TID TD-V2 Programming Guide

INTRODUCTION

TID TD-V2 is a UHF radio. It offers 16 channels, you can add or remove channels from scanning list and give channels alphanumeric names via programming with a computer. This Programming Guide will help you get a quick start to program the radio.

*If you have any problem with the TD-V2 radio using or programming, please don't hesitate to contact us via support: walkietalkiesoftware.com. Also visit our Facebook pages (TIDRADIO) for more help.It's always our honor to help.

Contents

1. Frequency Chart

16 Modifiable FRS Two Way Channels (Channels 1-16) - Receive and Transmit.

CH.	Rx Freq.	Tx Freq.	Tx Power	Type of radio
1	462.56250	462.56250	HIGH	FRS
2	462.58750	462.58750	HIGH	FRS
3	462.61250	462.61250	HIGH	FRS
4	462.63750	462.63750	HIGH	FRS
5	462.66250	462.66250	HIGH	FRS
6	462.68750	462.68750	HIGH	FRS
7	462.71250	462.71250	HIGH	FRS
8	462.55000	462.55000	Low	FRS
9	462.57500	462.57500	Low	FRS
10	462.60000	462.60000	Low	FRS
11	462.62500	462.62500	Low	FRS
12	462.65000	462.65000	Low	FRS
13	462.67500	462.67500	Low	FRS
14	462.70000	462.70000	Low	FRS
15	462.72500	462.72500	HIGH	FRS
16	462.56250	462.56250	HIGH	FRS

2.Preparation before Programming

2.1. Computer System Requirements

Manufacture Programming Software Operating System: Windows 7, Windows 8 and Windows 10

CHIRP Programming Software Operating System: Windows 7\8\10, Windows 2000, Mac OS, Linux

2.2. Programming Cable

A.CH340 programming cable - The driver should be installed before programming.

You can search B08QCW5CZJ on Amazon to purchase a CH340 programming cable if you do not have one.
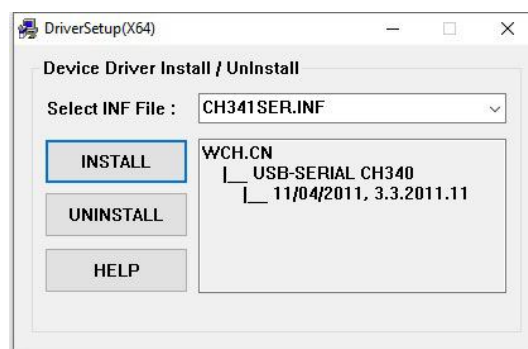
Product link:

https://www.amazon.com/TIDRADIO-Driver-Programming-Portable-Radios/dp/B08QCW5CZJ/ref=sr_1_1?dchild=1&keywords=B08QCW5CZJ&qid=1627973624&sr=8-1

Driver download link:walkietalkiesoftware.com
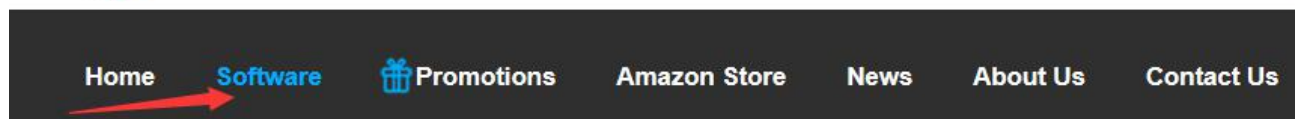
1) Find the corresponding driver of the system.

2) Click and wait for the download.

3) Click install and wait for the installation

B. If you use a FTDI cable, it does not need to be installed with a driver. You can just plug in and use directly.

You can search B08CB5KT5M on Amazon to purchase a FTDI cable if you do not have one.

Product link:

https://www.amazon.com/TIDRADIO-Programming-BaoFeng-Retevis-Radioddity/dp/B08CB5KT5M/ref=sr_1_1?dchild=1&keywords=B08CB5KT5M&qid=16279 73909&sr=8-1

1) If your computer did not automatically install the driver, you will need to update the driver to the latest driver

Download the latest FTDI driver at : https://ftdichip.com/drivers/vcp-drivers/

2.3. Software Download & Install

1) Turn on the computer, check if your computer system meets the requirements.

