

60760985820 25778630.3 7165045.7941176 1379995052 240473327.66667 10123389969 174179415.33333 2242371 5065382.3103448 5573817.7297297 10663289670 1877936.6818182

Manual Baofeng (Pofung) UV-SR

www.pu5ssr.net e www.baofeng.com.br

Botão [MENU]

Acessa menu de configuração do HT e suas opções. Quando dentro de uma opção do menu e pressionado, ele salva o valor que estiver selecionado na opção.

Botão [EXIT]

Sai do menu de opções, cancela digitação de frequência, cancela escaneamento e etc.

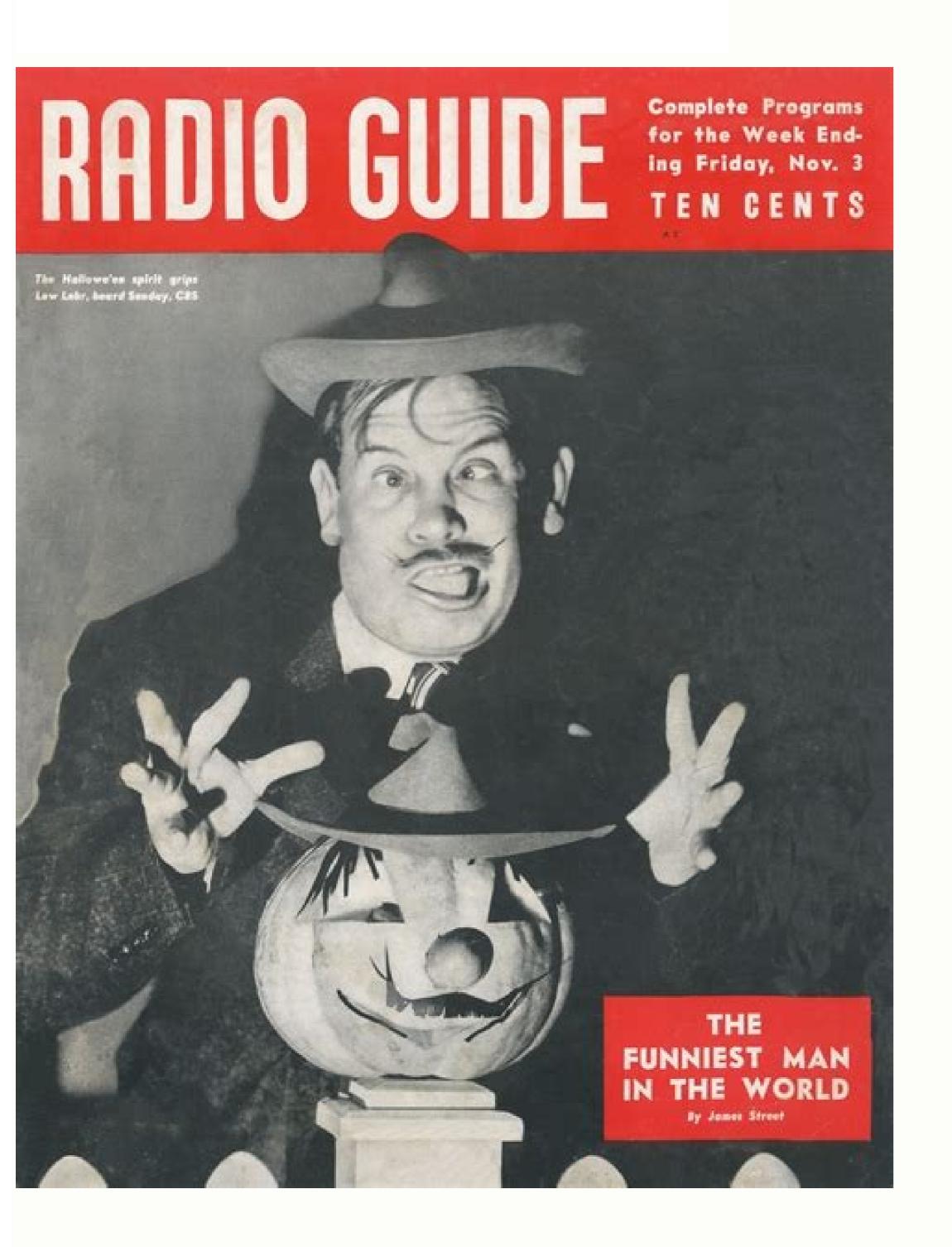
Botões [UP] e [DOWN]

Navega pelas frequências ciclo a ciclo (STEP), navega nas opções do menu, seleciona valores das opções do menu e etc.

14. Funções do Menu e suas configurações

- SQL Ajuste do nível do Squeich.
 - 0 totalmente aberto.
 - 1 sensivel
 - 9 abre áudio se receber transmissões fortes
- STEP Gclo ou espaço de frequência a ser usado. Quando navegado usando as teclas [UP] e [DOWN] é o valor que irá subir ou descer a frequência. Potência de transmissão: Alta e Baixa.
- TXP. SAVE Função de economia de bateria.

 - OFF Desativado.
 - 1 pouco económico 4 - super económico
- VOX Função que ativa a transmissão por detecção de voz, som ou barulho. OFF - desativado
 - 1 sensivel
 - 10 menos sensível
- WN Função Wide/Narrow band. Quando configurado com valor Wide a recepção fica mais sensível e aceita receber transmissões um pouco fora da frequência (se está em 145.000 recebe até 145.025 e 144.975). Quando configurado em valor Narrow ele deixa a recepção restrita ao máximo possível a frequência selecionada.
- Tempo de luz de fundo do visor. ABR
 - OFF Desativado.
 - 1 pouco tempo
 - 10 máximo de tempo
- TDR Recepção dupla simultânea das duas canaletas (A e B) ao mesmo tempo. BEEP Barulho de BIPE ao teclar.
- BEEP
- TOT Tempo máximo de transmissão em segundos. OFF - Desativado outros valores são em segundos
- R-DCS Filtrar transmissões recebidas com subtom digital selecionado. OFF - desativado
 - outros valores é o código do subtom digital
- R-CTCS Filtrar transmissões recebidas com subtom analógico. OFF - desativado outros valores é o código do subtom analógico
- T-DCS Transmitir usando subtom digital. OFF - desativado
- outros valores são os códigos do subtom digital
- T-DCS Transmitir usando subtom analógico. OFF - desativado outros valores são os códigos do subtom analógico
- VOICE Voz indentificando toda tecla que você apertar ou menu que selecionar. ENG - Voz em inglés



