


**Baofeng UV5R8W Menu Items Programmed to North ID Repeater Product Ver 2.0, 2022-07-13**

Menu Number	Menu Abbv	Feature Explanation	Information on what each feature does and how it's programmed by North Idaho Repeater Product and other relevant information
0	SQL	Carrier Squelch Noise Reducer Feature	Change affects all Chnls/Freqs. Programmed to level 3, lower number means higher possibility of hearing distant transmissions but higher noise. 0 = Off
1	STEP	Frequency Step	Change affects all Chnls/Freqs. Might be necessary to change to enter a unique Freq or obtain a unique Freq not showing up during the (Freq) scanning mode
2	TXP	Temp Override of TXP Power Set By Chirp	High (H) Power can be temporarily changed on any Chnl to M or L to save battery life or limit the range others can hear your transmission
3	SAVE	Battery Save Feature	Set to optimum battery life, Might limit hearing 1st word of transmission in standby mode
4	VOX	Voice Operated Transmit	Only used with headset mic, best left off unless you are transmitting all day long
5	WN	Wideband / Narrowband	Programmed for specific Freq on each Chnl of the North ID Repeater product
6	ABR	Backlight Timeout	This is Maximum Possible 24 Seconds DO NOT ATTEMPT TO CHANGE without software Has been Programmed to Off. Might be practice to use if needed to
7	TDR	Dual Watch / Dual Reception	continuously monitor 2 priority channels instead of using scan mode that takes about 25 secs to scan all programmed North ID Repeater Chnls. Its easy to get confused about what channel to respond to if this feature is turned on
8	BEEP	Keypad Beep	Programmed On
9	TOT	Transmission Timer	Set to 120 secs, will stop transmission & require rekey of mike after 120 sec transmission
10	R-DCS	Receive Digital Coded Sql	Unless knowledgeable, DO NOT USE
11	R-CTCS	Receive ContTone Coded Sql	Unless knowledgeable, DO NOT USE
12	T-DCS	Trans Digital Coded Sql	Unless knowledgeable, DO NOT USE
13	T-CTCS	Trans Cont. Tone Coded Sql	Programmed to ensure access to North ID Repeaters, Leave alone unless knowledgeable
14	VOICE	Menu Voice Prompt	Set to English
15	ANI-ID	Automatic Number ID	Programmed OFF, transmits way too much metadata over the air to others
16	DTMFST	DTMF Side Tones	Programmed OFF, transmits way too much metadata over the air to others
17	S-CODE	PTT-ID DTMF Code	Programmed OFF, transmits way too much metadata over the air to others
18	SC-REV	Scanning Resume Method	Programmed for CO, resumes scan after transmission or noise ends, TO stops scans for 10 Seconds, SE causes scan to stop and stay on Chnl/Freq until restarted. NOTE: Only way to prevent stopping on Noise is to increase Squelch setting or use CHIRP to assign a (S) Skip option to continuously noisy channels
19	PTT-ID	When to Send PTT-ID	Programmed OFF, otherwise transmits too much metadata over the air to others
20	PTT-LT	PTT-ID Delay	Programmed OFF, otherwise transmits too much metadata over the air to others
21	MDF-A	[A] MR/Chnl Mode Display	Allows user to view either Channel Numbers or Frequency on Top line of Radio Display
22	MDF-B	[B] MR/Chnl Mode Display	Allows user to view either Channel Numbers or Frequency on Bottom line Radio Display
23	BCL	Busy Channel Lock-Out	Set to Off, allows transmission over others on Freq (listen Carefully before transmitting)
24	AUTOLK	Automatic Keypad Lock	Set to Off, keypad locks if not used for 8 secs, hold #LOCK button for 3 secs to unlock
25	SFT-D	Direction Freq Shift	Only used to program new repeater difficult without using CHIRP software
26	OFFSET	Frequency Shift	Only used to program new repeater difficult without using CHIRP software
27	MEM-CH	Memory Channel Programing	Adds new Freq to Radio's Chnl memory. Large Chnl # are only possible with Software, This methods only provides small Chnl# on right side of radio display
28	DEL-CH	Delete a Memory Channel	Can be used if you want to delete a programmed channel
29	WT-LED	Screen Color - Standby	Set to Orange as its the optimum color for brightness in daytime
30	RX-LED	Screen Color - Receive	Optional to change if desired
31	TX-LED	Screen Color - Transmit	Optional to change if desired
32	AL-MOD	Alarm for Orange Button	Programmed to Site Otherwise will transmit siren over Freq or Repeater Channel
33	BAND	Band Selection	Switches between VHF (144-148) & UHF (420-450) MHz in Freq Mode. Some Baofengs have BAND button on right-side radio. Band can be also be changed by manually changing the first digit of the Freq on display from 1 to 4 or 4 to 1.
34	TDR-AB	Dual Watch Priority	Only required if TDR option is turned on menu #7. Establishes which bank: top or bottom line will actively receive msg if two transmissions come in at once.
35	STE	Sql Tail Eliminate Transmit	Programmed to Off
36	RP-STE	Sql Tail Eliminate Repeater	Programmed to Off
37	RPT-RL	Delay Tail Tone Repeater	Programmed to Off
38	PONMSG	1 Second Power On Msg	Displays Repeater Map Version date to ensure radio memory data matches Map Product
39	ROGER	Transmitted Roger Beep	Programmed Off, as this feature irritates other users
40	RESET	Restore to Default Settings	<b>CAUTION</b> If you end up on this menu item & SELECT MENU BUTTON 2 MORE TIMES It will WIPE ALL programmed data on radio and reset voice prompt to Chinese. Instead select EXT Button on on Keypad to exit the menu mode

