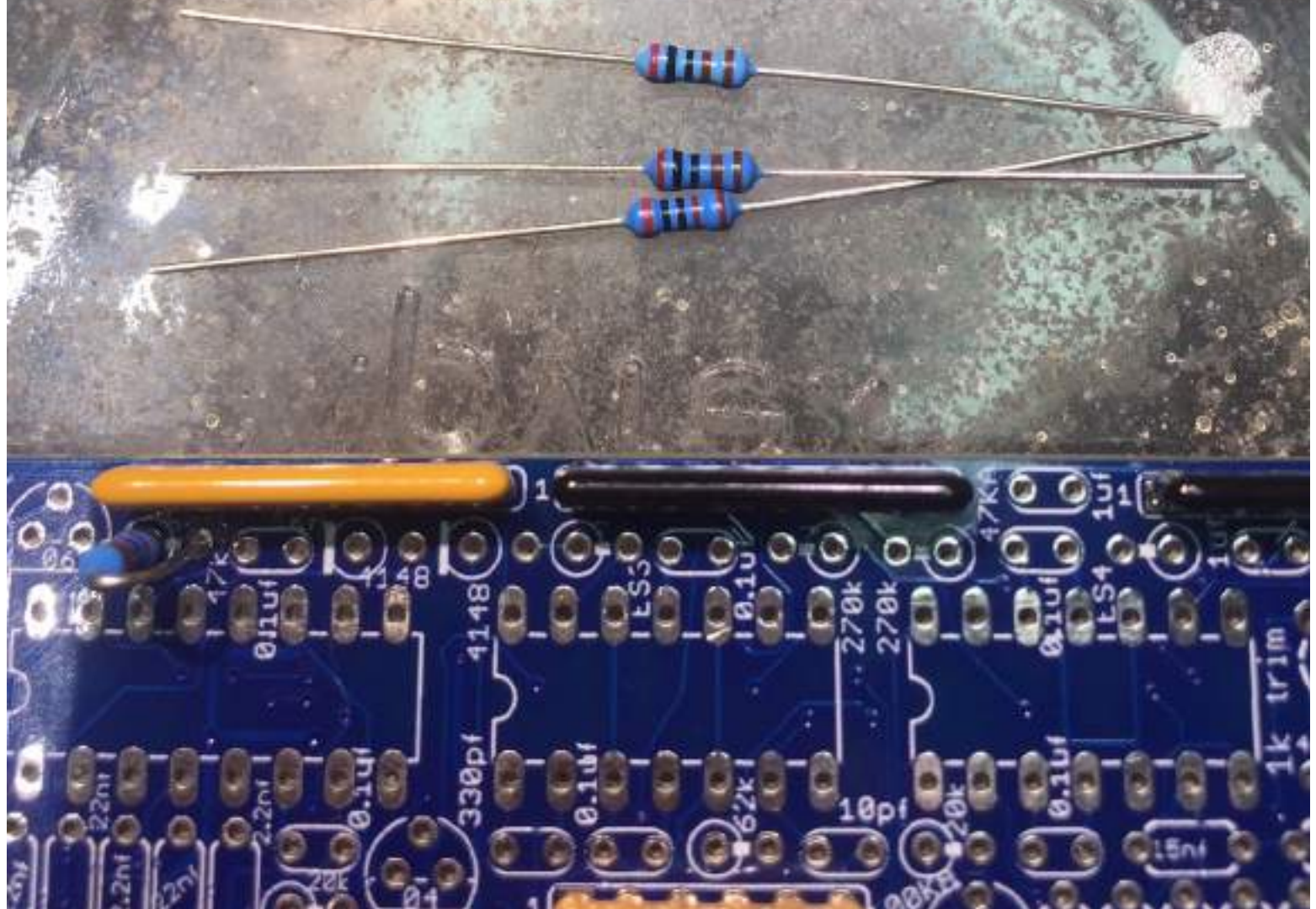
**FOUR 22K
RED, RED, BLACK, RED, BROWN
BE CAREFUL THERE ARE ALSO
2K, AND 20K RESISTORS IN
THIS BUILD THAT HAVE
SIMILAR COLOR BANDS**

The image shows four axial-lead resistors with five color bands each: two red bands, one black band, one red band, and one brown band. These resistors are placed horizontally above a blue PCB. The PCB is densely packed with various electronic components, including several yellow electrolytic capacitors, smaller silver and white capacitors, and numerous resistors of different values and colors. Some component values like '22k', '100kH', '15nf', and '3.3nf' are visible on the board.