Radio Guide

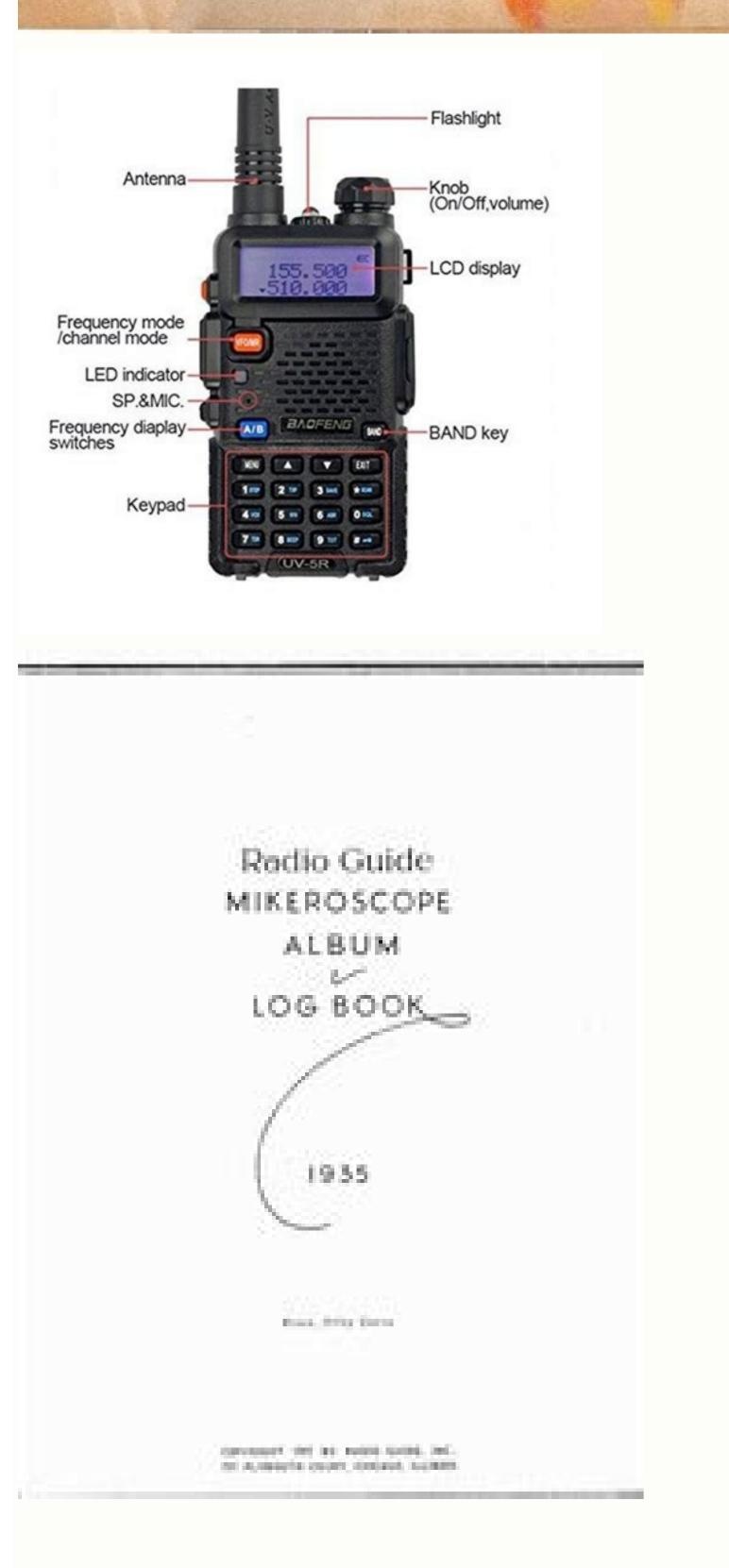
The National Weekly of Programs and Personalities

> These Feuding Stars

I Want to Get Out of Society –Cobina Wright Benay Venuta Story on Page 6

May 25, 1935

CCA + 13 1431



Uv5r radio manual. Uvr5 manual. Uv-5r manual.

For further information see Appendix B, Menu definitions and Chapter 4, Working the menu system. 35 STE - Squelch Tail Elimination 36 RP-STE - Squelch Tail Eli channel on the selected display becomes the active listening and transmit frequency or channel. Procedure 8.1. CTCSS setup how-to Press the [MENU] to select. Enter desired CTCSS sub-tone frequency in hertz on the numeric keypad. Press [MENU] to confirm and save.Enter[1STEP] [3SAVE] on the numeric keypad to go to transmitter CTCSS.Press[MENU] to select.Enter desired CTCSS sub-tone frequency in hertz on the numeric keypad. As aresult this manual is a bit rough around the edges. Repeat for all the channels you want to add. Appendix A. After that, use the menu system to configure the finer details of the channel you're wanting to program to memory, such as transmit power, bandwidth, CTCSS or DCS and more. To turn DCS off, follow the same procedure but set it to off with the key instead of selecting a DCS code. Making a call Press and hold the PTT button on the side of the radio body to transmit. For more information on how to use the menu system see Chapter 4, Working the menu system and Appendix B, Menu definitions. Table 7.1. DIMF frequencies and corresponding codes. While in channel mode, momentarily press the Pound key to change between High and Low transmit power. When you release the PTT your transceiver will go back to receive mode. If you're experiencing any problems, contact the dispatch office with your employer. Defaults to W for Wideband.PTT-ID: Enables and sets position of PTT-ID. 26 OFFSET - Frequency shift amount Sets the amount of offset on the transmit frequency relative the receive frequency. This will open up a window called DIMF Encode/Decode. At approximately three frequencies per second, it's not the fastest scanner in the world, but it is nonetheless a useful feature to have at times. The (Chinese) Radio Documentation Project or its authors does not hold any responsibility or liability for any damage or injury, direct, indirect or otherwise caused as a result of following the instructions and procedures herein. Baofeng software Before starting the section called "Attaching the steps in the section called between the start is in no way affected by the license. Antenna This transceiver is fitted with a Male SMA connector. The following assumes that you've still got the programming software running from earlier. Scan/star and Pound/lock key Pound key In channel mode, the Pound key also acts as a transmit power short key. This is also the option that turns ANI completely off when set to OFF. To utilize this type of repeater, your radio have to be capable of transmitting and receiving on different frequencies on the same memory channel. Procedure 6.1. Enabling or disabling Dual Watch. Press [MENU] to select. Use the [UP] and [DOWN] keys to enable or disable. Press the [EXIT] key to exit the menu. In a duplex repeater system, the repeater system, the repeater system, the repeater system of these bands that make this transceiver illegal for use.Not only do you need a radio with a maximum of 500mW output power (the Baofeng UV-5R provides at minimum twice that), you also aren't allowed to use a radio with a detachable antenna or a radio that can be used outside of the FRS or PMR446 bands.In the US there is one exception to that rule, and that is FRS+GMRS combo units, however they are still restricted to 500mW output power on the FRS frequencies, and they still have to be manufactured with a fixed integral antenna. If you're still unable to make a connection, contact the person in charge of the radio system with your employer or your local amateur radio club, as the case may be. A common type of repeater, is the duplex repeater. For a more in-depth explanation on how to work the menu section. Press the [*SCAN] key momentary to get into reverse mode. Save that again to the same memory channel just as in step one(1). The following instructions assume that you know what transmit and receive frequencies your repeater employs and that you're authorized to use it. Switching to another operating mode (including broadcast FM) will reset transmit power to what's stored in channel memory. 7 TDR - Dual Watch When enabled it allows you to monitor two frequencies simultaneously. You can also switch by holding down the [5WN] key on the numerical keypad while in frequency step on your transceiver see Chapter 4, Working the menu system and the section called "1 STEP -Frequency Step" in Appendix B, Menu definitions. This is also the interval the scanner will run at. All further examples and procedures in this manual will use the numerical menu short- cuts. If you would like to name your channel you will need to do that from a computer. Radio to radio cloning The Baofeng UV-SR is capable of cloning between radios, meaning if you have one radio set up just the way you like it (the reference or "master" radio) and want another radio configured in exactly the same way (the "slave" radio), you just hook a cable between them and copy the information over. As it turns out, that someone turned out to be I. Part three covers is a collection of how-to documents to help you set up your radio for specific working environments. If you want to momentarily override the lock without having to set the menu option to OFF, you can do so by pressing the PTT. Time operation (TO) mode, the scanner stops when it detects a signal, and after a pre set time out time of inactivity, it resumes scanning. It should be noted that this radio does not possess a dual VFO, meaning that the Dual Watch feature is a time sharing operation. Radio will alert you when your time is up. To send DTMF codes, press the key(s) corresponding to the message you want to send while holding down the PTT key. If your radio powers on correctly there should be an audible double beep and the display and backlight should turn on, looking something like this: Figure 3.1. First power-on, display You can get additional information about your radio when you turn it on by holding down miscellaneous keys as you turn it on. You can also enable so that the radio automatically locks the keypad after ten seconds from the menu, see Chapter 4, Working the menu system and ??? Star key A short momentary press of the key enables the reverse function (see Chapter 11, Re-peaters). Dual Watch In certain situations, the ability to monitor two channels at once can be a valuable asset. When programming channels it is important to remember that you can only save memory channels when working on the upper display in VFO mode. Defaults to the receive frequency. CTCSS/DCS Dec: Receiver CTCSS or DCS. To input an offset frequency with the numeric keypad, enter the frequency in 10 mega- hertz with leading zeroes. Chapter 1, Initial setup Chapter 2, Getting to know your radio Chapter 3, Basic Use Chapter 1. Scanning modes The scanner is configurable to one of three ways of operation: Time, carrier or search, each of which are explained in further details in their respective section below. Attach the USB (or DE9 in the case of standard RS-232) connector to your computer and start your programming software. For a

