1/15/2025

Installation instruction manual for the
Universal Piston Stepper (UPS)
OLED Display & Bezel
By AOB INC
Version 4.2

Notice:

This installation requires technical skill in electronic wiring and voltmeter use. Contact us if you are in question about your level of skills.

PLEASE READ ALL INCLUDED MANUALS BEFORE YOU BEGIN THE INSTALLATION.

The Universal Piston Stepper (UPS) has static sensitive parts on it that can fail if handled incorrectly. Take preventative precautions during handling and installation. Once **completely wired** in a system the UPS is protected against static discharge to a reasonable level.

Because of the multitude of different systems in the world, we cannot test them all. There is a remote chance there may be a circumstance where our system is not compatible with what you have. Contact us and we will do our best to work things out. This includes having the UPS returned for a full refund.

OLED Display Installation

Suggested Tools and Supplies:

- Power drill
- Drill bits 1/16”, 7/64”, 5/16”
- #1 Phillips hand screwdriver
- Masking tape (preferably 3M green)
- Level
- Tape measure

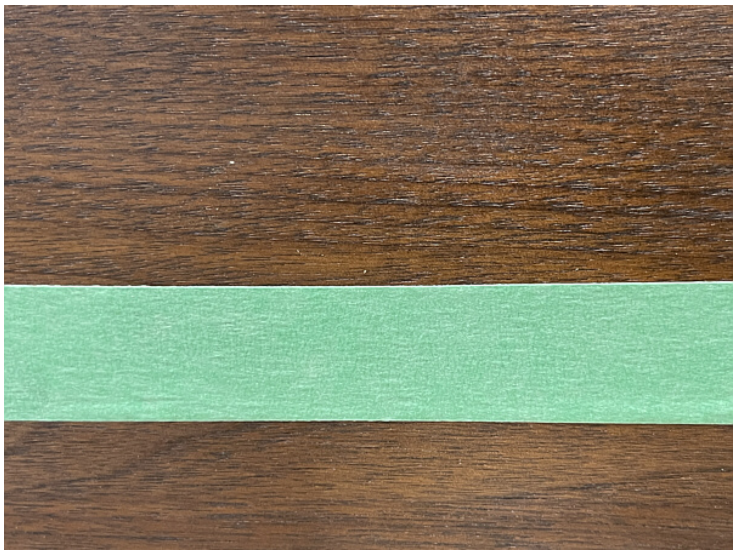
Preparation:

Decide on the location for the OLED display. Look out for visual impediments like a music rack or sheet music overhang. Anything that could be positioned in the direct sight of the display during use should be avoided. Consider the movement of items during maintenance such as stop rails or keyboards that can be raised and hit the display.

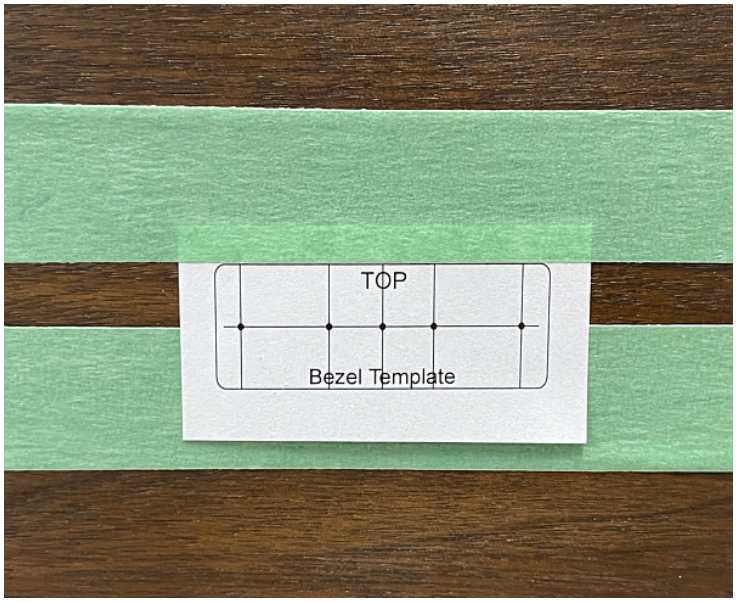
Once a location is chosen, review the backside of the location for anything that would be in the way of drilling and mounting the display.

Continue with the following instructions and photos.

