



Pre conditions

- 1 Charge Battery
- 2 Attach antenna
- 3 Take Note of: <MENU>, <Up Arrow>, <Down Arrow>, <EXIT>,
4 Orange VFO/MR, BlueA/B, Black BAND,
- 5 10 Key Number Pad. Used to enter key numbers
- 6 Special Keys in the Right column below <EXIT>
- 7 Turn radio ON, the knob ON / Off volume control
- 8 Set Frequency Step <MENU> 1 <MENU> select a frequency step to lowest settings
- 9 Choose "A" Display Blue button <A / B>
- 10 Enter a receive frequency 145115 NOTE the 5KHz LSD

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The receive frequency is the only thing you can enter directly without using the MENU structure. Below are the MENU choices. Using the menu is relatively straight forward after you have used it a while: <MENU>Choice<MENU>setting<MENU> The arrow keys allows you to set receive frequency and scrol through menu choices and setting choices

<MENU> MENU Key	Choice Menu Choice	Choice Definition	Range Range	Range Default
0	SQL	Squelch Level	0 – 9	3
1	STEP	Frequency Step	0 – 5	25.0K
			Key	Value in Khz
			0	2.5K
			1	5.0K
			2	6.25K
			3	10.0K
			4	12.5K
			5	25.0K
2	TXP	Transmit Power	0 – 1	1 – 4W
			Key	Values
			0	HIGH 4W HIGH
			1	LOW 1 Watt
3	SAVE	Battery Save	Off-4	3
4	VOX	Voice Operated TX	Off – 10	Off
5	WN	Wideband / Narrowband	'0 – 1	0 – Wide
			Key	Values
			0	WIDE 5kHz WIDE
			1	NARR 2.5kHz
6	ABR	Display Illumination Time	Off – 5	5
7	TDR	Dual Watch	0 – 1	0 – Off
8	BEEP	Keypad Beep	0 – 1	1 – On

9	TOT	Transmission Time-out-Timer	15 – 600 (seconds)	60 Seconds
10	R-DCS	Receiver DCS	Off, D023N - D754I	Off
11	R-CTCS	Receiver CTCSS	Off, 67.0 - 254.1	Off
12	T-DCS	Transmitter DCS	Off, D023N - D754I	Off

13 T-CTCS Transmitter CTCSS Off, 67.0 - 254. Off

Number	Frequency	Number	Frequency
01	67.0	02	69.3
03	71.9	04	74.4
05	77.0	06	79.7
07	82.5	08	85.4
09	88.5	10	91.5
11	94.8	12	97.4
13	100.0	14	103.5
15	107.2	16	110.9
17	114.8	18	118.8
19	123.0	20	127.3
21	131.8	22	136.5
23	141.3	24	146.2
25	151.4	26	156.7
27	159.8	28	162.2
29	165.5	30	167.9

14	VOICE	Voice Prompt	0 – 1	0, ENG
15	ANI-ID	Automatic Number ID		80808
16	DTMFST	DTMF tone of transmit		0, DT+ANI

Key	Value	Notes
0	Off	
1	DT-ST	S-CODE only
2	ANI code only	ANI-ST
3	DT+ANI	Both

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17	S-CODE	Signal Code	1 -15	1	Actual codes set by computer only
18	SC-REV	Scanner Resume Method	0 – 2	0, TO	
			Key	Values	Notes
			0	TO	Time Operation
			1	CO	Carrier Operation
			2	SE	Search Operation
19	PTT-ID	When to send the PTT-ID	0 – 3	0, Off	
			Key	Value	Notes
			1	BOT	Beginning of transmission
			2	EOT	End Of Transmit
			3	BOTH	Both BOT and EOT
20	PTT-LT	Signal code sending delay	0 – 30	5	
21	MDF-A	Channel Mode A Display	0 – 2	2, FREQ	
			Key	Values	Notes
			0	CH	Channel number
			1	NAME	Channel name
			2	FREQ	Frequency
22	MDF-B	Channel Mode B Display	0 – 2	2, FRQ	
			Key	Value	Notes
			0	CH	Channel number
			1	NAME	Channel name
			2	FREQ	Frequency
23	23 BCL	Busy Channel Lock-out	0 – 1	1, Off	
			Key	Value	Notes
			1	ON	
			0	OFF	
24	AUTOLK	Automatic Keypad Lock	0 – 1	1, Off	
			Key	Value	Notes
			0	OFF	
			1	ON	