600kHz shift, enter [0SQL] [0SQL] [keypad The Baofeng UV-5R hand-held transceiver comes standard with a full numeric keypad. More on that in the section called "Computer programming". The Baofeng UV-5R hand-held transceiver comes standard with a full numeric keypad. More on that in the section called "Computer programming". character alphanumeric identifier or channel name V Manual programming is somewhat fiddly until you get used to it, especially when pro- gramming in duplex channels. Press and hold [MONI] to monitor the signal. Holding down the [6 ABR] key while turning on the radio provides you with what is most likely a control or manufacturing date and a hardware revision number. See the section called "26 OFFSET - Frequency shift amount" for details. Press [MENU] to confirm and save. Enter [2TXP] [5WN] on the numeric keypad to get to offset direction. Use the [UP] and [DOWN] keys to select + (positive) or - (negative) offset. Press [MENU] to confirm and save.Optional:Save to memory, see the section called "Manual programming" for details.Setup CTCSS, see the section called "CTCSS" for details.Press [EXIT] to exit the menu. Another option for overriding the lock momentarily, is to program in the reverse of Channel (MR) mode into Frequency (VFO) mode and using the [VFO/MR] key to swap between primary and secondary channels. 13 T-CTCS - Transmitter CTCSS Sets the Continuous Tone-Coded Squelch Systems, it has proved a very versatile tool in many other areas. And only by sending out a matching code can you get that radio to open up to your transmissions. Defaults to OFF.TX Power: Transmit power. Setting the squelch to 0 will open up the squelch entirely. 18 SC-REV - Scanner will resume after a pre set time. Carrier Operation: The scanner will resume once the signal disappears. Search Operation: The scanner holds on the frequency with detected activity. This does not affect Amateur Radio operators. Also big thanks to O'Reilly Media for their inspiration and wonderful documentation. When working in cold environments, keep a spare battery on you. The use of Channel (MR) mode is dependent on actually having programmed in some channels to use. 14 VOICE - Voice Prompt When enabled your radio will "talk back" to you, meaning audible confirmation when pressing keys and working the menu system. 5. Use the PTT-ID drop-down list to select the position of your ANI data burst; BOT (Beginning of Transmit), EOT (End of Transmit) or BOTH. Do note that this is does not alter the transmit power stored to memory for that channel, it only affects the current session. The unit is now off. Chapter 8. When the the red LED comes on steady, your radio is charging. The radio is fully charged once the charger's green status LED goes steady Unfortunately Baofeng decided to split up related functions in the programming software, so in order to enable ANI we'll have to open up yet another window and do some final configuration before the radio is ready for use. To view a copy of this license, visit or send a letter to Creative Commons, 559 Nathan Abbott Way, Stanford, California 94305, USA. To attach the cable, uncover the accessory port behind the rubber flap on the right side of the radio body (see Figure 2.1, "Baofeng UV-5R, overview"), align the connectors and push in firmly. Table 2.1. LCD icon summary Unmentioned icons seems to not be implemented in this model of radio. Certain Amateur Radio repeaters (especially in Europe) use a 1750Hz tone burst to open up the repeater. This will open up a very crowded looking window called Optional Features. For everyday use, Channel (MR) mode is going to be a whole lot more practical than Fre- quency (VFO) mode. 25 SFT-D - Frequency Shift Direction Sets the direction of the transmit offset relative receive frequency. In Memory(MR) Mode transmit power will be set to the level programmed in memory for any given channel. If the read is successful the LED on your radio will start flashing red indicating that the radio is transmitting data to the computer. To enable the scanner, press and hold the [* scan] key for about two seconds. You cannot set S-CODE while in channel/memory mode. Troubleshooting Appendix B. Tie the bag up and let it sit over night. 39 ROGER - Roger Beep Transmits an audible tone after you release the PTT. To resume scanning you must press and hold the [*SCAN] key again. 11 R-CTCS - Receiver CTCSS Continuous Tone-Coded Squelch System(CTCSS) will block out any signal that isn't sent with a matching CTCSS sub-tone. Defaults to 1.CH-Name: Channel name. Installation Make sure the battery is aligned in parallel with the radio body with the radio body with the lower edge of the radio. This is where you enter the channel information for your memory channels. Often times, the transmit frequency to use isn't explicitly stated, but rather an offset relative your receive frequency is specified. Adjusting the volume, turn the volume/power knob clock-wise. While transmit- ting, speak approximately 3-S5cm from the microphone. If necessary wipe the contacts with a clean cloth to ensure proper contact with radio and charger. Next goto Program -> Read from radio and click Read to read in any existing channel information on the radio. When you first open up the Baofeng programming software, it may default to Chinese. You may be tempted to use FRS (in the USA) or PMR446 (in Europe) frequencies while playing. Frequency (VFO) mode is also used for programming channels into memory. Scanning The Baofeng UV-5R features a built in scanner for the VHF and UHF bands. The Baofeng programming software has been known to fail on connect the first try. The following example assumes the use of a 12.5kHz frequency step. See the section called "Side key 2 - MONI (Monitor and Flashlight)" for more information. Note that you can only enter three decimals on the keypad, if you type 687 it wont work. 6 ABR - Display Illumination Time Time-out for the LCD back-light. Part Ill. This is conveniently enough also how the Baofeng UV-5R natively handles repeater setup, by specifying offset rather than transmit frequency. When listening to broadcast FM, the [BAND] keypad, if you type 687 it wont work. 6 ABR - Display Illumination Time Time-out for the LCD back-light. switches between 65-75 MHz and 76-108 MHz bands. 23 BCL - Busy Channel Lock-out If enabled your radio will prevent you from transmitting on active frequency to one of the two channels it monitors. To change the colours, follow these steps: Procedure 9.1. Changing backlight colour. [3SAVE] [9TOT] to change the following on your numeric keypad: [2TXP] [9TOT] to change the f to pick the desired colour. 30 RX-LED - Display back-light colour Receive Sets the back-light colour while receiving a signal. Using short-cuts As you may have noticed if you looked at Appendix B, Menu definitions, every menu item has a numerical value associated with it. For more information see the section called "10 R-DCS - Receiver DCS" and the section called "12 T-DCS - Transmitter DCS" in Appendix B, Menu definitions. Defaults to OFF.BusyLock: Busy Channel Lock-out. For details on how to program your transceiver see Chapter 10, Programming. Battery Level Indicator When the battery level has no bars, the battery is depleated. Turning the unit on To turn the unit on, simply rotate the volume/power knob clockwise until you hear a "click". Press the [BAND] key until you get to VHF. Working the menu system For a complete reference on available menu items and parameters, see Appendix B, Menu definitions. In a typical Amateur radio setup the following settings would be recommended: Set bandwidth to Wide (menu items 5).Turn DCS and CTCSS off (menu items 10 through 13).Turn ANI, DTMBFST, S-CODE, PTT-ID off and PTT-LT to Oms (menu items 35 through 37).Turn roger beep (ROGER) off (menu items 39). 15 ANI-ID - Automatic Number ID This can only be set via Computer Linked programming. See Table C.2, "CTCSS Frequencies" for a complete reference of CTCSS sub tones. Remember to input any leading zeros when using the numerical keypad. 12 T-DCS - Transmitter DCS Sets the Digital-Coded Squelch(DCS) code for the transmitter. Side key 2 - MONI (Monitor and Flash- light) Press [MONI] momentarily to turn on the LED flashlight. Batteries do not belong in your trash can! Prolonging the life of your battery Only charge batteries in normal room temperatures. Make sure it's the same code as 9.that you entered for receiver DCS.Press [MENU] to confirm and save.Press [MENU] to exit the menu system. Part I. Do not over-tighten your antenna to avoid damage to the connectors. When installing the antenna, don't grip it by the top. 7. In the Program menu, select Write to radio and the Write Data to Radio window will open. The former method is cheaper to implement and far more common than the latter. Channel Information window. 