

Assembling the calculator – 7-seg LED - version

Note: the pictures are only intended for a better understanding of the instructions and may not correspond to the latest hardware revision.

Things you will need

- Assembled boards
- Keycaps
- Cables and connectors:

ID	Qty	Wires	Mode	Comment
SWITCH	1	2	straight	Mount connectors on both ends
KEYBOARD	1	5	straight	Mount connectors on both ends
DRIVER	1	6	straight	Mount connectors on both ends
P1	1	34	straight	Ribbon cable, mount connectors on both ends

⚠ Double-check the pin order and polarity of all connections before you power up the device.

- 3D printed case parts
- Additional parts:

ID	Qty	Description	Comment
1	6	Standoff, 10mm, female/male	
2	10	Standoff, 10mm, M3, female/female	
3	3	Standoff, 16mm, M3, female/female	
4	4	Pan head screw, 6mm, M3	
5	11	Pan head screw, 10mm, M3	
6	17	Screw, 6mm, M3	
7	10	Screw, 8mm, M3	
8	16	Square nut, M3, 5.5 x 5.5 x 1.8mm, DIN562	
9	1	Piece of transparent acrylic 203mm x 50mm x 3mm (red)	
10	6	Rubber foot	



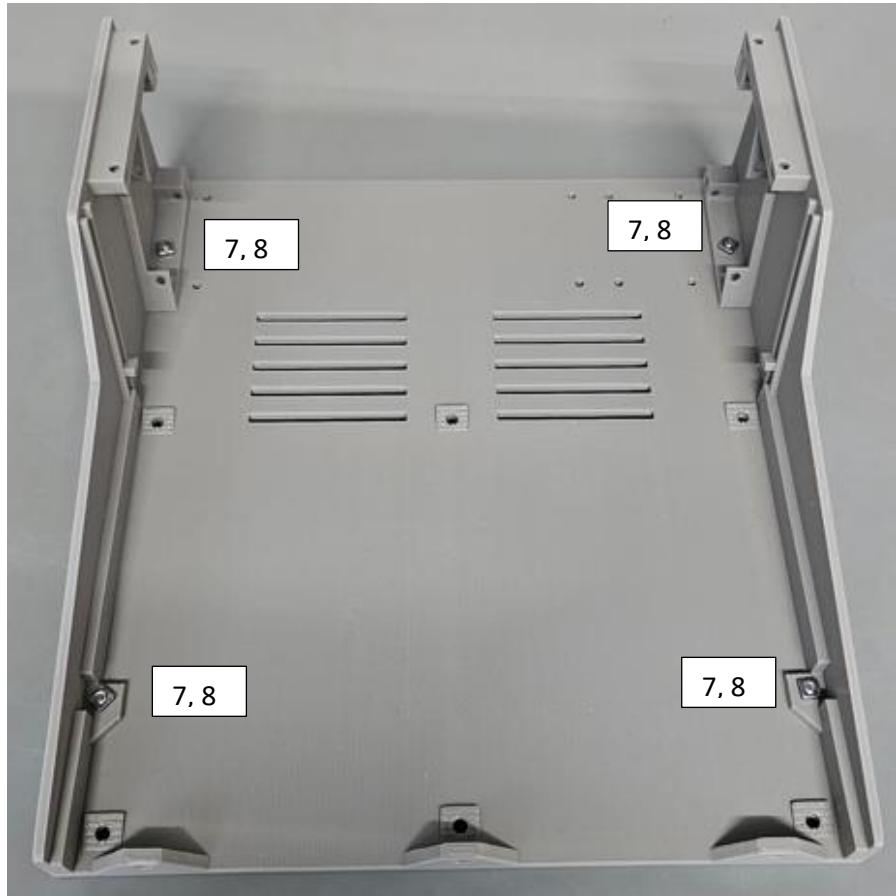
Assembly

⚠ Make sure you don't overtighten the screws.

