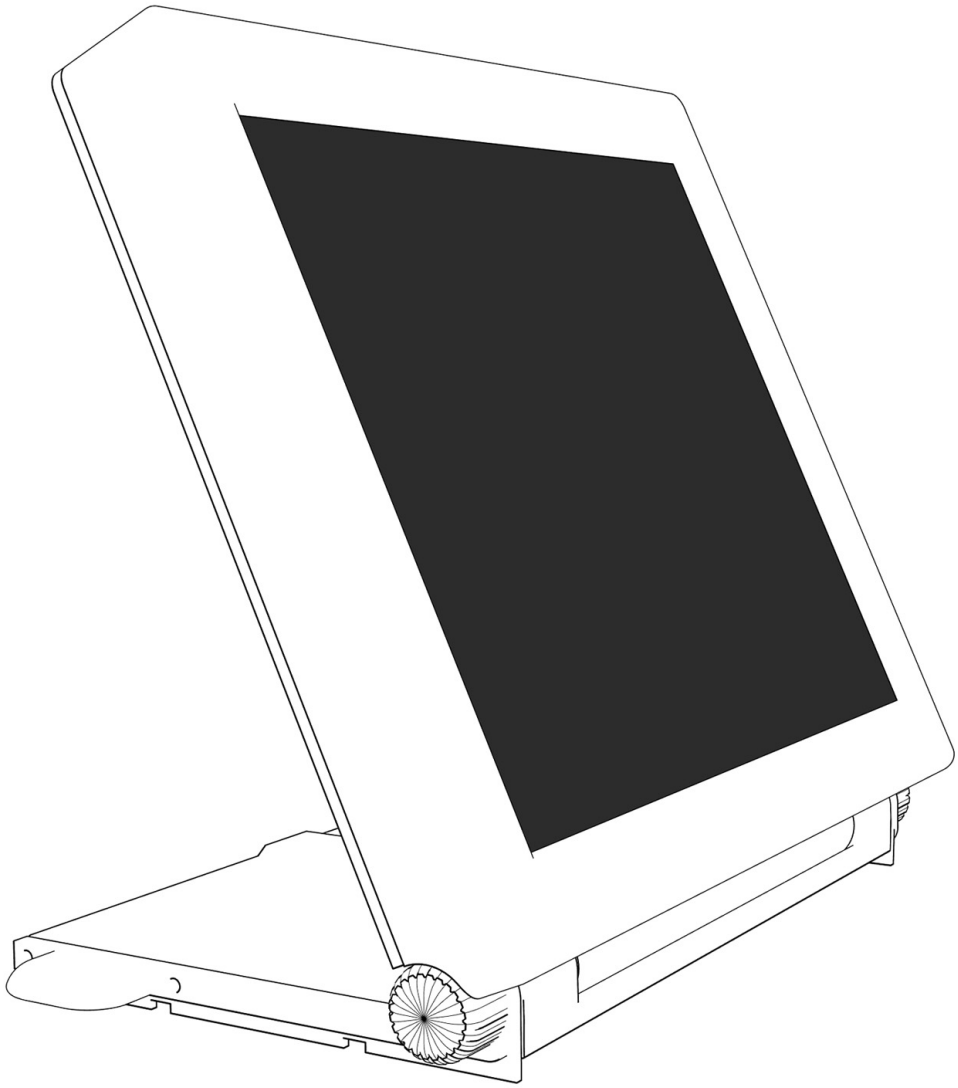
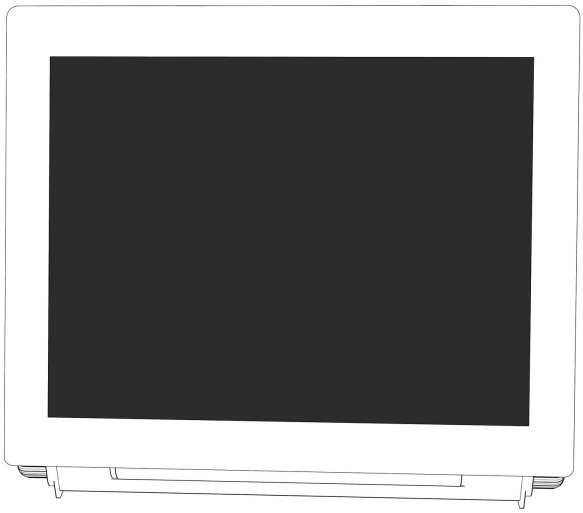
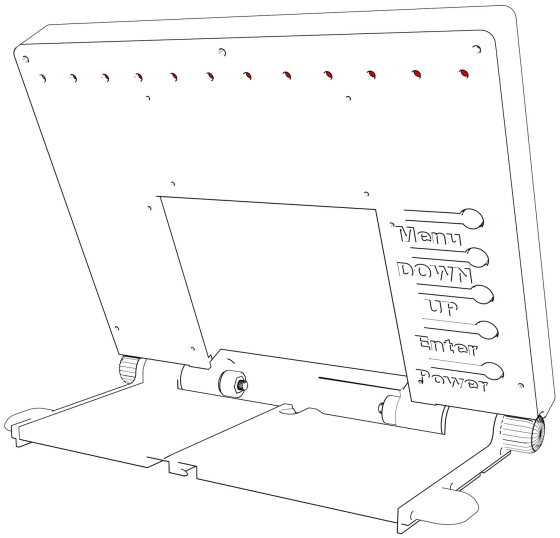
Apple IIc LCD Panel with iPad Screen







