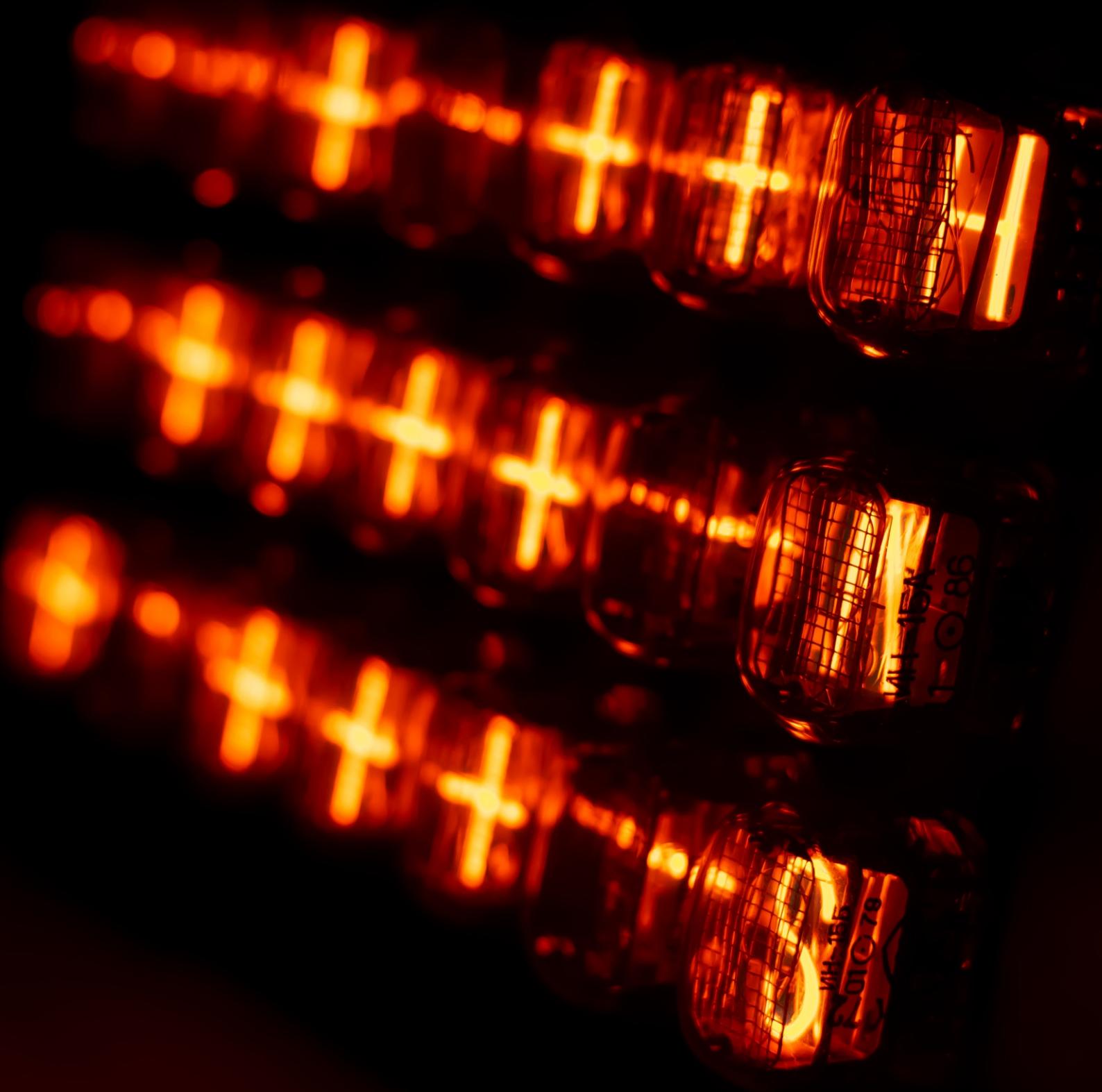


BIG BINARY NIXIE CLOCK

ASSEMBLY INSTRUCTION



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COMPONENTS

- R1...R21 - 15K...20K
- R22 - 10K
- C1, C4, C6, C7 - 100nF, >16V
- C2, C3, C5 - 220uF; >16V
- U1 - L7805; 5V
- U2 - LD1117AV33; 3.3V

- PH1, PH3 - PIN HEADER 1 x 3; FEMALE
- PH2, PH4 - PIN HEADER 1 x 4; FEMALE
- PH5, PH8 - PIN HEADER 1 x 8; MALE
- PH6 - PIN HEADER 1 x 10; MALE
- PH7 - PIN HEADER 1 x 6; MALE
- PH9 - PIN HEADER 1 x 3; ANGLE; MALE
- JUMPER
- PH10 - PIN HEADER 1 x 5; MALE
- PH11...PH18 - PIN HEADER 1 x 14; FEMALE
- VIN1, VIN2 - POWER CONNECTOR
- CON1 - SENSOR CONNECTOR
- SPACER - 30mm x 6; F-F
- SCREW - M3 x 8; 6mm
- SCREW - M3 x 6; 20mm
- SCREW NUT- M3 x 2
- PIN SOCKET x 126
- NIXIE CLOCK PCB
- ENCLOSURE

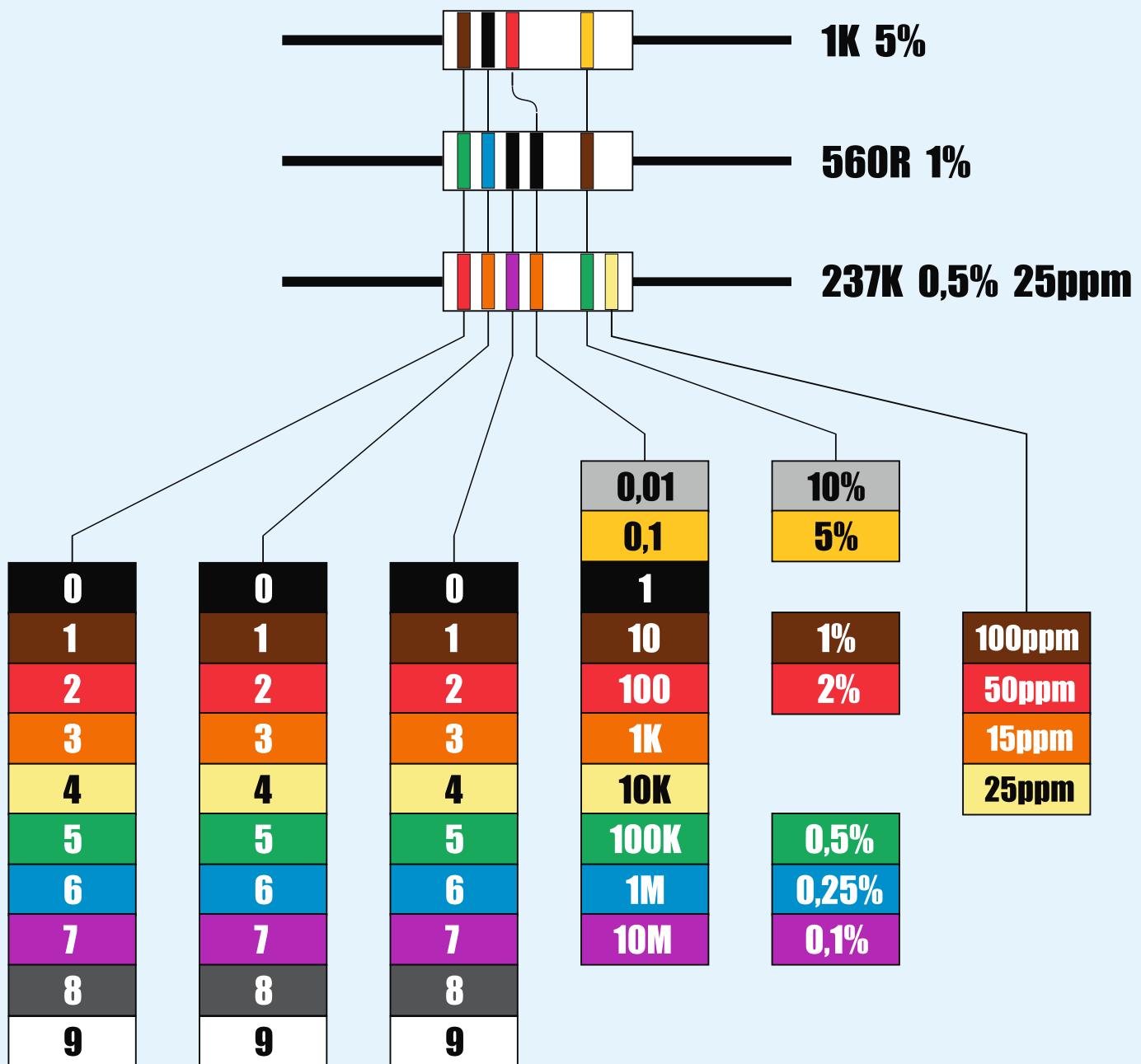
- DS3231 RTC MODULE
- NPS1, NPS2 - 2 x NIXIE POWER SUPPLY MODULE
- ND1, ND2 - 2 x NIXIE DRIVER MODULE