Mount the keycaps



Install the side panels



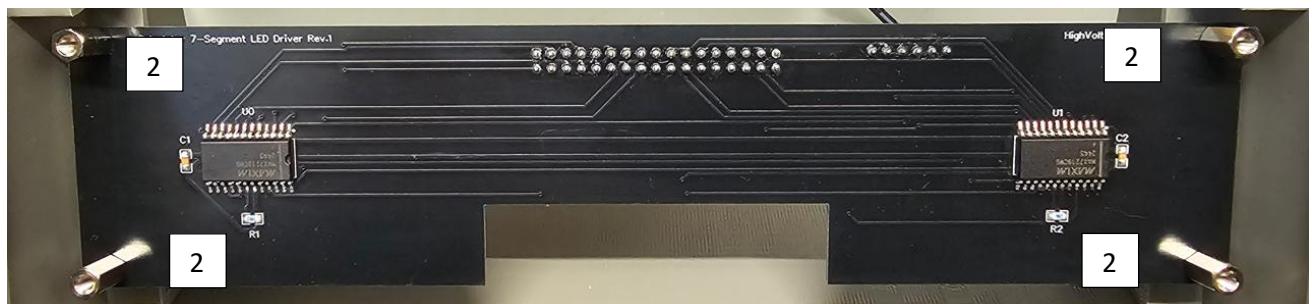
Place and secure two nuts in advanced



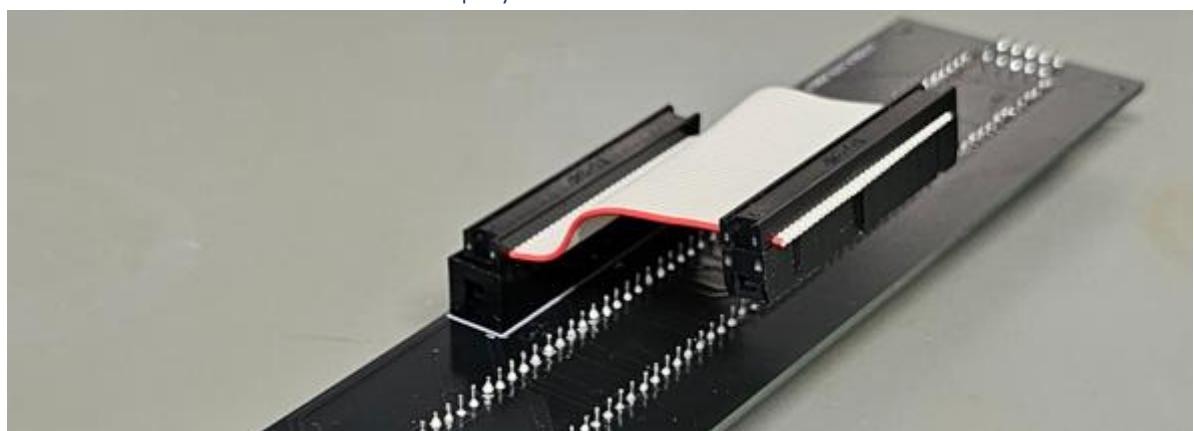
Install the spacers for the driver board



