

Programming the Ericsson,M/A-Com Panther 500P Radios for “out of Band”

Please note: I tested this procedure on VHF only, although this should work very similar for UHF. This should also work with the GE KPC Radios as well. Be sure to backup all your software prior to attempting this procedure. **Use this at your own risk!**

Some Background

I have a couple of 150.775-174 split radios that I wanted to use in the 2-Meter band. I programmed it as a 136-155 split radio and the radios worked fine. The problem is that I need to also have the radio in the 158 range. This is how I managed to get both.

I used Programmer Version R12B02, and Hex Workshop to do the hex editing (although any hex editing software should work the same).

First step is to figure out the lower bandsplit in Hex. The 500P's have 2 VHF bandsplits, 136-155 & 150.775-174. I created a new pers. File with 2 freqs. 136.000 and 150.775.

I then opened the pers file in hex workshop and located the hex code for the 2 freqs:

136 – Hex Code 6140, text string shows up as *a@*
150.775 – Hex Code 6240, text string shows up as *b@*

Now, the next step is to replace 6240 with 6140 (or you can replace *b@* with *a@*) in the following files:

ProGrammer\Edacs4.exe
ProGrammer\trans\conv.dll
ProGrammer\trans\alpha.dll

Note: Since I am not a programmer, I had no idea what to replace so I replaced everything. This can be fine tuned by someone who has better programming experience.

Next, I created a new pers. file using the 150.775-174 bandsplit. I programmed everything normally, except for the 2-meter freqs. Add 8 Mhz. to the freq you want to program (146.520 would go in as 154.520). **MAKE SURE YOU ALPHA TAG** the channel so you can find it in the hex editor.

Once you are done, hex edit the pers. file you just created. Find your 2 meter entries. You should see a string *c@*, change it to *b@* (for example: 154.520, the string would look like “Pc@q=”, change it to “Pb@q” w/o quotes).

Now, load up the pers in your newly modified Programmer. You will see your 2 meter freqs the way they should be, even though the bandsplit says different. Your radio should program with the out of band freqs.

Bugs:

As of right now, I can't program 146.2 for PL. There may be other Tones/DCS codes that won't work as well.

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