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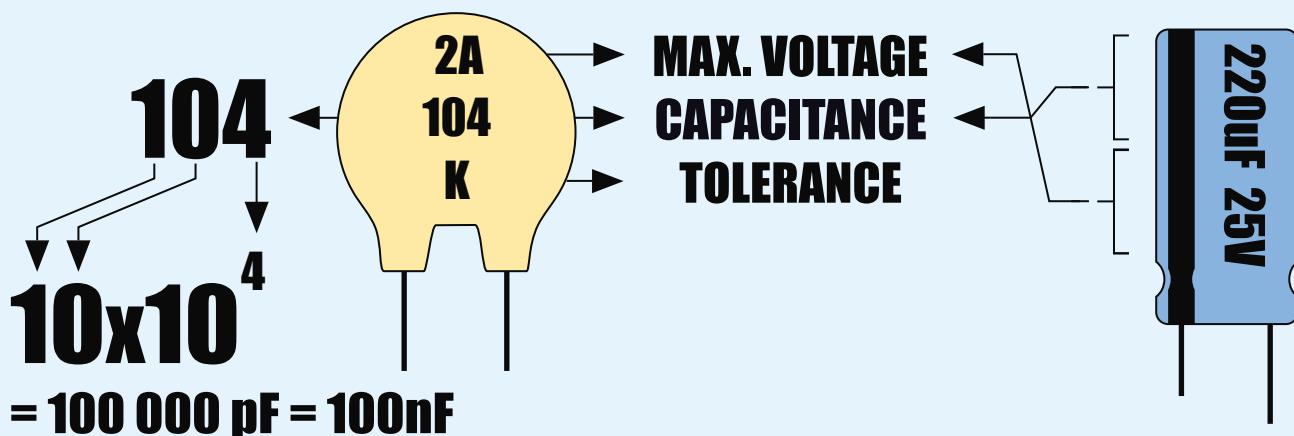
BIG BINARY NIXIE CLOCK

RESISTORS MARKING



BIG BINARY NIXIE CLOCK

CAPACITORS MARKING

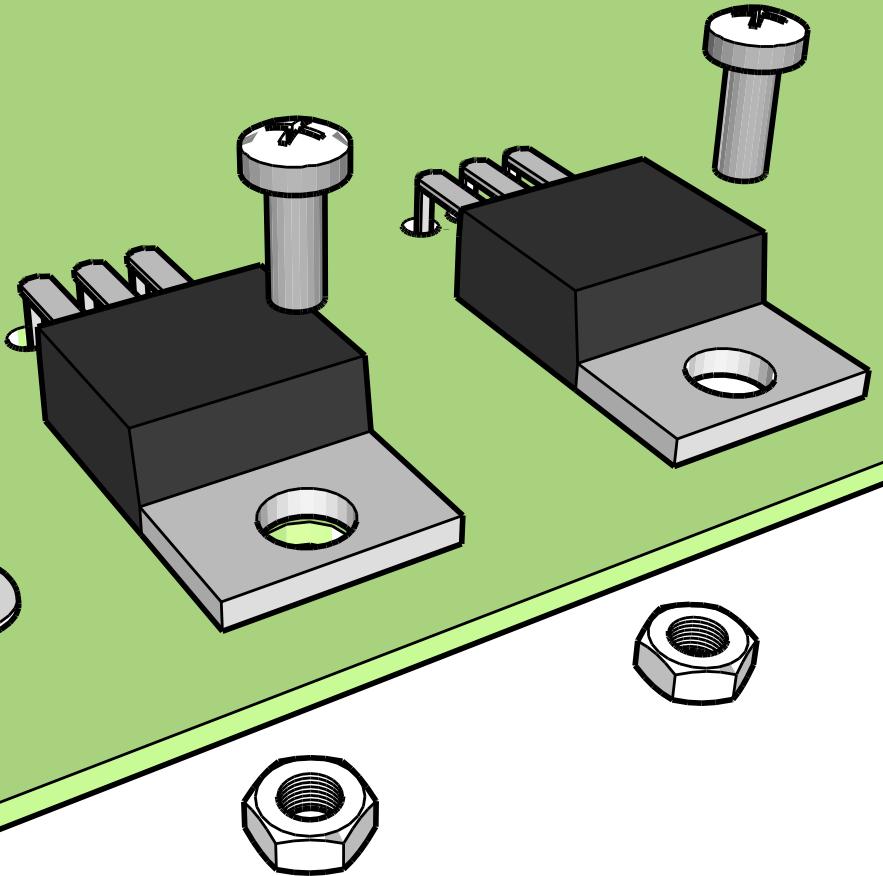


MAX. OPERATING VOLTAGE	
1H	50V
2A	100V
2T	150V
2D	200V
2E	250V
2G	400V
2J	630V

TOLERANCE	
B	0,1pF
C	0,25pF
D	0,5pF
F	1%
G	2%
H	3%
J	5%
K	10%
M	20%
Z	+80%, -20%

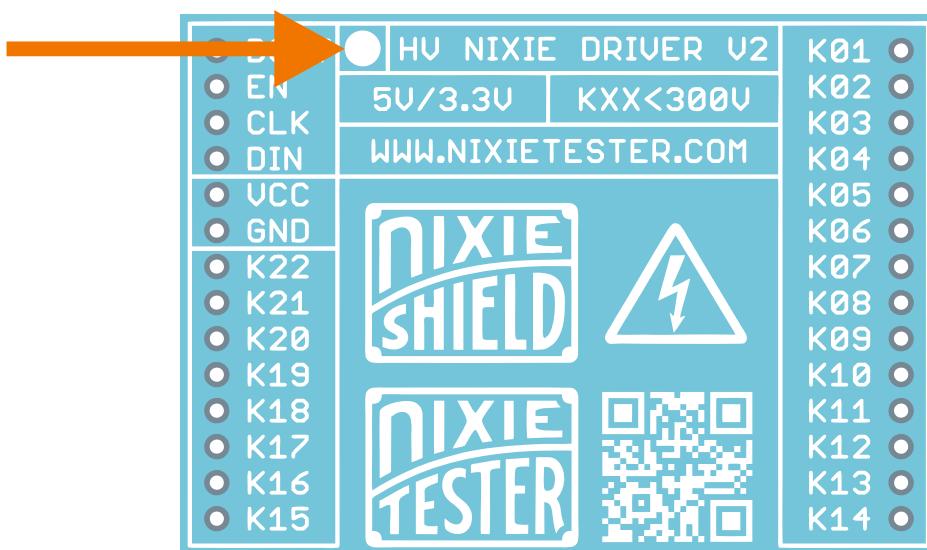
U1, U2

PCB



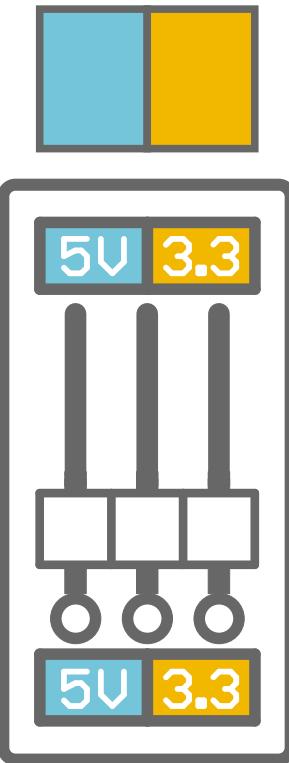
ND1, ND3 OR ND2, ND4

MARKINGS ON THE PCB
ARE VERY IMPORTANT



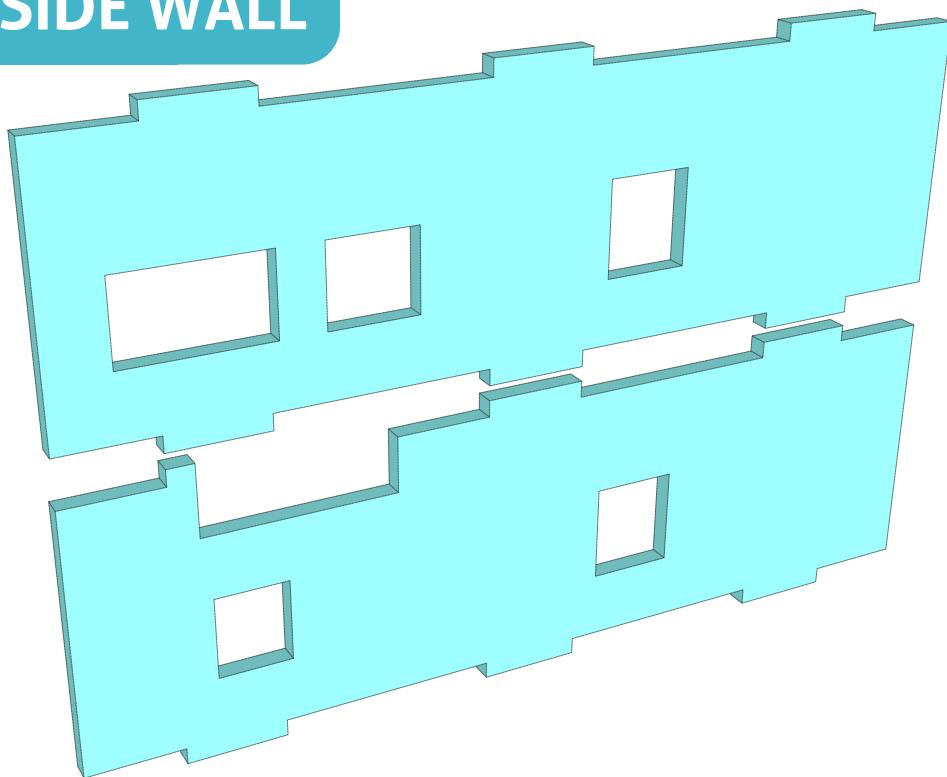
IF YOU CHOOSE IN-12A/B NIXIE TUBES YOU MUST INSERT ND MODULES
ONLY TO THE CORRESPONDING SLOTS "01"
IF YOU CHOOSE IN-15A NIXIE TUBES YOU MUST INSERT ND MODULES
ONLY TO THE CORRESPONDING SLOTS "-+"

