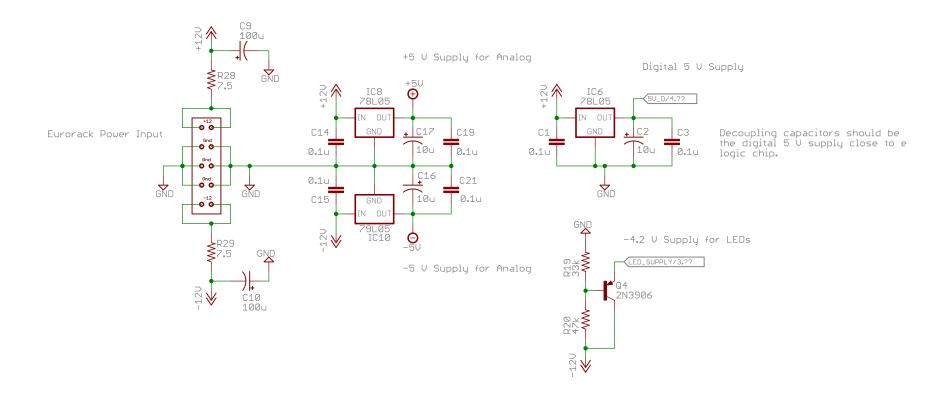
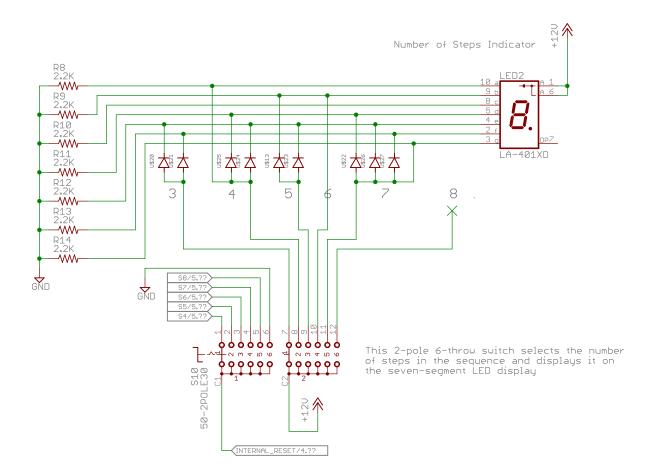
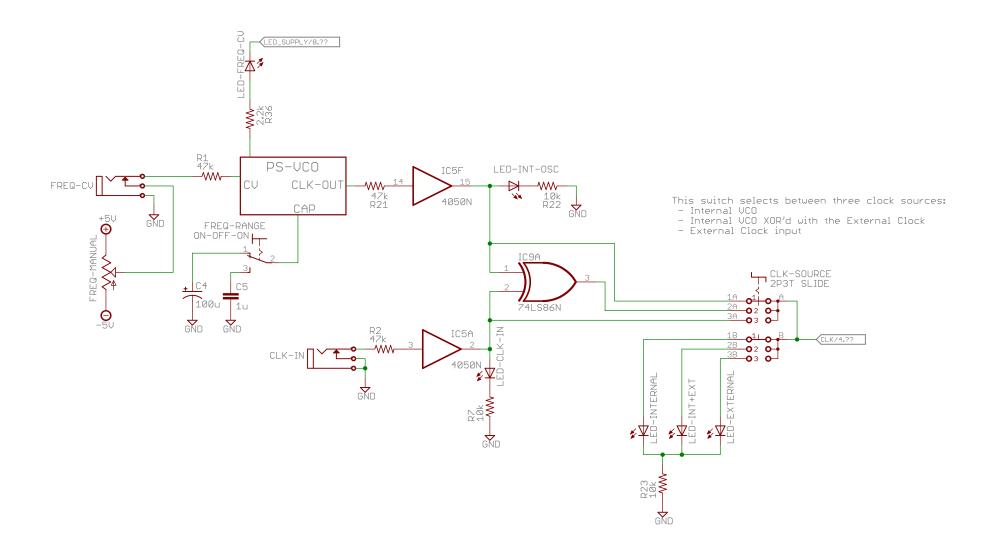
CBS Cigar Box Sequencer

