Spankulator Assembly Instructions

1. Attach display to front panel. Place two spacers between display and front panel per bolt. These prevent ribbon connector from breaking. Apply blue locktite to secure nuts.
2. Install all resistors, capacitors, diodes (not LEDs) and transistors on top side of board.
3. Install sockets U1, U2 and U3.
4. Install connectors J7 and J9.
5. Install 2 15-pin Arduino headers on back of board.
6. Install J8 on back of board. Trim pins under SW3 flush with board.
7. Solder header to FRAM board and attach 11mm standoff. Set this aside for later.
8. Install J2 and U4 on back of board. (heat sink side of U4 matches white line on board)
9. Install 4 12mm front-panel stand-offs
10. Loosely place the rest of the components (these should all be the ones that go through holes in the front panel) and temporarily attach front panel with the 4 nuts.
11. This should properly align all the front-panel components. Solder them in place.
12. Remove front panel and install 11mm standoff on back of board, then install FRAM on back.
13. Install ICs into sockets.
14. Re-assemble front panel and install Arduino on the back side of the board.
15. Attach knobs
16. That’s all! You’re ready to test.