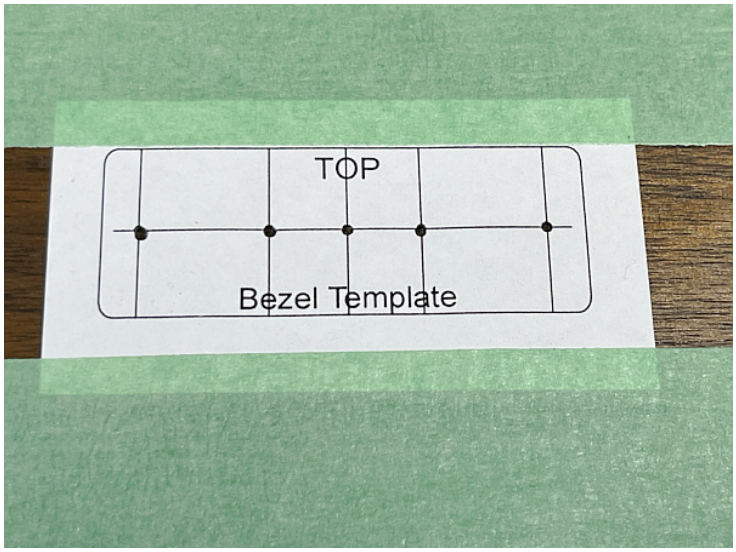
When the location has been finalized, Place the display template over the location and use masking tape to secure it. Use a level to make sure the template is level. The masking tape will allow simple adjustment of the template.



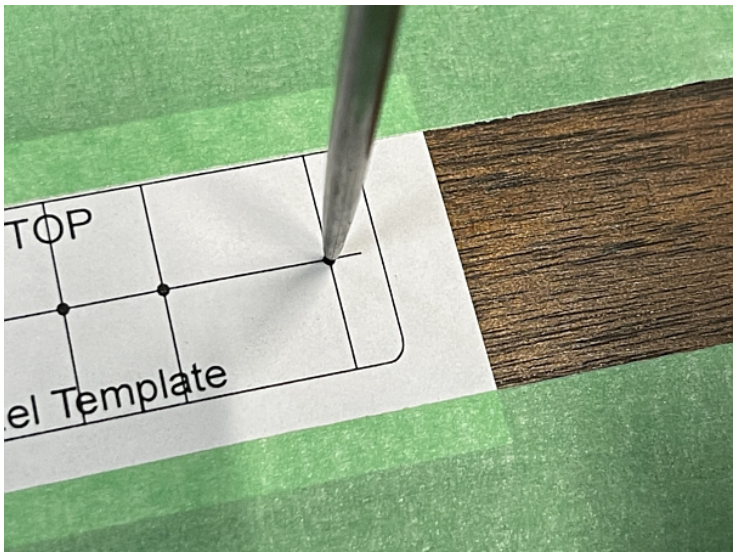
Tape the provided bezel template into position.



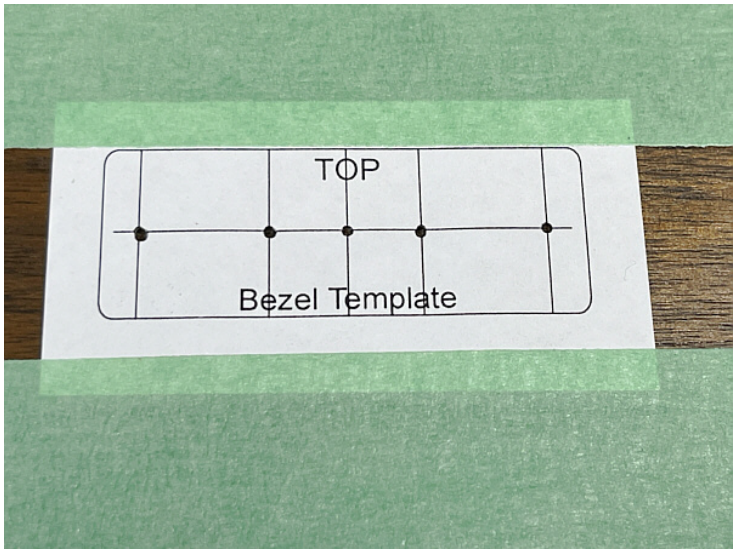
Finish securing the template with additional masking tape.



Use a pointed punch to press indentations into the wood through the template.