2) Download the manufacture software on walkietalkiesoftware.com or CHIRP software on https://chirp.danplanet.com/

3) Install the programming software

2.4. Connect your Walkie Talkie with Computer

1) USB programming cable connects with the computer end.

2) Connect the other end of the cable with your walkie talkie.

3) When both ends have been connected, turn on your radio. Make sure it has enough power during the programming procedure.

**ERROR: Failed to Connect to the transceiver (Radio)**

If it says it cannot connect to the radio - this means the cable is working but is not installed correctly into the radio.

Items to Check:
- Radio is turned on
- The cable is FULLY inserted (it can be deceiving but there is a double click)
- Hold the cable into the radio - some radios might not make contact without pressure
- A way to cheat - dampen the pins of the cable before pushing it into the radio. This will give a solid contact

2.5.How to choose your port?

1.Get into "Window Setting", then search "Device Manager".
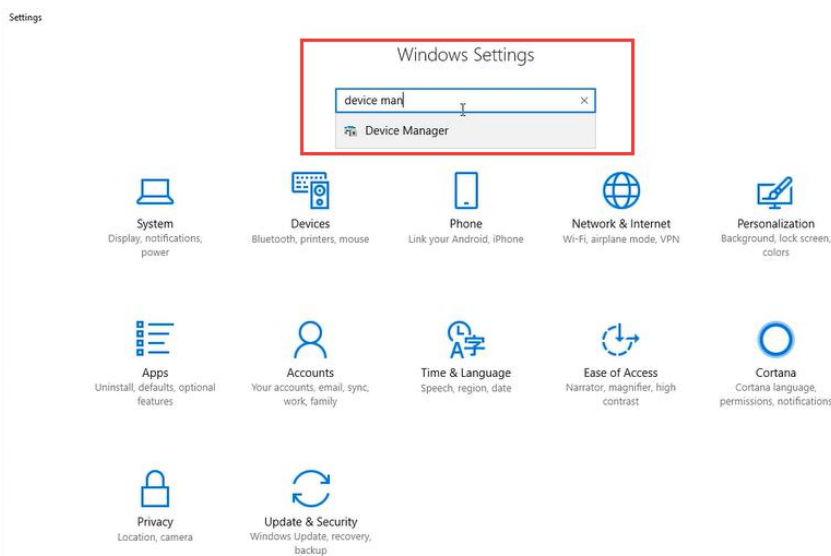
2.Open "Device Manager", and unfold Port (COM & LPT) to check the existing port.
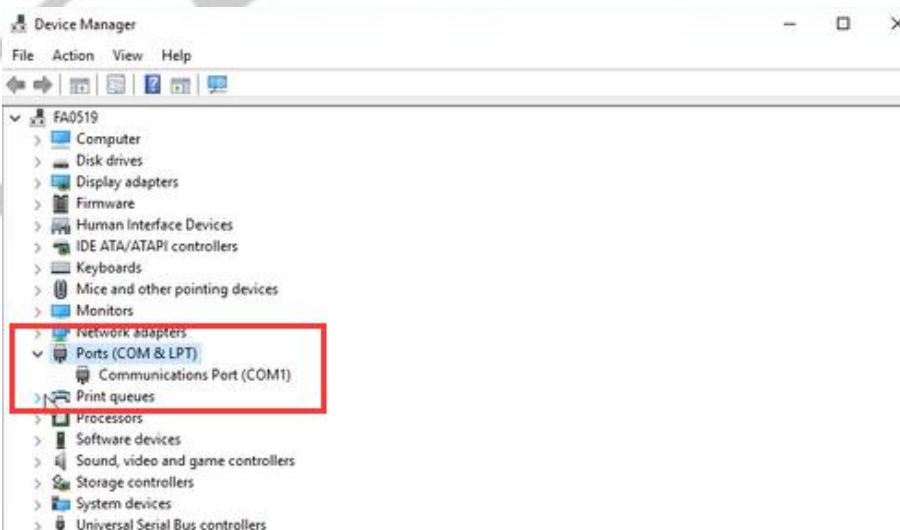
3.CH340 programming cable port is **USB-SERIAL CH340 (COM?)**

