System: Windows 10

**1.** This is the guide for programming **BF-480 Series** walkie-talkies with Windows 10. The programming cable enclosed in the package uses *CH340* chip which is fully compatible with Windows 10 and no driver is needed. For older Windows system versions like Windows XP/7/8/8.1, please install the drivers for *CH340* chip manually (included in the folder **Fig.1**).



**2.** Once the programming cable is ready, turn on your radio to any channel, plug the 2-pin end into the earpiece jack of the radio (BF-480 Series share the earpiece jack for data transfer.), the other USB end goes to your computer USB port.

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**3.** Double click the "**Programming Tool.exe**" in the "**BF-480 Series Tool**" folder to start the program, follow the steps to set the model information (see Fig.2).

	BF-480									_	$\Box$ ×
File	e <u>E</u> dit	<u>P</u> rogram <u>S</u> et	up <u>V</u> iew <u>H</u> elj	?							
D	🗳 🖪 🛛	2 4 <	Model Informat	ion : BF-4	30(UHF) Fre	quency: 450	0 — 470MDHz				
	Channel In	formation	<u>C</u> ommunication Language File	Port Setup						- O ×	
Ch	annel No.	RX Frequency	1% frequency	QI/DQI Dec	QT/DQT Enc	TX Power	W/N	Scan Add	Beat Shift	Busy Lockout	
	1										
	2										
	3										1234
	4										
	5										
	6										
	7										
	8										
	9										
	10										12315
	11										
	12										_
	13										_
	14										_
	15										_
	16										
											E
		- 0		- (			- 0			-	
	2017/0	07/29 12:15:0	5 Poi	t:COM3							

Fig.2

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4. Select "BF-480(UHF)" from the Model Type drop-down menu and select the "400-470MHz" Frequency (Fig.3).



Fig.3

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**5.** Once programming cable is properly connected, follow the steps below to select the communication port from the drop-down menu: (**Fig.4** and **Fig.5**)

🛔 BF-480 -	[Channel Inform	nation]							_		×
불 <u>F</u> ile <u>E</u> e	lit <u>P</u> rogram	<u>S</u> etup <u>V</u> iew	Help							-	ъ×
D 🖻 📕	🔯 🎒 📓	Model Inf	ormation	-480(UHF) F1	equency: 4	50 — 470MHz					
Channel No.	RX Frequency	<u>C</u> ommunica	tion Port	QT/DQT Enc	TX Power	W/N	Scan Add	Beat Shift	Busy Lockout		
1		Language 1	File Setup								
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											

Fig.4

• The program will automatically detect the available communication port while in some cases you will need to manually assign it.



Fig.5

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**6.** After having done the previous steps, check the COM port is available and follow the steps below to load data from your radios: (see Fig.6)

BF-480									—	$\Box$ $\times$
<u>F</u> ile <u>E</u> dit	<u>P</u> rogram <u>S</u> etu	ıp <u>V</u> iew <u>H</u> elj	P							
D 🛩 🔲	🗟 🖉	属 🧼 Mod	e Type:BF-48	30(VHF) Fre	quency: 400	) — 470MDHz				
🛱 Channel	Information	2						Γ		
Channel No.	RX Frequency	TX Frequency	QT/DQT Dec	QT/DQT Enc	TX Power	W/N	Scan Add	Beat Shift	Busy Lockout	
1									-	
2										1
3										1215
4										
5										
6										
7			🛱 Read d	ata From rad	o		×			
8					0%					
9										- Ch
10				(	<u>O</u> k	<u>C</u> ancel	1			1235
11										
12					3					
13										
14	_									
15	-									
16										
										1334
		1								
						~				
0.017									-	
2221 0	/07/29  12:16:24	Por	t:COM3	)						//

Fig.6

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**7.** When transferring data, you can see the LED indicator on the radio flash, a list of channels data will show when loading complete (**Fig.8**) (**Please do not disconnect the cable during the process**). Click into any of the cells to edit channel data, please ensure frequency consistency while writing data to different radios in order to make them work together.

You may also click "Open" button (Fig.7) to load the preset channels from "Channel Data" folder. Please beware of your local laws and regulation of radio frequency use. FRS/GMRS channels are for US only, they are not allowed in the European countries, while PMR446 channels are specifically for the UK and European countries.



BF-480 - [Channel Information]				—		×
불 <u>F</u> ile <u>E</u> dit <u>P</u> rogram <u>S</u> etup <u>V</u> iew <u>H</u> elp					-	e x
🗅 🚔 🔜 🔯 🎒 📕 🏟 Mode Type: BF-480(UHF) Fre	equency: 400 - 470MHz					
Channel No. RX Frequency TX Frequency QT/DQT Dec QT/DQT Enc	TX Power W/N	Scan Add	Beat Shift	Busy Lockout		
1 446.00625 446.00625 69.3 69.3	Low Narrow	No	Yes	No		
2 446.01875 446.01875 82.5 82.5	Low Narrow	No	Yes	No		
3 446.03125 446.03125 D023N D023N	Low Narrow	No	Yes	No		
4 446.04375 446.04375 D115N D115N	Low Narrow	No	Yes	No		
5 446.05625 446.05625 D743I D743I	Low Narrow	No	Yes	No		
6 446.06875 446.06875 D023N D023N	Low Narrow	No	Yes	No		
7 446.08125 446.08125 69.3 69.3	Low Narrow	No	Yes	No		
8 446.09375 446.09375 85.4 85.4	Low Narrow	No	Yes	No		
9 446.10625 446.10625 D026N D026N	Low Narrow	No	Yes	No		
10 446.11875 446.11875 103.5 103.5	Low Narrow	No	Yes	No		
11 446.13125 446.13125 D245N D245N	Low Narrow	No	Yes	No		
12 446.14375 446.14375 69.3 69.3	Low Narrow	No	Yes	No		
13 446.15625 446.15625 123.0 123.0	Low Narrow	No	Yes	No		
14 446.16875 446.16875 None None	Low Narrow	No	Yes	No		
15 446.18125 446.18125 None None	Low Narrow	No	Yes	No		
16 446.19375 446.19375 69.3 69.3	Low Narrow	No	Yes	No		