22 MDF-B - Channel Mode B Display Sets the display mode for the lower display. Chapter 9. Preferably inside your jacket or in a similar location in order to keep the battery warm. Dust can interfere with the contacts on the battery. see Chapter 4, Working the menu system for details on how to navigate the menu. Some times it takes the Baofeng software more than one try to connect to your radio. The A, B, C and D codes are located in the [MENU], [UP], [DOWN] and [EXIT] keys respectively. Power-on message can only be set via computer link, see the section called "Com- puter programming" for details on how to set up a link with your computer. To find out more on how to program channels see Chapter 10, Programming. Press [EXIT] to exit the menu. Programming Memory channels are an easy way to store commonly used frequencies so that they can easily be retrieved at a later date. 7. Click the Write button. The [Scan, top right below EXIT] to exit the menu. Sharing asterisk/star key] and [Lock, on the bottom right, sharing Pound/Hash key] keys on the other hand have actual secondary functions, scan and keypad lock that locks out all keys except for the three side keys. Once you have channels programmed and ready, you can use the [UP] and [DOWN]keys to navigate between channels. To enable or disable the keypad lock, press and hold the Lock key for about two seconds. In two-way radio systems, DTMF is most commonly used for automation systems and remote control. This behaviour can be highly inconvenient, especially if you're listening to a frequency you're not allowed to transmit on. Procedure 12.2. Setting ANI settings 1.In the Edit menu, select Optional Features. DCS DCS is set with menus 10 R-DCS and 12 T-DCS. Scanning in broadcast FM will stop as soon as an active station is found, regardless of scanner resume method. (It should be noted that this is not confirmed and pure speculation from the community.) Turning the unit off Turn the volume/power knob counter-clock wise all the way until you hear a "click". Channel Information window, column definitions Channel: Channel Information window, column definitions Channel Information window, column definitions Channel: Channel Information window, column definitions Channel Information window, column definitions Channel: Channel Information window, column definitions Channel Informatio regarding system interoperability, contact the dispatch office with your employer. Use the DIMF-ST drop-down list to select whether to send your personal ANI DIMF Side Tone), the group code (KB DIMF Side Tone), or both (DIMFST + Send ANI DIMFST). The status LED on the radio will flash red indicating it's transmitting data. Once it finds a tone or code in use, it will beep and stop flashing, indicating that a tone or code has been found. Press the [*SCAN] key to exit the menu system If you wish to communicate with a party after finding out what CTCSS or DCS settings they're transmitting with, configure your transmit CTCSS or DCS are the set in the menu system If you wish to communicate with a party after finding out what CTCSS or DCS settings they're transmitting with, configure your transmit CTCSS or DCS are the set in the menu system If you wish to communicate with a party after finding out what CTCSS or DCS are the set in the menu system If you wish to communicate with a party after finding out what CTCSS or DCS are the set in the menu system If you wish to communicate with a party after finding out what CTCSS or DCS are the set in the menu system If you wish to communicate with a party after finding out what CTCSS or DCS are the set in the menu system If you wish to communicate with a party after finding out what CTCSS or DCS are the set in the menu system If you wish to communicate with a party after finding out what CTCSS or DCS are the set in the menu system If you wish to communicate with a party after finding out what CTCSS or DCS are the set in the menu system If you wish to communicate with a party after finding out what CTCSS or DCS are the set in th according with what the scanner set for your receive CTCSS or DCS. A common example would be in amateur radio repeaters where some repeaters are activated by sending out a DTMF sequence (usually a simple 3.1. Entering the frequency 145.6875 MHz on display A 1. See Table C.1, "DCS Codes" for a complete reference of DCS codes and their corresponding numerical value. Selective calling Some times when you're working with larger groups of people using the same channel, things can get very crowded, very fast. The solvents in the glue may cause damage to the battery casing. Basic Use Power and volume Before we turn the power on, make sure you have attached the battery and antenna as described in Chapter 1, Initial setup. 8 BEEP - Keypad Beep When enabled your radio will emit an audible tone at every key press. No further configuration required to use this feature. Procedure 5.1. Setting scanner mode Press the [MENU] key to enter the menu.Enter [1STEP] [8BEEP] on your numeric keypad to come to scanner mode.Press the [MENU] key to select.Use the [Up] and [Down] keys to select scanning mode.Press the [EXIT] key to confirm and save.Press the [MENU] key to confirm and save.Press the [Down] keys to select scanning mode.Press the [MENU] key to select.Use the [MENU] key to select scanning mode.Press the [MENU] key to confirm and save.Press the [MENU] key to select scanning mode.Press the [MENU] key to [*SCAN] and [POUND/UNLOCK], keys correspond to the matching DTMF codes as you would expect. Commercial Radio Setup ... Amateur Radio Setup Preface Lennart Lidberg November 10th, 2012. Display The LCD on the Baofeng UV-SR is backlit by multi-colour LEDs, the colour of which can be pre-set from the menu system into a variety of colours. If you're experiencing problems making a connection to the repeater, check your settings and/or go through the procedure again. Ona successful write sequence the radio will start flashing green indicating that it is receiving data. The Baofeng UV-5R uses DTMF signalling for it's ANI implementation. To avoid severe capacity degradation of your battery while in long time storage, please cycle the battery at least every six(6) months. The Channel Information window in the Baofeng software features a simple and easy to use spreadsheet style interface. Belt clip At the back of the radio there are two parallel screws mounted above the battery, remove these and thread them through the holes on the belt clip as you screw them back into the radio body. Attaching the programming cable Before attaching the cable, make sure your radio is turned off. 9 TOT - Transmission Time-out-Timer Transmission times out after set time. and open up the Baofeng programming software, see the section called "Computer programming" for details. 1 STEP - Frequency step Selects the step in frequency step. If your connection fails, just try to read or write again. If it continues to fail, check the connection of your cable and that you've configured your port properly in the programming software. To turn CTCSS sub-tone frequency. Another momentary press turns the broadcast FM receiver off. 3 SAVE - Battery Save Sampling ratio of the Receiver to acknowledge a signal 4 VOX – Voice Operated TX Adjusts the sensitivity of the VOX feature, if enabled. A cycle consists of fully charging it again. To set it to off, enter code 000. To change the language to English, go to the second rightmost menu. The rice will absorb any remaining moisture in the battery. This method is only effective against minor splashes (light rain for instance). Contact your local regulatory body for further information on what laws, rules and regulatory body for further information on what laws, duplex channel in VFO mode on the upper dis- play, as described in Chapter 11, Repeaters, and that you're still in VFO mode. There is a high probability that I will further refine the book's layout and design as well. Carrier operation In Carrier operation In Carrier operation (CO) mode. There is a high probability that I will further refine the book's layout and design as well. resumes scanning. Getting started Part one covers the basic setup and use of your hand-held two-way transceiver. Please excuse the crudity of this model. Search operation In Search Operation (SE) mode, the scanner stops when it detects a signal. CHIRP will therefore have to wait for the revised edition of the book, which in turn will have to wait for me to get CHIRP working. Tone Scanning In frequencies, and bcs codes on active frequencies, see Table C.2, "CTCSS Frequencies" in Appendix C, Technical specifications. The status LED on the radio will flash green indicating it's receiving data. Chapter 2: Getting to know your radio Antenna, see the section called "Assembly" for details.Power / Volume knob, usage discussed in the section called "Making a call". Monitor keyKeypadSpeaker and microphoneAccessory jackVFO/MR mode keyStatus LEDA/B select keyBand select Frequency (VFO) mode, select your desired receive frequency using the numerical keypad. Channel name can only be set via Computer. You cannot set DIMFST while in channel/memory mode. Defaults to ON.SigCode: Signal Code, group ID for the channel. See Chapter 5, Scanning for details. Once aligned with the guide-rails, slide the battery upward until you hear a click as the battery locks in place. By rounding 145.6875 up to 145.6880 MHz. Enter[6 ABR] [8 DEEP] [8 DEEP] [8 DEEP] [8 DEEP] [8 DEEP] [8 DEEP] [9 nthe numeric keypad, if all went well the display should look something like this: Figure 3.3. Successful frequency input Just because you can program in a channel does not mean you're automatically authorized to use that frequency. Transmitting on frequencies you're not authorized to operate on is illegal, and in most jurisdictions a serious offence. CTCSS