PH9



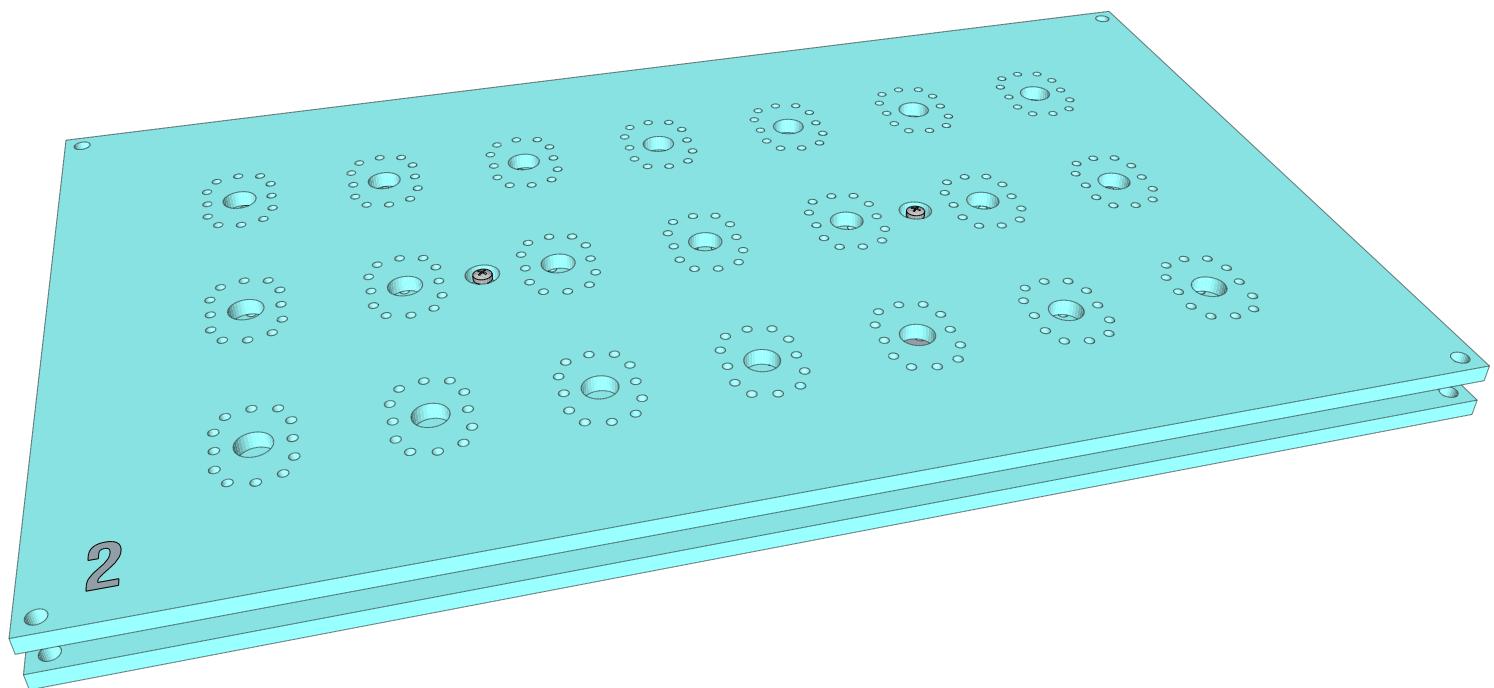
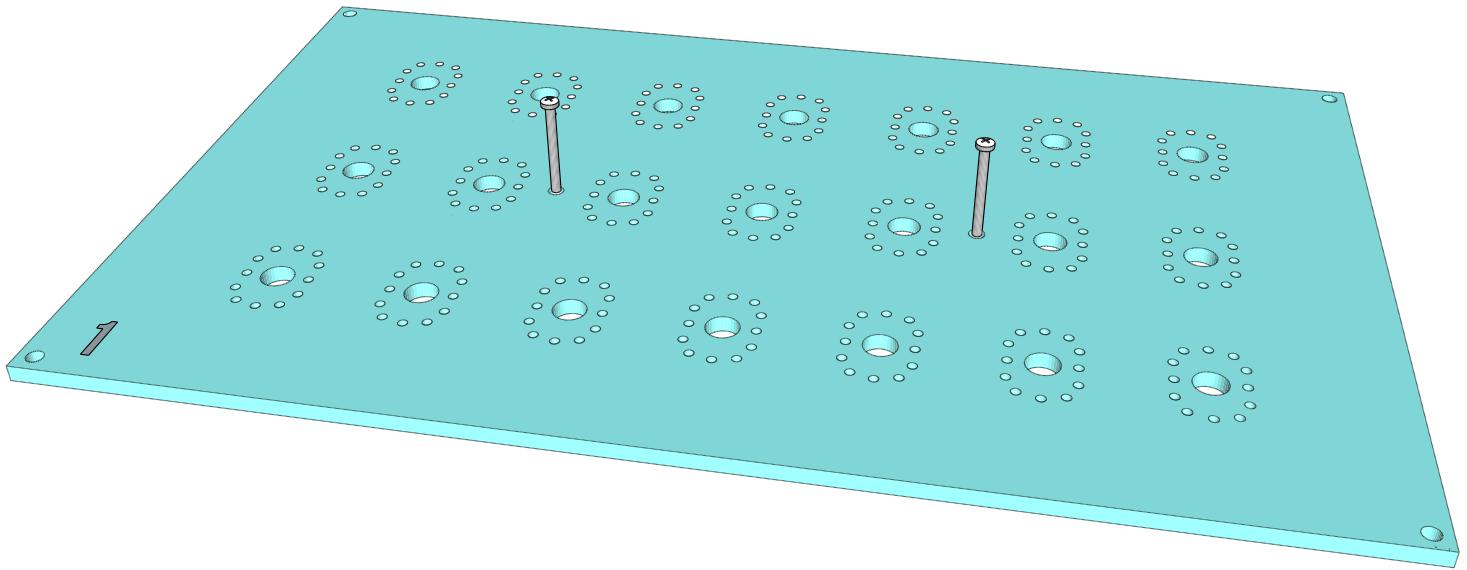
NOTE YOU MUST SET OPERATING VOLTAGE OF YOUR ARDUINO BOARD
FIRST CHECK ARDUINO DATASHEET E.G. UNO - 5V, NANO 33 IOT - 3.3V

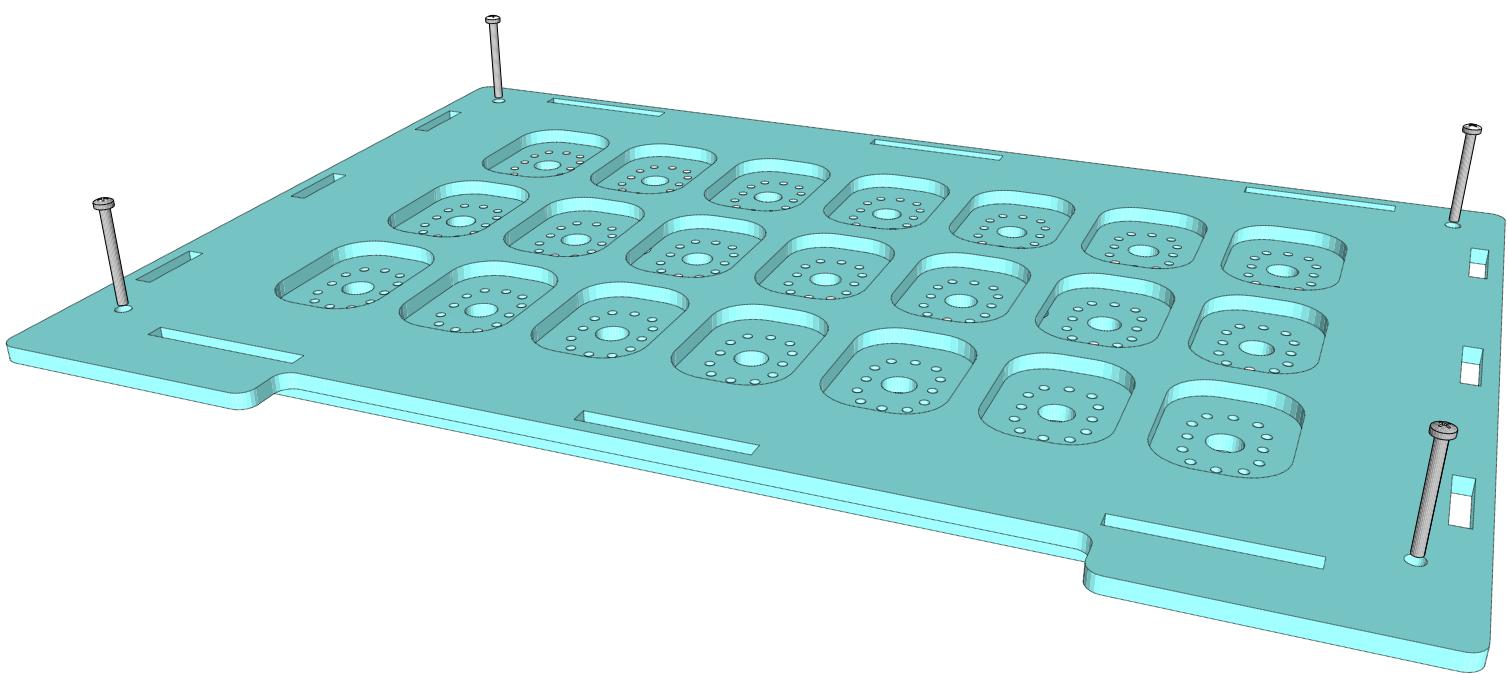
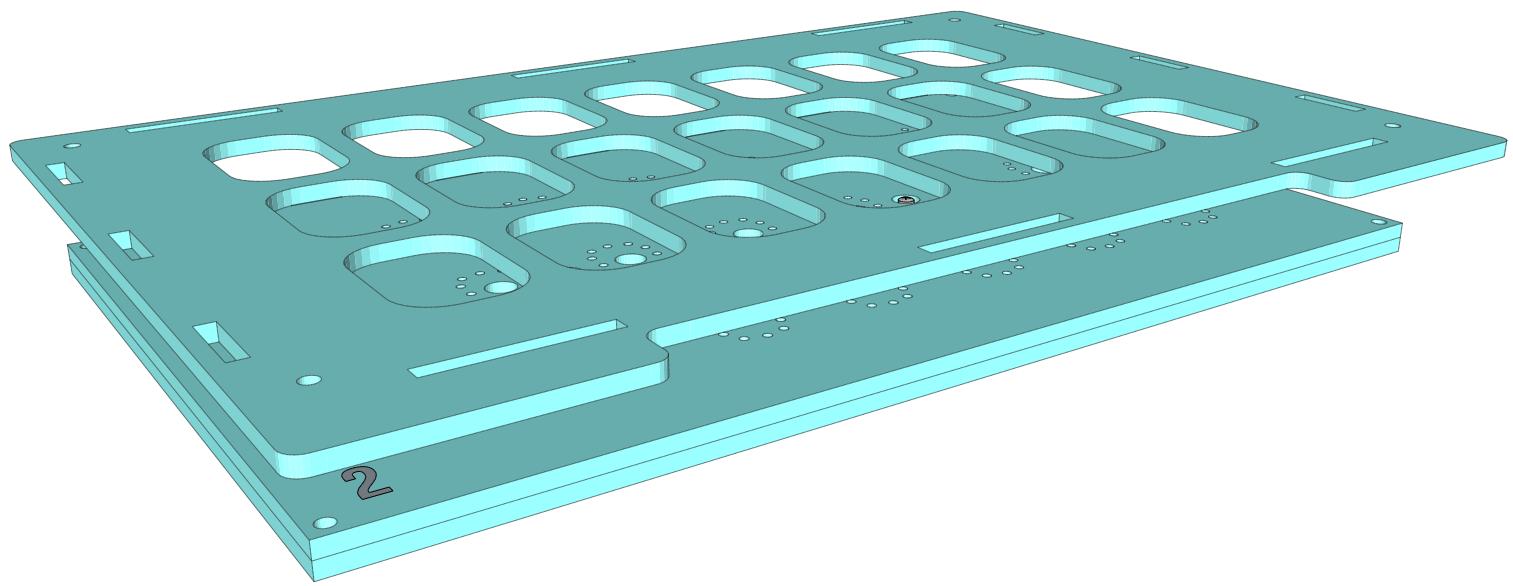
HOUSING SIDE WALL

