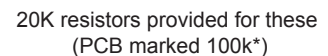


->the current source<-

these modifications necessitate a couple resistor changes in the 12V build to accomodate Euro CV spec (8V sensitivity) and hit the integration times specc'd on the Buchla, 1mS to 10S range on the panel. first, use the 2.2M resistors in the stead of the nearby 4.7M resistors, also, use the 1.33K resistors in stead of the "1K*" resistors as marked on the PCB. refer to the revised parts placement drawing. the changes are highlighted in yellow for clarity. kit notes for all builds shown green. .. happy building!

1. zeners: use 1n5235s provided for "1n5240" as marked on PCB
2. use 2.2M resistors provided for the "4.7M" as shown
3. use 1.33K (or 1.2K will get you pretty close) resistors provided for the "1K*" as shown



the 2 trimpots shown here are the only calibration involved - they simply set an "initial" rate of integration (slope) for each generator, the idea is to get it around 1mS with no CV input, panel-pots at full CCW- or you can adjust to taste. this is a very simple procedure, simply set the FG to cycle, trigger it to get it cycling, monitor the output as audio with a loudspeaker, use a tuner or tuner-app on your phone perhaps and tune to around 500Hz. or use an oscilloscope.

20K resistors provided for these
(PCB marked 100k*)