4.FTDI programming cable port is **USB Serial Port (COM?)**
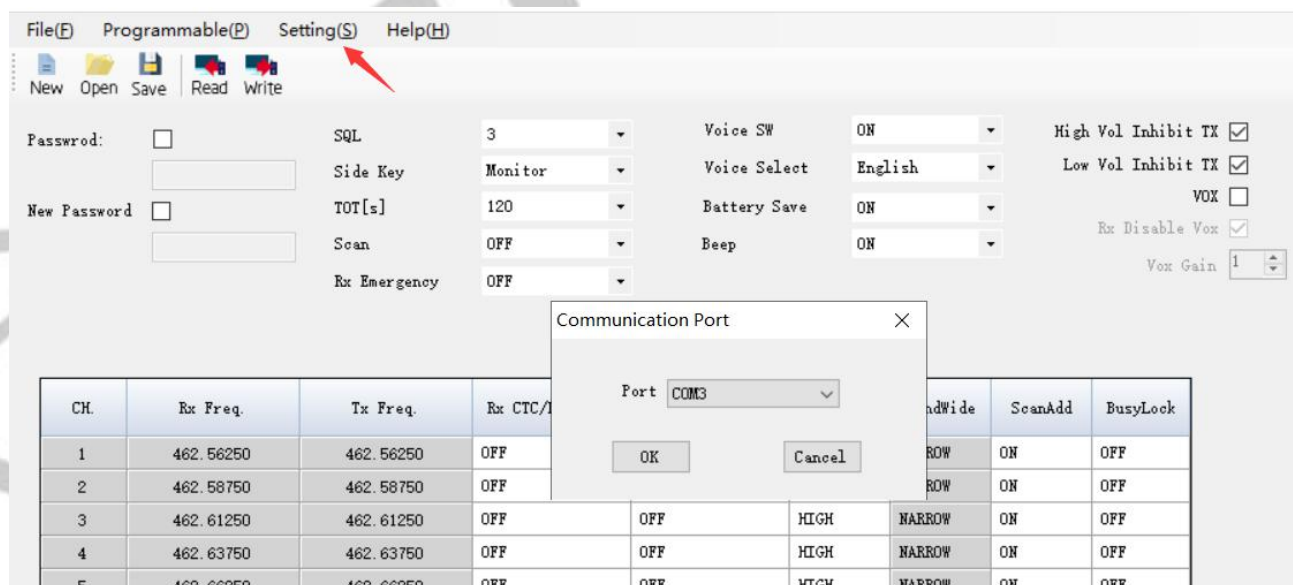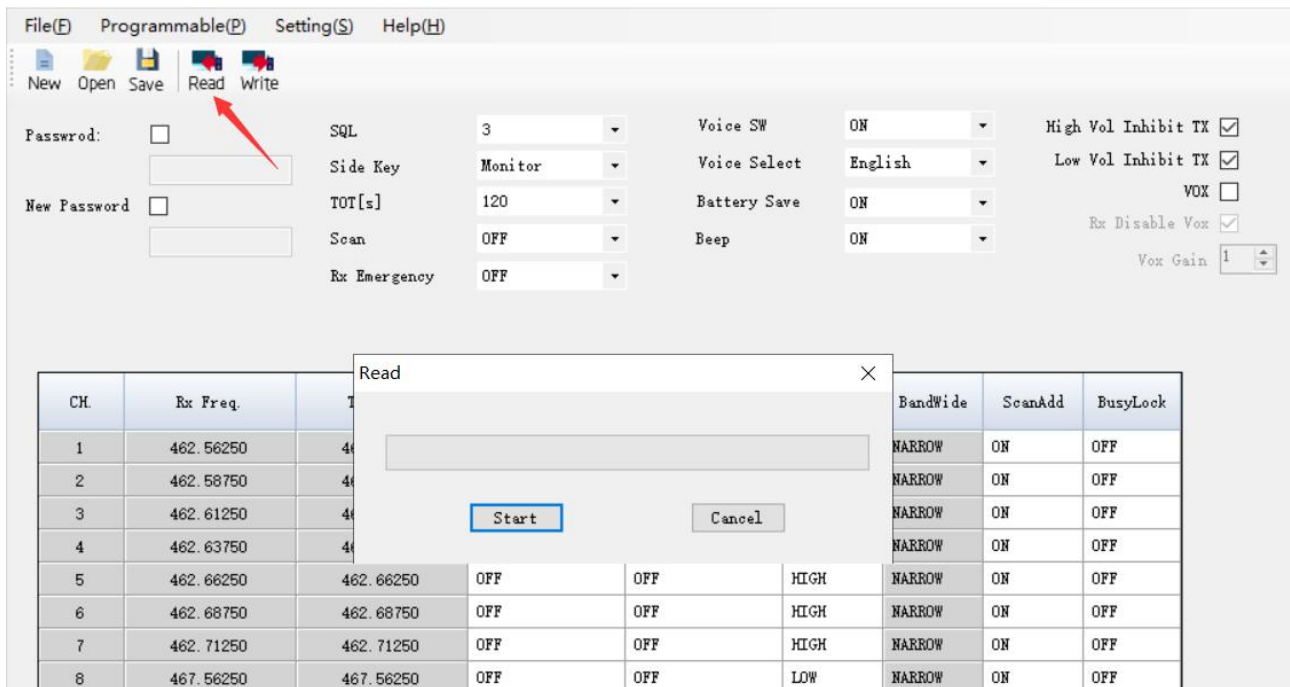