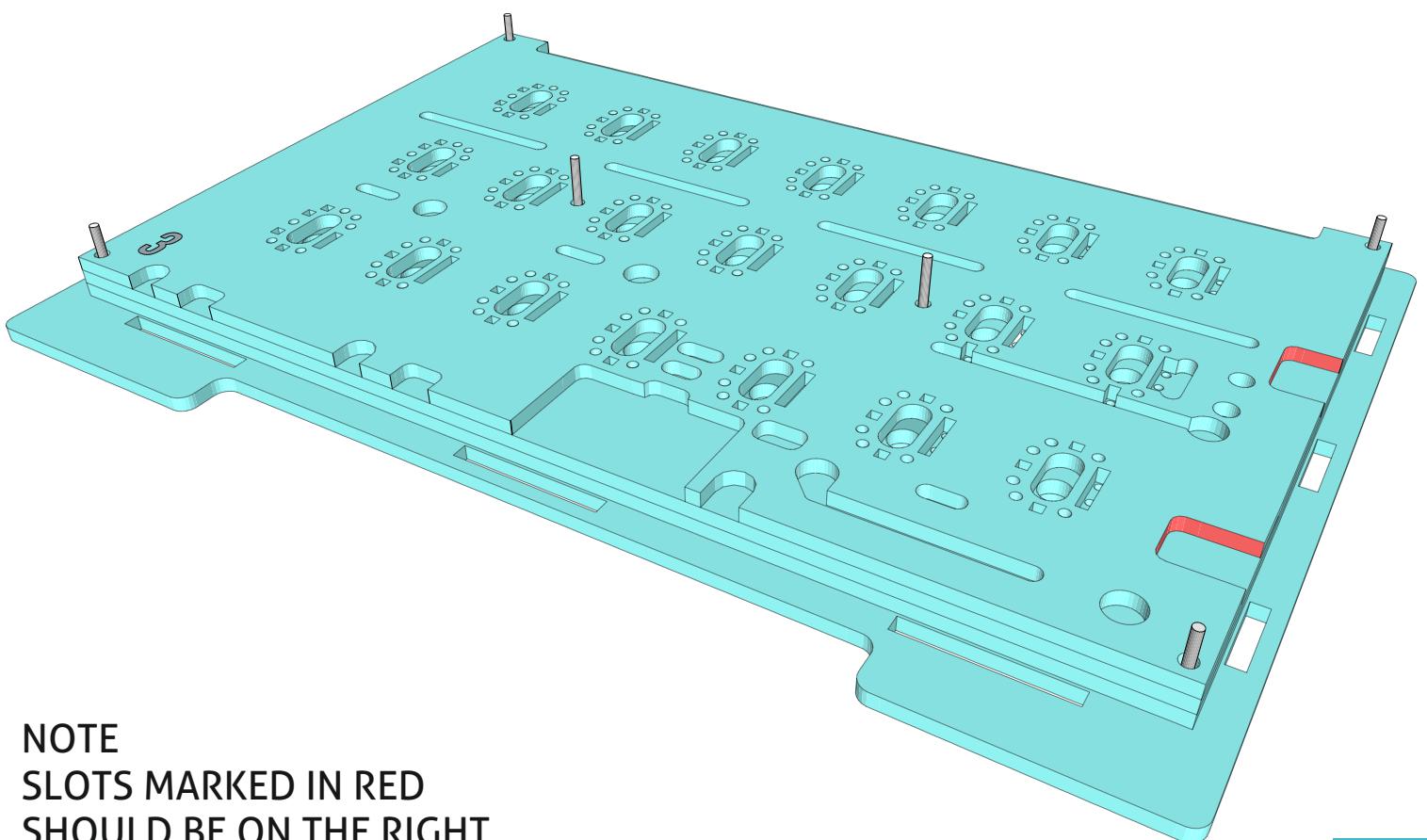
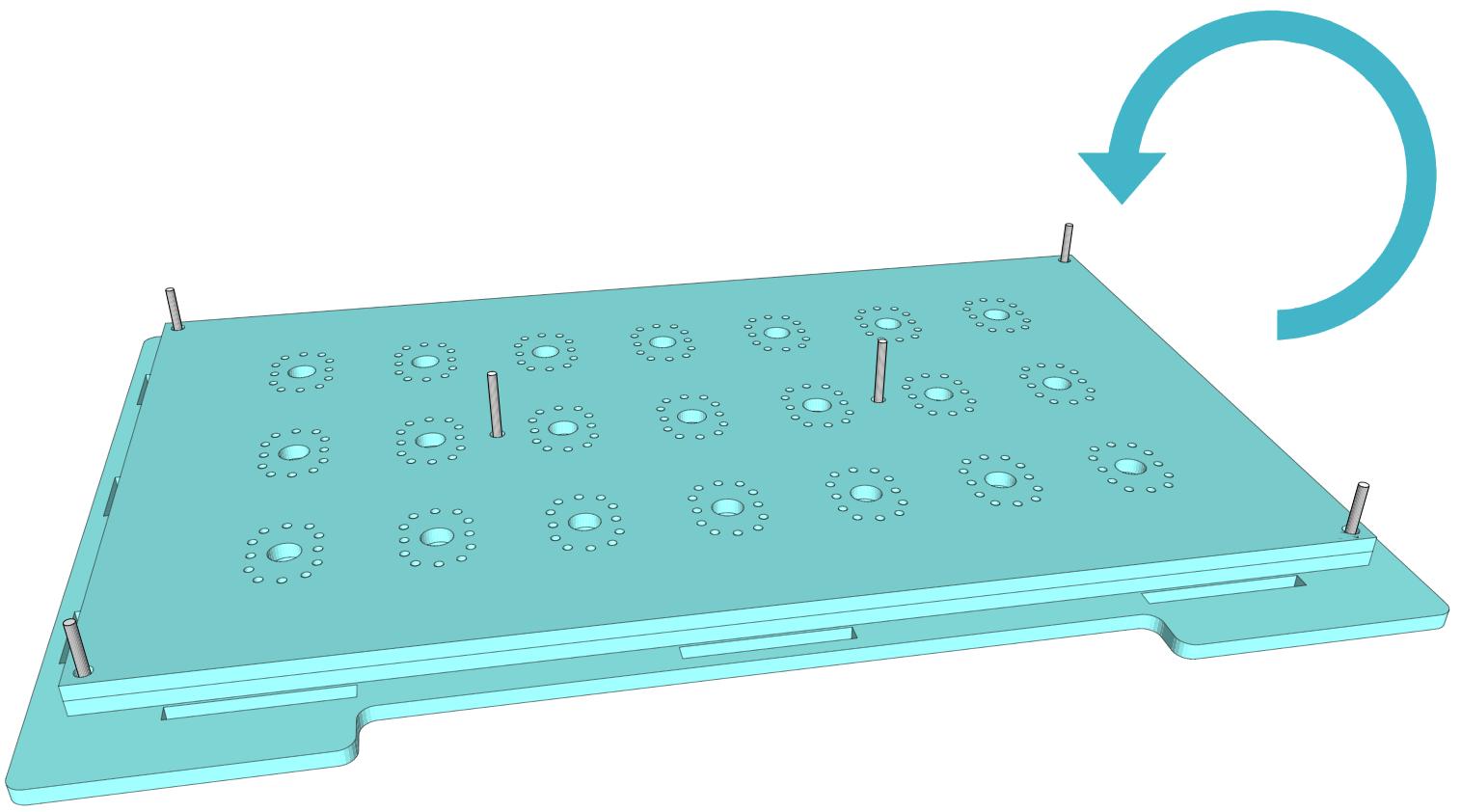