Mount the driver board



Connect the ribbon cable to the display board



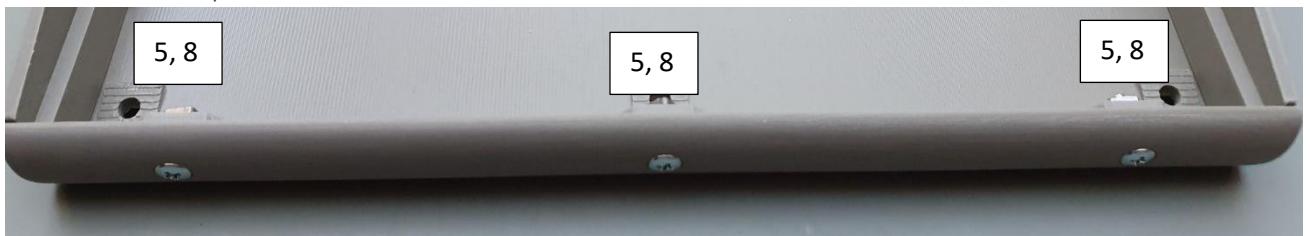
Install the display board



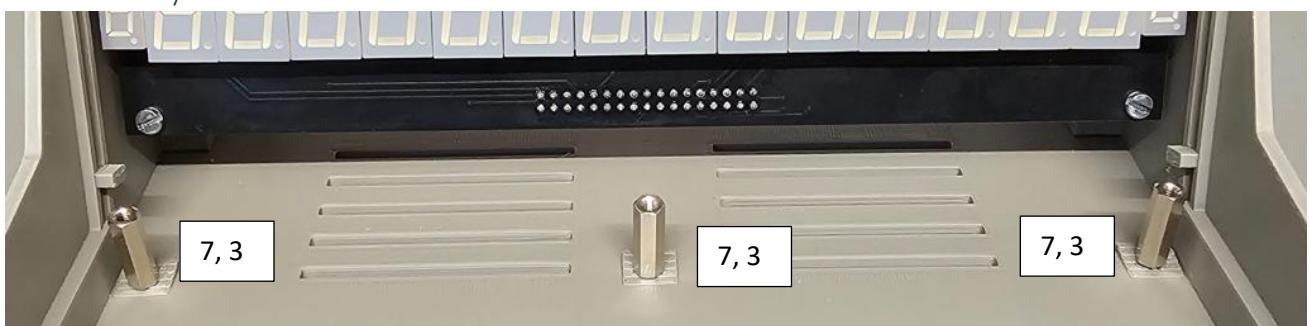
Connect the ribbon cable to the driver board



