

Programming Your Baofeng for S0-50 with Chirp

Working S0-50 with a Baofeng is a lot of fun. Programming a Baofeng for S0-50 can be tricky, but it is a little easier with Chirp, a PC and cable. Recently I purchased an Elk 2M/440L5 antenna for working satellites. I've been able to work S0-50, but probably couldn't do it without good programming and some help from others.

Getting Started Baofeng for S0-50

You'll need an antenna. In my last article I showed off my Elk and how to put it together. I think the Elk is an excellent choice. The other is the Arrow antenna. Equally as good, but a little more cumbersome. See my article, [Amateur Radio Satellite Elk Antenna](#).

Of course you'll need a radio and the one I am using and what many others use is a cheap Baofeng. I have the [BF-F9V2+](#), but many use the [Baofeng UV-5R](#). If you're going to go all out I suggest the [Kenwood TH-D72A](#). It has full duplex and you will be able to work other FM birds with it.

If you purchase an Elk antenna you'll need a couple of other things. A short [3 to 6 ft piece of coax](#) and a pigtail to connect to the radio. This takes the pressure off the small SMA connector on the radio. See: [SMA FEMALE TO PL-259 PIGTAIL](#)

Programming Baofeng for S0-50

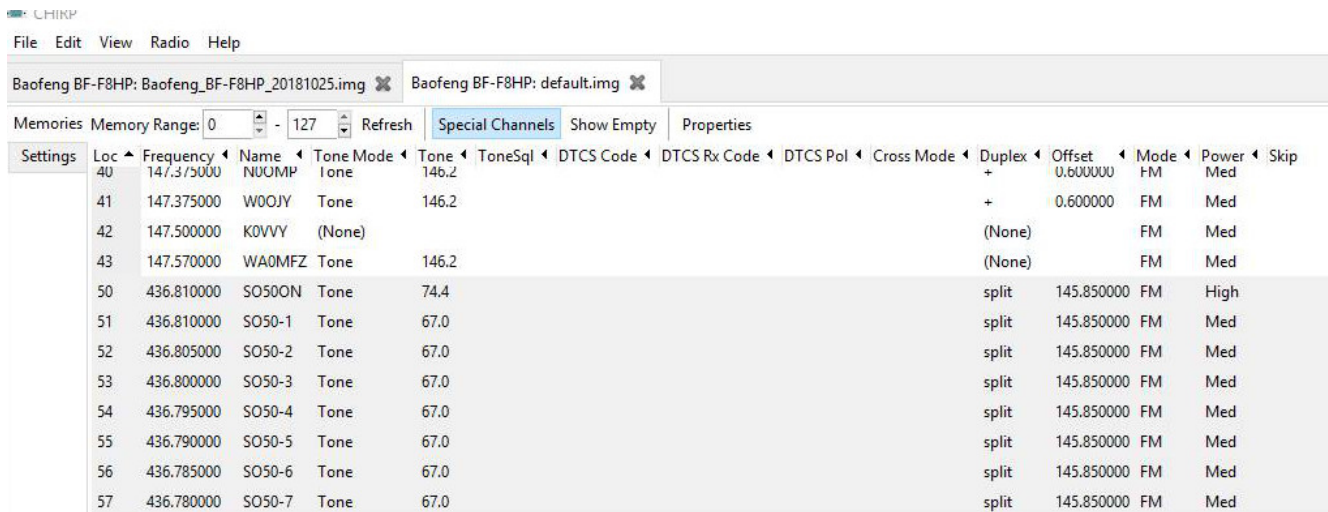
I use [Chirp](#) because I think it is easier than trying to program these radios manually. [Chirp](#) is not without it's issues though. The problem I have with Chirp is it sending the radio into transmit. However Chirp doesn't have my specific model Baofeng, so that could be the problem. It does work, but

I am just careful with it.

[BTECH Programming Cable](#)

Memory Frequencies for S0-50

I programmed 8 memories into the radio and have programmed the memories for crossband. For S0-50 the receive is in the 440 MHz, 70cm band and the transmit is in the 144 MHz, 2 meter band. It works and I don't know if you can do this without Chirp. See channels 50 through 57 in the picture below.



Settings	Loc	Frequency	Name	Tone Mode	Tone	ToneSql	DTCS Code	DTCS Rx Code	DTCS Pol	Cross Mode	Duplex	Offset	Mode	Power	Skip
	40	147.375000	NUOMP	Tone	146.2						+	0.600000	FM	Med	
	41	147.375000	W00JY	Tone	146.2						+	0.600000	FM	Med	
	42	147.500000	K0VVY	(None)							(None)		FM	Med	
	43	147.570000	WA0MFZ	Tone	146.2						(None)		FM	Med	
	50	436.810000	S0500N	Tone	74.4						split	145.850000	FM	High	
	51	436.810000	S050-1	Tone	67.0						split	145.850000	FM	Med	
	52	436.805000	S050-2	Tone	67.0						split	145.850000	FM	Med	
	53	436.800000	S050-3	Tone	67.0						split	145.850000	FM	Med	
	54	436.795000	S050-4	Tone	67.0						split	145.850000	FM	Med	
	55	436.790000	S050-5	Tone	67.0						split	145.850000	FM	Med	
	56	436.785000	S050-6	Tone	67.0						split	145.850000	FM	Med	
	57	436.780000	S050-7	Tone	67.0						split	145.850000	FM	Med	

If the duplex is set to split then the Offset field should contain the absolute transmit frequency to be used.

Baofeng for S0-50 Video

In this video you can see the trouble I have and I wonder if the Baofeng UV-5R has this problem???

Note: When attaching the coax cable to the antenna, dress the cable to extend straight away from the connector for at least eight inches.

Up Next/Comments

Coming up next I'll have a video on my homebrew tripod for the Elk antenna and more on working S0-50.

Thank you for subscribing to this website. I appreciate the comments, questions and suggestions. Please follow me on [Twitter](#), [Facebook](#), [Instagram](#) and [YouTube](#) if you have those.

Stay in touch and best 73,

Rich, K0PIR

Resources

While researching, a lot of the webpages and links that I followed are non existent now. This is one reason I'm doing articles on this. I want to keep it up to date so Hams don't run into "404 Page Not Found" errors.

Here are some good links I used and followed while learning about So-50.

[Chirp](#)

[Getting Started with the FM Satellites](#)

[Work FM Satellites with your HT!](#)

[SMA FEMALE TO PL-259 PIGTAIL](#)

[BTECH Baofeng Programming Cable](#)