Digital Abacus Calculator Instructions

1. NOTE - Solder just one pin off these parts on the bottom side of the board and check for alignment on the top side (where the lightning bolt is) before soldering the rest of the pins.
2. Solder the 8 pin, right angle, male header at KEYPAD.
3. Solder the 20 pin DIP socket. NOTE - the notch on the socket aligns with arrow on the board.
4. Bend, solder, and clip the 10k resistor at R1
5. Bend, solder, and clip the yellow capacitors at C1,2,3. Save the capacitor leads for later.
6. Solder slide switch at PWR, one pin at a time, to ensure that the switch is flush. It can’t take much heat, so be careful.
7. Solder the 16 pin male header to the middle of the board. Long pins on the top of the board.
8. Place the inverter on the board and use the capacitor leads in holes GND, IN+, IN-, and 5V. No leads are required in holes D+ and D-. Bend all four leads to hold the inverter before you solder.
9. Solder battery holder, spring side is negative, don’t clip leads. They are steel and will not cut.
10. Push the female, 16 hole socket all the way onto the male header.
11. Place the LCD screen onto the pins sticking up from the female socket and carefully solder one pin. Check for alignment, then solder the rest. Be careful about solder bridging.
12. Connect the keyboard to the 8 pin header and install the processor chip into the 20 pin socket – noting the round dot on the chip goes to the triangle arrow on the board.
13. Insert an AAA battery with the negative side touching the spring.
14. Turn on the calculator and enjoy the fruits of your labor!!
15. Special note: Hold down a single button while you turn the unit on for secret modes and messages.