3.TD-V2 Manufacture Software Programming Process

1) Download and open the manufacture software. Click "Setting →
Communication Port" and then Confirm the port the same as the port viewed by
Device Manager, then click the "OK" button.

2) Click the "Read" button, then click "Start" and ready to read the data from your radio.(Make sure the radio is turned on)

3) You will come to the parameter page and adjust the parameters. According to the US FCC rule, FRS radio cannot modify the frequency and bandwide.

CH.	Rx Freq.	Tx Freq.	Rx CTC/DCS Code	Tx CTC/DCS Code	Tx Power	BandWide	ScanAdd	BusyLock
1	462.56250	462.56250	67.0	67.0	HIGH	NARROW	ON	OFF
2	462.58750	462.58750	118.8	118.8	HIGH	NARROW	ON	OFF
3	462.61250	462.61250	127.3	127.3	HIGH	NARROW	ON	OFF
4	462.63750	462.63750	131.8	131.8	HIGH	NARROW	ON	OFF
5	462.66250	462.66250	136.5	136.5	HIGH	NARROW	ON	OFF
6	462.68750	462.68750	141.3	141.3	HIGH	NARROW	ON	OFF
7	462.71250	462.71250	146.2	146.2	HIGH	NARROW	ON	OFF
8	462.55000	462.55000	123.0	123.0	HIGH	NARROW	ON	OFF
9	462.57500	462.57500	D743I	D743I	HIGH	NARROW	ON	OFF
10	462.60000	462.60000	D331I	D331I	HIGH	NARROW	ON	OFF
11	462.62500	462.62500	127.3	127.3	HIGH	NARROW	ON	OFF
12	462.65000	462.65000	D243I	D243I	HIGH	NARROW	ON	OFF
13	462.67500	462.67500	D606N	D606N	HIGH	NARROW	ON	OFF
14	462.70000	462.70000	D731I	D731I	HIGH	NARROW	ON	OFF
15	462.72500	462.72500	136.8	136.8	HIGH	NARROW	ON	OFF
16	462.56250	462.56250	D243N	D243N	HIGH	NARROW	ON	OFF