Install the front part



Install the keyboard standoffs



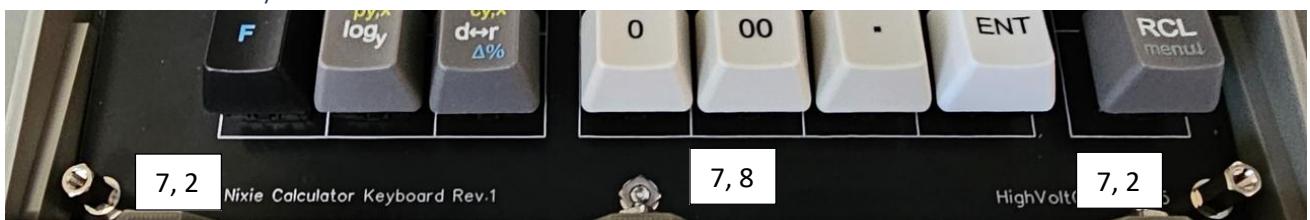
Connect cables to the keyboard



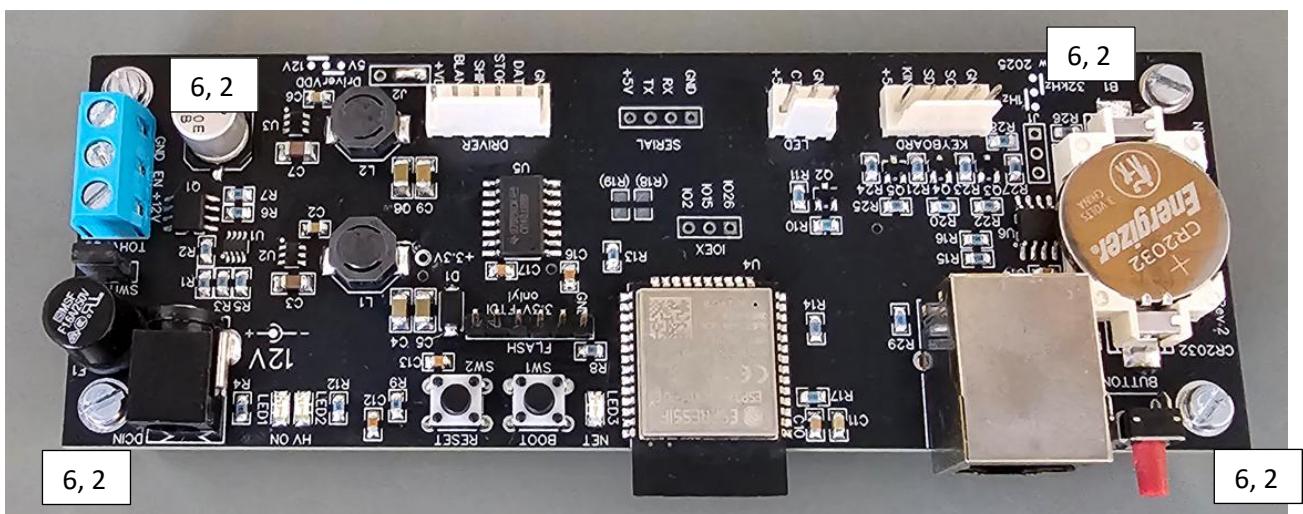
Secure the upper keyboard side



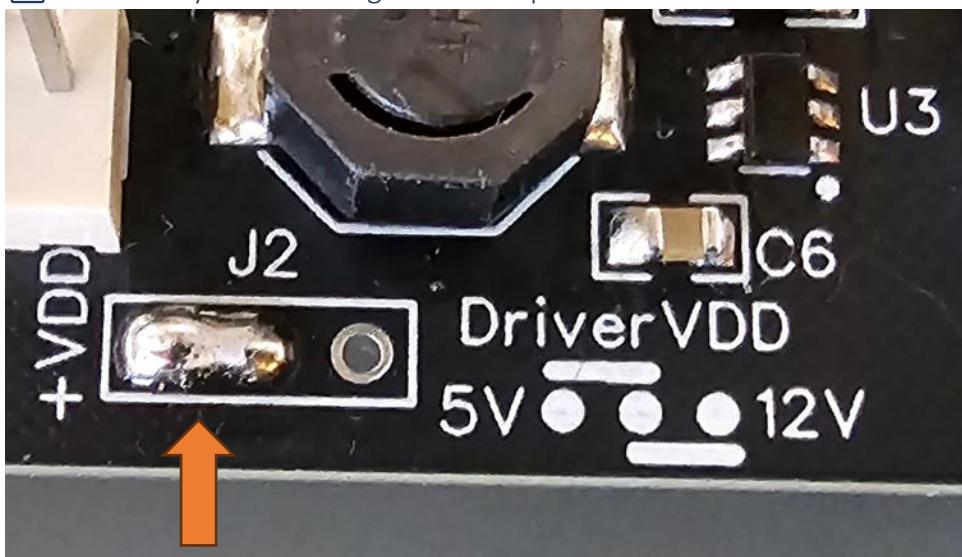
Secure the lower keyboard side



Install the controller standoffs



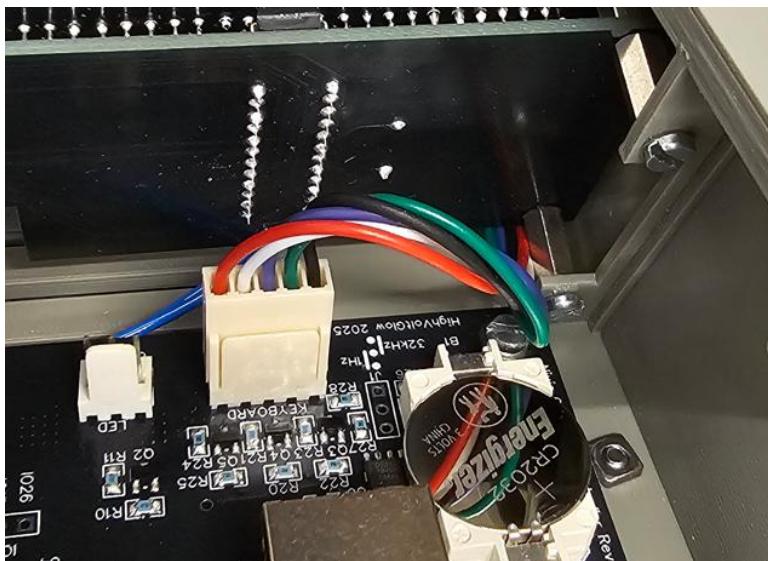
⚠️ Make sure you have bridged the 5V option for the driver