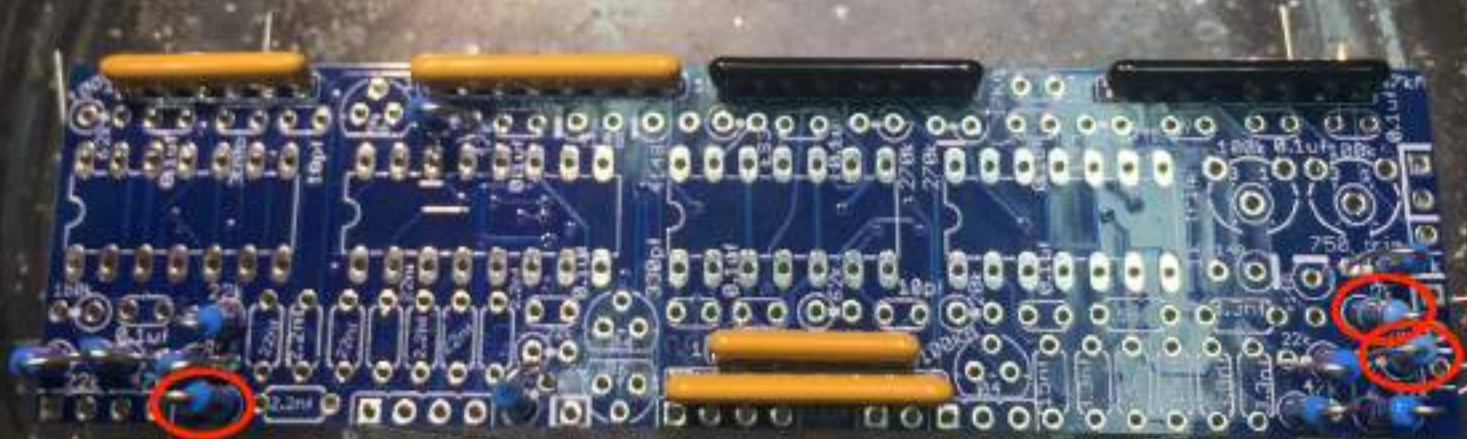
FOUR 22K



**THREE 2K
RED,BLACK,BLACK,BROWN,BROWN**



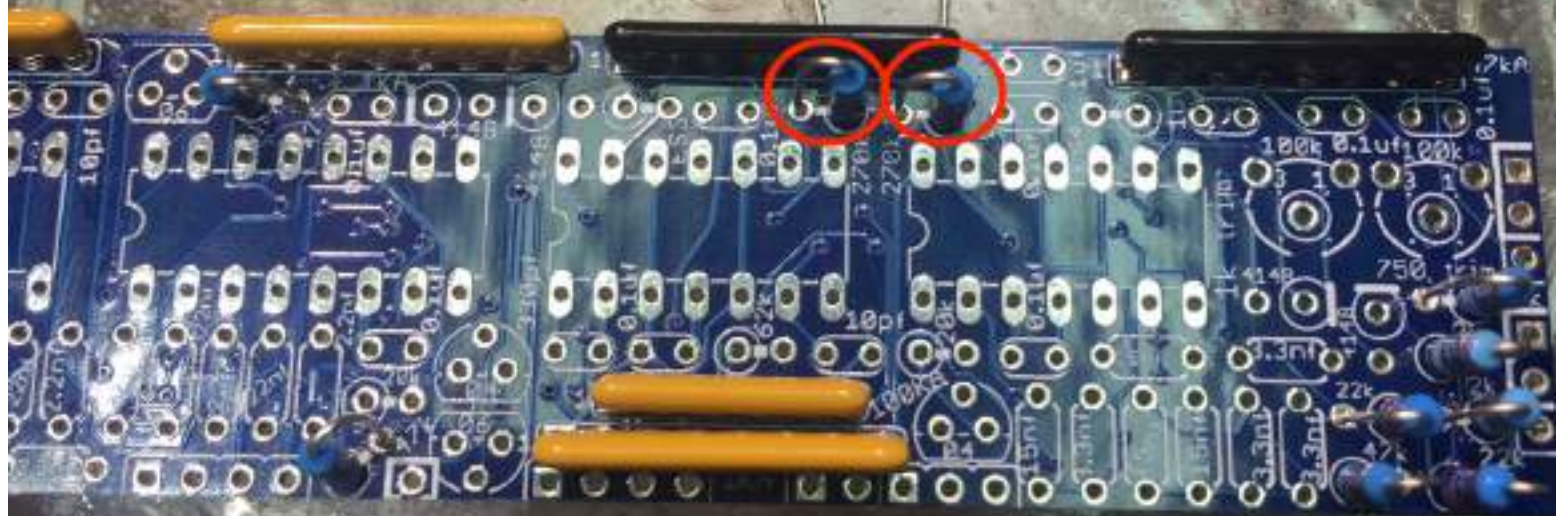
THREE 2K



TWO 270K
RED,PURPLE,BLACK,
ORANGE,BROWN

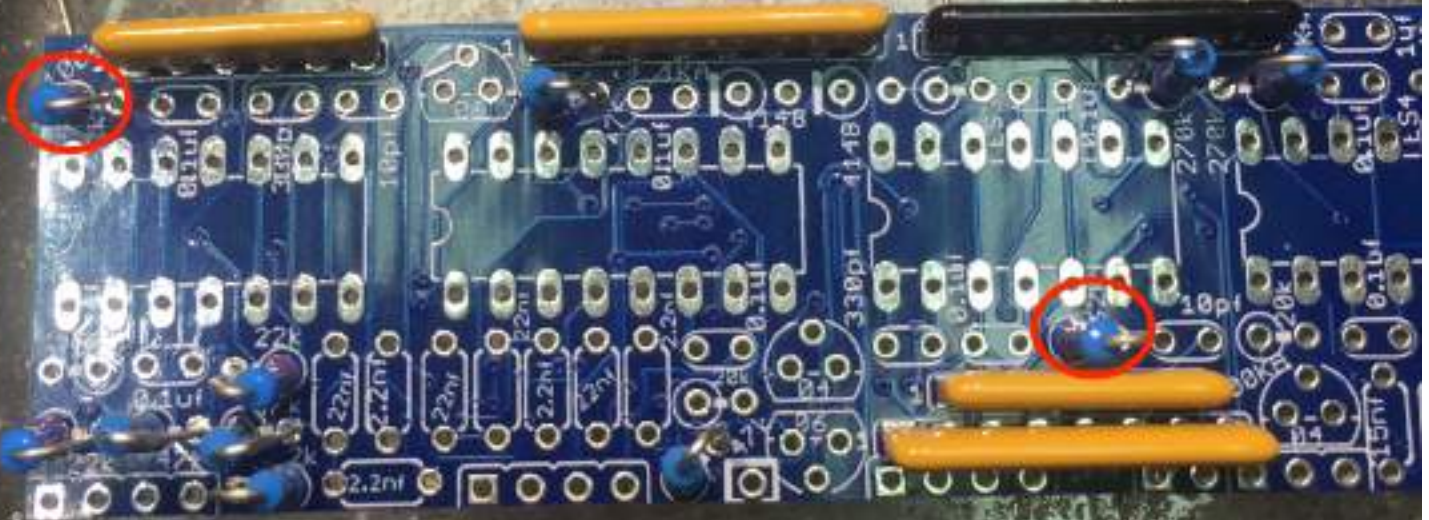


TWO 270K



TWO 62K
BLUE, RED, BLACK, RED, BROWN

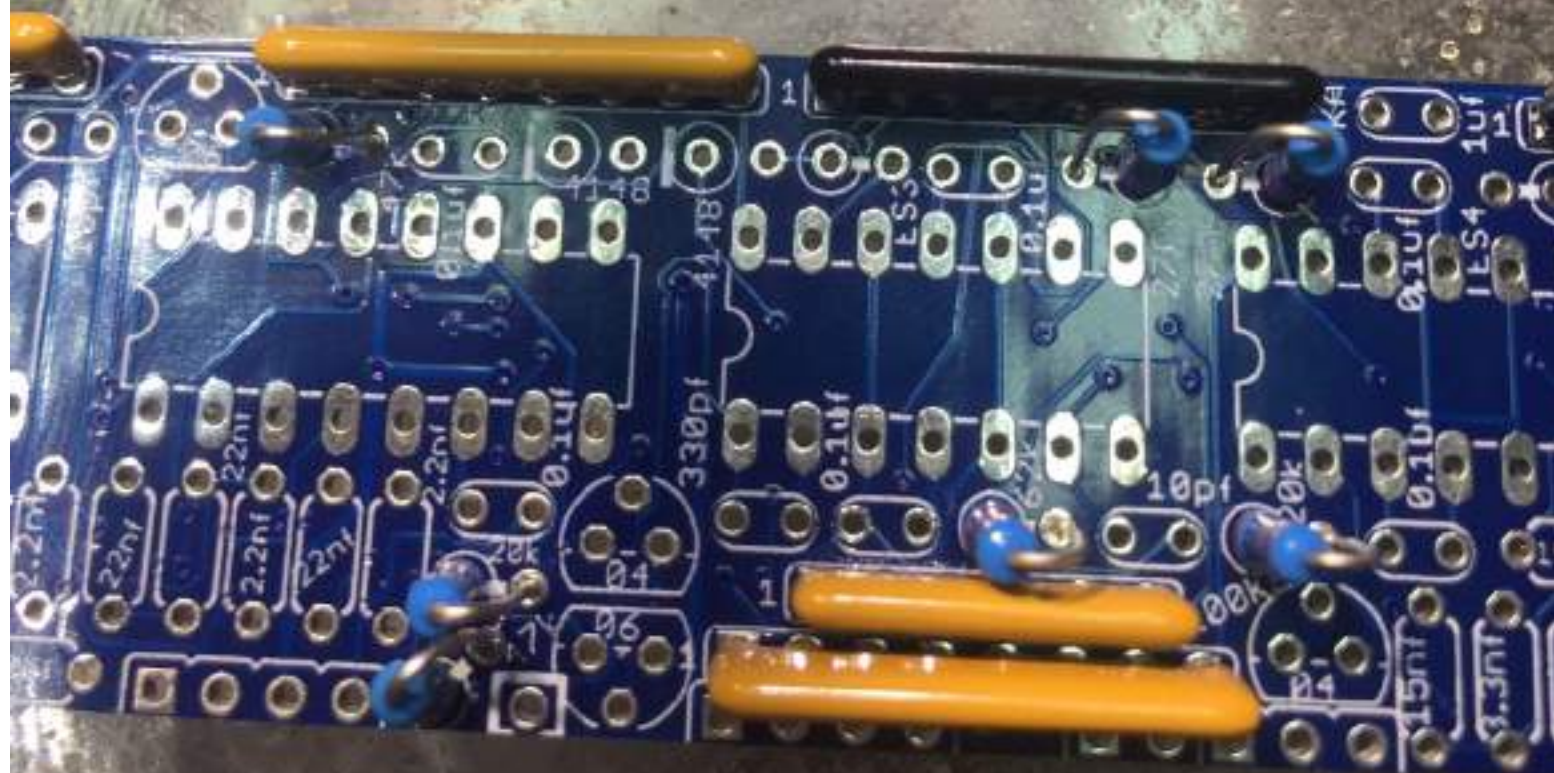
TWO 62K



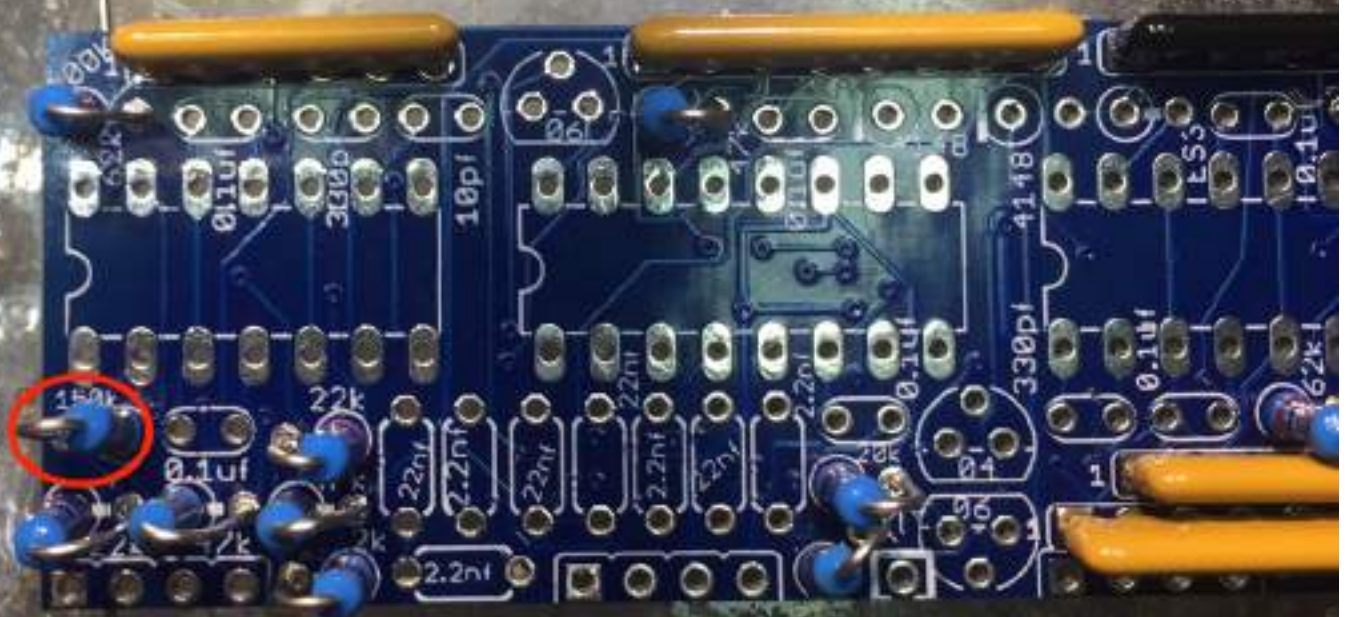
**TWO 20K
RED,BLACK,BLACK,RED,BROWN**

TWO 20K

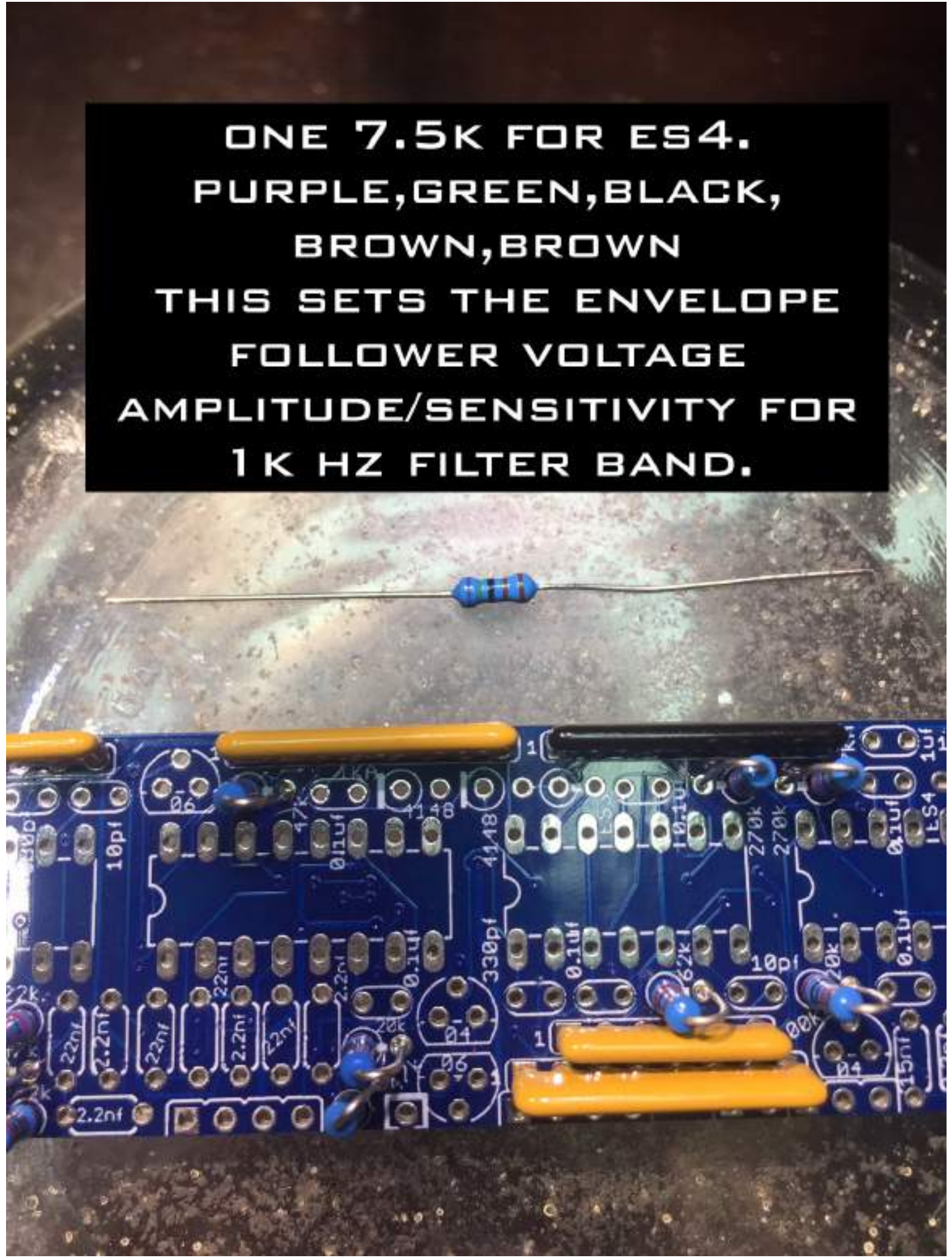
**ONE 150K
BROWN, GREEN, BLACK,
ORANGE, BROWN**



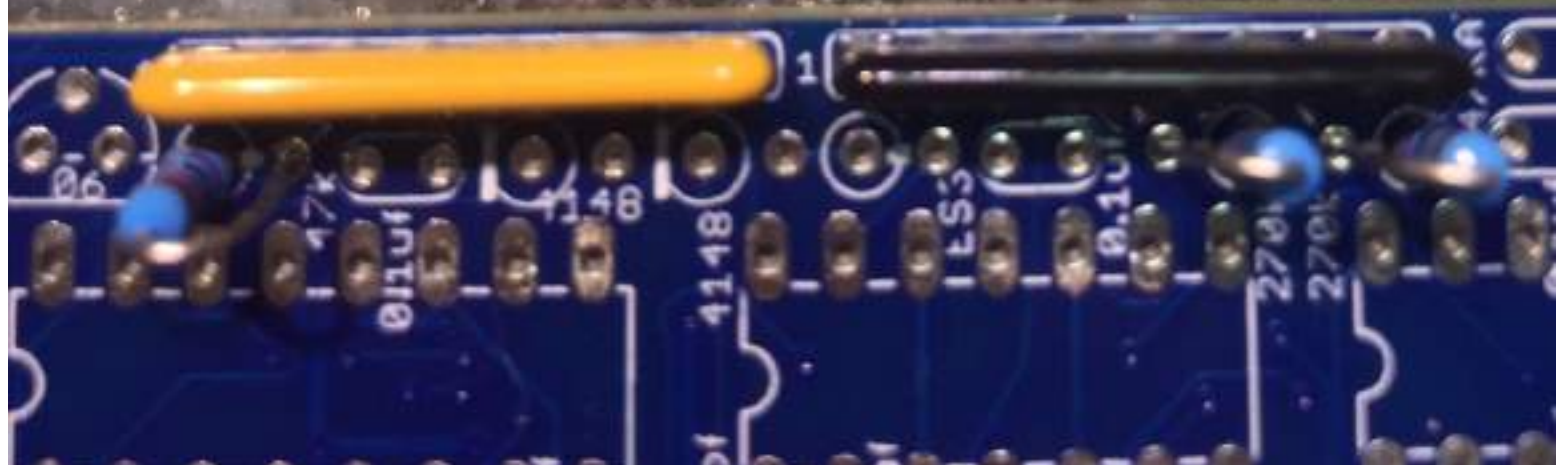
ONE 150K



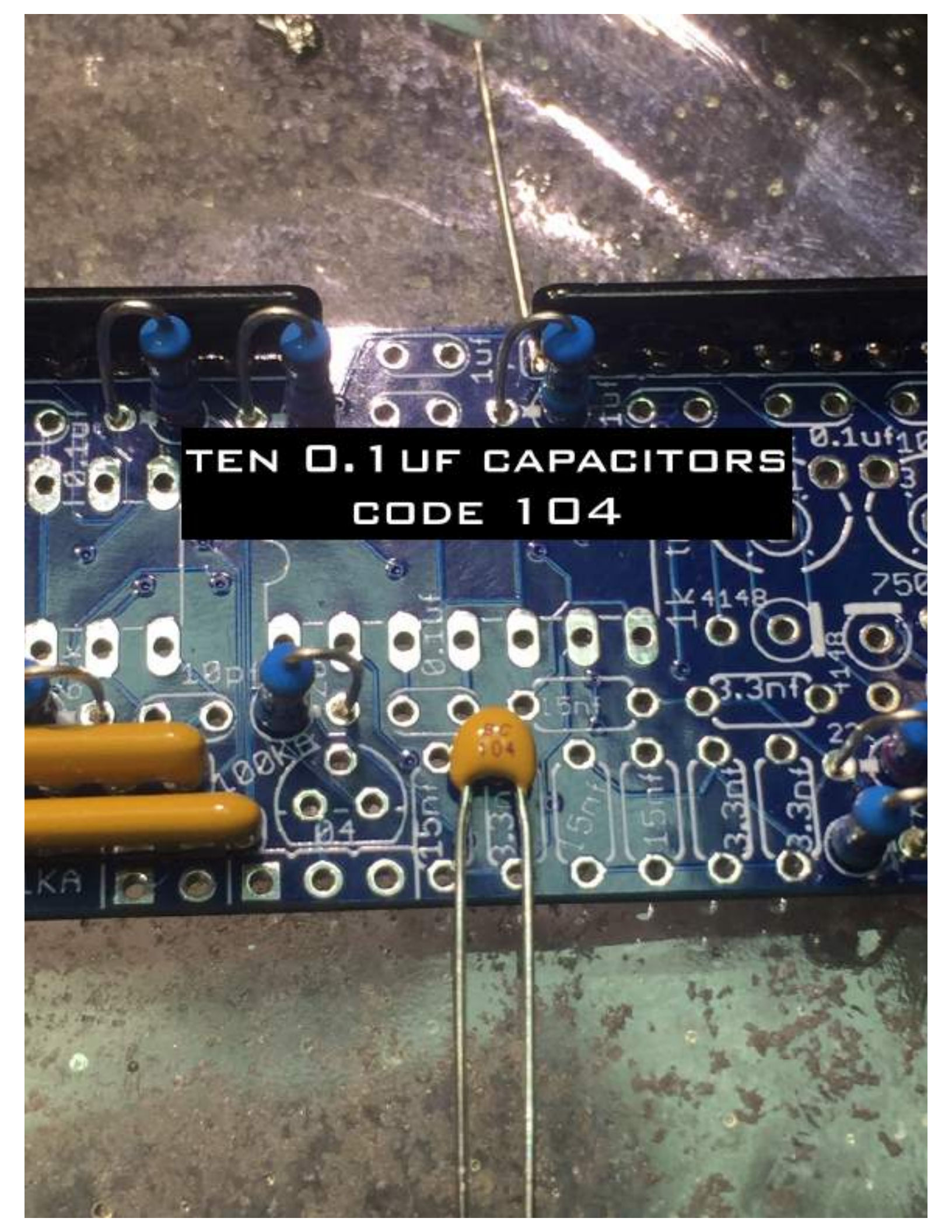
ONE 7.5K FOR ES4.
PURPLE, GREEN, BLACK,
BROWN, BROWN
THIS SETS THE ENVELOPE
FOLLOWER VOLTAGE
AMPLITUDE/SENSITIVITY FOR
1 K HZ FILTER BAND.



ONE 5.6K FOR ES3.
GREEN,BLUE,BLACK,
BROWN,BROWN.
THIS SETS THE ENVELOPE
FOLLOWER VOLTAGE
AMPLITUDE/SENSITIVITY FOR
750 HZ FILTER BAND.