NOTE CHOOSE SIDE WALL FOR YOUR HOUSING
ARDUINO UNO FORM FACTOR OR ADAPTER FOR MICRO/NANO

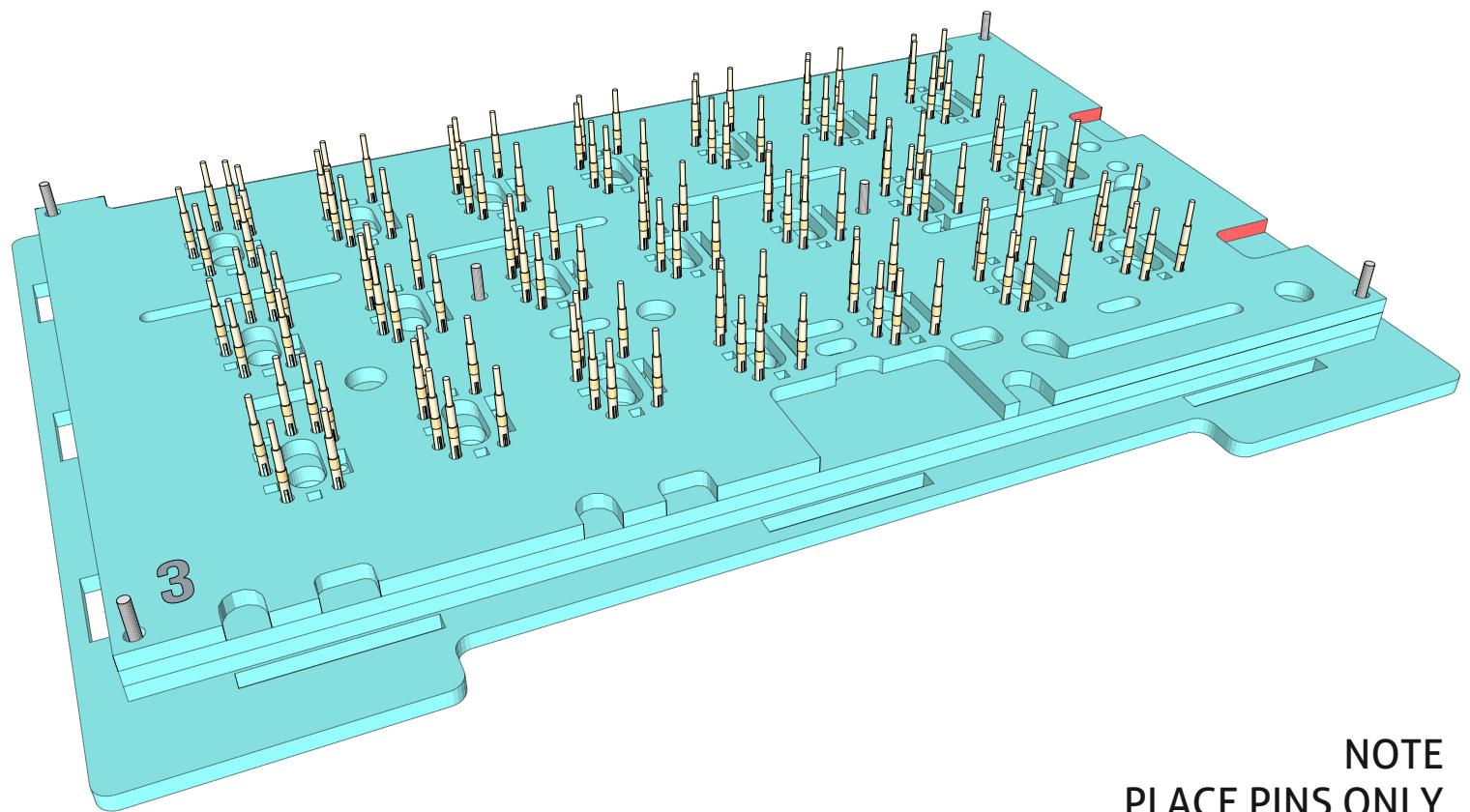
TUBES SOCKETS



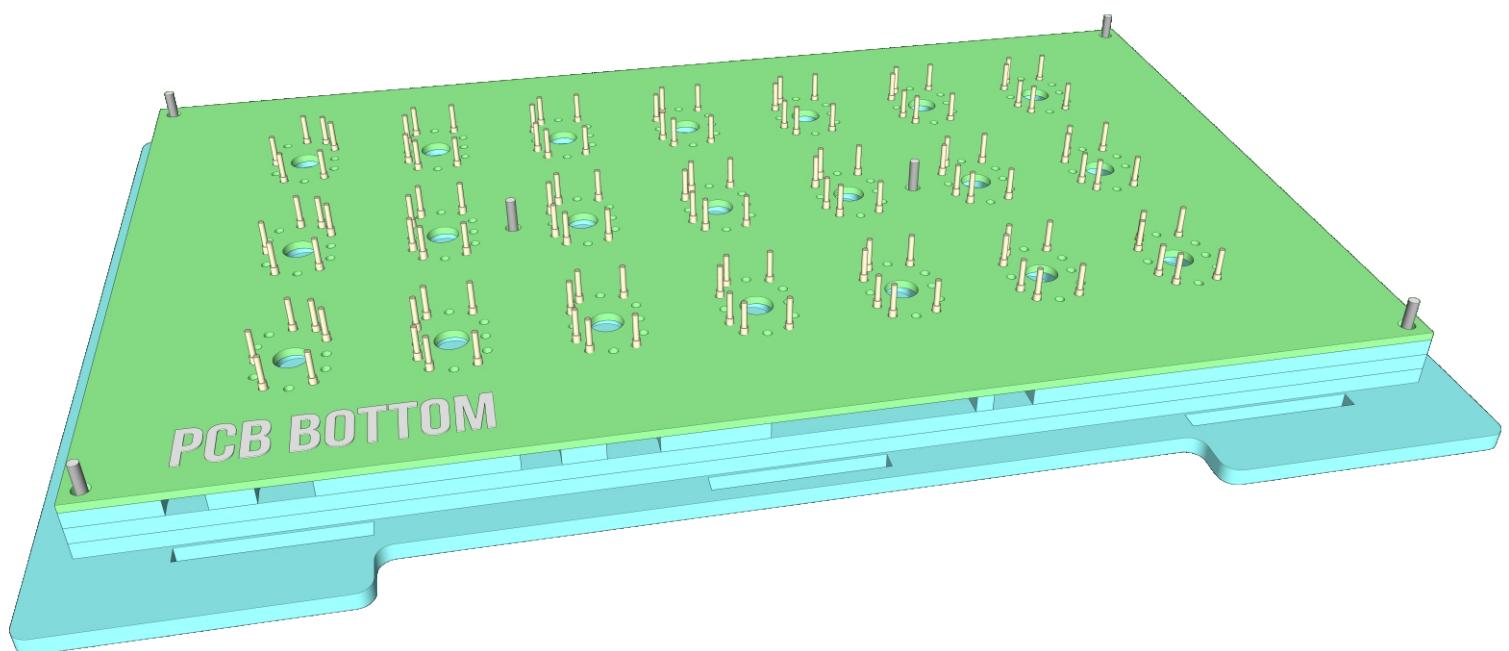


