Altair-Duino 8800b Addendum

Please read this addendum completely before starting construction.

The 8800b kit has a few differences with the original 8800 kit:

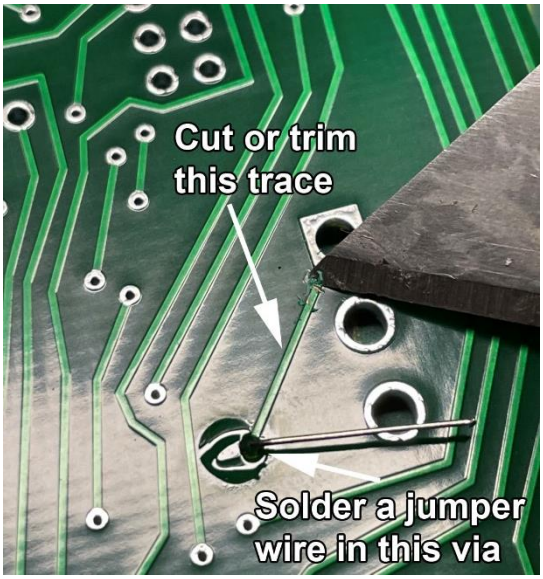
- 4 x 12mm black nylon standoffs (instead of 15mm standoffs)
- Flat toggle switches (instead of round toggle switches)
- Power switch is installed with On in the up position
- LEDs are installed behind the faceplate instead of protruding through holes

Follow the instructions in the included manual, but insert the following steps at the appropriate places.

You must trim or cut a trace on the PC board to reverse the power switch (the original 8800 had ON in the down position.)

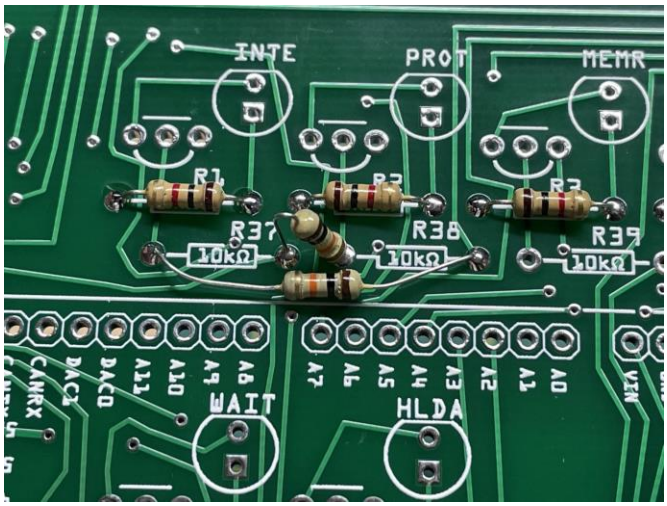
Looking at the reverse (bottom) side of the PC board, the power switch location is at the lower right. There is a trace going from a via diagonally to the hole for the top lug of the power switch. You must cut, or peel away that trace.

Then solder a small jumper into that via. I find the leg trimmed from a resistor fits nicely. Leave the other side of the jumper unsoldered. You will solder it later when you install the toggle switches.



When you are putting the 10kΩ resistors in place, you will need to reverse the signals coming to the INTE and PROT LEDs. They are reversed on the 8800b. This is easy to do. Place resistors R37 and R38 as indicated in the photo.

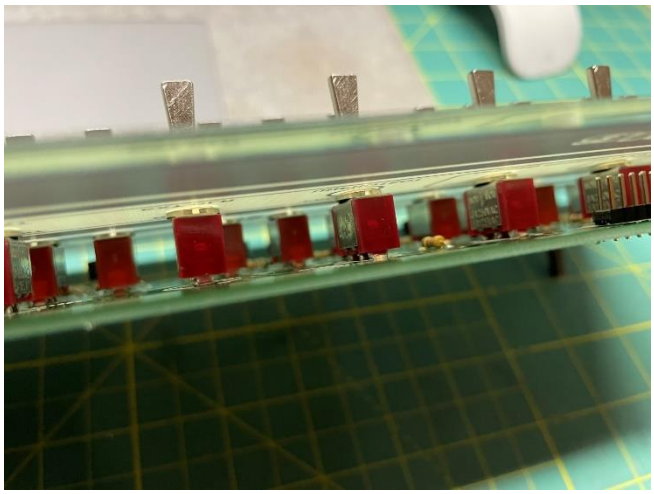
Place one resistor vertically soldered to the right side of R37 and the left side of R38. Place the other resistor soldered to the left side of R37 and the right side of R38. The rest of the resistors are installed and shown on the PC board.