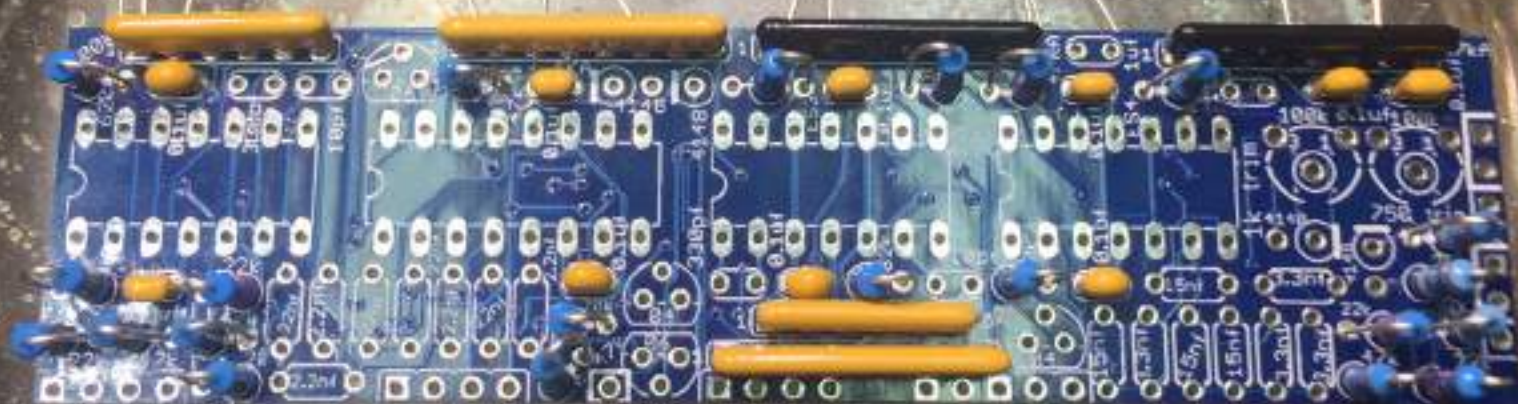


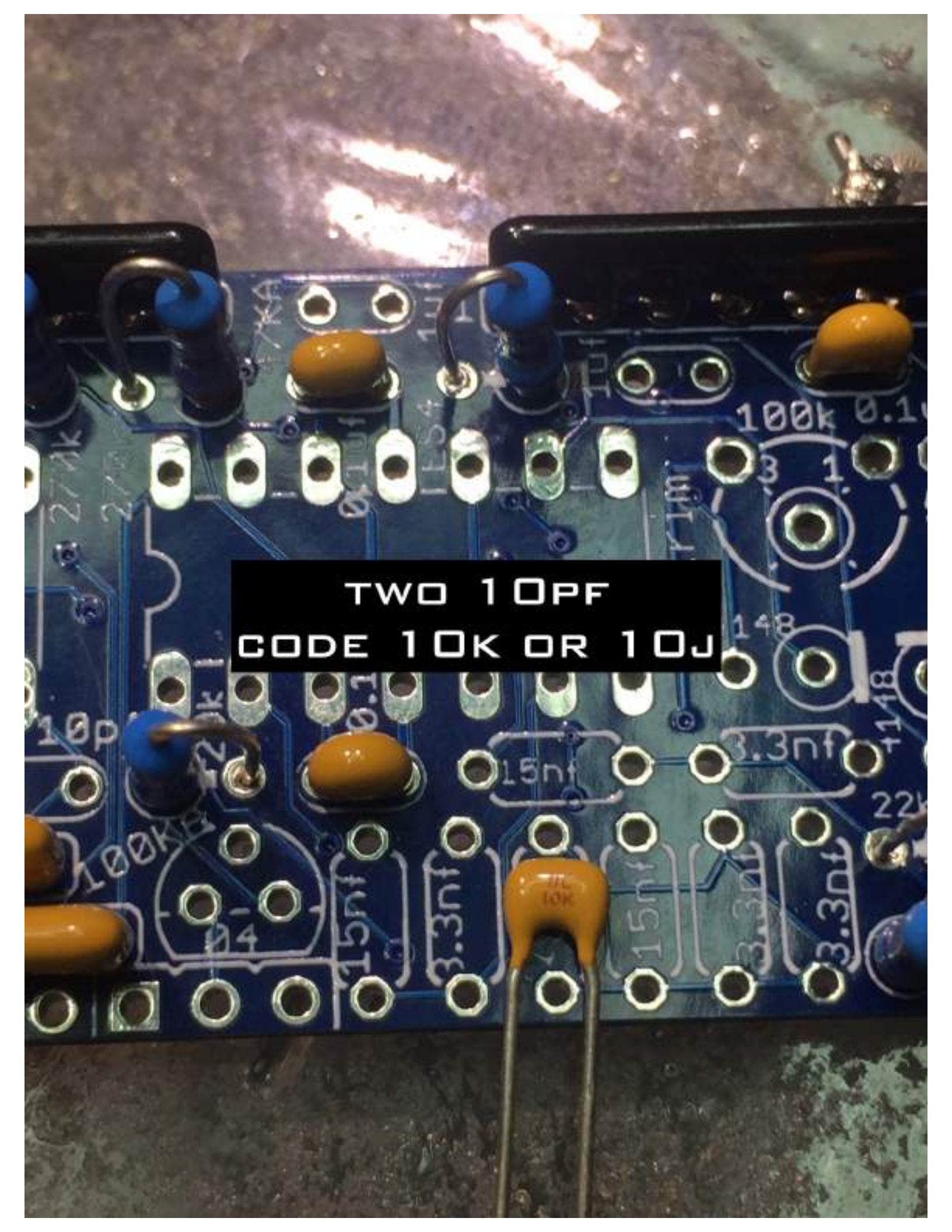
7.5K IN GREEN
5.6K IN RED



TEN 0.1UF CAPACITORS
CODE 104

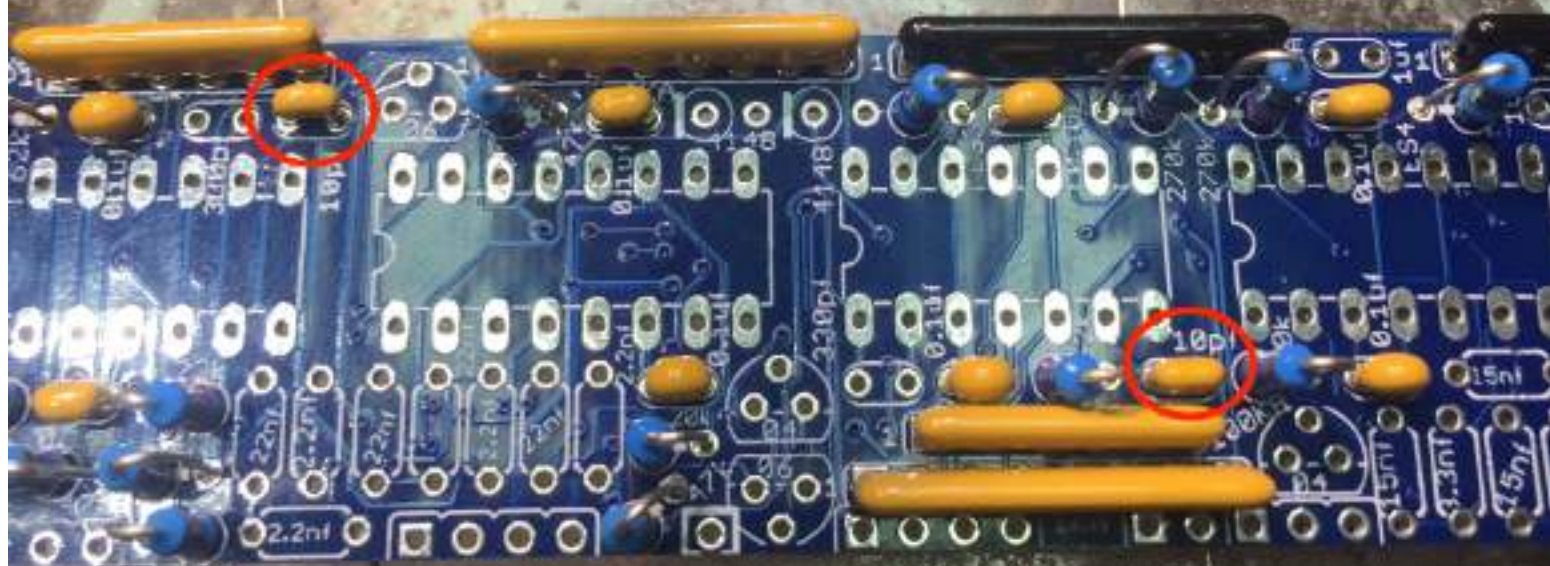
TEN 0.1UF



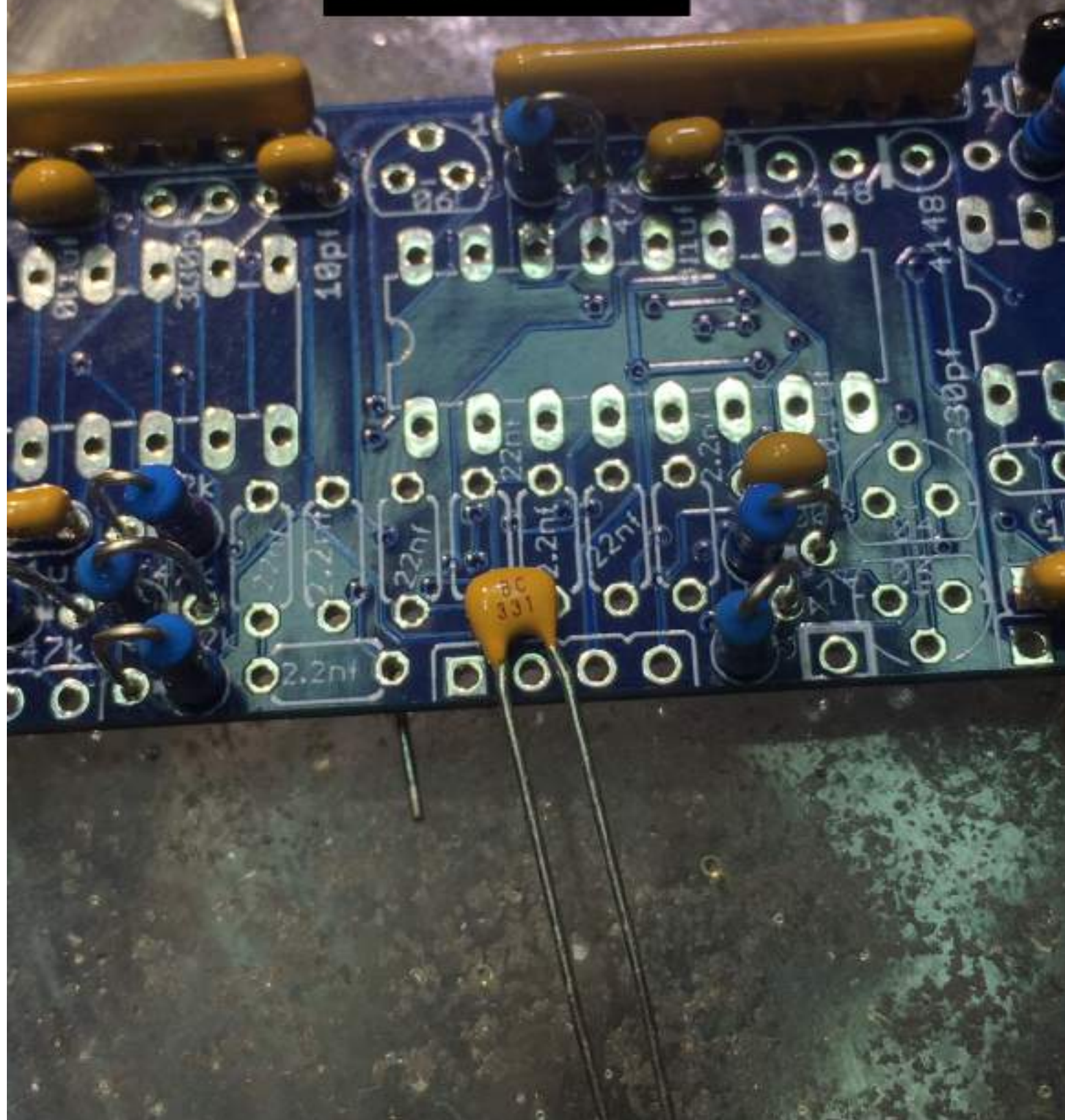


TWO 10PF
CODE 10K OR 10J

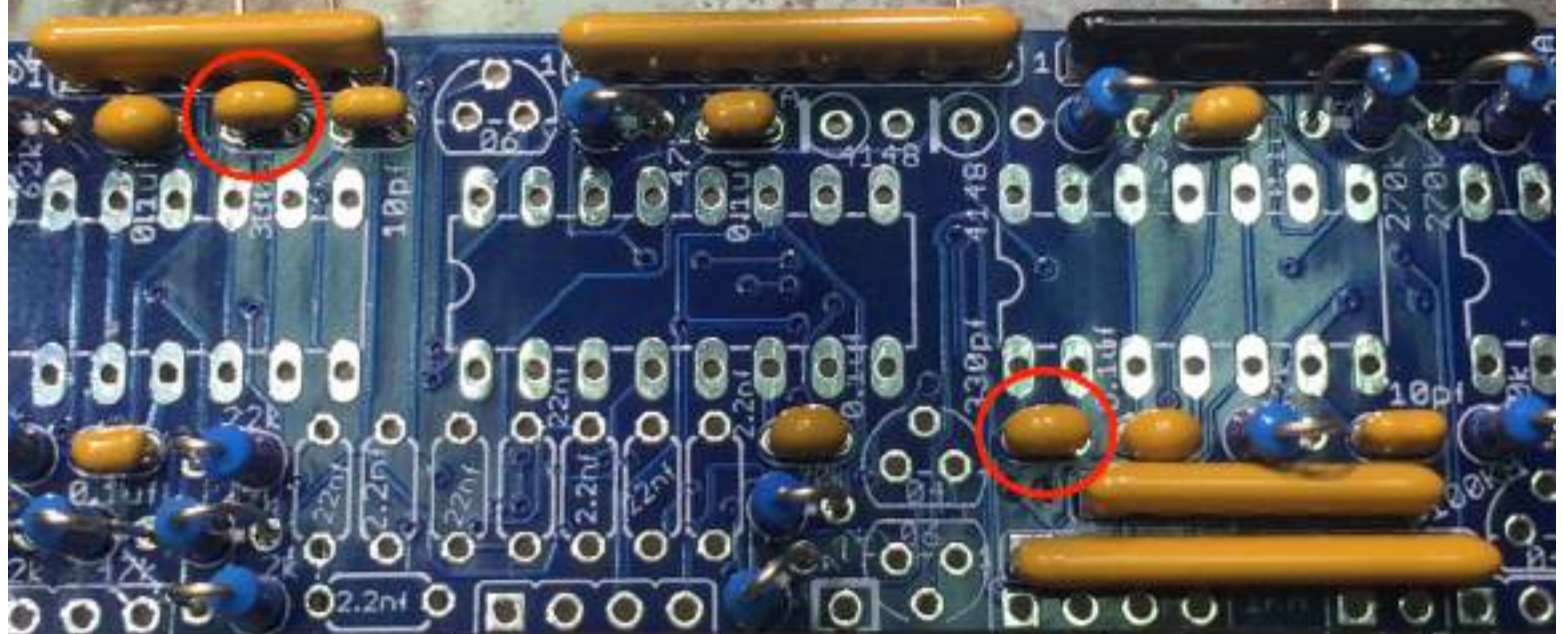
TWO 10PF

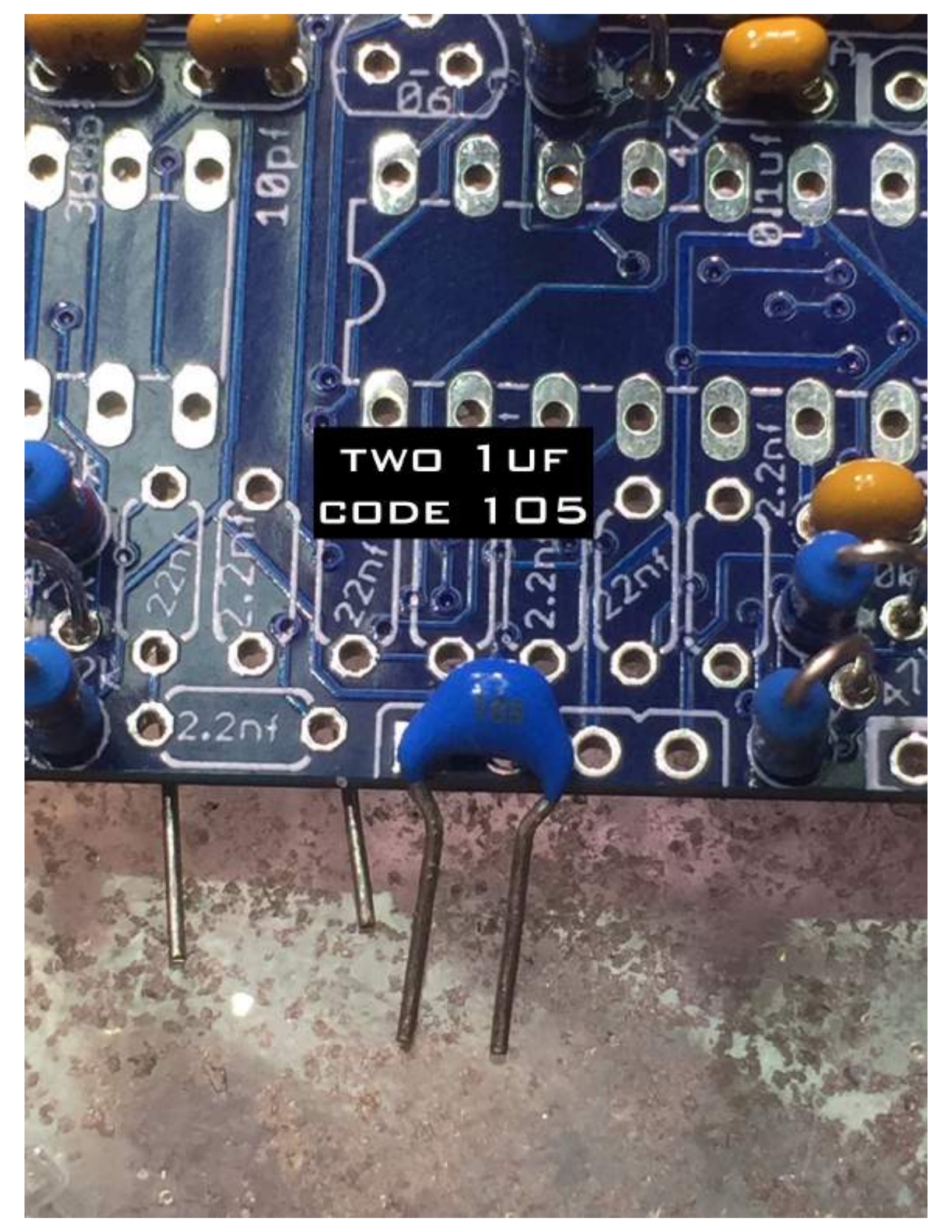


TWO 330PF
CODE 331



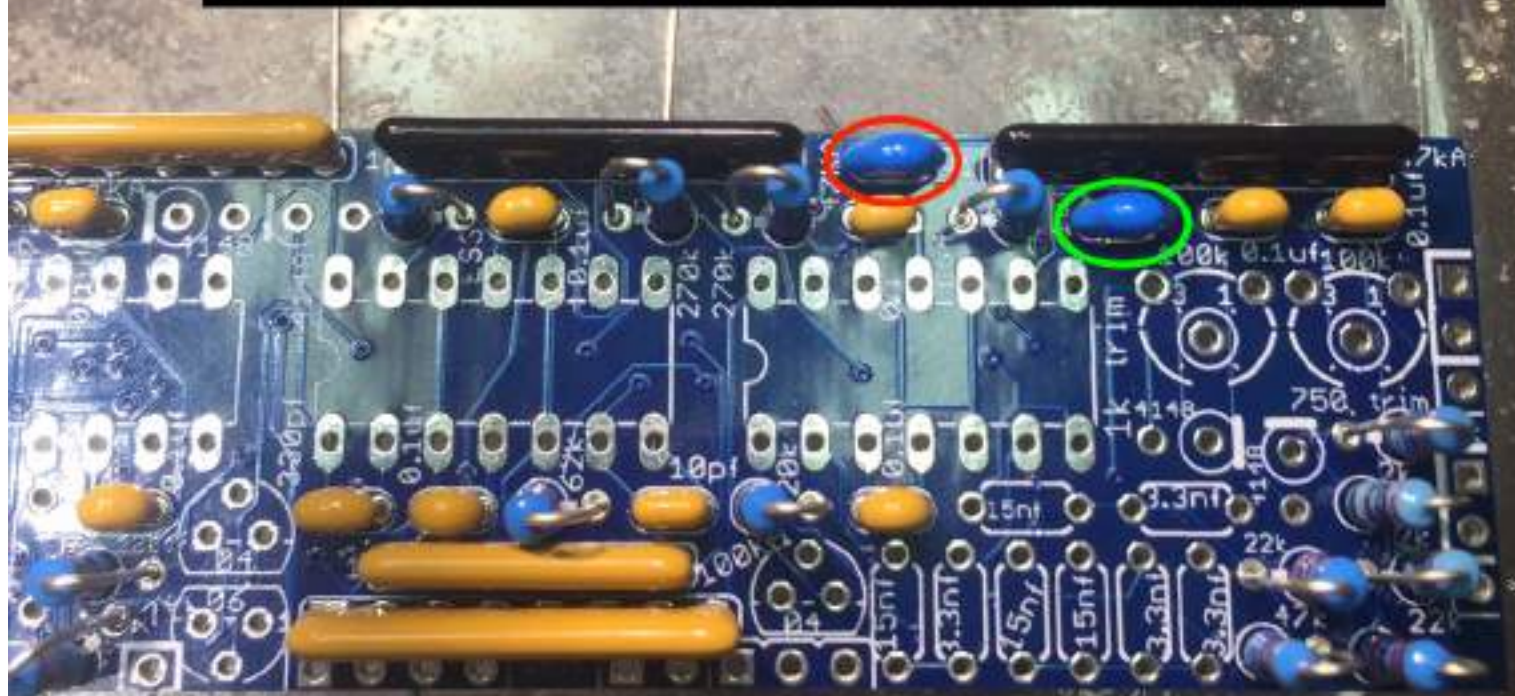
TWO 330PF



