

How to program frequencies into the Delta S990 control head



Frequency Entry

Here is a step by step with pictures showing how to program in frequencies once you have modified the control head with the firmware and codeplug files available on the Delta page on

my website and as described above. Make sure the microphone is in the hang up box. If it is not you can **not** program the radio.

With the radio turned off flip the programming switch to Program.

Push and hold the ADD and DEL buttons and then turn it on.

The first one shows what you will get when you power up the unit with the 'ADD' and 'DELETE' buttons pressed. This lets you select in which MODE to change data. The MODE up and down buttons are used:



Once the MODE is selected, tap the "*" key, This will now move you to the CHANNEL window to select which channel you will modify. The channel up and down buttons are used:



Again tap the "*" key. This gets you to the transmit frequency, the TX light will be on to indicate this, but the radio is not transmitting so don't worry! Use the mode, channel and scan keys to change the data:



Again tap the "*" key. The next step is for entering the transmit CG (PL) tone that is entered from the table. When in the programming mode and scrolling through the settings for a channel, the CG tone code is always set to 00, even if a different value was previously programmed. This also happens if you just set a value other than 00 and you are reviewing the channel again. So don't worry, if you set the tone its there, but reviewing the channel data will show 00. Probably a good idea to print out the chart and keep it handy:



00 = PL Disable, CSQ Only	18 = 123.0
01 = 67.0	19 = 127.3
02 = 71.9	20 = 131.8
03 = 74.4	21 = 136.5
04 = 77.0	22 = 141.3
05 = 79.7	23 = 146.2
06 = 82.5	24 = 151.4
07 = 85.4	25 = 156.7
08 = 88.5	26 = 162.2
09 = 91.5	27 = 167.9

10 = 94.8	28 = 173.8
11 = 97.4	29 = 179.9
12 = 100.0	30 = 186.2
13 = 103.5	31 = 192.8
14 = 107.2	32 = 203.5
15 = 110.9	33 = 210.7
16 = 114.8	
17 = 118.8	

Again tap the "*" key. The next step will be for the receive frequency and the busy light will be on, and again you will use the MODE, CHANNEL and SCAN keys to change the data:



The next step is for the receive CG tone that is entered from the table. Refer to the table and info above for the TX programming as its the same obviously.



Once *all* the changes are made tap the squelch (SQ) up key to write the data and reset, it will reset and return to normal operation. Set the switch back to normal for operation.



Thanks go out to:

David - WD4JKH

For making these radios useful once again!