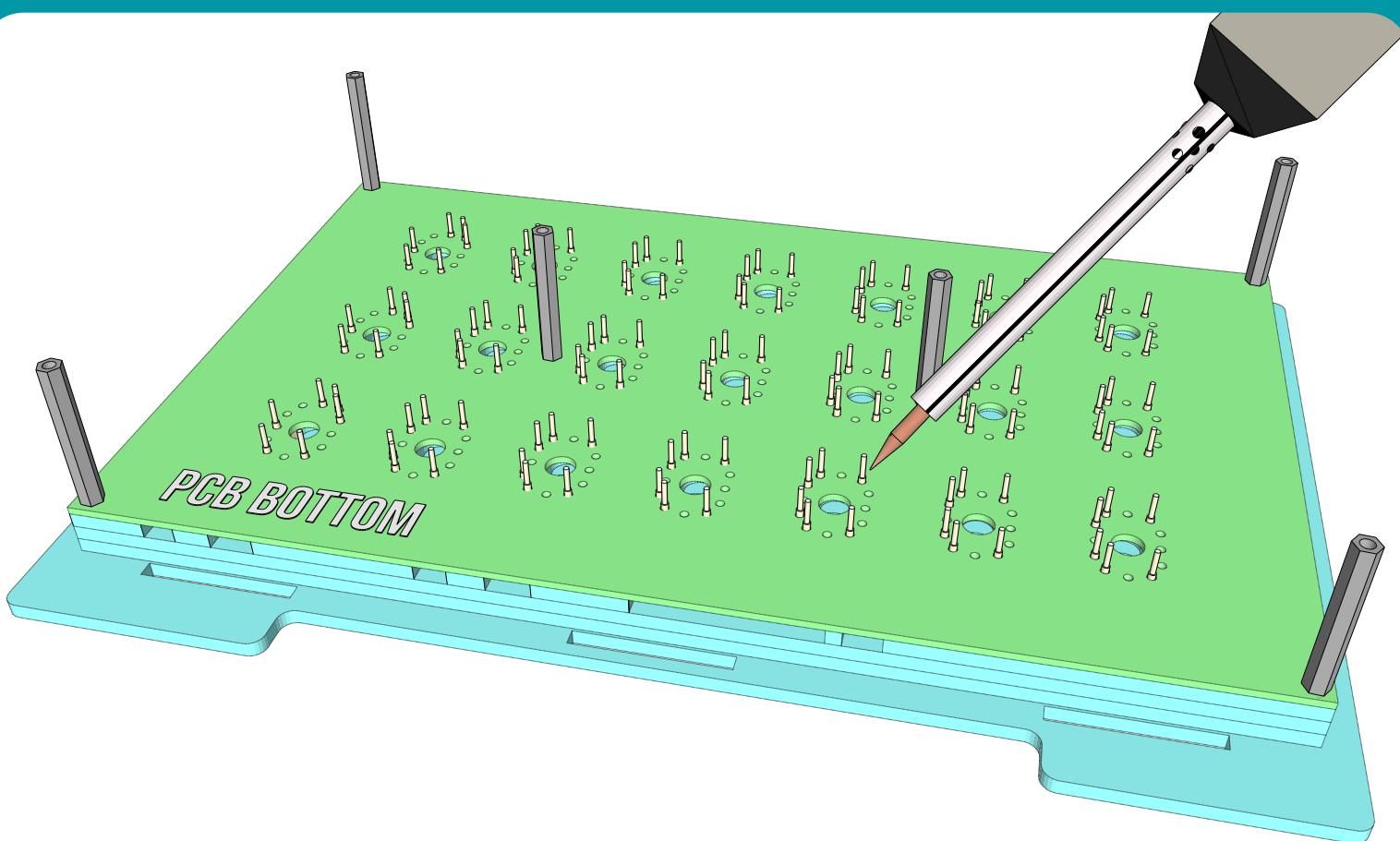
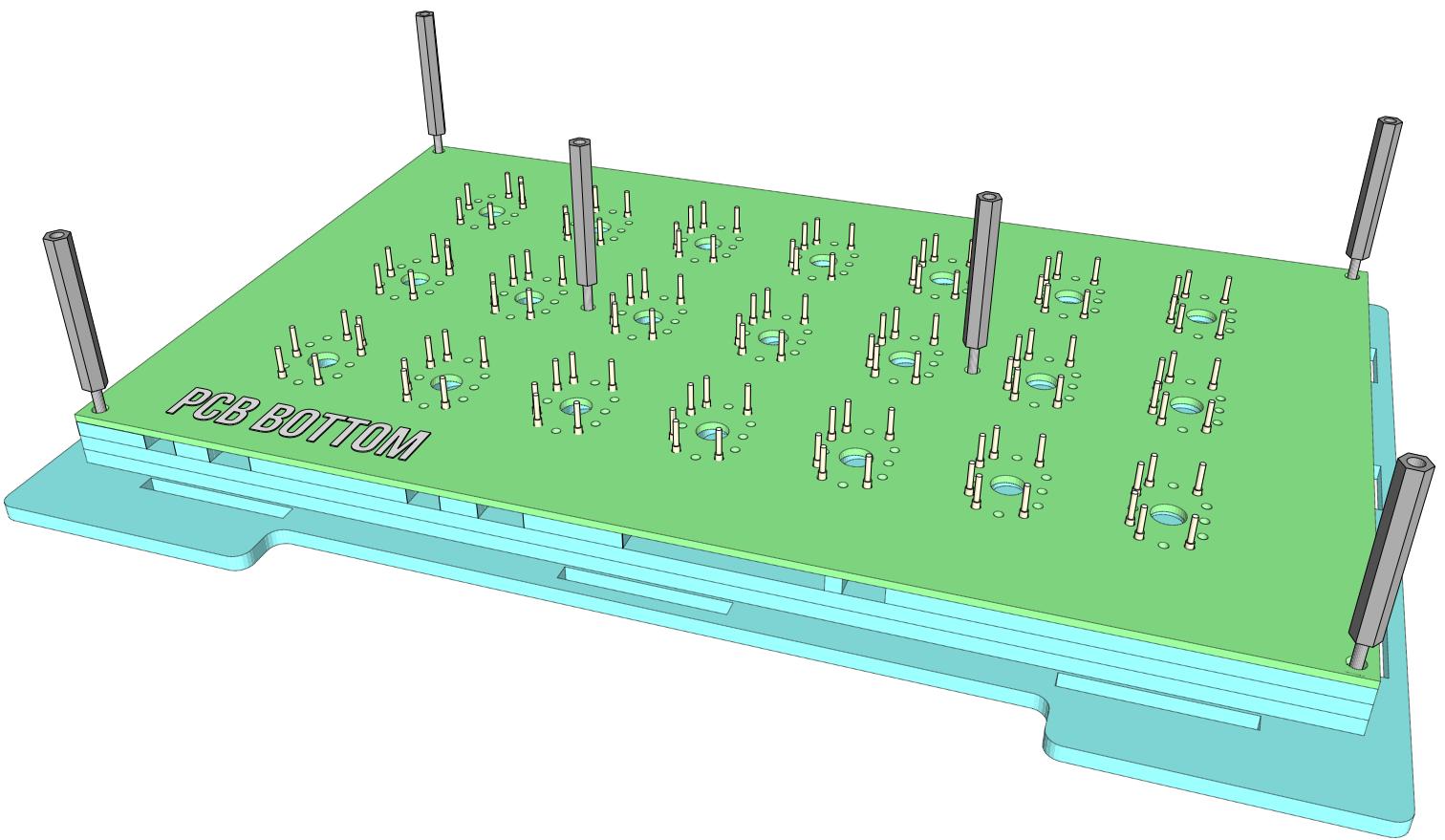


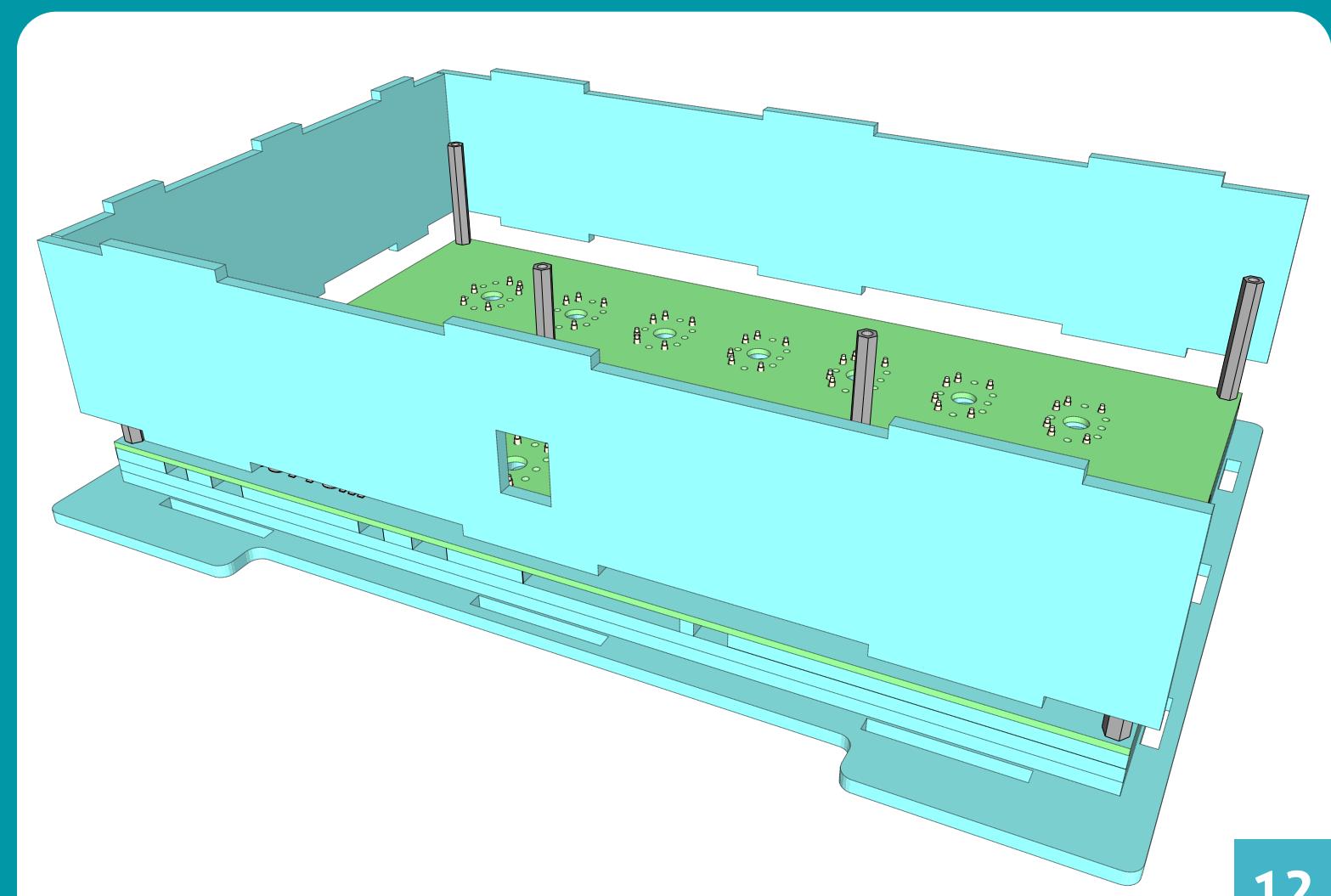
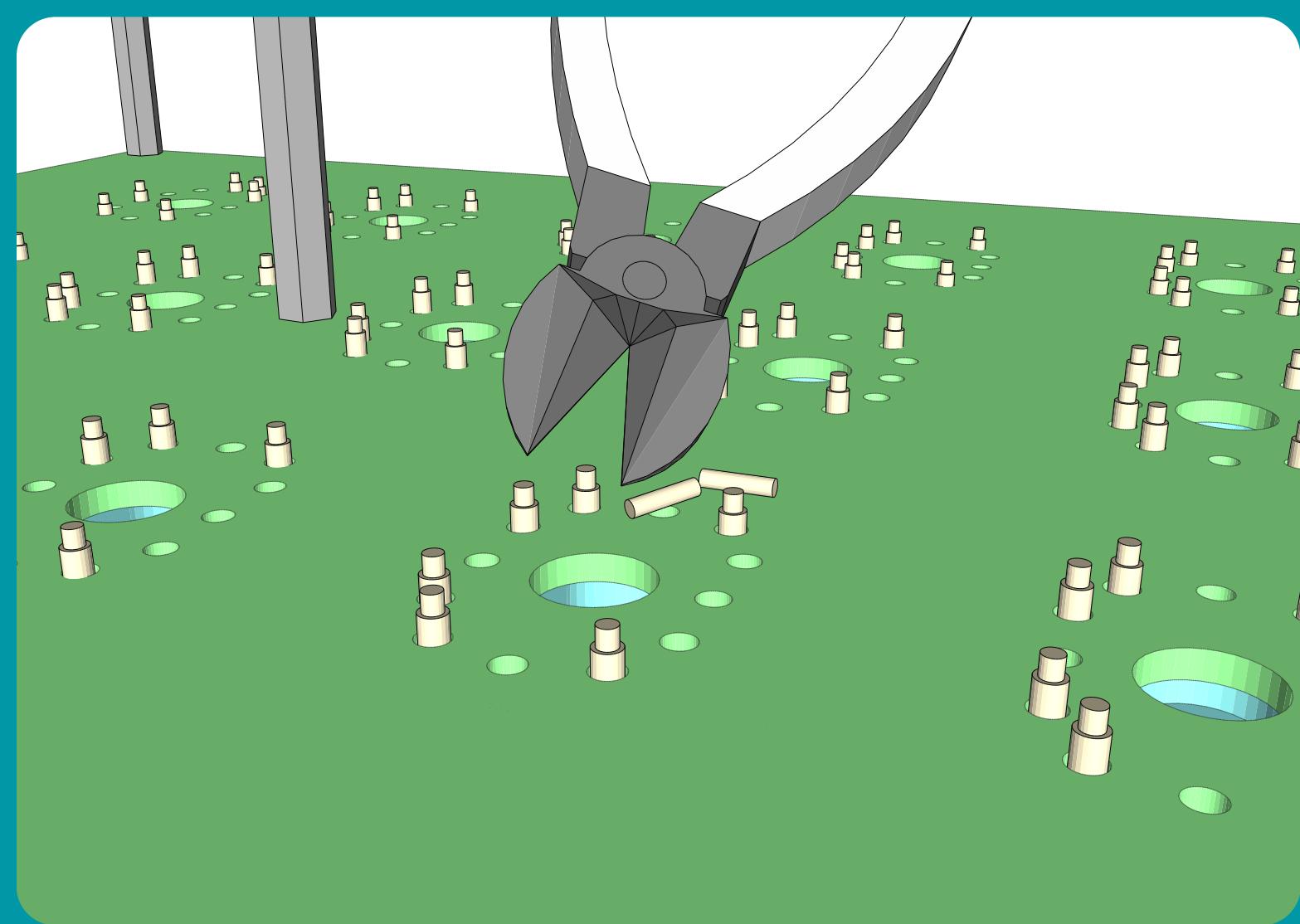
NOTE
**SLOTS MARKED IN RED
SHOULD BE ON THE RIGHT**