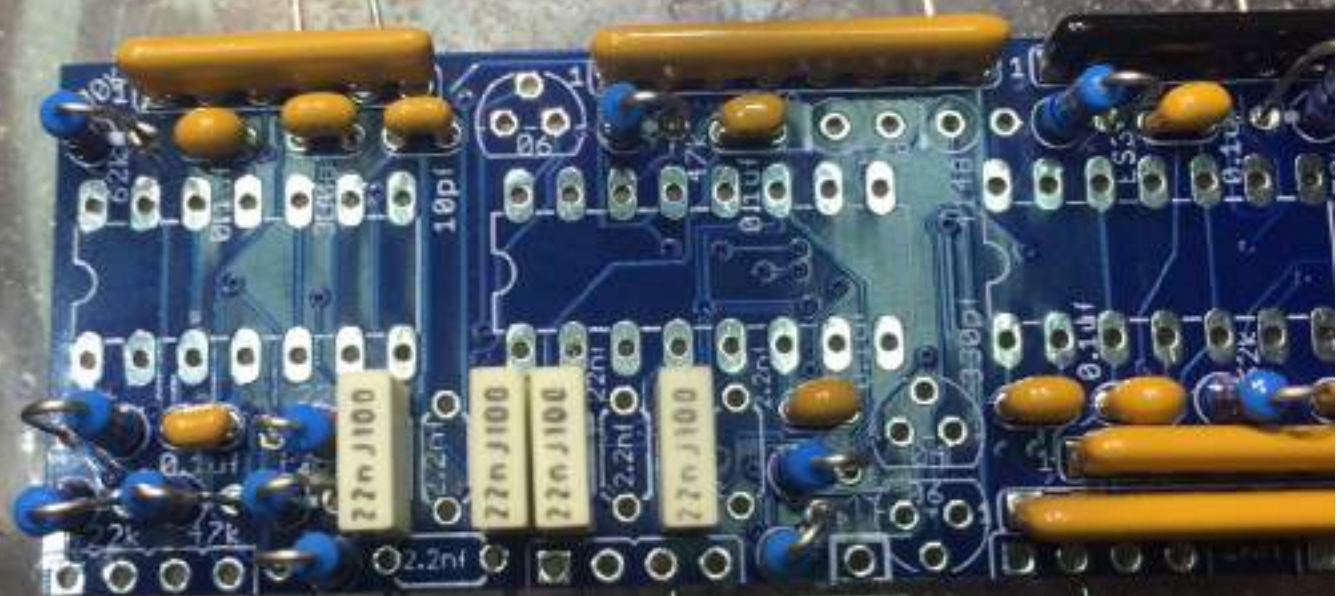


TWO 1UF
CODE 105

**TWO 1UF
ENVT IS ENVELOPE TRACKING
SPEED/RESPONSE.
RED IS 750
GREEN IS 1K**

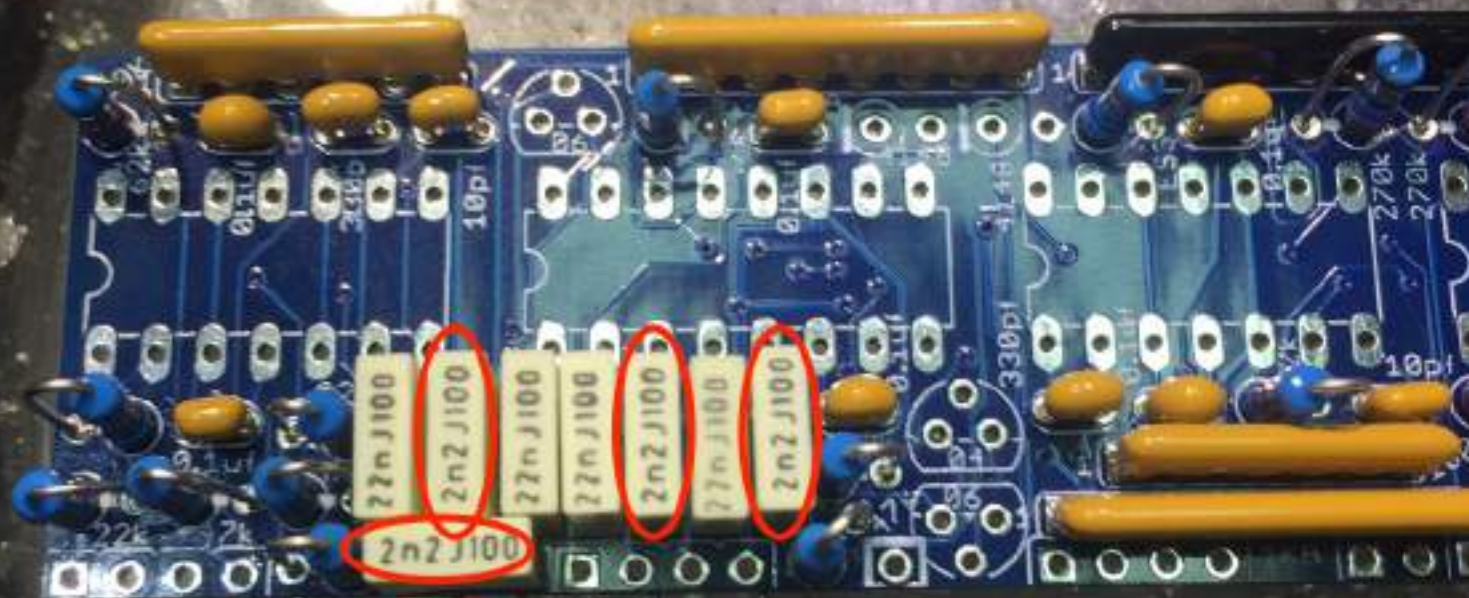


FOUR 22NF
CODE 22N

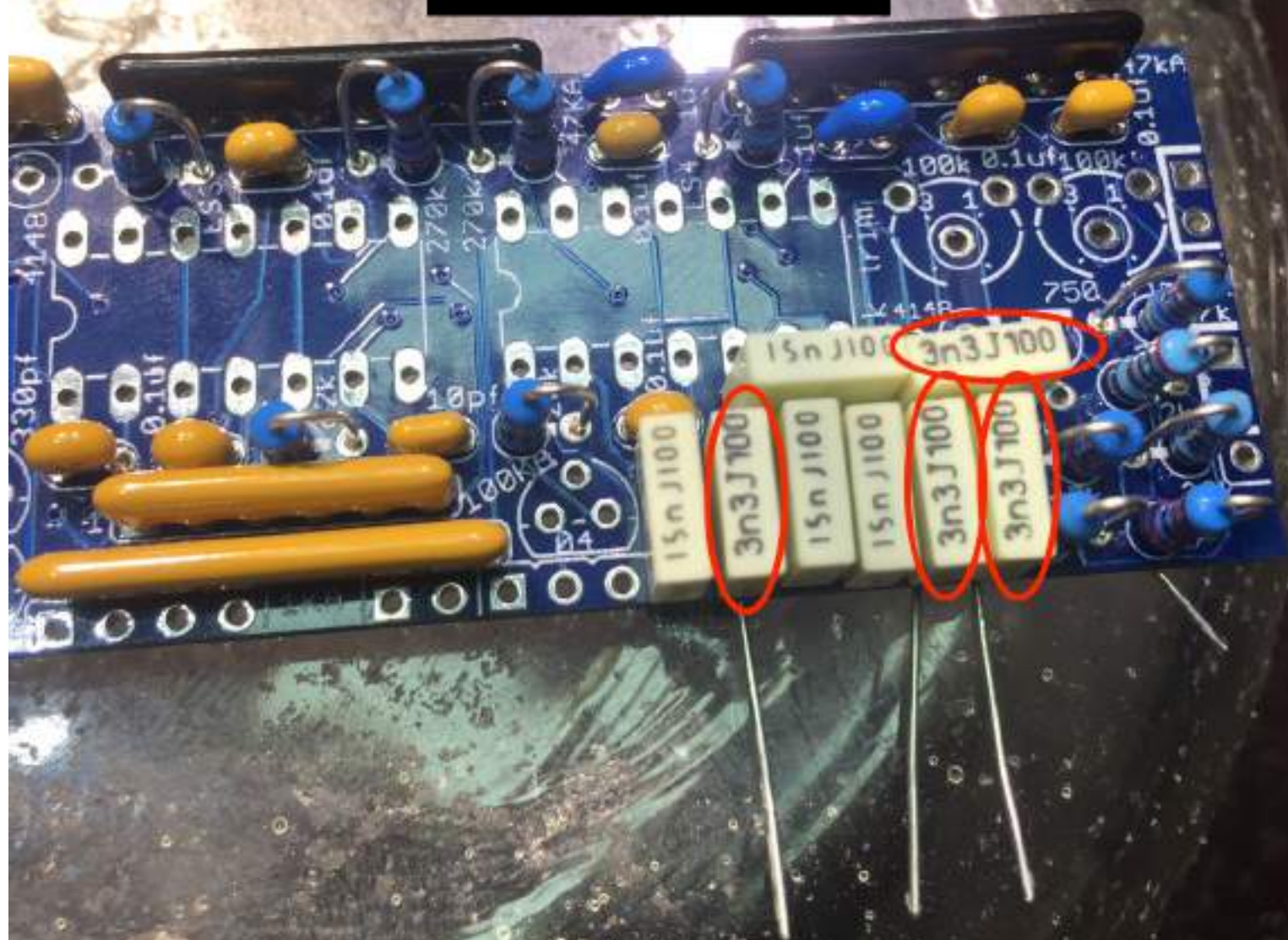


FOUR 15NF
CODE 15N

FOUR 2.2NF
CODE 2N2



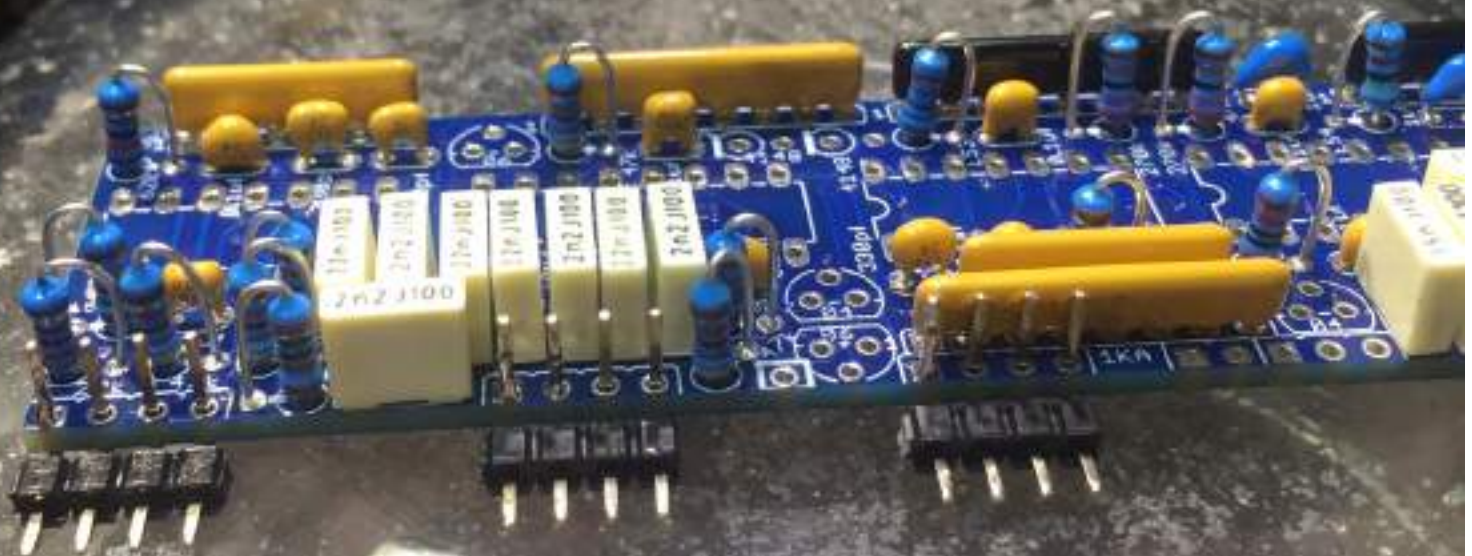
FOUR 3.3NF
CODE 3N3



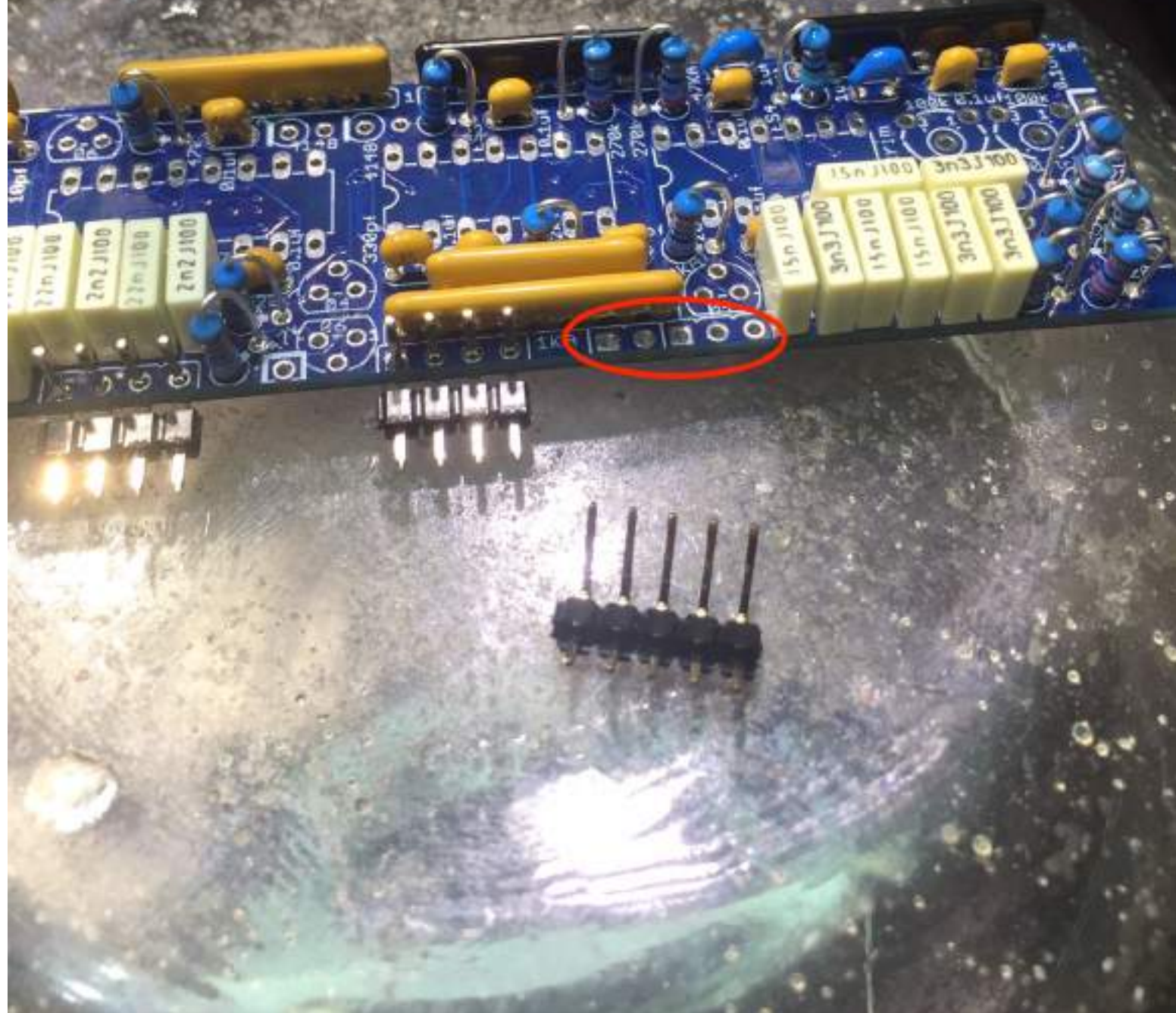
**THREE 4PIN RIGHT ANGLE
MALE HEADERS. LONG END
GOES THROUGH BOTTOM OF
