

Parts List: resistors are 1/4 watt 5%.

PCB, x1

CD4033BE decade counter with ripple blanking, x2 (for testing)

16 pin ZIF socket, x2

5161AS common cathode 1 digit .56 display 7-segment display, x2 (for testing)

LM7805 5 volt regulator plus heatsink, screw, isolation washer, silicone pad, x1

10K resistor, x4

330 resistor, x1

1N5819 Schottky diode, x1

100nF 50 volt monolithic disc capacitor, x4

10uF 25 volt electrolytic capacitor, x2

green 5mm LED, x1

tactile switch 2 pin, x3

mini slide switch SPDT 3 pin, x3

PCB mounted DC jack 5.5 x 2.1

female machined header pins single row 2.54 spacing, 4 pieces of 1x5.

standoffs and screws, x4 each (I use 3mm screws and 6mm long standoffs)

Tools:

Schematic

Soldering iron and solder

flush cutters

Solder wick and liquid flux (if mistakes are made)

electrical tape