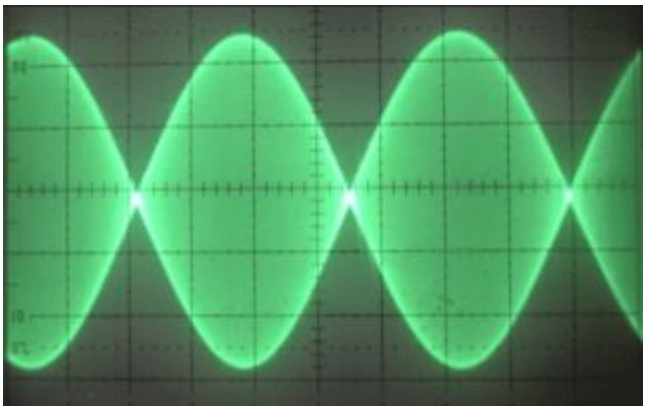
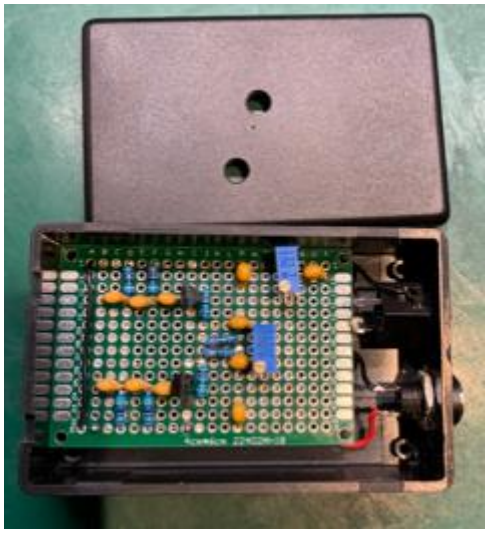
This Weeks Construction Project - A Two Tone Generator:

"So, what the heck do you need a two tone generator for Tom?" They asked. Well first of all I found a cool little circuit that I could use while surfing the internet and lo and behold there was a two-tone generator for testing to make sure linear amplifiers are properly adjusted in terms of linearity. You know the drill. If you want a signal that is picture perfect like this one…





So here is the link to the site that I found… https://dk7ih.de/2016/01/a-simple-2-tone-generator-for-testing-the-linearity-of-ssb-transmitters/

I gathered all the parts I would need and built the little thing in an hour and then tested it on a couple of radios. Everything looked great till I looked at the output of an old TS-130S that has some issues with the finals. The signal coming out of the driver was perfect but as soon as you put it on the output signal, it is nonlinear. It is likely the output transistors are out of spec due to abuse over the years and need to be replaced. That's another project for another day.

By the way, if you have only your Basic with Honours Certificate, adjusting transmitters is something you cannot do yet. You need to get your Advanced License to be able to do that kind of stuff. Hmmm? Maybe another course is in order, eh?

73
Tom VE6ARG