PCB**



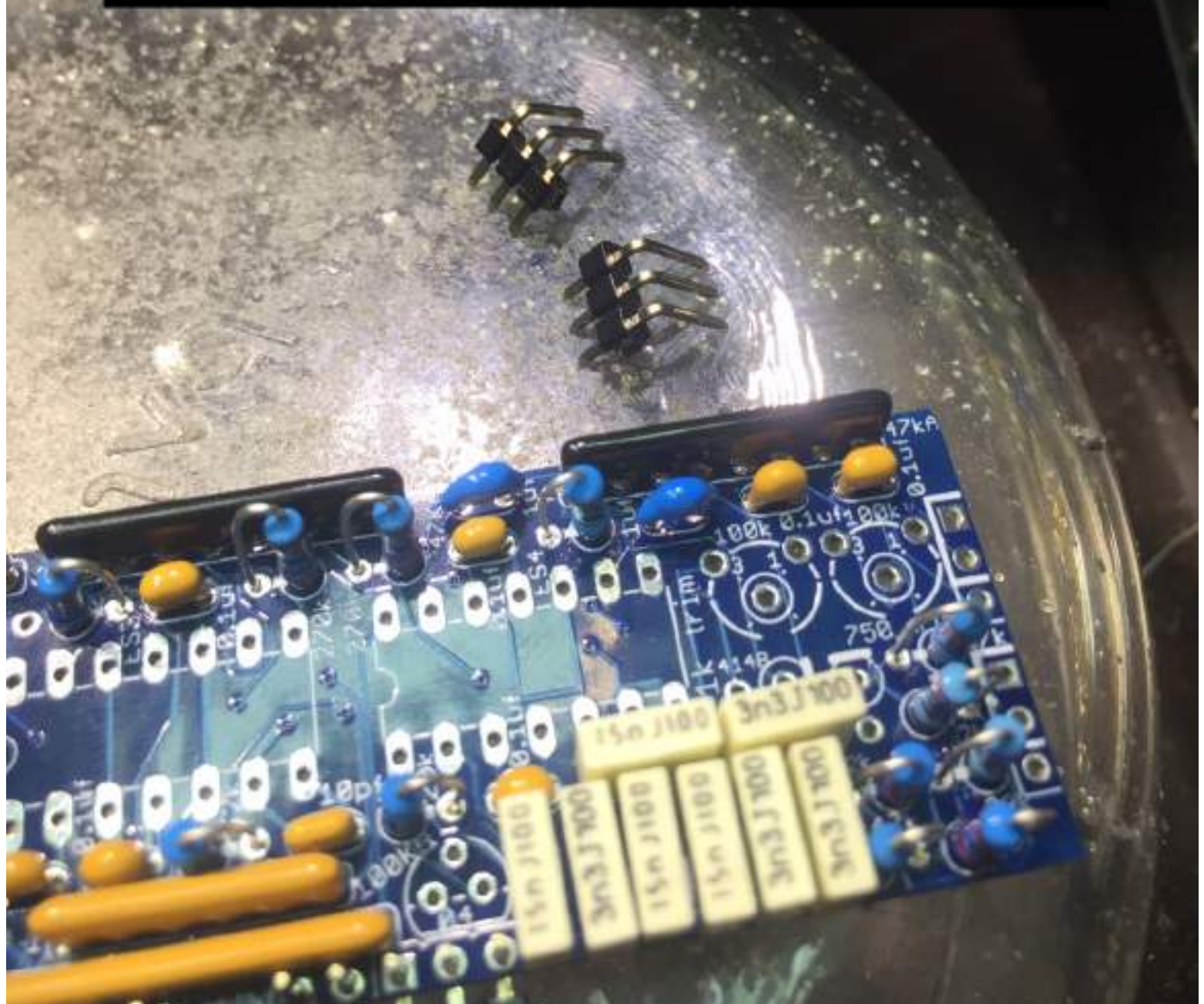
**THREE 4PIN HEADERS
MAKE SURE THEY ARE FLUSH
WITH THE PCB**



ONE 5PIN HEADER
LONG END THROUGH
BOTTOM OF PCB



**TWO 3PIN RIGHT ANGLE MALE
HEADERS. SHORT END GOES
THROUGH TOP OF THE PCB.**



TWO 3PIN HEADERS



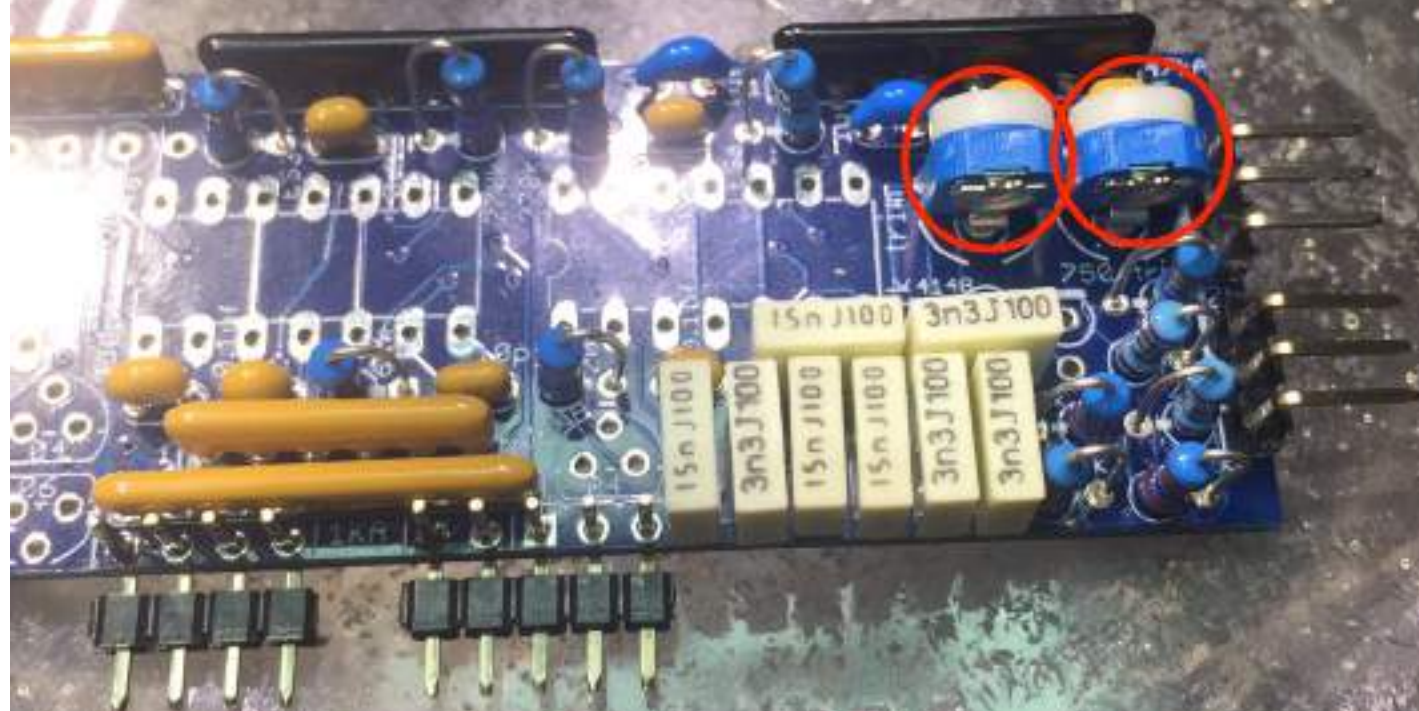
**TWO 100K 6MM SIDE TRIMS
CODE104**



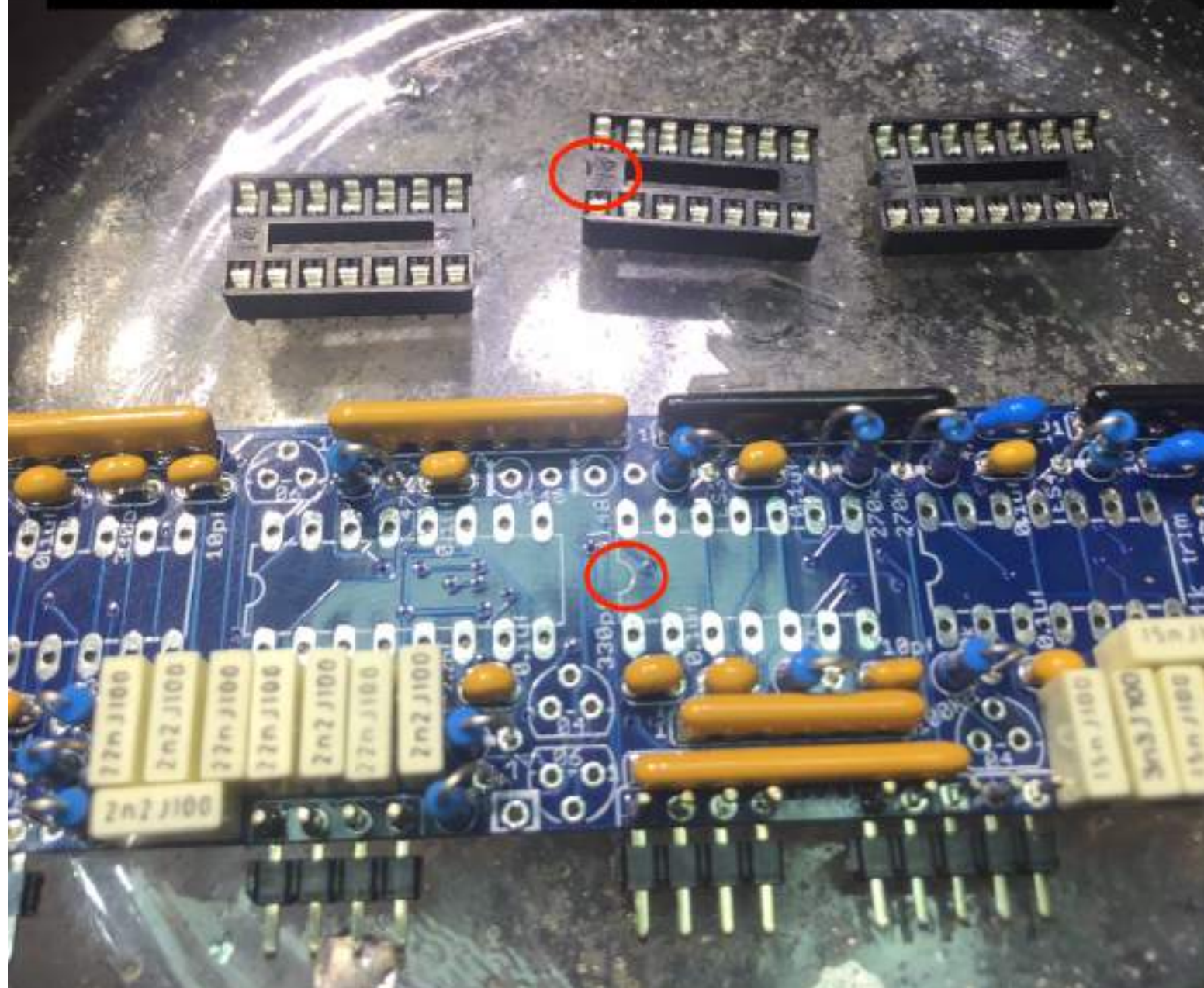
**TILT THE TRIMS BACK A BIT FOR
EASIER TRIMMING ACCESS**