is set with menus 11 R-CTCS and 13 T-CTCS. Procedure 6.2. Locking the Dual Watch transmit channel Press the [MENU] key to enter the menu. Enter [3SVAE] [4VOX] on the numeric keypad to get to TDR-AB.Press [MENU] to select.Use the [UP] and [DOWN] keys to select A (upper) or B (lower) displays.Press the [EXIT] key to confirm.Press the [EXIT] key to confirm.Press the [EXIT] key to exit the menu. Technical General specifications Specifications Specifications Specifications Specifications and the select A (upper) or B (lower) displays.Press the [EXIT] key to exit the menu. Technical General specifications and the select A (upper) or B (lower) displays.Press the [EXIT] key to exit the menu. Technical General specifications and the select A (upper) or B (lower) displays.Press the [EXIT] key to exit the menu. Technical General specifications and the select A (upper) or B (lower) displays.Press the [EXIT] key to exit the menu. Technical General specifications and the select A (upper) or B (lower) displays.Press the [EXIT] key to exit the menu. Technical General specifications and the select A (upper) or B (lower) displays.Press the [EXIT] key to exit the menu. Technical General specifications are specifications and the select A (upper) or B (lower) displays.Press the [EXIT] key to exit the menu. Technical General specifications are specifications a 60dBAudio Output: 1000mWAdjacent channel selectivity 65/60dB DCS Table C.2 CTCSS Frequencies Colophon All linework drawings were recreated in Inkspace [using the original Baofeng UV-5R here. Every radio in your working group is configured the same way and any radio will make contact with every other radio in the group. Repeaters A radio repeater is an automated transceiver in a fixed location. To enable the scanner, press and hold the [* SCAN] key for about two seconds. The parameters also have a number associated with them, see Appendix B, Menu defi- nitions for details. After reading around on their website I stumbled upon their design guideline documents, and in turn stumbled onto DocBook [- an entire format designed for writing documentation - perfect. Channel selection There are two modes of operation. Do not use any form of glue to fix the screws on the battery clip. —Dr. Emmet Brown This manual started out as a bit of a joke between friends, saying that "Someone should write a better manual!". Table 1.1. Charger LED codes The charger and battery on its own! Practical if you have two batteries. Other than the addition of CHIRP and inclusion of any errata from this addition of CHIRP and inclusion of a practical if you have two batteries. edition, the revised edition will include the Glossary and Index sections that were cut due to time concerns (unfortunately I didn't have the foresight to index things as I was still learning about how to use DocBook). For further information please contact your local vendor or dealer. Grip by the base and turn. If you use an external antenna, make sure the SWR is about 1.5:1 or lower to avoid damage to the transceiver. Do not hold the antenna with your hand or wrap the outside of it to avoid bad operation of the transceiver. Never transmit without an antenna. Every radio is programmed with a unique ID code. Menu and function keys The [MENU] key, used to enter the menu and confirm menu options. When listening to broadcast FM a momentary press will start the scanning. Before we start adding channels, go to Communication to select the port your cable is attached to. 34 TDR-AB - Transmit selection while in Dual Watch mode If enabled, this will force the radio to transmit on the selected frequency when in Dual Watch mode. Other Rights — In no way are any of the following rights affected by the license: Your fair dealing or fair use rights, or other applicable copyright exceptions and limitations; The author's moral rights, in most cases the default values tend to be the appropriate ones. You can in theory edit any field in a row at any time, however the software seems to work best when you work from left to right. 20 PTT-LT - Signal code sending delay. Example: To get 300 seconds, take (300-15) /15 to get 19 10 R-DCS - Receiver DCS Digital-Coded Squelch(DCS) will block out any signal that isn't sent with a matching DCS code. Status LED has a very simple and traditional design. Follow these instructions to set your radio to Narrowband mode: Press the [VFO/MR] key to enter frequency mode. Pres [UP] and [DOWN] keys to select between Wide and Narrow("Narr"). Press [MENU] to confirm and savePress [EXIT] to exit the menu. How you use this kind of repeater is by setting the receive frequency of your radio to the input frequency of the repeater. To add a new channel, go to the row for the channel numbers if you so desire) and follow these steps: Procedure 10.1. Adding a channel Select the Band.Click in the RX Frequency field next to it and enter your receive frequency.Click on the TX Frequency field, and the rest of the row should fill in automat- ically with default values (except for CH-Name which will be kept blank). If you're adding all the extra information and features needed for the channel based on your requirements. When you're done you can add an optional six character Channel Name in the CH— Name field. To find out what other channels and features needed, please contact your employer. If the Channel Information window doesn't show automatically, you can bring it up by going to Edit —-> Channel Information. Chapter 4, Working the menu systemChapter 5, ScanningChapter 6, Dual WatchChapter 7, DTMFChapter 8, Selective callingChapter 9, CustomizationChapter 10, Programming Chapter 4. Be careful not to turn it too far, as you may inadvertently turn your radio off. The row should now erase itself. 2 TXP - Transmit Power is only settable in Frequency(VFO) Mode. Any communications made while using these features will still be heard by anyone not employing filtering options of their own. Also, you cannot change the CTCSS or DCS settings while in memory (MR) mode. In some versions of the firmware your options may be restricted to ON and OFF. Menu definitions See Chapter 4, Working the menu system for more info about using the menu-system. A learning exercise using essen- tially defaults from the DocBookXSL stylesheet collection. 5. Procedure 9.3. Setting the power on Message", there are two text fields representing the two lines on your LCD. Information regarding how to set up CTCSS and DCS can be found in Chapter 8, Selective calling. VFO / MR -mode key Pressing [VFO/MR] switches between Frequency (VFO) mode, and Channel or Memory (MR) mode. To turn the volume/power knob counter-clock-wise. Use the [VFO/MR] key to switch to Frequency (VFO) mode 2. This can be very handy, as this enables you to use a small low powered handheld two-way transceiver such as the Baofeng UV-SR to reach great distances. If your radio is set to Memory (MR) mode, the following menu items will not take any effect:STEP, TXP, W/N, CTCSS, DCS, S-CODE, PTT-ID, BCL, SFT-D, OFFSET, MEM-CH, BAND Basic use Procedure 4.1. Using the menu with arrow keys Press the (MENU) keys to select the desired menu items. Once you find the desired menu items parameter.When you've selected the parameter you want to set for a given menu item; To confirm your selection, press [EXIT] and it will reset that menu item and bring you out of the menu at any time, press the [EXIT] key. The (Chinese) Radio Documentation Project Lennart Lidberg Baofeng UV-5R: The (Chinese) Radio Documentation Project: by Lennart Lidberg This work is licensed under the Creative Commons Attribution-ShareAlike 3.0 Unported License. In the USA, FCC part 90 radios are mandated to switch over to Narrowband communication by January 1st 2013. Message can only be set via computer. When you're done adding and editing channels you will want to write them to the radio. 3. Click the Read button. Note that the ANI and S-CODE IDs can only be set from a computer. If you see a dialogue box popping up stating that you have a connection failure close the dialogue box and click read or write again. Please visit for more information. However, Frequency (VFO) mode is very handy for experimenta- tion out in the field. If you have the keypad lock enabled on your radio, you can still send a 1750Hz tone the regular way without having to unlock your radio. To enter a CTCSS tone on the numerical keypad, enter its frequency directly rather than the numerical code. Due to the way the Baofeng UV-SR is constructed, whenever one of the A and B channels goes active, it will default to transmit on that channel. This is also a good way to test the connection of the programming cable. Enter the desired text in the fields. Click Write to write your changes to the radio. Some columns are obvious, others aren't as transparent as to what their purpose is. 8. Click the Write button. The main display The transceiver is fitted with a seven character by two line dot-matrix alphanumeric LCD, with auxiliary icons for miscellaneous features. Chapter 10. Store your batteries in a cool and dry place, never above normal room temperatures. Procedure 11.1. Repeater setup Set the radio to Frequency (VFO) mode with the [VFO/MR] keys, or by entering it directly on the numerical keypad. Press the [MENU] key to enter the menu. Enter [2TXP] [6ABR] on the numeric keypad to get to frequency offset. Press [MENU] key to select. Use the [UP] and [DOWN] keys and the numerical keypad to enter the specified frequency offset. Chapter 3. 