This mod is based on a design by ArjenCNX from ThinkerDifferent.com which utilized an Ayoyo 8” LCD panel and controller.
https://tinkerdifferent.com/threads/custom-usb-c-powered-8-display-for-the-apple-iic-with-stl-files-and-build-plan.4768/

Parts used:

- 9.7” iPad screen salvaged from iPad 1 (red), 2 (green), or 3 (blue)
- LCD controller board (purchased from various locations)
- 6x super tiny wood screws to hold the iPad screen (M1 3mm??)
- 13x small wood screws to hold electronics to the back panel (M2 6mm??)
- 2x 10-32 3” machine screw (can substitute M5x0.8 70-75mm)
- 2x 10-32 nuts
- 2x M5 nuts
- 2x M2 melt-in inserts
- 3x M3 melt-in inserts
- 9x M3 10mm cap screws
- 2x M2 10mm cap screws
- PLA Filament of appropriate color (Retro Platinum)

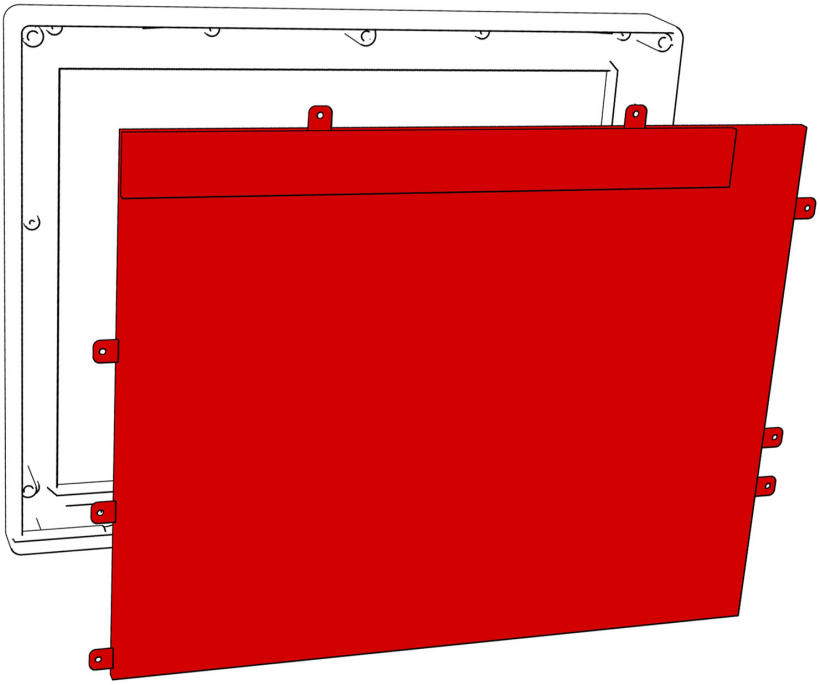
3D Printing:

I printed on a Creality CR10 with 400x400mm plate size using an 0.8mm nozzle and 0.28 layer height. I printed most parts face down to utilize the smooth bed and reduce support material waste. A lower layer height will increase print time and final quality of parts. Remove supports and plate adhesion brims if necessary after printing.

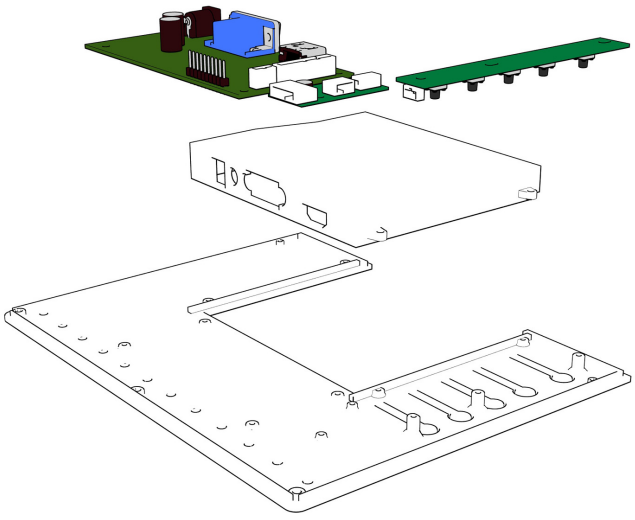
- Base
- Base side panels (left and right)
- Front Bezel
- Bezel back panel
- IO panel
- Hinge pins 2x
- Washers 2x
- Knobs 2x
- Knob caps 2x

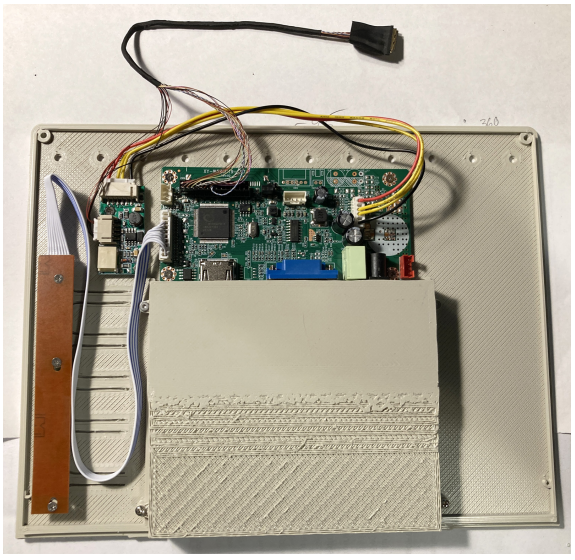
Assembly:

M2 and M3 inserts should be installed into the Front Bezel mount holes (2x M2 near the hinge, 3x M3 along the top). Install the iPad panel with tiny wood screws (iPad 1 will have 8 mount points but there are only 6 mount supports on this model).