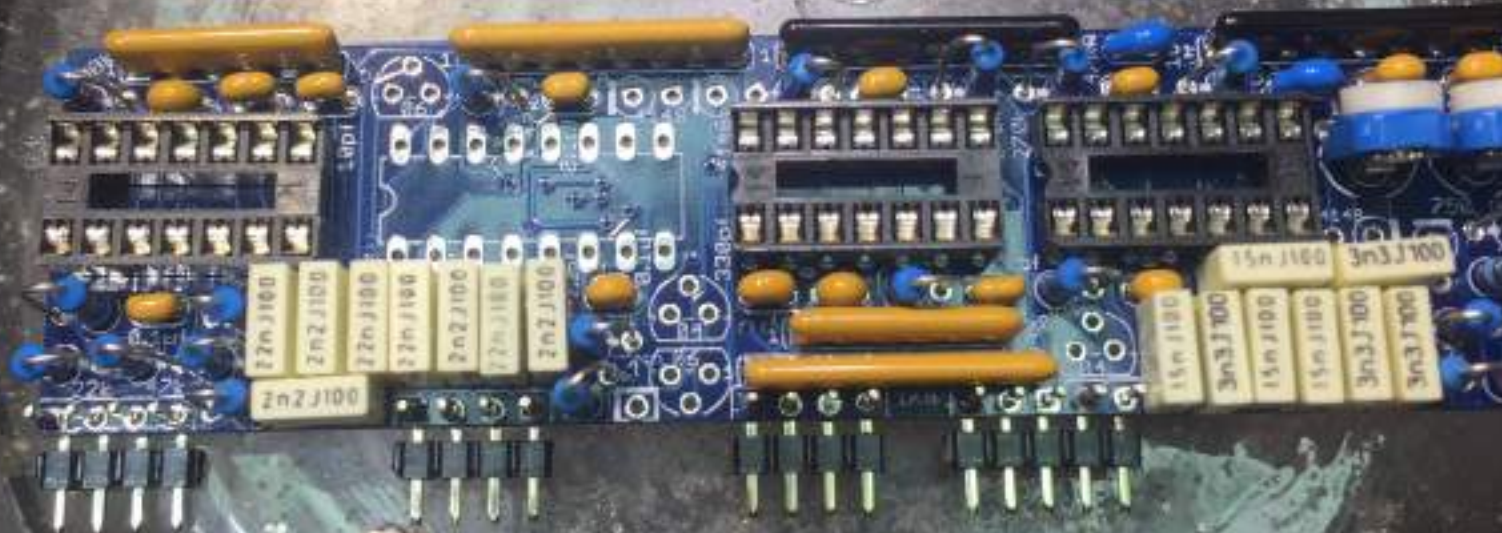
TWO 100K TRIMS



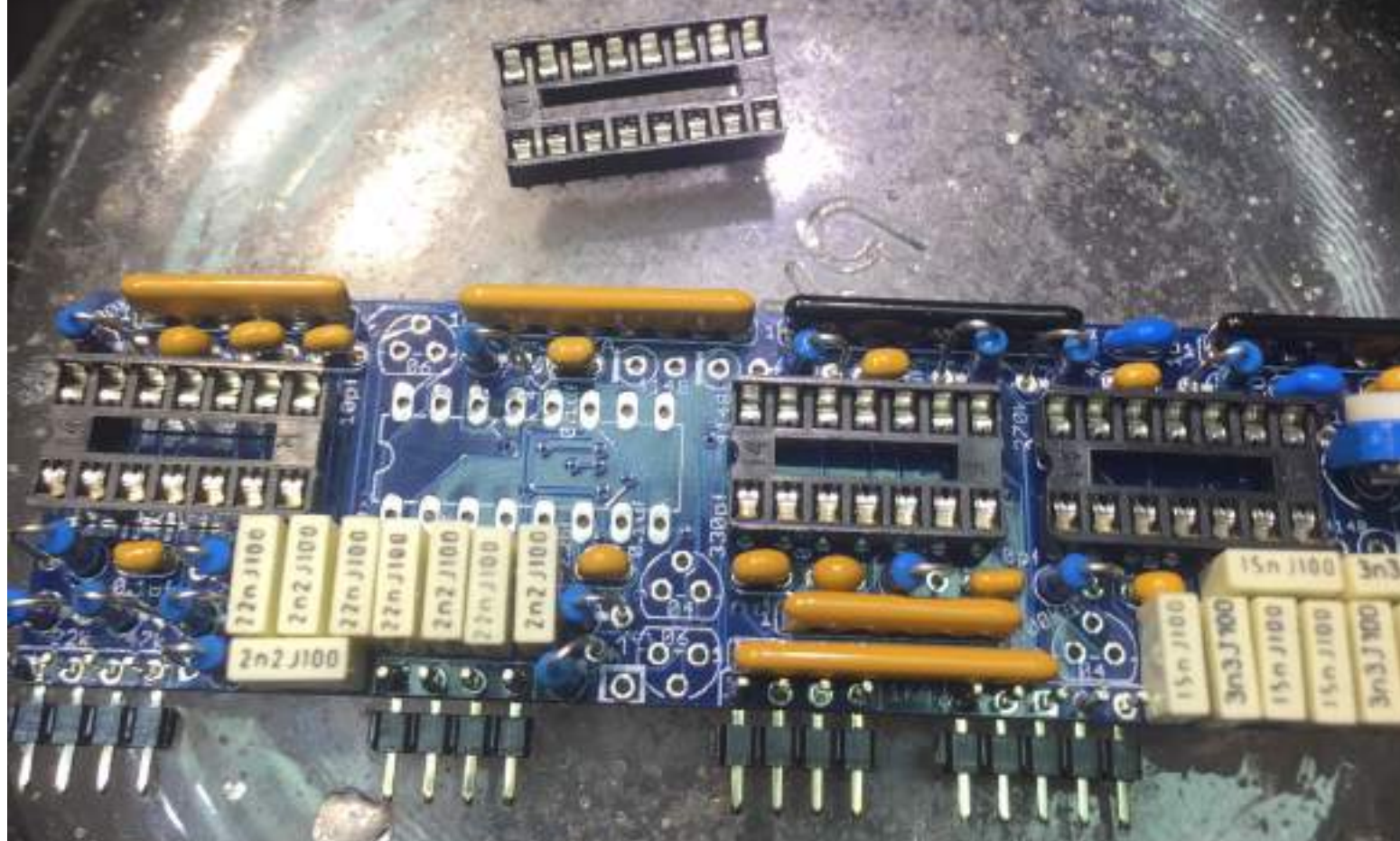
**THREE 14PIN DIP SOCKETS.
MATCH NOTCH WITH
SILKSCREEN NOTCH ON PCB**



THREE 14PIN SOCKETS



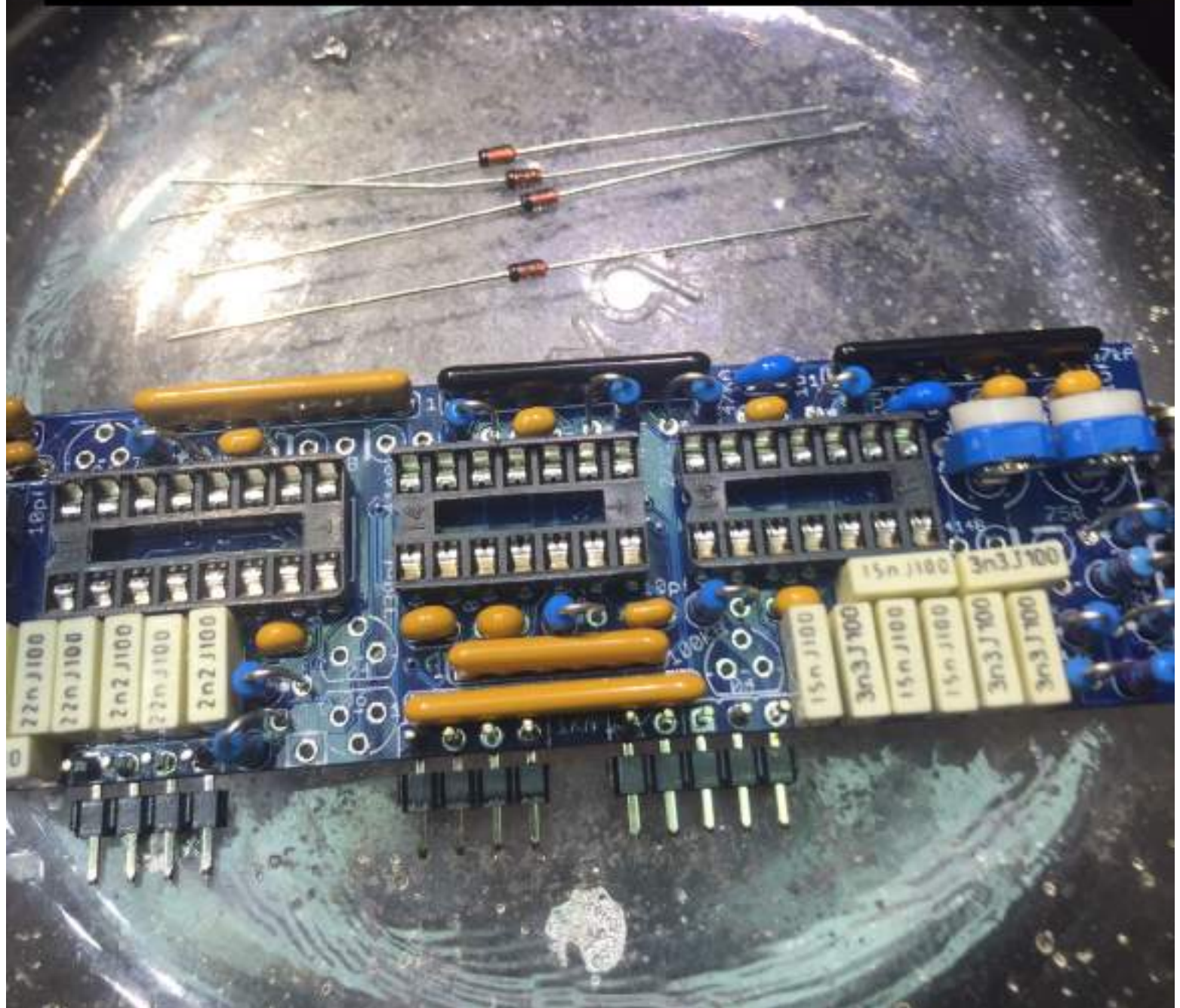
ONE 16PIN DIP SOCKETS
NOTCH ON THE LEFT



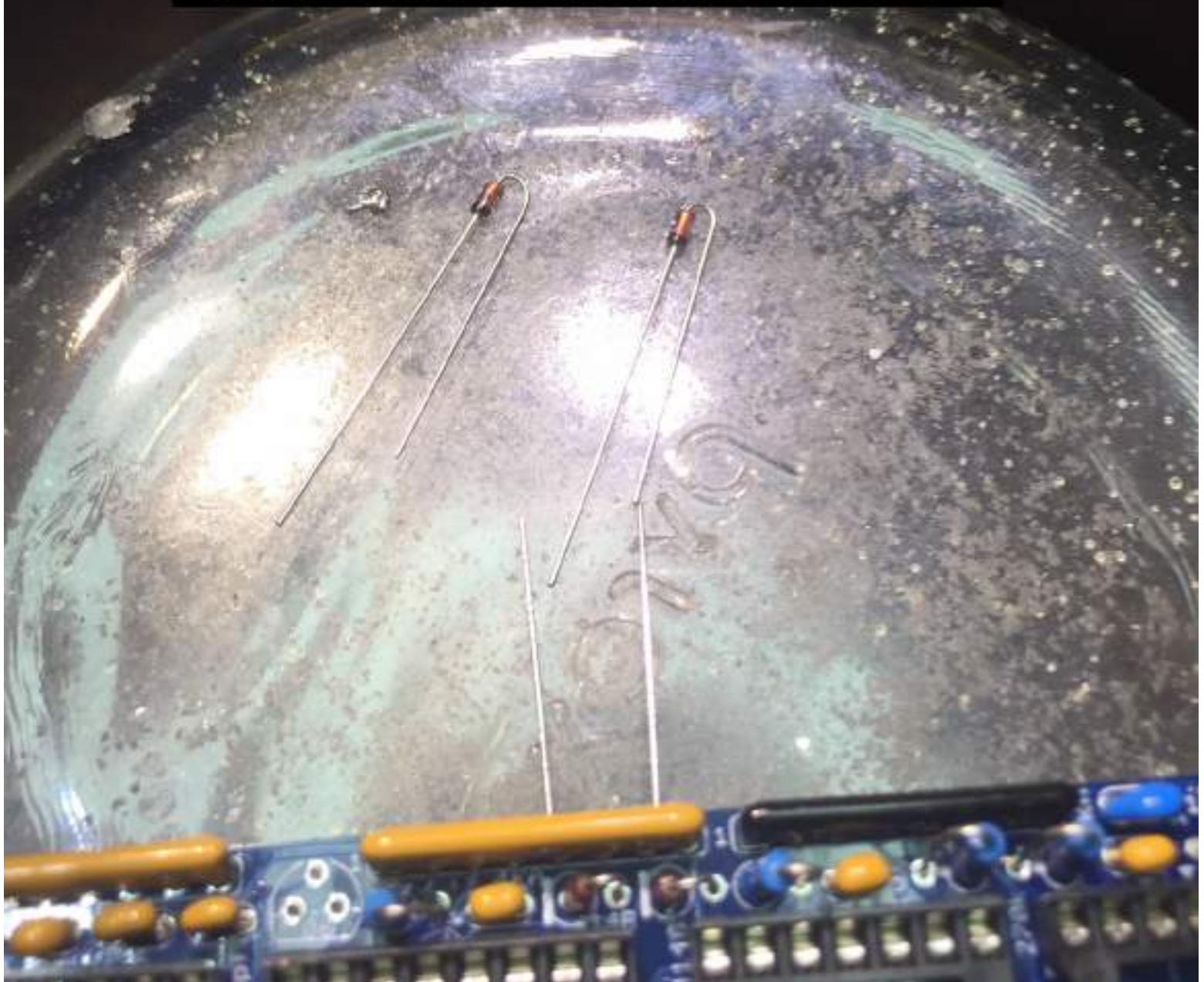
16PIN SOCKET



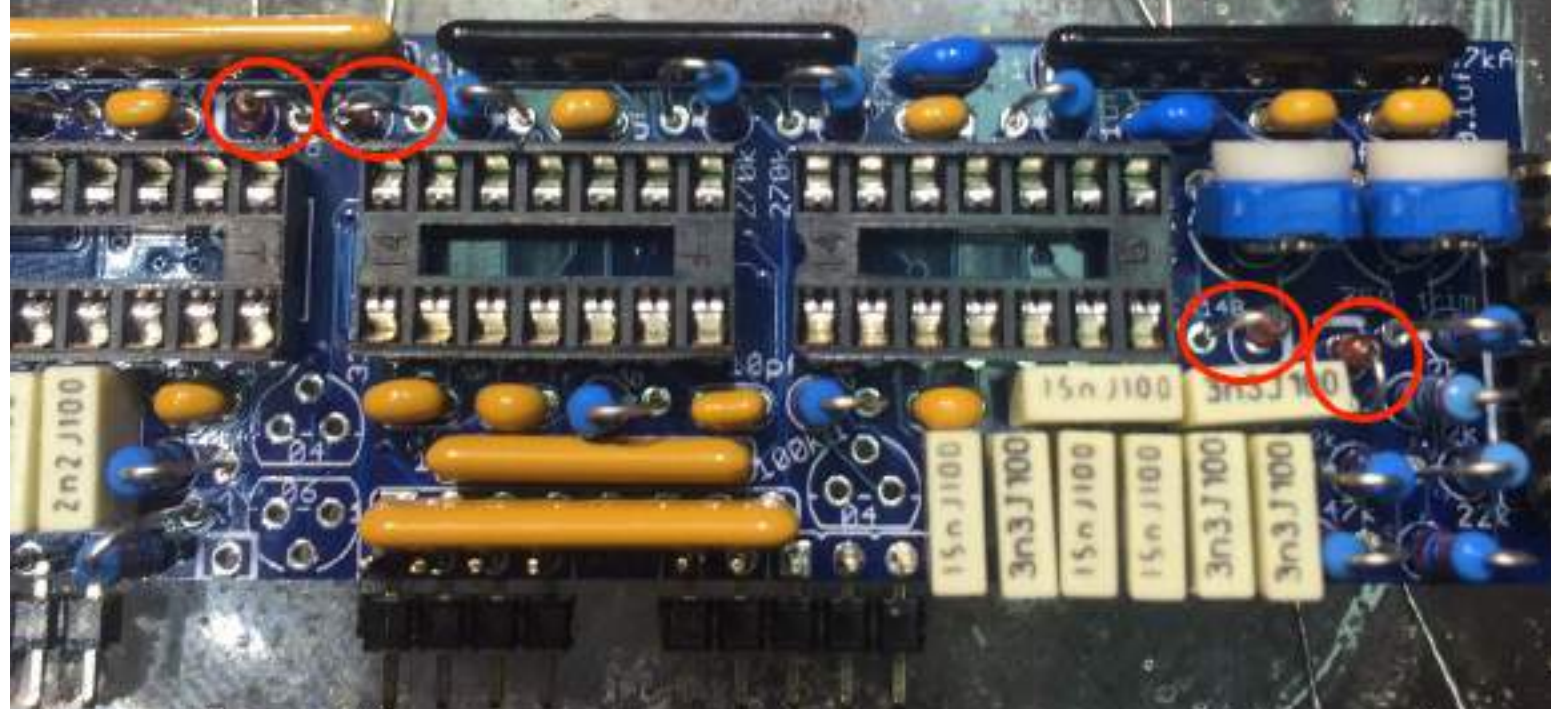
**FOUR 4148 DIODES. THESE ARE
SENSITIVE TO ELECTROSTATIC
DISCHARGE. THESE ALSO HAVE
AN ORIENTATION. BLACK STRIPE
DOWN**