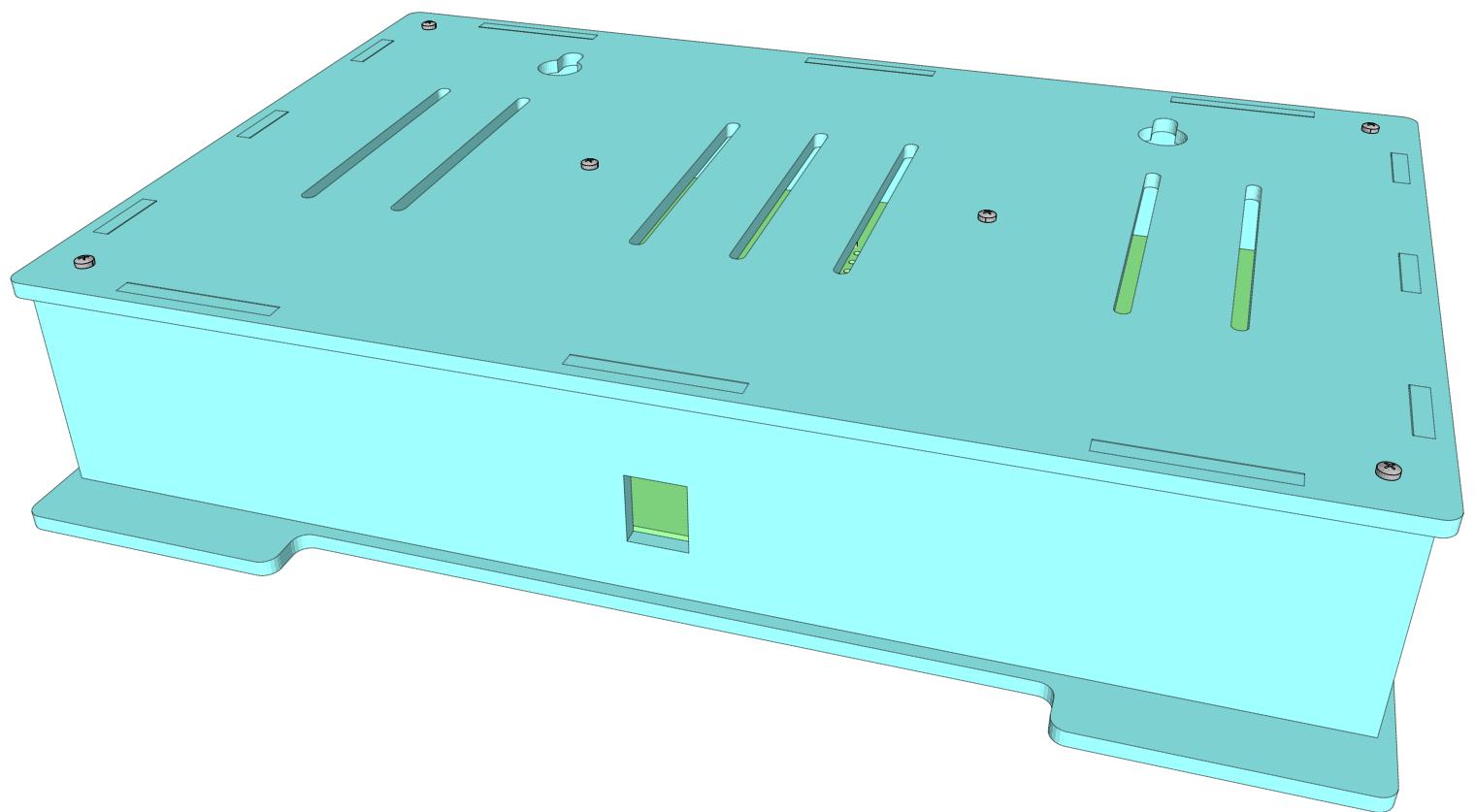
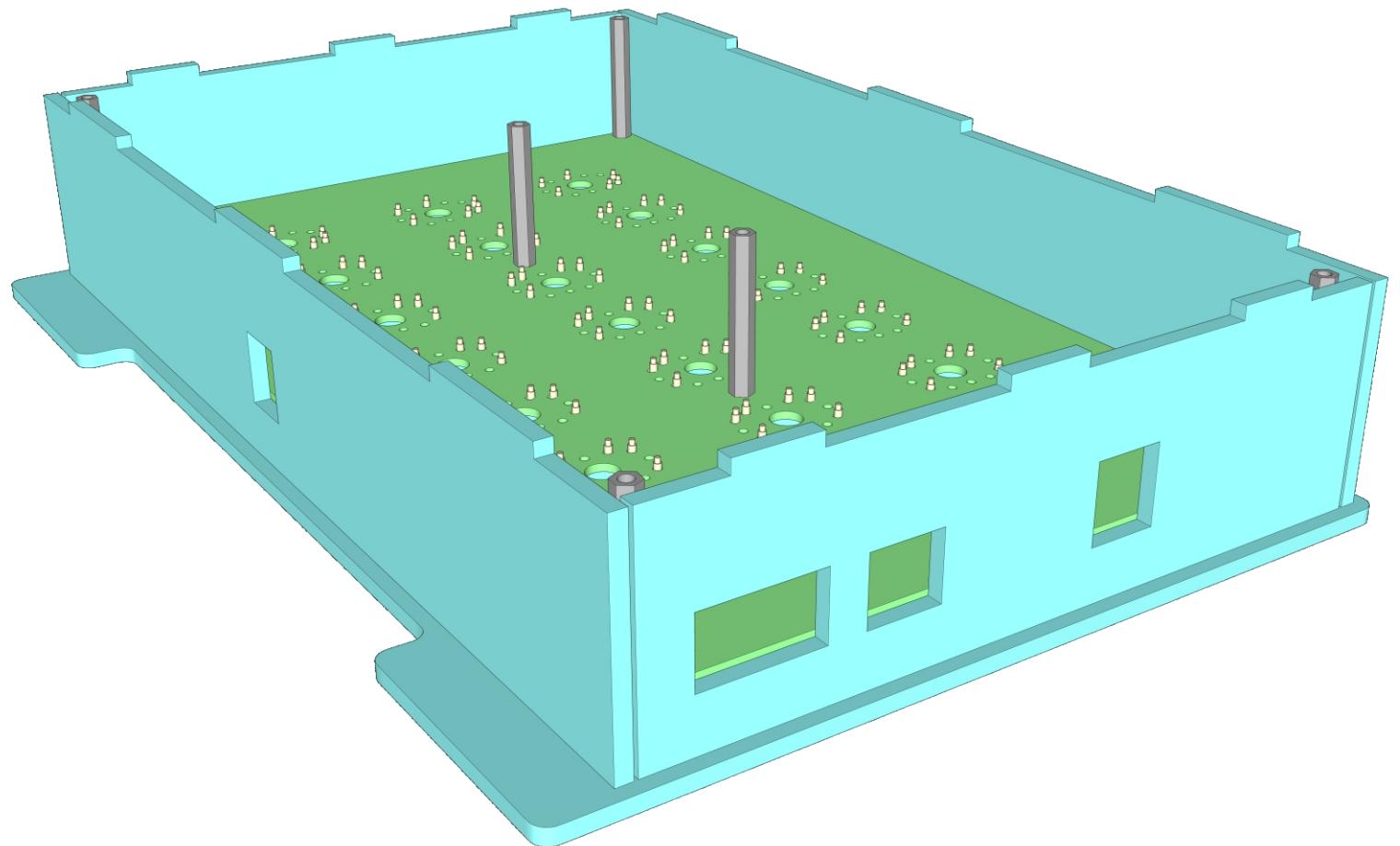