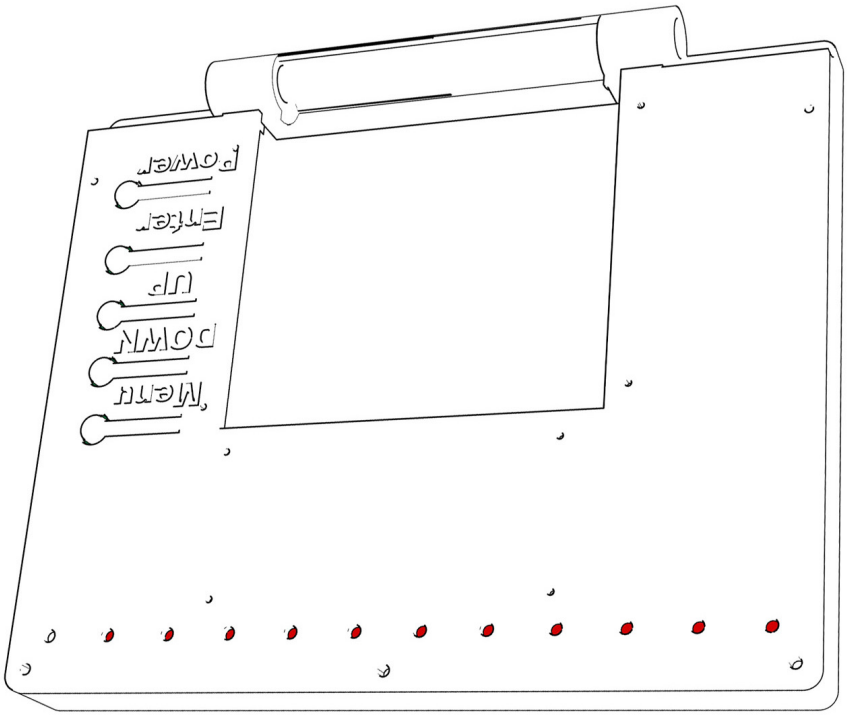


Attach the IO panel to the inside of the back panel with 4 screws. Attach the main LCD driver board with 4 screws. Attach the LED driver with 2 screws. Attach the controller board with 3 screws.