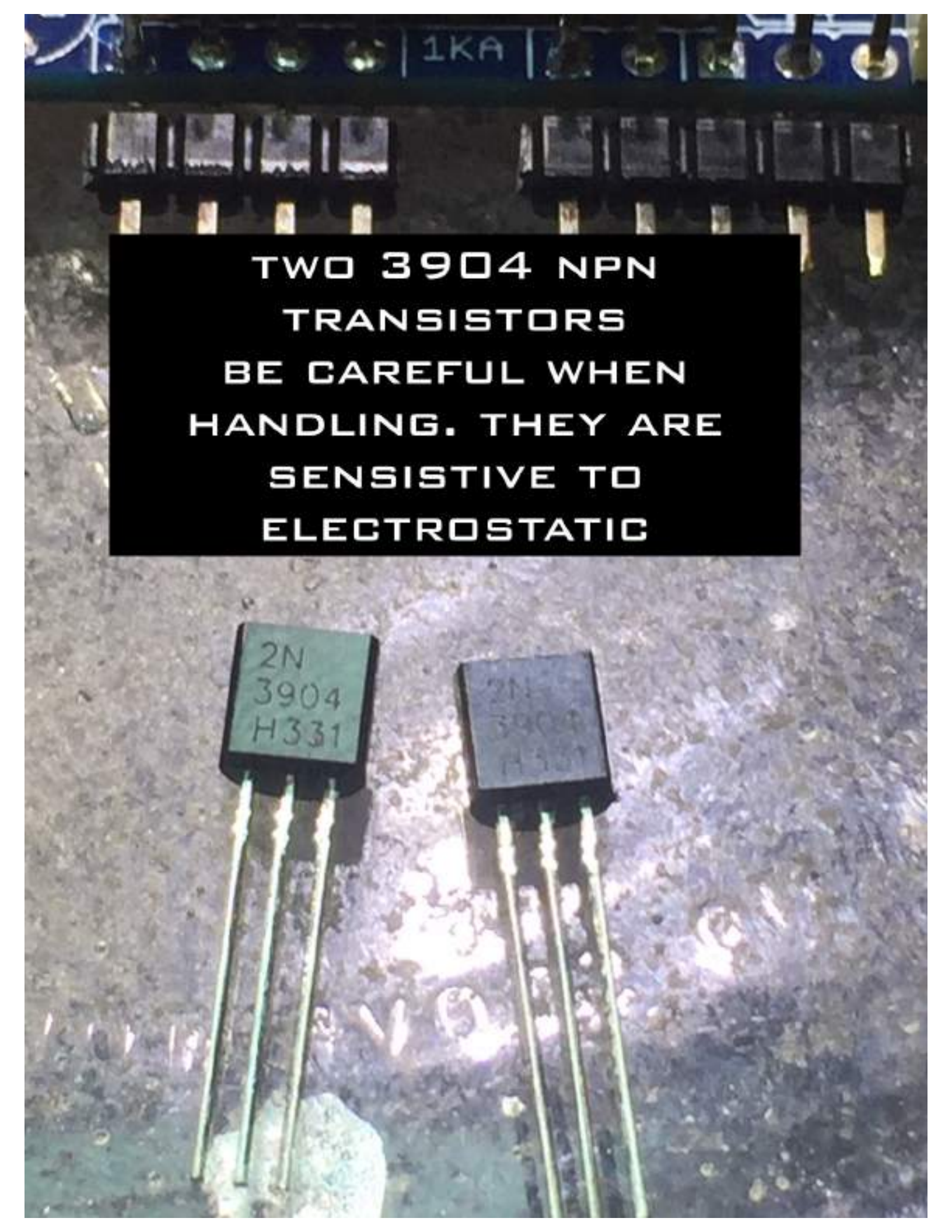


BEND ALL 4 LIKE BELOW

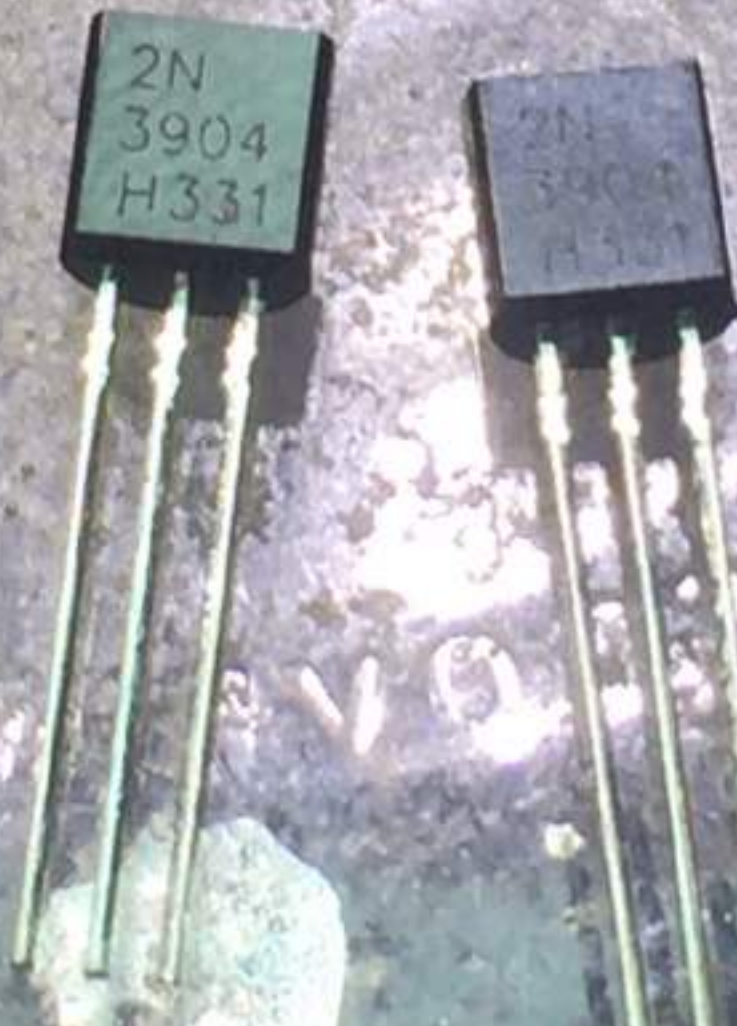


FOUR 4148 DIODES

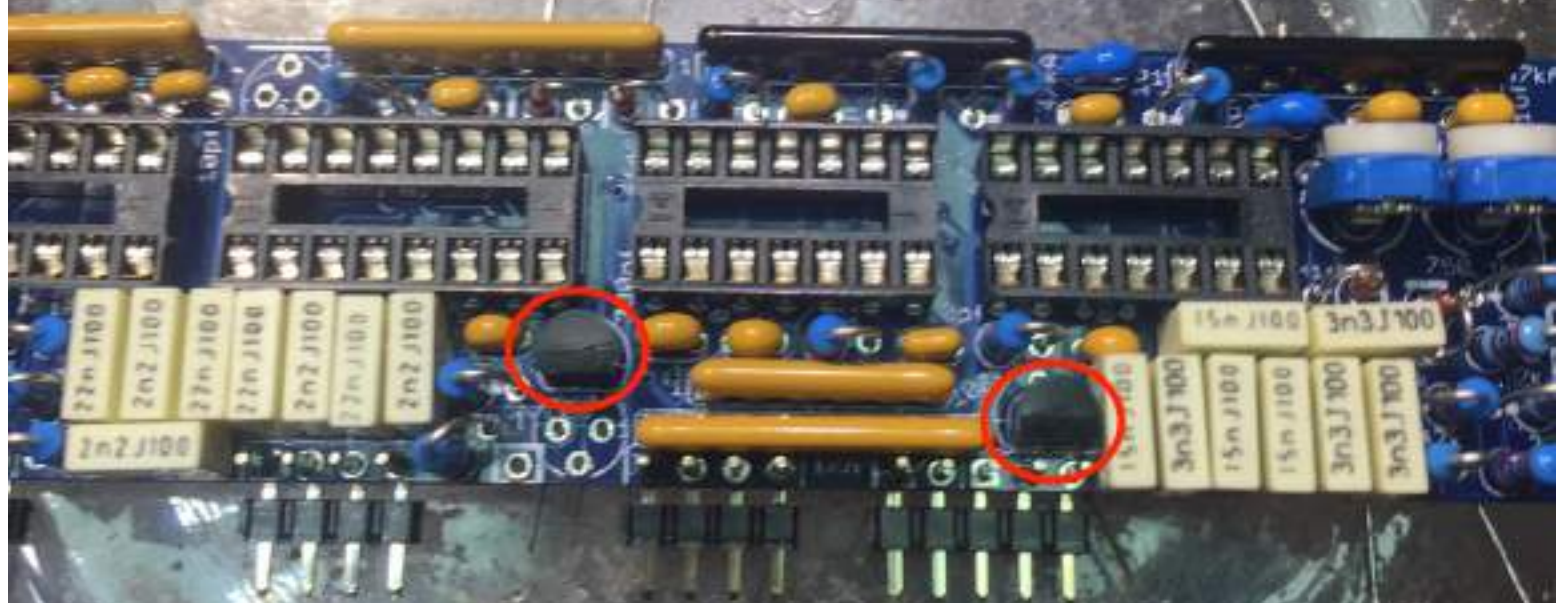




**TWO 3904 NPN
TRANSISTORS
BE CAREFUL WHEN
HANDLING. THEY ARE
SENSISTIVE TO
ELECTROSTATIC**



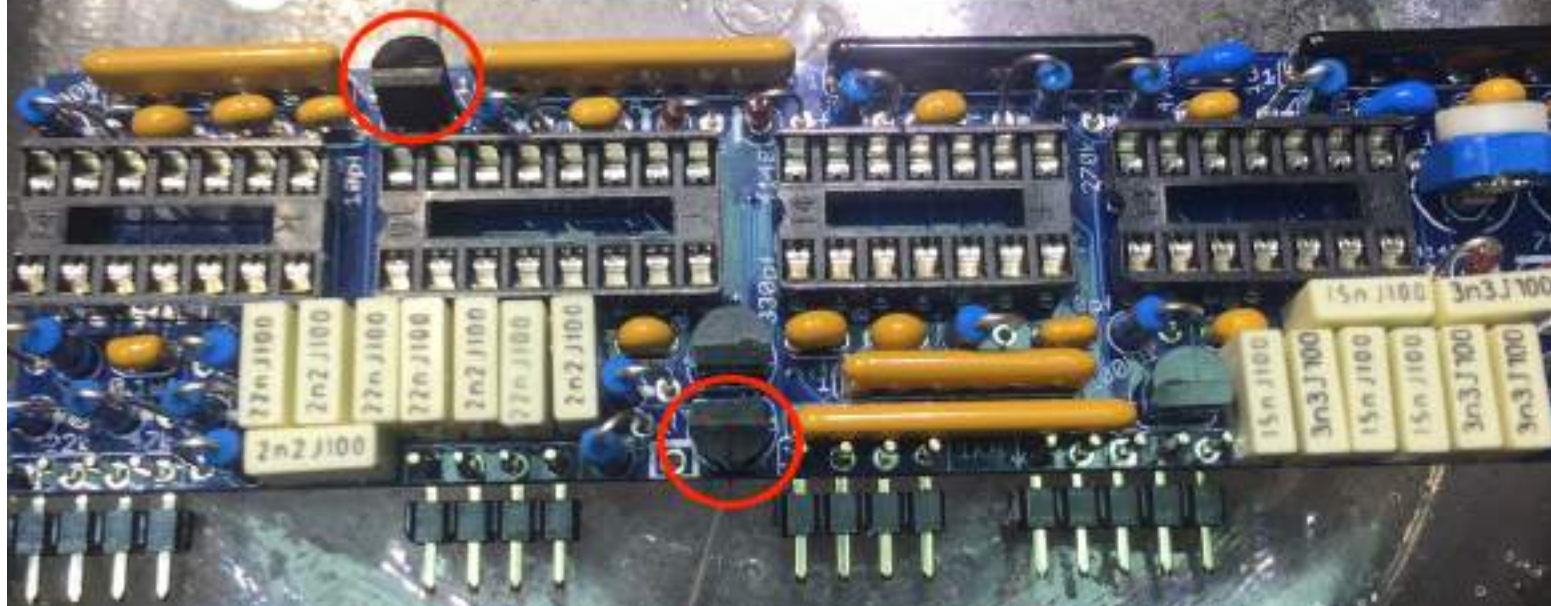
TWO 3904



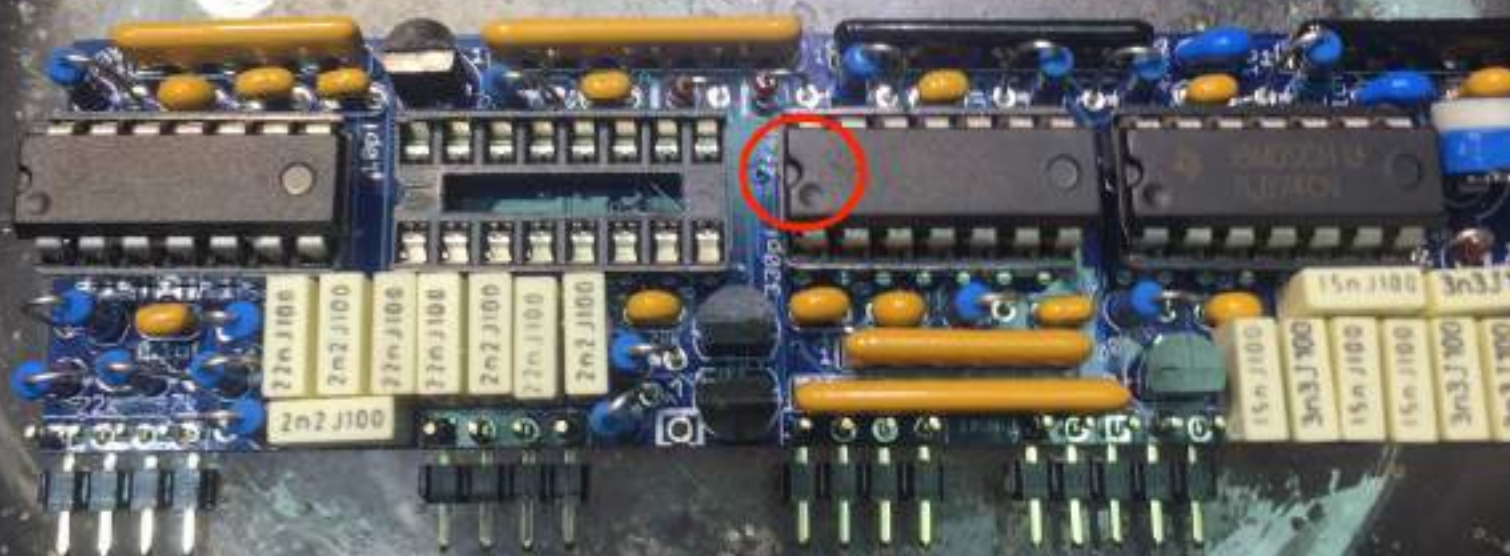
TWO 3906 PNP



TWO 3906

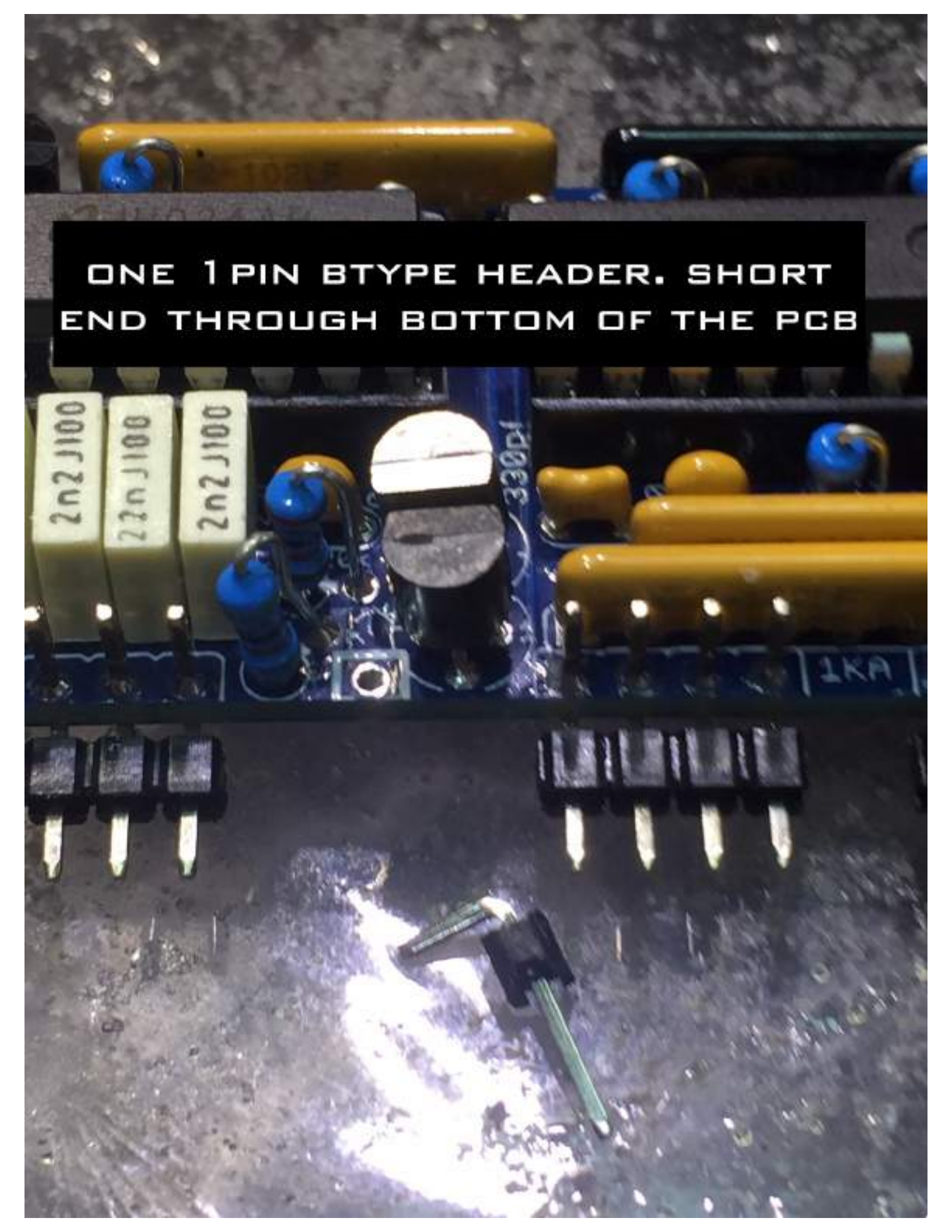


**THREE TL074 ICs
ALL NOTCHES ON THE LEFT**

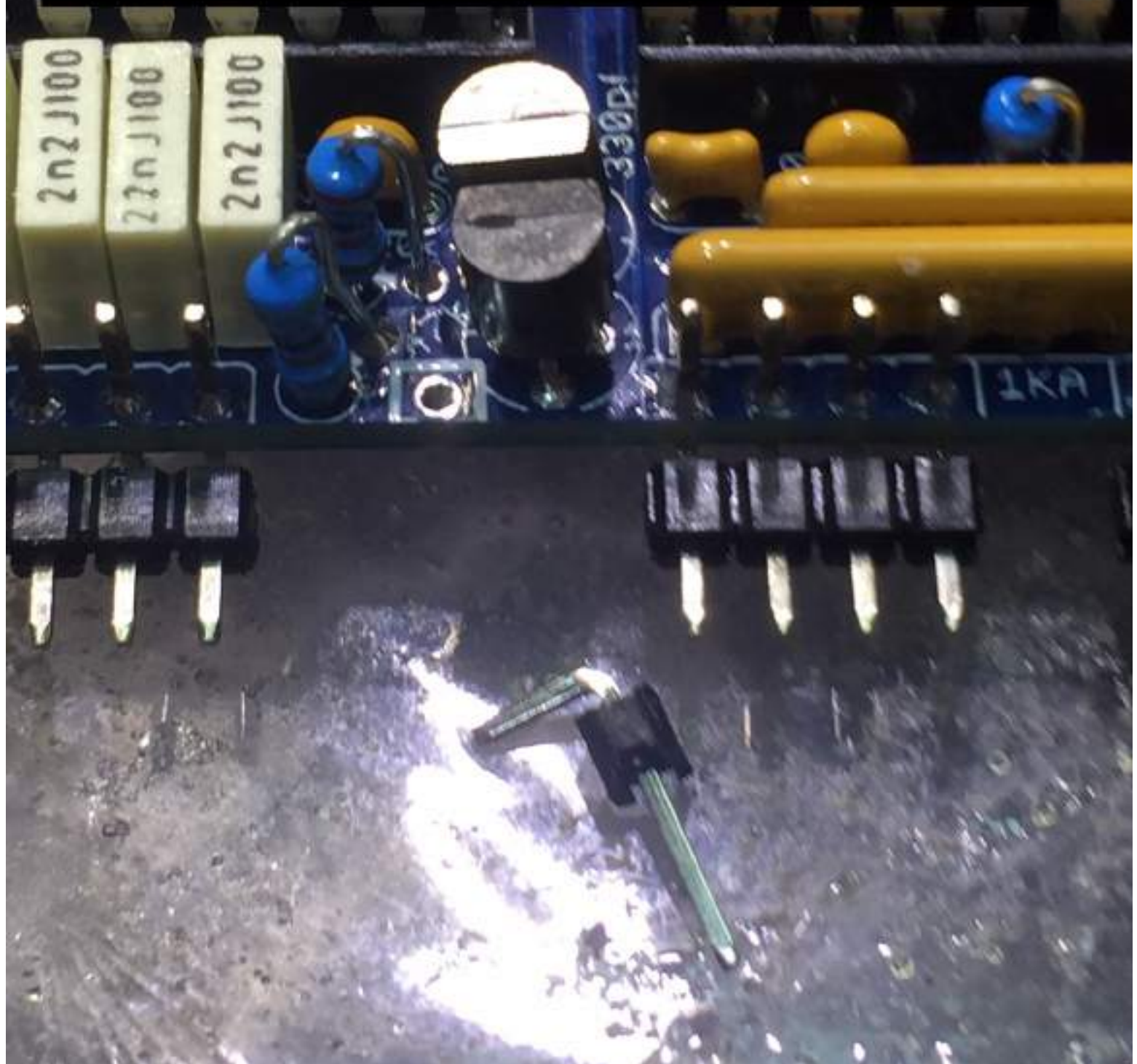


LM13700

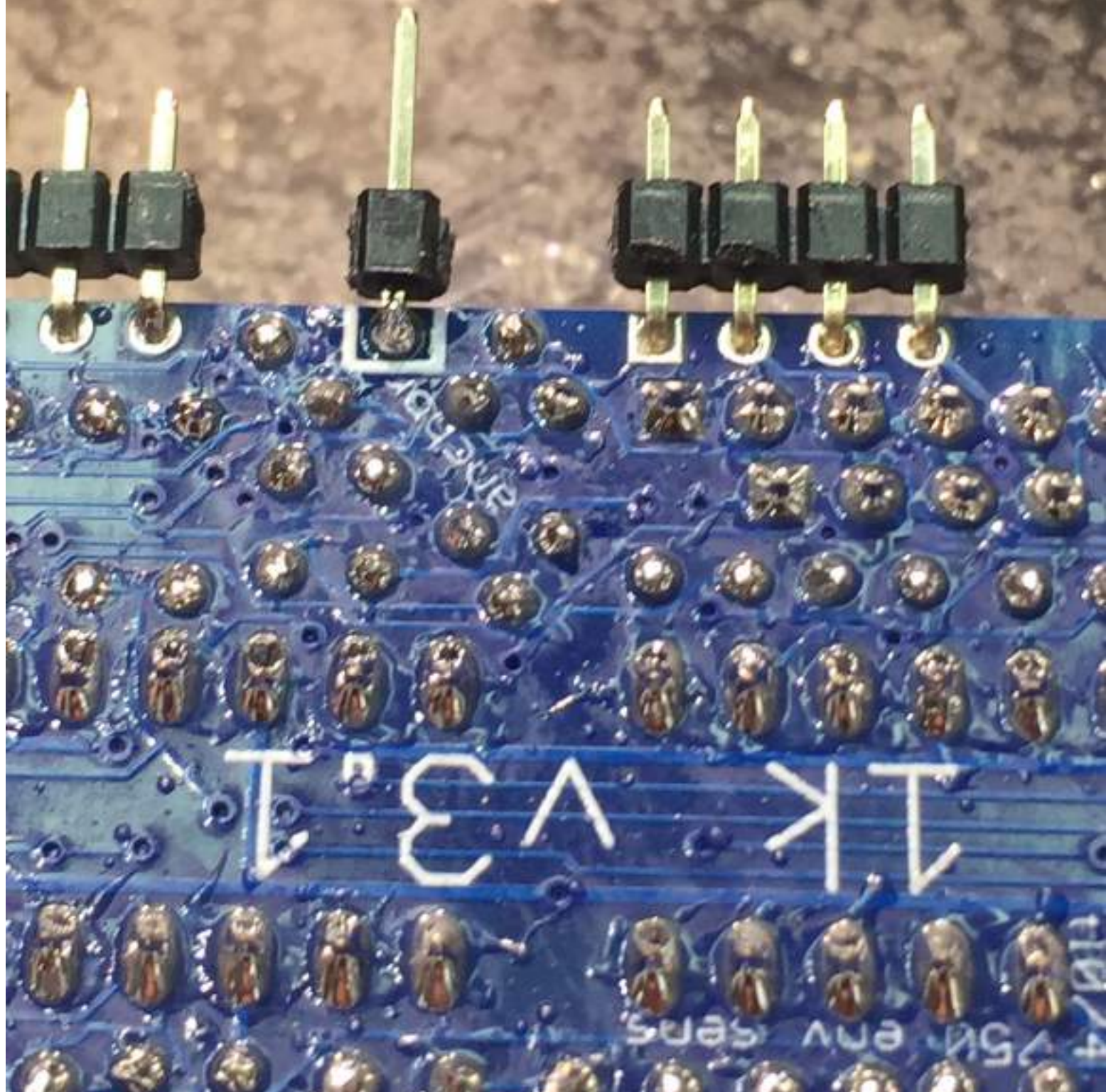