Secure the controller



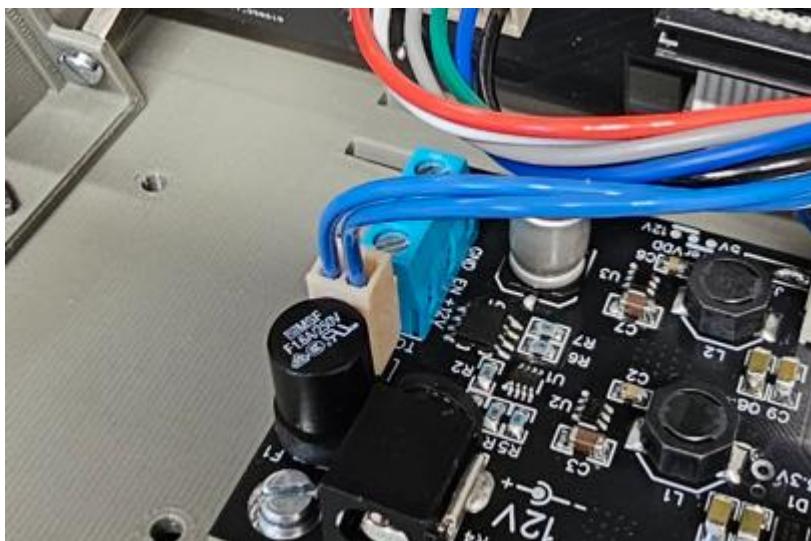
Connect the KEYBOARD cable to the controller



Connect the DRIVER cable from the driver board to the controller



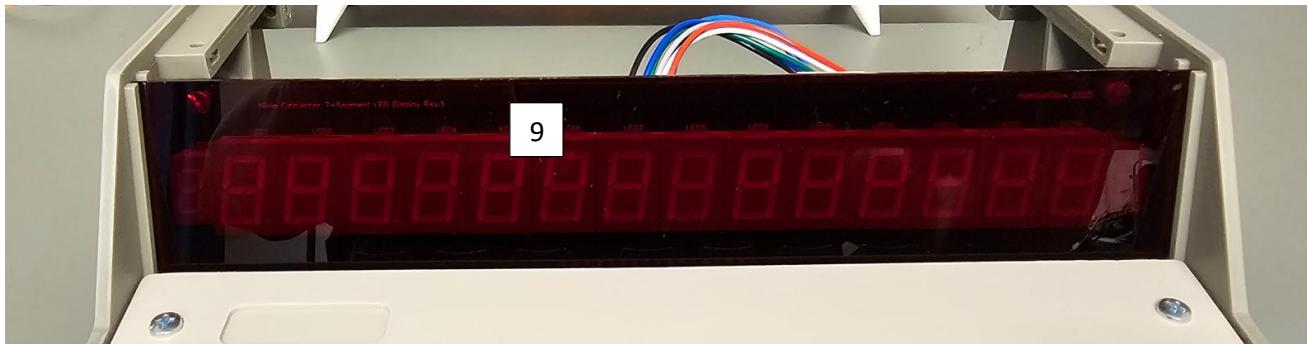
Connect the SWITCH cable to the controller



Install the keyboard shield



Insert the red acrylic panel



Install the back shield



Install the top shield



Glue the label



Place the rubber feet