Channel Information

The TD-V2 radio has 16 channels, you can edit the channel number and channel information according to your needs. The following is an introduction to each term.
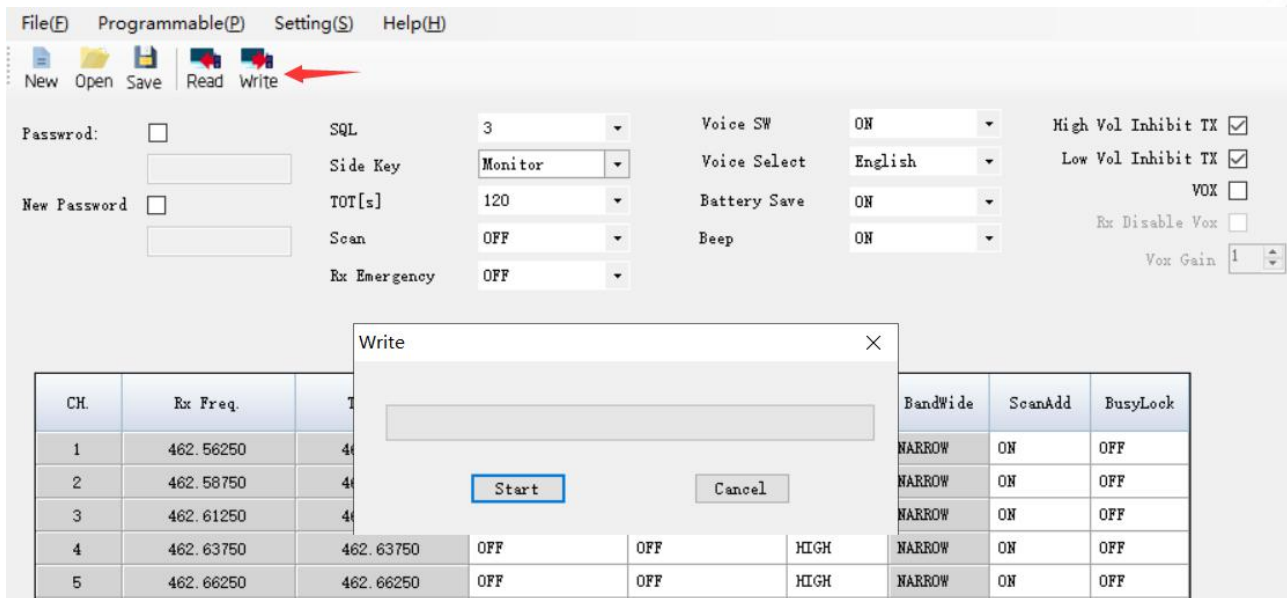
Name	Meaning	Setting	Description
Rx Freq.	Receiving frequency	FRS frequency（Fixed）	
Tx Freq.	Transmitting frequency	FRS frequency（Fixed）	
Rx CTC/DCS Code	Receiving CTCSS/DCS	Refer to the DCS table and CTCSS table in the manual.	Mutes the speaker of the transceiver in the absence of a specific low level digital signal. If the station you are listening to does not transmit this specific signal,you will not hear anything.
Tx CTC/DCS Code	Transmitting CTCSS/DCS	Refer to the DCS table and CTCSS table in the manual.	Transmits a specific low-level digital signal to unlock the squelch of a distant receiver (usually a repeater).
Tx POWER	Transmit power	HIGH/LOW	High power:2W Low power:0.5W
BandWide		Narrow （Fixed）	
ScanAdd		OFF/ON	In the scan mode, whether add the channel to the scan list. **ON**: the channel is added to scan list; **OFF**: the channel cannot be scanned.
BusyLock	Busy Channel Lockout	OFF/ON	**ON:** If the channel is occupied, when you press the [PTT] key on this channel, the radio will make a beep tone and will not transmit any signal. **OFF**: No matter if the channel is occupied, the radio will transmit the signal when you press the [PTT] key.

4) You can adjust the parameters (VOX Function, Squelch, Side Key, Voice Prompt, Scan, etc.)