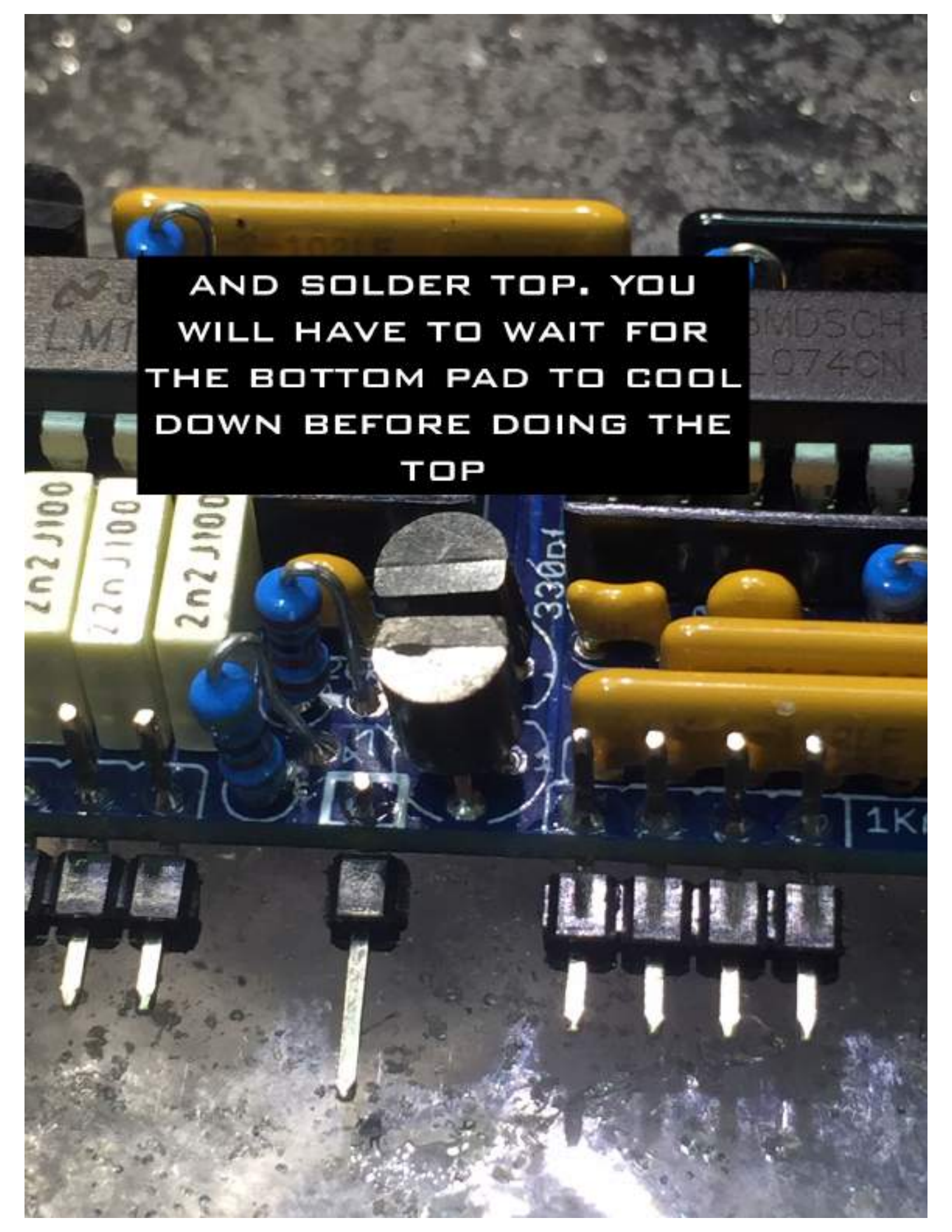


ONE 1 PIN BTYPE HEADER. SHORT
END THROUGH BOTTOM OF THE PCB



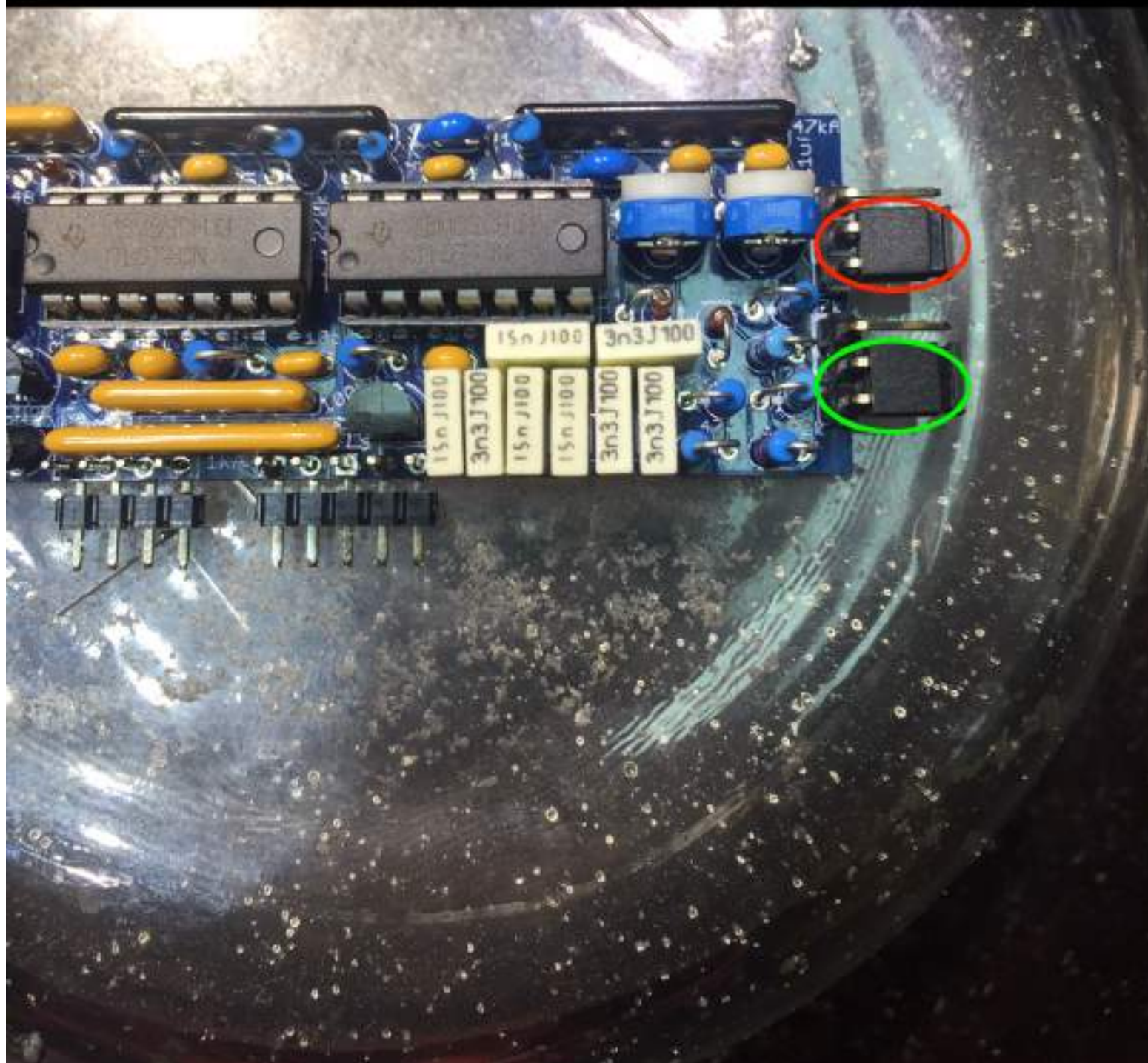
**SOLDER BOTTOM PAD. MAKE SURE IT'S
SITTING FLUSH WITH THE PCB**





AND SOLDER TOP. YOU
WILL HAVE TO WAIT FOR
THE BOTTOM PAD TO COOL
DOWN BEFORE DOING THE
TOP

LIKE THE 3 OTHER FILTER PCB
CARDS. THESE SHUNTS SET PRE
OR POST VCA FOR THE ENVELOPE
FOLLOWER. IN THE BOTTOM
POSITION THIS IS DEFAULT FOR
ENV FOLL POST VCA. RED IS 750
GREEN IS 1K



**TOP OR RIGHT POSITION IS PRE
VCA FOR THE ENVELOPE
FOLLOWERS.**