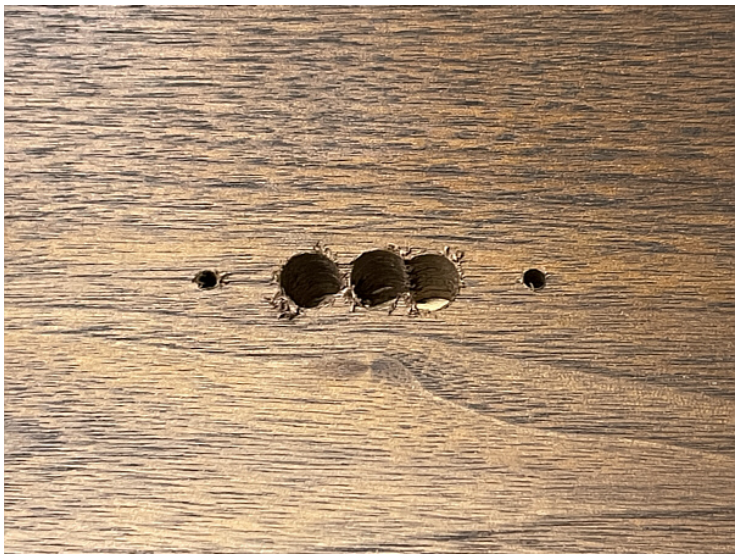
Five indentations have been made.



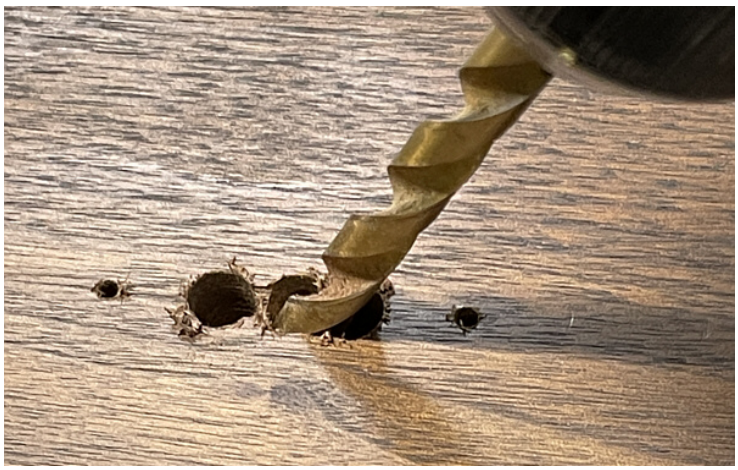
Remove the masking tape to reveal the indentations. Use a 1/16” drill to pilot completely through the wood.

Enlarge the 1/16” holes with a 7/32” drill. This will be the correct size for the bezel mounting screws.

Drill a 5/16” hole in the three center holes. This will be for passing the OLED display through the panel.

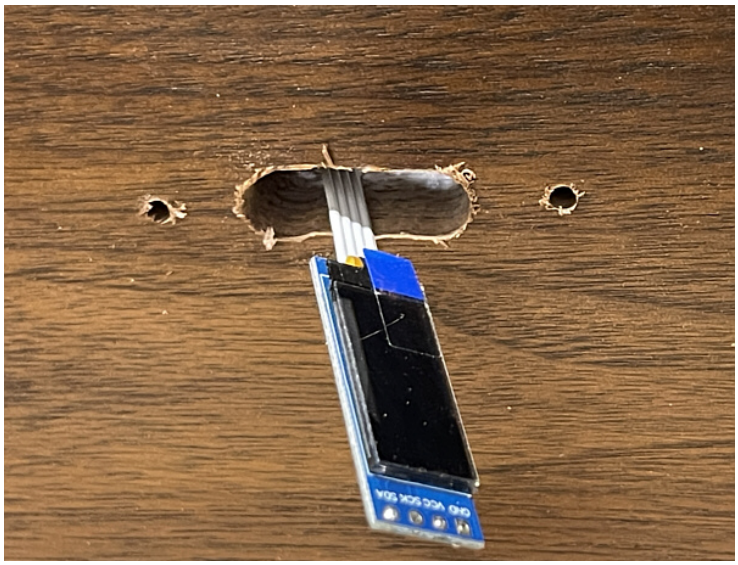


Enlarge the center holes by drilling at an angle in both directions to clear out the wood between the holes. Finish by moving the running drill bit back and forth.



Example of finished drilling to provide an opening for the display to pass through and the mounting screws to protrude through.