Basic Setting

Name	Meaning	Settings	Description
SQL	Squelch Level	0-9	Mutes the speaker of the transceiver in the absence of a strong signal. Squelch is either 0 or 1-9 levels. The higher level, the stronger the signal must be to in-mute the speaker.
Side Key	OFF/Monitor/High /Low Power/Alarm		You can customize the function of the Side Key
TOT[s]	Transmission time-out timer	OFF/30-300s	This feature provides a limits transmission time to a programmed value. This will promote battery conservation by not allowing you to make excessively long-time transmissions and in the event of a stuck PTT switch, it can prevent interference to other users as well as battery depletion.
Scan		OFF/ON	In the scan mode, whether add the channel to the scan list. **ON**: the channel is added to scan list; **OFF**: the channel cannot be scanned
Rx Emergency		OFF/ON	
Voice SW		OFF/ON	Switch voice prompts
Voice Select		English/Chinese	Switch the language
Battery Save		OFF/ON	
Beep		OFF/ON	
VOX	Voice operated TX	1-5	When enabled it is not necessary to push the [PTT] button on the transceiver. Adjust the gain level to an appropriate sensitivity to allow smooth transmission.

5) Finally, all the modification will be saved by clicking the "Write" button, then clicking the "Start" button on the popup. And you can check the setting you modified after reboot the radio.

4.TD-V2 Chirp Software Programming Process

1) Open the CHIRP software (Latest Version), click "Download From Radio" under "Radio"
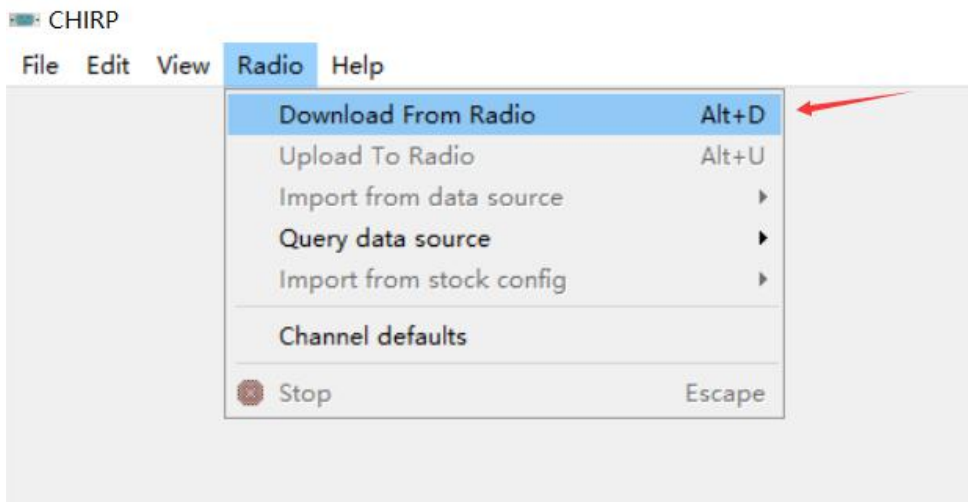
2) Select the corresponding cable driver port, and select Model "BF-888" under Vendor "Baofeng", then click "OK" to read the radio
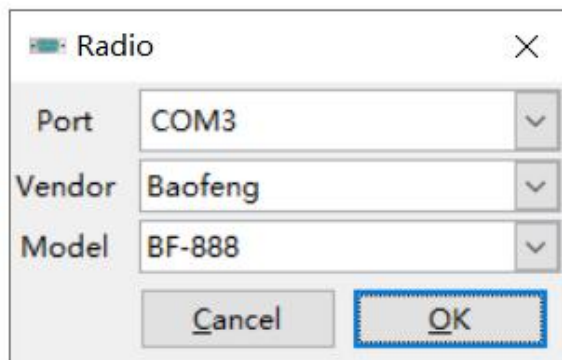
3) And you will come to the page of Memories, in which you can adjust the limited parameters .

4)Then if you switch to the page of Settings, you can adjust the limited parameters(For the explanation of Voice prompt, Scan, VOX, Squelch, etc.)