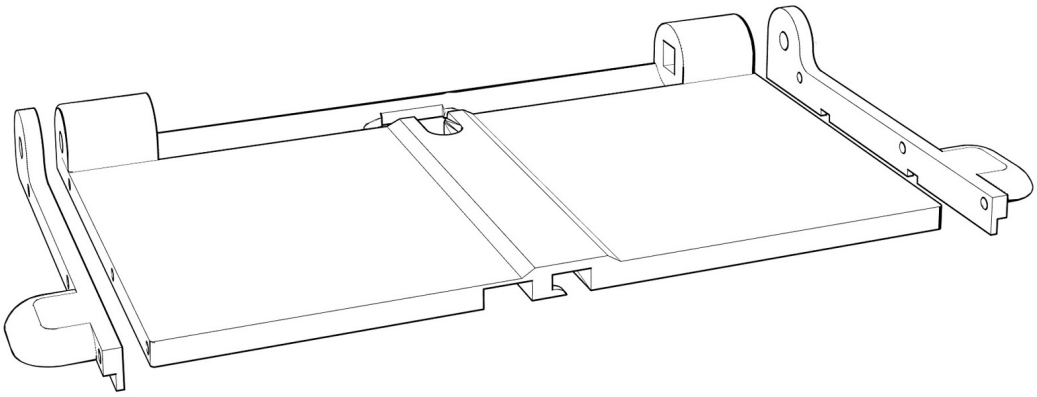




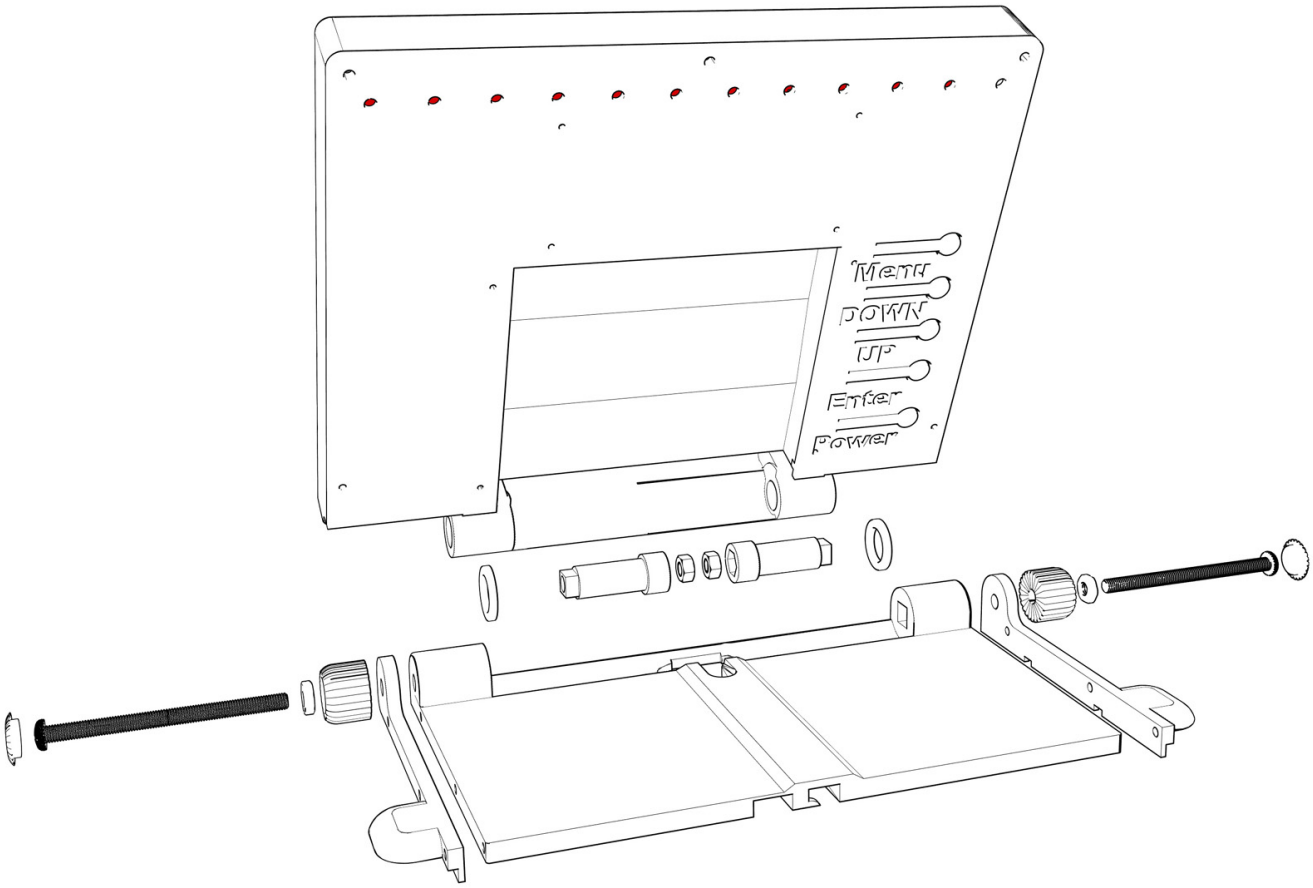
Attach the LCD IPX connector from the controller board to the iPad LCD, then close the back panel and secure with 5 screws (3x M3 along the top and 2x M2 near the hinge).



Attach two side panels to base using 6x M3 screws.



Insert a 10-32 nut into the knob ends, heat/melt may be required. Insert a 10-32 (or M5) screw into the knob end and tighten against the nut. Install the knob cap. Insert an M5 nut into the hinge pin ends, heat/melt may be required. Connect the bezel to the base at the hinge, and insert washers between the hinge points. Then insert the hinge pins from the inside outwards. The square pegs should engage the square holes in the base. Insert the knob assembly into the hinge and tighten to desire.



This completes assembly for iPad 1 LCD models.

Additional notes for iPad 2 and iPad 3 screens.