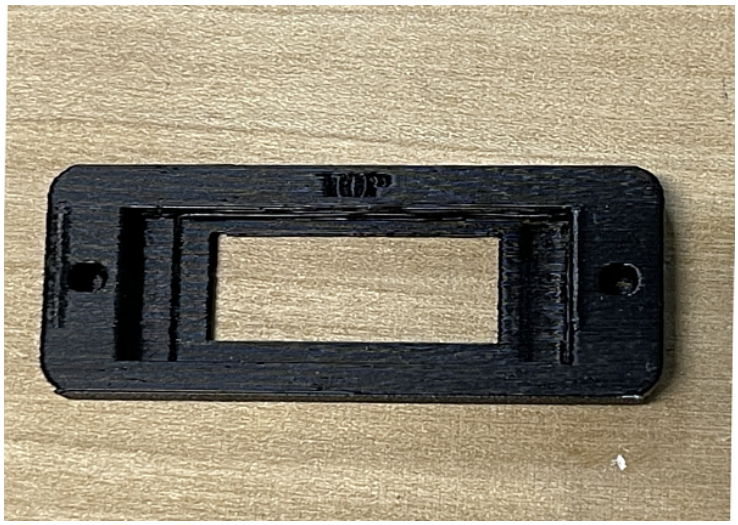
Example of how the display passes through the panel.



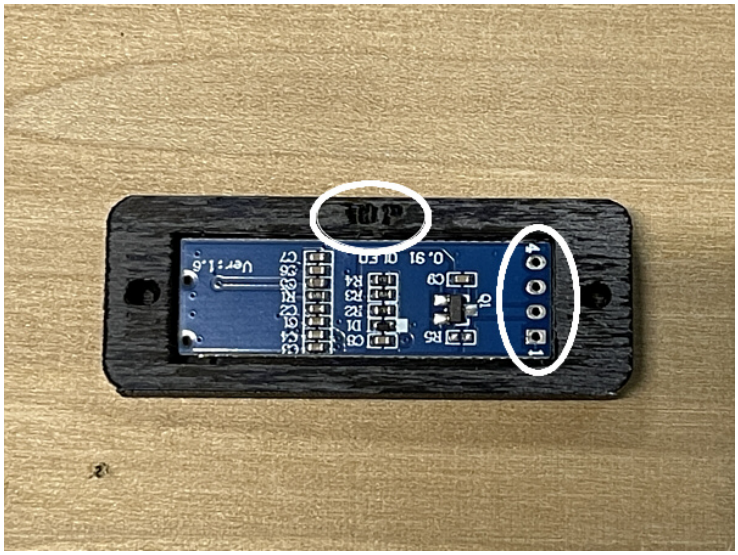
Insert the bezel mounting screws and tighten them with a power driver until they spin in the holes.

Markings left by spinning the screws into the holes.

Back of the display bezel without the display.



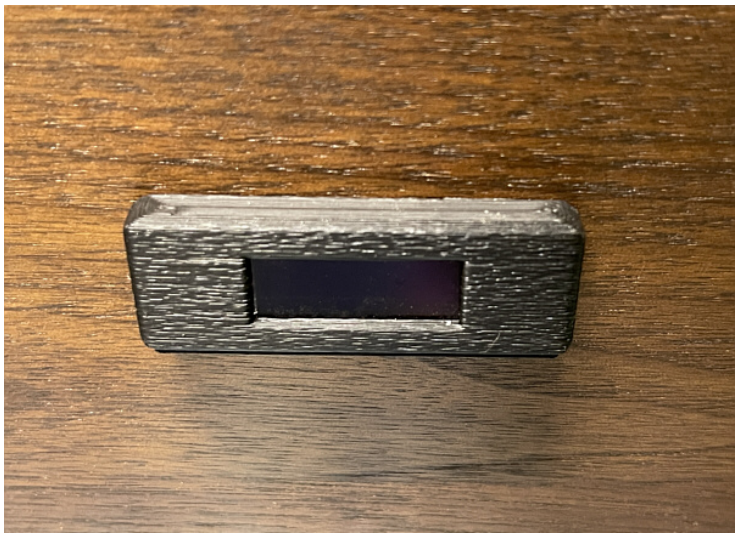
Place the OLED display into the back of the display. Notice bezel has “TOP” imprinted into it. The OLED display has wiring at its edge. (Shown by white circles.) This is how it should look when you are done. (Connection cable not shown for clarity.)



Discover what length #4 sheet metal screws are needed to complete pass through the panel by no more than 3/16”. If screws are to long, use washer under the screw heads.

With a #1 hand philips screwdriver, use the screws to pre-tap the mounting holes in the bezel. Place a finger over the area directly in front of the screws path on the bezel front. When the screw bottoms out, it can usually be felt through the plastic. (Another mounting option is to drill completely through the bezel and use a nice-looking screw from the front. This is if you do happen to break through. Or call us for a replacement display.)

Mounted display bezel with display behind it.



End of this manual.