25	SFT-D	Frequency Shift Direction	0 – 2	0, Off	
			Key	Value	Notes
			0	Off	
			1	"+"	
			2	"-"	
26	OFFSET	Frequency shift amount		00.000 Mjz	
			Values (MHz)	Notes	
			00.000 - 69.990		
27	MEM-CH	Store a Memory Channel	000 – 127	000	
			Do 28 first <MENU> 27 <MENU> Chanel <MENU> <EXIT>		
28	DEL-CH	Delete a memory channel	000 – 127	000	
			<MENU>28<MENU>Chanel<MENU><EXIT>		
29	WT-LED	Display back-light colour, Standby	0 – 3	0, Off	
			Key	Values	Notes
			0	Off	
			1	BLUE	
			2	ORANGE	
			3	PURPLE	
30	RX-LED	Display back-light colour, Receive	0 – 3	1, BLUE	
			Key	Value	Notes
			0	OFF	
			1	BLUE	
			2	ORANGE	
			3	PURPLE	
31	TX-LED	Display back-light colour, Transmit	0 - 3	2, ORANGE	
			Key	Value	Notes
			0	OFF	
			1	BLUE	
			2	ORANGE	

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3	PURPLE	
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32	AL-MOD	Alarm Mode	0 – 2	0, SITE	
			Key	Value	Notes
			0	SITE	Cycling tone over the air
			1	TONE	Radio speaker only
			2	CODE	Transmit 5s tone followed by Morse

33	BAND	Band Selection	0 – 1	0, VHF	
			Key	Value	Notes
			0	VHF	
			1	UHF	

34	TDR-AB	Transmit selection while in	0 – 2	0, Off	
			Key	Value	Notes
			0	OFF	
			1	A	Upper display
			2	B	Lower display

35	STE	Squelch Tail Elimination	0 – 1	1, On	
			Key	Value	Notes
			0	OFF	
			1	ON	

36	RP-STE	Squelch Tail Elimination through a repeater	1 – 10	5	
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37	RPT-RL	Delay the squelch tail of re-peater	1 – 10	Off	
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38	PONMGS	Power On Message	0 – 1	1, MSG	
			Key	Value	Notes
			0	FULL	Flash entire LCD
			1	MSG	Displays a 2 line welcome message

39	ROGER	Roger Beep	0 – 1	0, Off	
			Key	Value	Notes
			0	OFF	
			1	ON	

40	RESET	Restore defaults	0 – 1	1, All	
			Key	Value	Notes
			0	VFO	VFO settings only
			1	ALL	Total reset*

An example set up for a repeater:

Key in 145115 the NCARC #1 2 Meter repeater
 <MENU>25<MENU>2<MENU><EXIT>. Tto set – DUP offset
 <MENU>26<MENU>00.600<MENU><EXIT>. To set / verify offset frequency
 MENU>13MENU>13<MENU>EXIT>. Set CTCSS transmitter encoder tone
 This should allow the use of the 145115 repeater.

Now to store the VFO (Frequency) mode settings into memory

<MENU>28<MENU>1<MENU><EXIT>. To clear memory #1
 <MENU>27<MENU>1<MENU><EXIT>. To set VFO settings into memory #1

You wouldn't have to program very many channels manually and you will find it tedious. I used the multi platform program CHIRP to enter data into radio MEMORY any or all 125 memory chanelns.