

Servicing and Upgrading Your Optoelectronics 2810 Frequency Counter

The author shows us how he repaired and upgraded his Optoelectronics frequency counter.

If you own one of these first generation frequency counters that has served as a workhorse in your shack for the last twenty years or more, and you have not yet opened it up to do any service then this article is for you. I bought mine while I was in my first faculty job in the early 1990s, and at that time \$120 or more was a lot of money. This model was the least expensive one I could afford, so I purchased one, and it has served me well for over twenty years. According to the manual, you are to open up the case and check that the batteries have not corroded every year or so. Well mine were truly gone when I did this recently. The original Ni-Cad batteries were readily replaced with modern Ni-MH units purchased from eBay. I then noticed that on Channel A my unit did not have the millivolt sensitivity that was described in the manual. I also found trouble in Channel B, but more on this later.

To test the sensitivity of my counter I used a 40 MHz oscilloscope and a home-made 10 MHz crystal oscillator that puts out about 1 mW or 0 dBm together with a home-made step-attenuator constructed according to a project described in *The ARRL Handbook* during the 1980s to mid 1990s. Prodding around with my scope probe I soon found that the second stage, U11A MAR 6 amplifier had no gain. See Figure 1.

A check with the ohmmeter on my DMM found that inductor L3 had become open circuited, but this was only half the problem. After it was replaced, my scope probe was busy again and soon I found that C27 had malfunctioned, probably through aging cracks because it was a fragile SMD ceramic device. This was easy to replace and then the unit came to life again, this time

working according to spec. My counter was able to remain locked with a signal down to about -43 dBm. This taught me that over the years it must have been a victim to rough handling. Note that the manual says the maximum input to channel A should be no more than +15 dBm, or about 1.26 V RMS, which means it cannot be plugged directly even into a QRP transmitter of 0.5 W output driving a dummy load.

Anyway, my counter is now working according to spec and I am pleased that I was able to service this piece of test gear. I did not know that it was not functioning according to specs until I opened it up to do a service, because Channel A was still partially functional, but I did notice that I had to pump in 100 mV of input to get my readings. So it may be worthwhile giving yours a check. Channel B has higher input impedance and it has back to back diode protection so it can withstand rougher handling, or so I thought. In fact after writing the original draft of this article and putting everything back in the box, I soon found how mistaken I was, but more on this later.

Upgrading the 2810 Counter to a 2600B Model

Now the real fun began. I noticed that my circuit board is marked as a 2600B version 3, and that there are imprints for several components not included in my counter. Studying the manual tells me that in fact those missing components are for the bar graph unit that goes with the 2600B model. See Figure 1. I had most of the parts on hand, except for the 1N6263A Schottky diodes and the Texas Instruments TLC548 ADC chip, which have to be mail ordered. Most

of the components were quickly soldered in. Note that all the parts are mainly surface mount devices (SMD) so you will have to practice soldering these devices before embarking on this part of the project. The only resistor that is not SMD is R26, for which I used an ordinary 510 Ω carbon film resistor that has to be soldered from the underside of the circuit board. See Figure 3. Some care is necessary here, because it bridges several other tracks and links up with the inductor, L2, on the top side of the board.

I found the manual has more errors, and that C24 should be connected to the cathode of CR3 rather than as drawn. The circuit board is correct, fortunately. Figure 1 of this article shows the connection correctly. I had to bend the leads of the two inductors, L4 and L5, to fit the tracks, like the original parts in the input amps, L2 and L3. Presumably in those days, chip inductors were not readily available, and I had none on hand either. If you have these chip inductors, you might want to replace all the leaded inductors, because that can improve the frequency response of the instrument.

Do not substitute lower number MAR amplifier types for the MAR 6, because they have less gain or a lower maximum frequency response. A more modern alternative could be the SNA-586 Sirena MMIC as it goes up to 5 GHz, and has lots of gain. I also found that I had to change R25 to 68 Ω for a better range of zeroing adjustment for the bar graph. Low profile variable resistors for R2 and R3 are preferred, because there is not much clearance from the front panel. These are required later for the bar graph calibration.

Now comes the tricky part. My recom-

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