C18 and C19 are additional power filtering caps. Adjust as needed for clean rails. 100nF typically ok. Note: R1 (Load for VRef) should be 340R to get close to the optimal 15mA Cathode Curren WCVL1 R39 PF2 Some adjustment may be made for overall init range. BIAS1 R45 PWM1 Parallel Resistors R43/R46 are optional, for fine tuning for SCALE (if desired). **USE 2212 or LS318** U4:B R43 R46 FINE R3 499K C20 and C21 are optional.

If +/-5V Rails are noisy, add these. R28 2.2K R32 2.2K R34 12K C9 R31 COARSE RATE Use 2 Lead Bi-Color LED. To build without UB switches, remove switch and parallel resistor. Input resistor change to 10K.