Motorola CDM Series Out-of-Band Mods
ADDENDUM

I acquired several Motorola CDM-750 radios with a minimum frequency of 450MHz and needed to modify my copy of CPS per the document by WA1ZYX, KA1QFA, and KB1QPC. This document is linked on Repeater Builder, (http://www.repeater-builder.com/motorola/cdm/cdm-index.html). The linked document is found at http://ccdx.org/zedyx/mods/CDM_Mods/CDM_OOB.htm.

Per the WA1ZYX document, two files must be edited.

The first file is **rui41.dll**. It is stated that this file is common to most, if not all, versions of CPS. I found this to be true in the version I have. There does appear to be a typo however. The referenced offset address is stated to be 00002729 and I found it to be 00002720.

The second file is **proradio.exe**. My version of the CPS is 06.12.05 and the offset addresses given for version 06.12.02 did not match. I was concerned about being able to make the modification and decided to do a hex search for "75 58". There were too many matches and so I did a search with the pair before and after, "C0 75 58 68" and got only one match. A quick look a few lines down revealed the other sets of hex digits that needed to be changed. I made the stated edits and it worked. Here are the offsets for version 06.12.05:

1. offset 0027E450 change 75 58 to EB 58
2. offset 0027E4B0 change 75 60 to EB 60
3. offset 0027E4C0 change 75 58 to EB 58

In summary this search method should work on other versions of the software. It would be wise to note your edits or make a copy of the proradio.exe file before starting.

73 de NA5RC