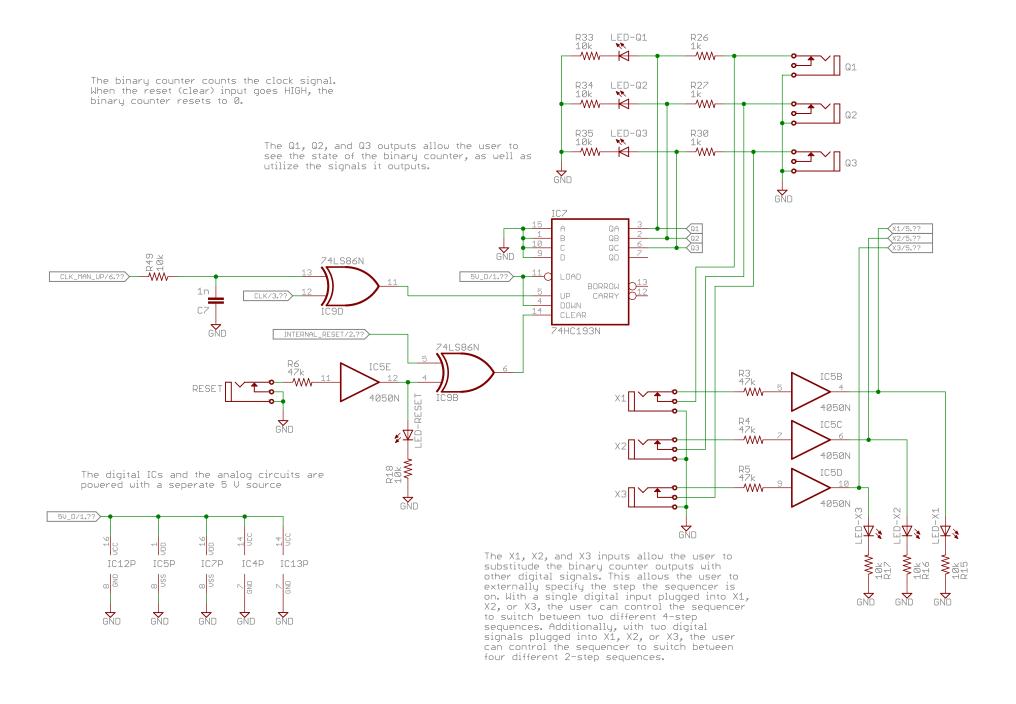
A 3-to-8-step sequencer built into a cigar box 2015-November