16 DTMFST - DTMF tone of transmit code Selects if you should send your S-CODE(DT) or ANI code with the PTT-ID. 3.Go to the Program menu, select Read from radio and the Read Data From Radio window will open. You cannot set PTT-ID while in channel/memory mode. 1ANI/PTT-ID and channel name can only be set from a computer. When in Frequency (VFO) mode it will scan in steps according to your set frequency step. Charging and battery maintenance For optimum battery efficiency, cycle the battery at least three times before regular use. Luckily there is a menu option available to lock the transmitter to one of the A and B channels. 6.In the Program menu, select Write to radio and the Write Data to Radio window will open. In Channel (MR) mode it will scan your channels. Enter [1STEP] [4VOX] [5WN] on the numeric keypad, it should look something like this: Figure 3.2. Half-entered frequency input. Meaning all commercial users. 5. Locate the box named ANI code and enter your personal ID number that you've been given from your dispatch office into the text field. To create a new channel, start by switching your radio to Frequency (VFO) mode using the [VFO/MR] key. Whether you're a commercial (business or government) user or an amateur radio operator, chances are you'll be dealing with a repeater system sooner or later. * RESET>ALL resets everything with the exception of: The Power On MessageThe VIP software band limitsOn some firmware it may reset language to Chinese Appendix C. Accessory jack The accessory jac on the Baofeng UV-5R is a Kenwood compatible two(2)-pin design. Battery Before attaching or removing the battery make sure your radio is turned off by turning the power/volume knob all the way counter-clockwise. 4. In the lower left corner there's a nameless box with a number of drop-down lists, including but not limited to DTMF-ST and PTT ID. Part II. Advanced topics Part two covers the more advanced topics, such as setup of repeater offset and programming via computer link. You may now turn on your radio. 4. Click the Read button. So how do you get the fourth and final digit 5 in there? All brand names and trademarks mentioned in this document is the property of their respective holders. Each press will increment or decrement your frequency according to the frequency step you've set your transceiver to. This will open up the squelch so you can listen to the unfiltered signal. The following is a list of recommended GMRS channels suitable for Airsoft games, or other recreational military simulations: 462.550 MHz (channel 15) 462.575 MHz (channel 16) 462.600 MHz (channel 17) 462.625 MHz (channel 17) 462.625 MHz (channel 18) 462.725 MHz (channel 18) 462. erase it and click on another field. Many thanks to all of those who donated to make this possible. The fit isn't always perfect on cheap cables and connectors and may require a bit of force to wiggle them in completely. If your employer has a dispatch system that requires your radio to identify via ANI, please see Chapter 12, Automatic Number Identification for detailed instructions on how to set that up on your radio. Memory mode is sometimes also referred to as Channel memory you must be in Frequency (VFO) mode. To attach accessories such as headsets, speaker-mics, or programming cables, align the connectors and push in fully. Application Specific Setup Commercial Radio Setup PLMR users in the United States are mandated to move to 12.5 kHz narrowband communication in the 150-174 MHz VHF and 421-512MHz UHF bands by January 1, 2013. At this point the radio will start beeping periodically as well as flash the backlight of the display, indicating that you need to change your battery or put your radio in the charger. Certain functions are not available while in dual watch mode: You cannot use the [Pound/Lock] key to switch between high and low transmit power in channels. A repeater takes one signal and relays it, usually after amplifying it by orders of magnitude. 1750Hz Tone-burst To send out a 1750Hz tone-burst, press the [BAND] key while holding down the PTT. For more information see the section called "11 R-CTCS - Transmitter CTCSS" and the section called "13 T-CTCS - Transmitter CTCSS" in Appendix B, Menu definitions. When all data blocks have been sent from the computer the radio will restart itself. 28 DEL-CH - Delete a memory channel at the specified channel number. If you notice a considerably shorter operating time with your radio, please consider purchasing a new battery. Battery performance will be reduced in temperatures below freezing. Press the [MENU] key to enter the menu.Enter [2TXP] [7TDR] on the numerical keypad to get to MEM—CH.Press [MENU] to select.Use the [UP] and [DOWN] keys to select a memory channel, or enter it directly on the numerical keypad.Press the [EXIT]key to exit the menu. [warning] Make sure the radio is off before attaching any accessories. Storage Fully charge your battery before long time storage in order to prevent damage from over- discharge. in Appendix B, Menu definitions for details. A/B select key The [A/B]key switches between A (upper) and B (lower) displays. In general, there are two forms of selective calling in two-way radio systems: Group calling, and individ- ual calling. The EXIT key is used to exit menus and cancel menu options. 21 MDF-A - Channel Mode A Display mode for the upper display. The menu is also organized in such a way that the ten most common functions are on top, and as can be seen in Figure 2.3, "Baofeng UV-5R, keypad", these are also printed on the keypad so you don't have to remember them all. For details see Chapter 8, Selective calling. For a 2MHz shift, enter [0SQL] [2TXP]. Battery Maintenance The battery for your radio comes uncharged from the factory, please let it charge for at least Four to five hours before you start using your radio. 5 WN - Wideband / Narrowband Sets maximum band deviation. Press [Call] again to turn it off. Side key 1 - CALL (Broadcast FM and Alarm) Press [Call] momentarily to start the broadcast FM receiver. When you transmit it turns red, and it's off in standby. Make sure it's the same frequency as that you entered for receiver CTCSS.Press [MENU] to confirm and save.Press [MENU] to exit the menu system. Delay before sending the PTT-ID. Press any key to exit scanning mode. This will not allow you to receive two frequencies in parallel. Procedure 8.2. DCS setup how-to Press the [MENU] to select. Enter desired DCS code on the numeric keypad. Press [MENU] to confirm and save. Enter [1STEP] [2TXP] on the numeric keypad to go to transmitter DCS. Press [MENU] to select. Enter desired DCS code on the numeric keypad. I didn't have time to build it to scale or paint it. This is known as Automatic Number Identification, or sometimes PTT-ID since the radio sends a data burst containing the ID code at the beginning or end of a transmission. Press [A/B] until the [Up arrow] appears next to the upper display (display A). The slave will at that same time flash green to indicate it's receiving data. When LEDs turn off, the radio's will restart and the cloning operation is completed. Assembly Before the radio is ready for use we need to attach the antenna and battery pack, as well as charge the battery. To mount your antenna (Female SMA connector), align the two connectors and turn clockwise until it stops. Initial setup What's in the box This transceiver comes shipped with the following items in the box: Radio bodyLithium-Ion battery packAntennaDesk charger (With accompanying wall-wart)Optional belt clipOptional wrist-strap Items included may vary depending on country of purchase. Press and hold [Call] to activate the alarm function. With the understanding that: Waiver — Any of the above conditions can be waived if you get permission from the copyright holder. If you have channels programmed with Transmit power set to Low, you can use the key [Pound/Lock] to momentarily switch over to high power if you're having trouble getting through. For those not living in the USA, please contact your local regulatory body in charge of the radio spectrum to see what your options are. Regarding CHIRP and the upcoming revised edition Originally I intended to include a whole section in the programming chapter dedicated to the free and open source programming tool CHRIP [, but unfortunately I couldn't for the life of me get it playing with my hardware, despite trying three entirely different setups. 31 TX-LED – Display back-light colour, Transmit Sets the back-light colour while transmitting a setup s signal. Switch to Channel (MR) mode with the [VFO/MR] key to test your new channel. The display should read somewhere be- tween 136 and 174 MHz. 4. For details see the section called "29 WT-LED - Display back-light colour, Standby" and onward in Appendix B, Menu definitions. Ultimately which mode you end up using will depend entirely on your use case. MilSim: Airsoft and Paintball If you live in the USA, it is highly recommended that you and your team get yourselves GMRS licenses to use with your radios. Your radio up for ANI. However, despite not having the polish of a professional publication, the content should be the best it can be. A soaked radio may very well be beyond repair. Customization of both the power-on message (via com- puter link only), and the backlight colour during the three states of the transceiver (Trans- mit, Receive and Standby). 