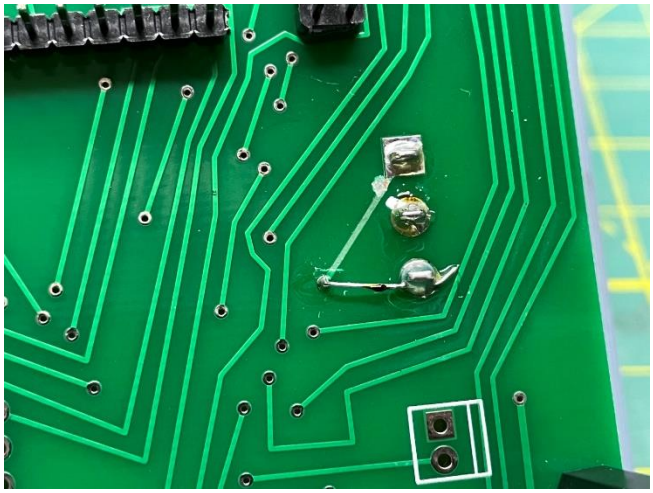
In order to hold the toggles in place and straight when installing, temporarily install the 12mm standoffs on the top side of the board (screw them in place with the 8mm standoffs on the bottom.)

Put the toggles in place, then put the front panel in place and secure with 10mm nylon screws.

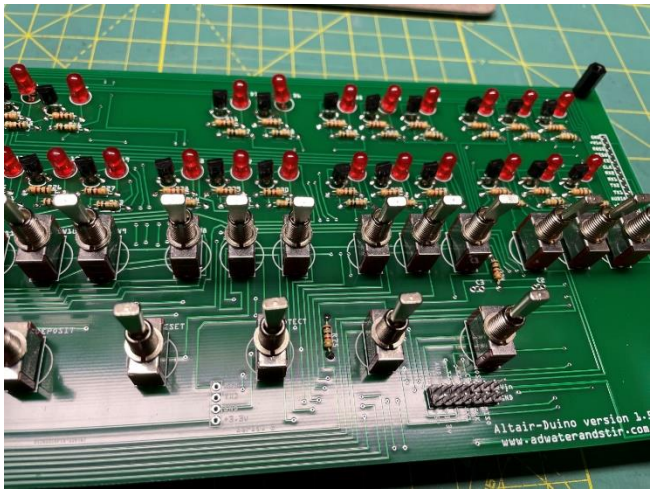
This will provide the optimum spacing for the toggles. Turn the board over and solder the toggles.



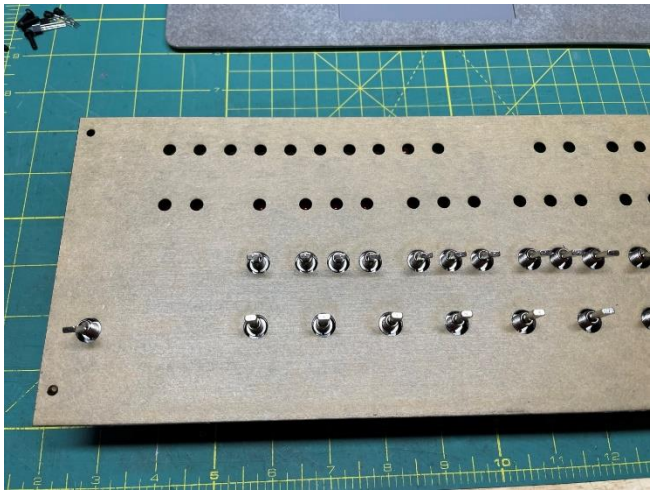
When soldering the power switch, you can solder the previously installed jumper to the bottom lug of the power switch.



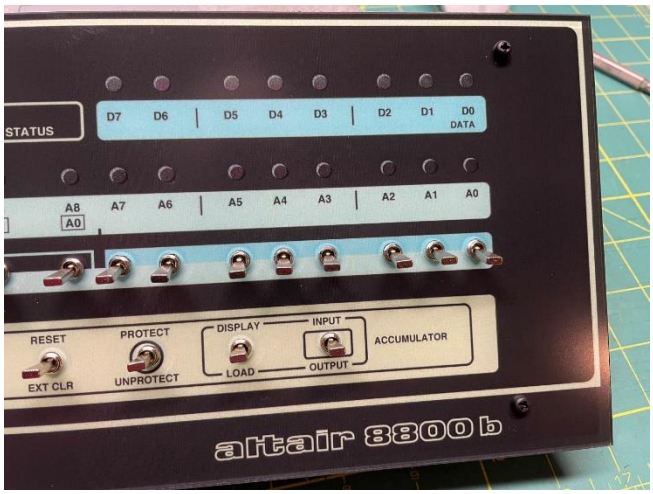
There are no nylon spacers for the LEDs included in the 8800b kit. Instead, with the black nylon standoffs still in place, put all LEDs in the holes.



Put the acrylic front panel spacer in place,



and put the front panel over that. Secure it again with 10mm nylon screws.



Now turn the whole assembly over and make sure the LEDs are seated in the holes cut in the spacer and resting on the back of the front panel. Solder the LEDs in place.

After the LEDs are soldered, you can remove the front panel and spacer and standoffs.