Ryan Jensen

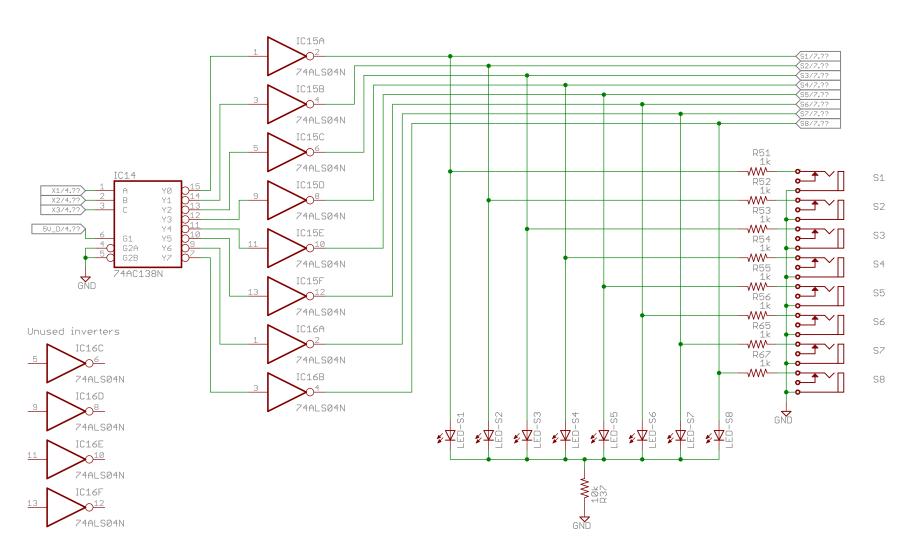




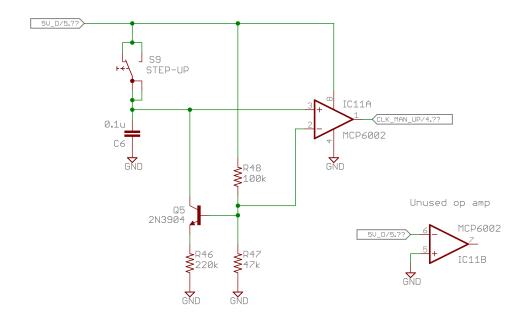


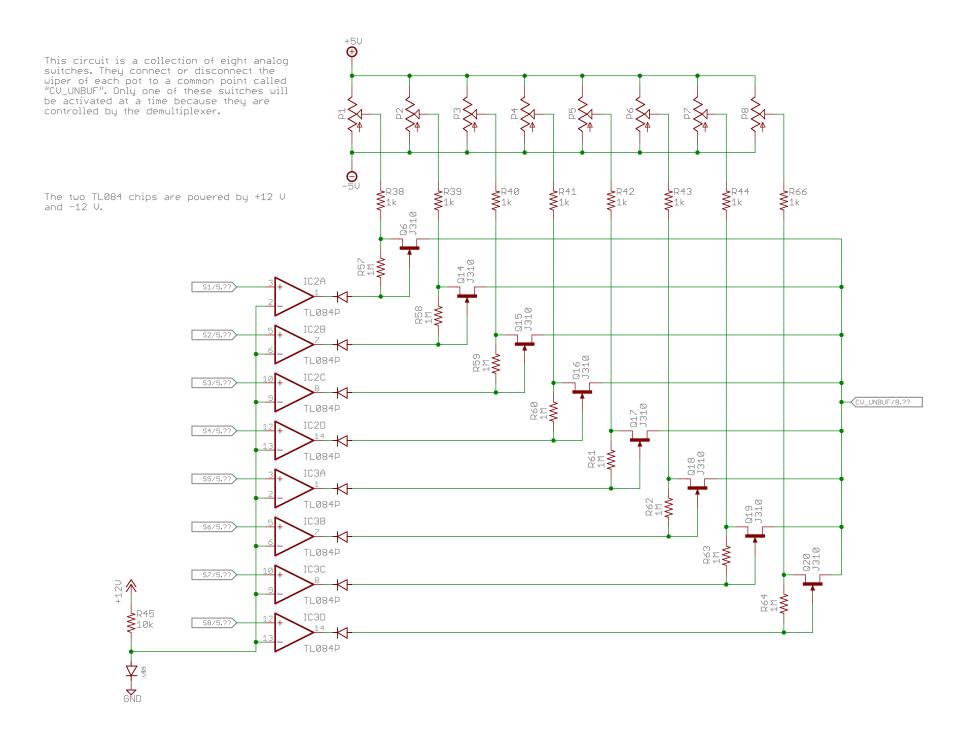


The demultiplexer converts the three digital binary lines (where all each of the three lines can be either HIGH or LOW) into eight digital output lines (where only a single output is "SELECTED"). This circuit converts the binary encoding into a selection of a single step of the sequencer.

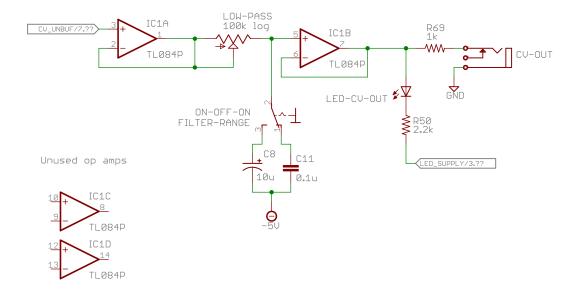


This switch allows the user to manually advance through the steps of the sequencer. The circuitry around the switch debounces the signal to prevent the rapid addition of counts that occurs when a noisy switch is fed into a digital logic device.





This circuit buffers the CV signal from the eight potentiometers. It also acts as an RC lowpass filter with a variable cutoff frequency (variable time constant).



This circuit uses eight switches to generate GATE signals on the specified steps. It is useful for turning notes "ON" or "OFF" with the aid of external modules. The signals from the eight switches are combined with the clock source to achieve this.