19 PTT-ID - When to send the PTT-ID Sets when to send the PTT-ID (ANI and/or S-CODE) code(s). You are free: To Share — to copy, distribute and transmit the work To make commercial use of the work To make commercial use of the work Under the following conditions: Attribute the work in the manner specified by the author or licensor (but not in any way that suggests that they endorse you or your use of the work). 3. Using these features does NOT mean that others won't be able to listen in on your transmissions. They only provide a method to filter out unwanted incoming transmissions. Usually mounted high up on hill tops or on tall buildings, but sometimes they operate within buildings for internal use. Even though the software has eight(8) character wide text fields for the power-on message, be aware that the display on the UV-5R can only display a maximum of seven(7) characters. Make sure that menu item 38 is set to MSG, otherwise your message wont be dis- played. Please remove the radio at that time to avoid over-charging your battery. 32 AL-MOD - Alarm Mode 33 BAND - Band Selection Sets the current operating band. To use the numeric keypad for input, use the following formula: (T-15)/15 = X, where T is the time in seconds that you want and X is a two digit code on your keypad. If your battery has become wet, remove it from the radio, wipe it dry with a towel and put it in a plastic bag with a handful of dry rice. Band key The [BAND]key switches between VHF and UHF bands when in Frequency (VFO) mode. 40 RESET - Restore defaults, with some exceptions. 2.Go to the Program menu, select Read from radio and the Read Data From Radio window will open. To find out what settings to use to use your local repeater, ask your employer or someone at your local IARU member organization for details. When enabled the channel is included in scan- ning mode. That way you can charge one battery while still using your radio. Group calling, as the name suggest, is a one-to-many form of communication. To minimize this problem, several methods of blocking out unwanted transmissions on your frequency has developed. 0 SQL - Squelch Level Selects the squelch noise threshold. Chapter 11, Repeaters Chapter 12, Automatic Number Identification Chapter 13, Application Specific Setup Chapter 11, Defaults to OFF.CTCSS/DCS Enc: Transmitter CTCSS or DCS. To save frequencies to channel memory you must be on the A display. Figure 2.4. Typical 2 pin Kenwood headset configuration. To write your information to the radio, goto Program -> Write to radio and click Write. This basically implies turning all the fancy features that you typically might need for a commercial setup off. The following instructions assume that you've already established a link using the Baofeng software from a computer running. To scan for CTCSS or DCS on active channels, follow these steps: Procedure 5.2. Tone scanning Press the [MENU] key to enter the menu.Enter one of the following on the numeric keypad: [1STEP] [0QSL] to scan for DCS codes, or [1STEP] [1STEP] to scan for CTCSS sub-tones. Press the [*SCAN] key momentarily, CT or DCS will start flashing in the display as the radio starts scanning. Never having written any real documentation before (aside from short how-to documents online), I turned to the masters of documentation themselves for inspiration; O'Reilly Media and the Safari books. Use only batteries to fire or intense heat. Dispose of batteries in accordance with local recycling regulations. 2. In the Edit menu, select DIME. Defaults to OFF.Scan_Add: Add to scanner list. Amateur Radio operators, who often need very specific radio implementation, Amateur radio operators tend to need the broadest possible settings in order to be compatible with as many systems as possible. 29 WT-LED - Display back-light colour Standby Sets the back-light colour in standby. The Kenwood 2-pin connector has one 3.5mm TRS plug, and one 2.5mm TS plug, and (reverse function not available while in Dual Watch mode). This is indicated in the LCD on the radio with a R in the top row, next to the + and — for the offset direction. In other momentary press turns the flashlight off. By using the monitor function, enabled from the [MONI] key below the PTT, you can more easily adjust your volume by adjusting it to the un-squelched static. Removal To remove the battery downward. To change the time the backlight stays on for your LCD, follow these steps: Procedure 9.2. Setting backlight time-out Press [MENU] key to select. Use the [UP] and [DOWN] keys to pick the desired colour. Press [MENU] to confirm and save. Press [EXIT] to exit the menu. Chapter 5. For a complete list of available DCS codes, see Table C.1, "DCS Codes" in Appendix C, Technical specifications. If you have the keypad lock enabled on your radio, you can still send DTMF tones the regular way without having to unlock your radio. You can either have one receiver in your radio and flip-flop between two frequencies at a fixed interval (known as Dual Watch), or you can equip a radio with two receivers (known as Dual Receive or Dual VFO). The lower the setting, the louder your voice have to be in order to engage the transmitter. desired frequency to store to memory. Holding down the [3 save] key while turning on the radio provides you with the firmware version. Procedure 4.2. Using the menu item. To enter the menu item, press the [MENU] key. For entering the desired parameter you have two options: Use the arrow keys as we did in the previous section; OrUse the numerical keypad to enter the numerical short-cut code. And just as in the previous section; OrUse the numerical keypad to enter [EXIT] and it will reset that menu item and bring you out of the menu entirely. To exit out of the menu at any time, press the [EXIT] key. Switch to Channel (MR) mode with the [VFO/VR] key to test your new channel. 6. Check the Press PTT to Send box if you want to transmit your ID before you speak, or; check the Release PTT to Send box if you want to transmit your ID after you speak. When charging a battery attached to the radio, turn the radio off for a faster charge. Do not unplug the power to the charge a wet battery. Batteries wear out over time. Chapter 7 DTMF is an in-band signalling method using dual sinusoidal signals for any given code. Automatic Number Identification In dispatch environments it's common to have a system in place that will allow radios to automatically identify themselves to the dispatcher. The numeric keys have their secondary function printed on them (in reality it's rather menu short-cuts, more on that in Chapter 4, Working the menu system). If you get caught transmitting without a license you can and will get fined, and in worst case sent to jail. However, it is legal in most jurisdictions to listen. 24 AUTOLK - Automatic Keypad will automatically lock after eight(8) seconds of inactivity. The [UP] and [DOWN] keys are used to navigate through the menu as well as select channels and step up or down in frequency (VFO) mode in Frequency (DOWN] keys. Now, for the final four digits. There is no exam involved and any legal resident of the US over the age of 18 can apply for a license with kilohertz accuracy. This does only affect the radio when in Frequency (VFO) Mode. Share Alike — If you alter, transform, or build upon this work, you may distribute the resulting work only under the same or similar license to this document shares no affiliation with any of the brands and trademarks mentioned within this document. Charging Follow these steps to hook up and use the charger: Plug the DC connector of the power adaptor into the charger. Make sure the radio is making contact with the charger. Procedure 10.2. Cloning radios Attach your cloning cable in much the same way you attach a programming cable, except for where you put the other end into another radio's accessory port rather than a computer. Turn on the master radio, (the radio you want to clone to). Turn on the master radio, (the radio you want to clone from) while holding down the [MONI] key. The master will show COP ING in the display, and if makes a successful connection to the slave it will start flashing red to indicate it's transmitting data. At the time of writing the license is valid for five years. The Baofeng UV-SSR does not feature any form of individual calling. 17 S-CODE - Signal Code S--CODE sets your transceiver to one of the fifteen(15) group ID codes. These can be assigned on channel by channel by channel by channel by channel basis in the Channel Information, see the section called "Baofeng software" for further details. If you use group ID codes in addition to, or instead of personal ID codes, you can enter up to 15 of them in the list to the left in the DIMF Encode/Decode window. Computer programming This section assumes you know where to get a hold of your software and that you know how to find out what port your programming cable is hooked up to. Individual calling, some times also known as paging, is a one-to-one form of communi- cation. Chapter 12. To see how this is done with the Baofeng UV-5R, see the section called "1750Hz Tone-burst".