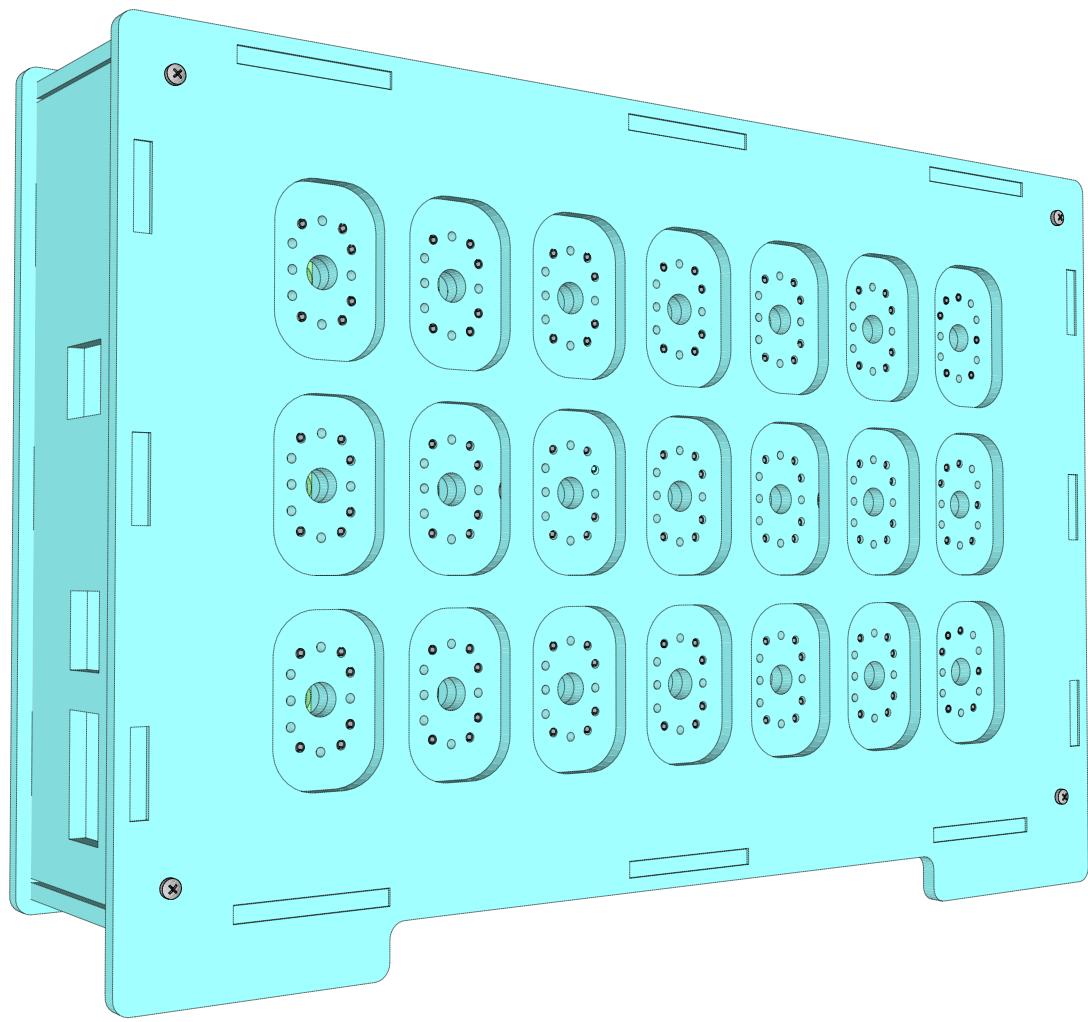
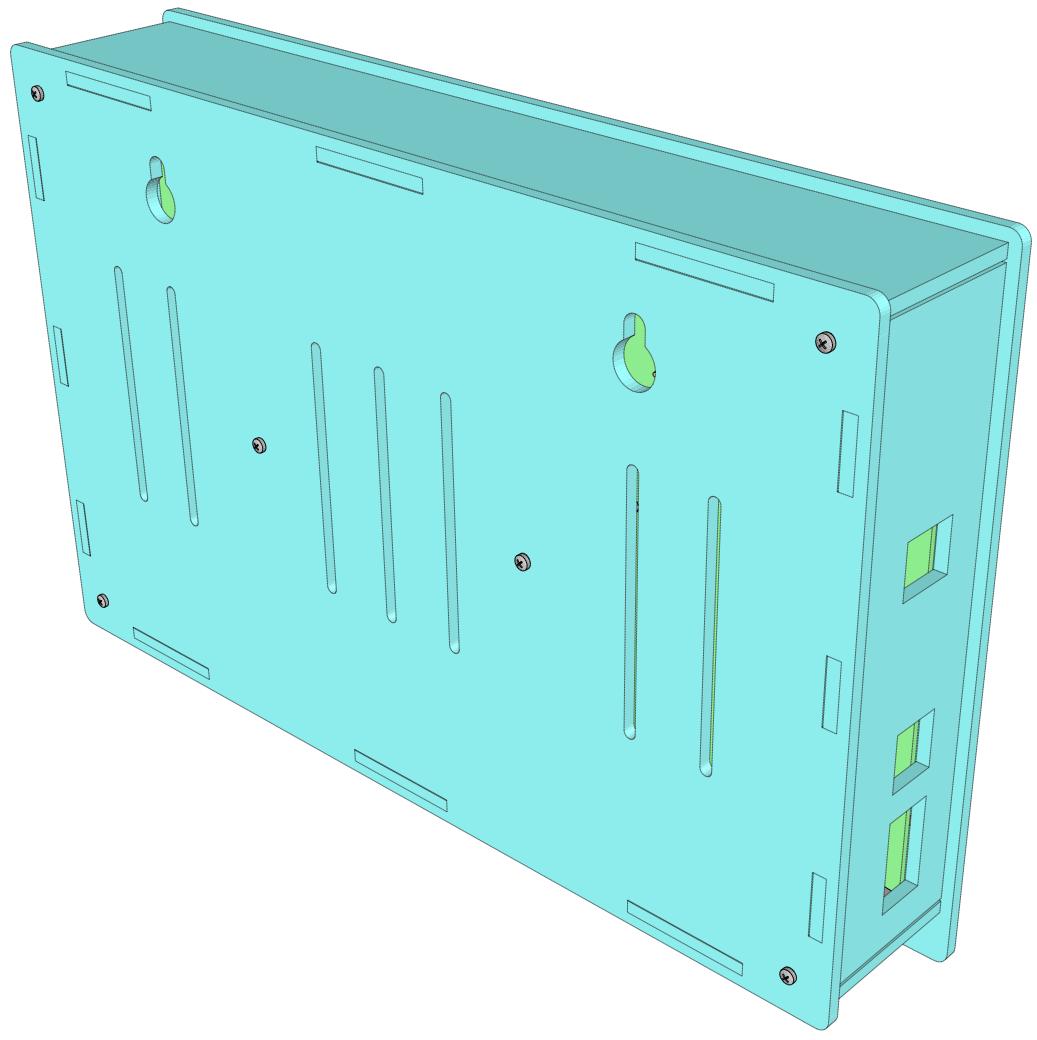
NOTE
PLACE PINS ONLY
IN THE ROUND HOLES





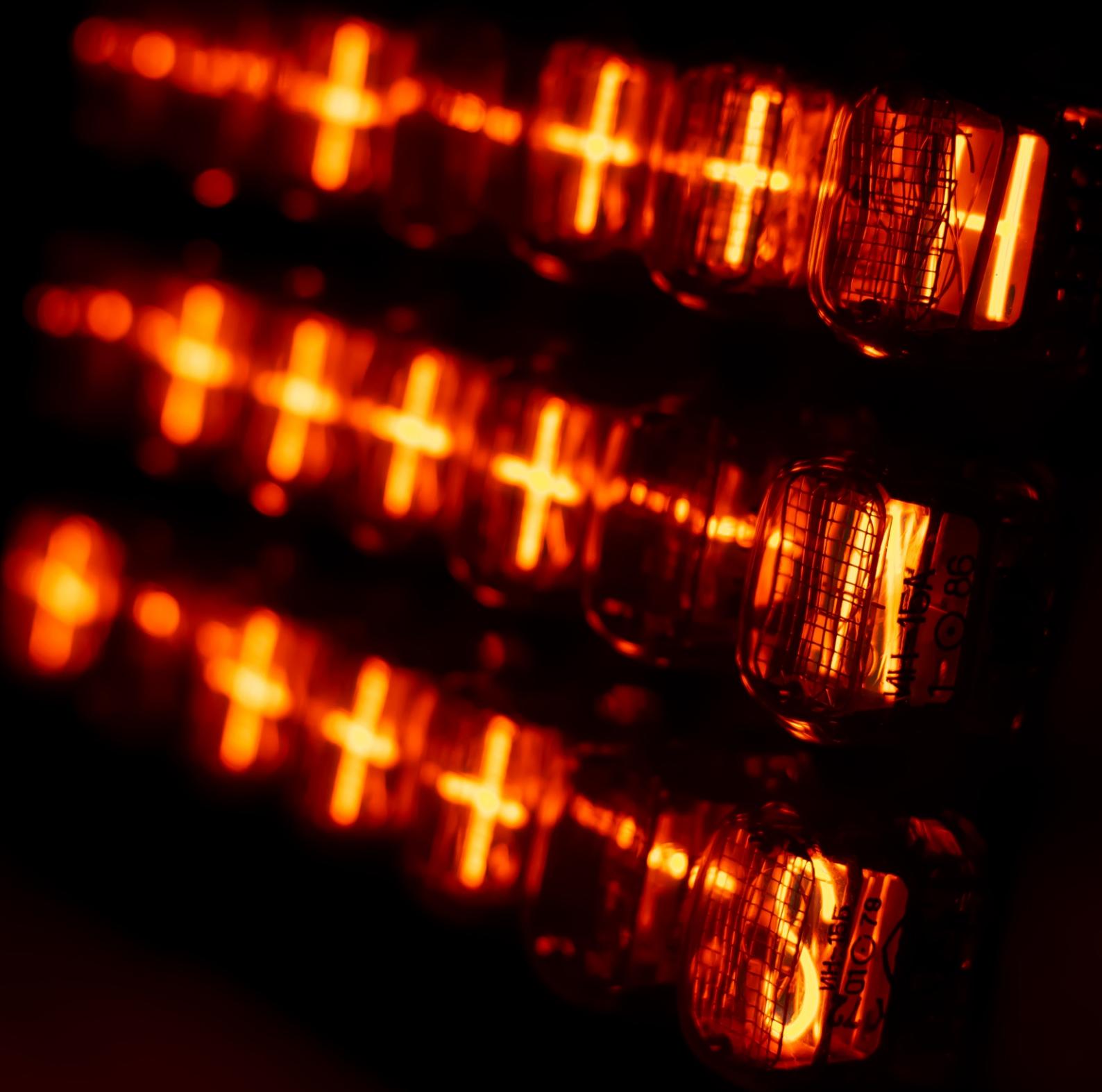






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