Name	Meaning	Settings	Description
Voice prompt		Enabled/Off	Switch voice prompts
Voice language		English/Chinese	Switch the language
Scan		Enabled/Off	In the scan mode, whether add the channel to the scan list.
VOX level	Voice operated TX	1-5	When enabled it is not necessary to push the [PTT] button on the transceiver. Adjust the gain level to an appropriate sensitivity to allow smooth transmission.
Squelch level		0-9	Mutes the speaker of the transceiver in the absence of a strong signal. Squelch is either 0 or 1-9 levels. The higher level, the stronger the signal must be to in-mute the speaker.
Alarm		Enabled/Off	
FM function		Enabled/Off	
Beep		Enabled/Off	
Battery saver		Enabled/Off	
Side Key Fuction		Off/Monitor/Transmit Power/Alarm	You can customize the function of the Side Key
Timeout timer	Transmission time-out timer	Off/30-300s	This feature provides a limits transmission time to a programmed value. This will promote battery conservation by not allowing you to make excessively long-time transmissions and in the event of a stuck PTT switch, it can prevent interference to other users as well as battery depletion.

5) All the modification will be saved by clicking "Upload To Radio" under "Radio".

Then you can check the settings you modified after reboot the radio.
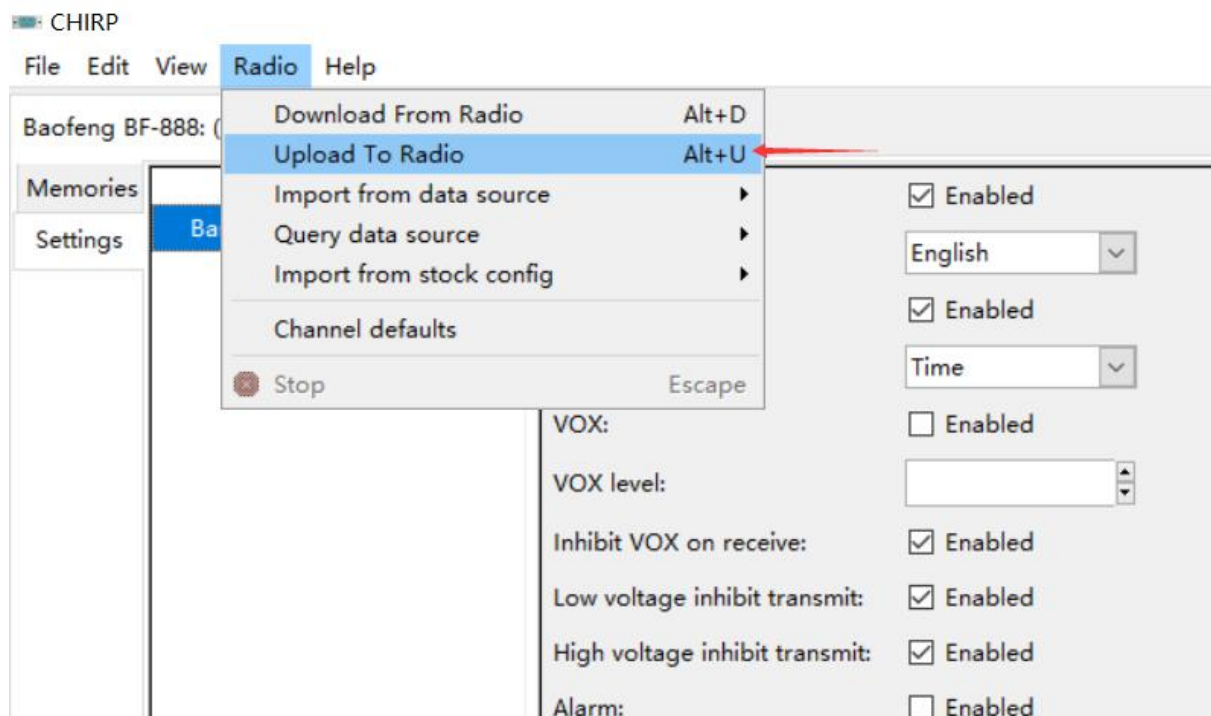
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