04/05/2022 · For operating a UHF radio, there are some specific things that you should remember. Firstly, choose a radio tuned to public UHF frequencies. Despite having a huge radio spectrum from 300 MHz to 3GHz, only a portion of it is available for public use, regularly from 460 Mhz to 480 MHz. Secondly, turn on your unit and choose a channel. BaoFeng UV-5R Ham Radio BaoFeng Radio with Extra 1800mAh Battery and TIDRADIO 771 Antenna 144-148Mhz/420-450Mhz Two Way Radio Includes Full Kit BaoFeng Walkie Talkie 4.4 out of 5 stars 495 1 offer from \$43.99 baofeng uv-5r をゲット! 2012年11月15日、中国滞在中に通販で baofeng uv-5r を買いました。 実売価格は1台185元 (日本円換算で 2,313円) とビックリ価格だったので、 17/10/2013 · Here are a few notes to get you started on your UV5R, and I hope you find these useful. I purchased my UV5R over the internet from a UK supplier. It came complete with the USB drivers CD and the programming cable. I then had to download the programming software. I went to the Baofeng web site for this. It downloaded with no problem. 1 x BaoFeng UV-5R Two-Way Radio 1 x 7.4V 1800mAh Li-ion Battery Pack 1 x Antenna 1 x Earphone Mic/Headset 1 x Dest Clip 1 x Hand Strap 1 x ENG Manual 1 x Adapter 1 x Dest Cor C 10/2022 · IDM Members' meetings for 2022 will be held from 12h45 to 14h30.A zoom link or venue to be sent out before the time. Wednesday 10 August; Wednesday 09 November baofeng uv-5r をfット! 2012年11月15日、中国滞在中に通販で baofeng uv-5r をfット! 2012年11月15日、中国滞在中に通販で baofeng UV-5R may be difficult to program due to the lack of Baofeng uv-5r をfット! 2012年11月15日、中国滞在中に通販で baofeng uv-5r をfット! 2012年11月15日、中国滞在中に通販で baofeng uv-5r をfット! 2012年11月15日、中国滞在 uv-5r をfット! 2012年11月15日、Hart Hart uv-5r をfッ

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