To Print: Set Top/Bottom Margin 0.25" Left/Right Margin 0.03"

**Additional Items for Understanding Features of Baofeng Radios**

Button Acronyms VFO/MR A/B	VFO = Variable Freq Oscillator, MR = Memory Recall or Channel, A/B = Switches Active Channel between (A) Top & (B) Bottom Channel Banks on
To Select/Go directly to Programmed Channel	Enter 1 or 2 zeros before channel numbers less than 100. Example: Select 008 for Chnl 8, and 088 for Chnl 88 or use the scroll buttons to find a specific channel
Temporarily Hear Weak transmission	Push & Hold MON button below transmit button as long as you want to hear weak signal. This temp turns Sql Off. <b>Note: Quick Tap turns on Radio Flashlight</b>
Baofeng Has (2) Lines that Displays 2 Channels or 2 Frequencies	Baofeng Radios are capable of monitoring two different channels or Frequencies at the same time if Menu item 7 (TDR) is turned on. This creates many problems because its difficult to determine what line Top or Bottom a received call came in on, thus causing user to frequently transmit on wrong Channel or Frequency
To Scan All Memory Channels or Frequencies 	Select either Freq or Chnl mode then press and hold * SCAN Button until you hear the <u>SCANNING BEGIN</u> Prompt. You must select either VHF (144-148) or UHF (420-450) MHz Band to Scan in the Freq Mode). To stop Scan select any button on keypad. To restart if scan stuck on noise reselect Scan button. If Scan stops too long on noise increase Squelch level (Menu 0) until problem resolved
To Change Features In Menu Items (0-40)  Note: Squelch # is 0 First Item Displayed When Menu Opened	Select MENU Button on keypad, within 10 secs enter menu # (0 for Sql) from keypad or use scroll buttons. To change menu Item: Within 10 seconds select Menu Button again, then use scroll buttons to select new option. Then within 10 seconds select Menu Button a third time to input change into memory. You should hear a <u>CONFIRM</u> Prompt identifying desired change has been made
Baofeng UV-5R BF-F8HP CAPABILITIES BEYOND HAM RADIO FREQUENCIES	These (5 - 8 Watt) Baofengs are (Freq Modulated FM) radios that operate on 2 seperate Ham Bands, 2 Meter (VHF) (144 to 148 MHz) and 70cm (UHF) (420 to 450 Mhz) Bands. Most Baofengs come from factory with capabilities well outside these Freqs limits, hence they can operate on many other FM Bands like GMRS/FRS Walmart type (half to 2 watt radios), Marine Band, MURS, as well as other Commercial, Public Service and Gov FM Band radios. The North Idaho Repeater Map product includes many additional Freqs outside of Ham Bands that would be invaluable during Emerg or Grid Down situations. Some of these Frequencies have been programmed to transmit as well as receive, others like local Public Service Repeaters are only configured for receiving the Repeater Freqs because transmitting on them could get unauthorized user in trouble.
Baofeng UV-5R BF-F8HP RANGE LIMITATIONS	Baofengs are only capable of Line-of-Sight communications unless using a repeater. This limits (handheld radio -to- handheld radio) communication to maximum of 7 miles (due to curvature of earth) when using the best attached antenna and about 15 miles if both parties are using a 12 Ft roll up J-Pole antenna hung on a tree or side of a house. Generally distances will be much less than those described above due to environmental reasons. Ranges can exceed 50 miles if using a Repeater depending on elevation of the repeater and type of antenna on your Baofeng and other radio. Its possible to talk from the Canadian Border to Spokane Airport when two Baofeng radios are connected to two separate but Grouped (connected) Repeaters that are part of the North Idaho Repeater Group. Antenna height and quality is critical to range of Baofengs
North Idaho Repeater Map and Spreadsheet of Freq Data	All known repeaters in North Idaho have been validated and their programmed data has been depicted in spreadsheet format for ensuring repeater data integrity. Repeaters on spreadsheet view have been assigned an arbitrary Chnl number not used by any other protocol or radio organization and are linked to a visual depiction of their approx location on a colored map on reverse side of the spreadsheet product. Repeaters on map are Black Diamonds unless they are part of a Repeater Group, then they are (colored coded by group). A cell phone compatible Map product is available by request at <a href="mailto:nid2m70cm@gmail.com">nid2m70cm@gmail.com</a>