#### Fig.8

• To enable **QT/DQT(CTCSS/DCS)** function, select built-in codes from the drop-down menu. Only with the same decoding and encoding will two channels be able to contact.

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**8.** More options to enable advanced features or batch edit your channel frequencies (**Fig.9**):

🛔 BF-	480 - [Chann	el Inform	ation]								_		×
📋 Fil	e <u>E</u> dit <u>P</u>	rogram	Setup	<u>V</u> iew	<u>H</u> elp							-	ъ×
D 🖻	E <u>C</u> han	nel Edit		F11	ode Type:BF-	-480(UHF) Fi	equency: 4	50 - 470MHz					
Channel	L M Bate	h Channel	l Edit	F10	OT/DQT Dec	QT/DQT Enc	TX Power	W/N	Scan Add	Beat Shift	Busy Lockout		
1	Func	tion <u>S</u> ett	ting								-		
2													
3													
4													
5													
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7													
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9													
10													
11													
12													
14													
15													
16													
									I	1			
	2017/07/29	14:36:0	0	F	ort:COM3								11.
						Fig.9							

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**9. Batch setting interface**. Input your starting Rx(receive) and Tx(Transmit) frequency and frequency space between each channel, advanced feature options(eg. CTCSS/DCS) can be set together, once finish, press OK button to edit 16 channels at one time.(Fig.10)

📋 Batch Channel Edi	t		×
Incept RX Frequency()	MHz) 0.00000	Frequency Step	o(KHz) 25.0 🗸
Incept TX Frequency()	MHz) 0.00000		
QT/DQT Dec	ode None	V QT/DQT E	ncode None 🗸 🗸
Wide/Nar	row Wide	~ TX 1	Power High 🗸
Scan Add		🗌 Beat Shift	
Busy Lockout			
● <u>A</u> ll Channel			
. ○ <u>C</u> hannel <u>F</u> rom	1 <u> </u>	1	
● ASC ○ DESC			OK Cancel

Fig.10

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10.	Advanced	feature	setting	interface:	(Fig.11)

🛔 Function Sett	ing	×
Squelch level Side Key Tx Time Out Scan	5 ~ Monitor ~ 180 ~ ON ~	VOX VOX Function VOX Gain Level 5 Inhibit VOX On Receive
Voice Prompt Voice Language	ON v English v	☑ Battery Saver ☑ Beep Tone On/Off
Incept Alarm	OFF ~	⊠ High voltage inhibit Tx ⊠Low voltage inhibit Tx
收音机	Enable 🗸	<u>OK</u> <u>Cancel</u>

Fig.11

Note: Some models of BF-480 series no longer support VOX function.

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# **Finally,** when all settings are done, don't forget to write your data into your radios to save all changes. (**Fig.12**)

BF-480 -	[Channel Inform	ation]							_		
📋 <u>F</u> ile <u>E</u> e	lit <u>P</u> rogram	<u>S</u> etup <u>V</u> iew	<u>H</u> elp							-	ć
🗅 🚔 📕	😼 🎒 🧕	💽 🧼 Мо	de Type:BF-	480(UHF) Fr	equency: 4	400 — 470MHz					
Channel No.	RX Frequency	TX Frequency	QT/DQT Dec	QT/DQT Enc	TX Power	W/N	Scan Add	Beat Shift	Busy Lockout		
1	446.00625	446.00625	69.3	69.3	Low	Narrow	No	Yes	No		
2	446.01875	446.01875	82.5	82.5	Low	Narrow	No	Yes	No		
3	446.03125	446.03125	DO23N	D023N	Low	Narrow	No	Yes	No		
4	446.04375	446.04375	D115N	D115N	Low	Narrow	No	Yes	No		
5	446.05625	446.05625	D743I	D743I	Low	Narrow	No	Yes	No		
6	446.06875	446.06875	D023N	D023N	Low	Narrow	No	Yes	No		
7	446.08125	446.08125	69.3	69.3	Low	Narrow	No	Yes	No		
8	446.09375	446.09375	🗎 Write	data to radio			×	Yes	No		
9	446.10625	446.10625					^	Yes	No		
10	446.11875	446.11875			0%			Yes	No		
11	446.13125	446.13125						Yes	No		
12	446.14375	446.14375			<u>U</u> k		1	Yes	No		
13	446.15625	446.15625	123.0	123.0	Low	Narrow	No	Yes	No		
14	446.16875	446.16875	None	None	Low	Narrow	No	Yes	No		
15	446.18125	446.18125	None	None	Low	Narrow	No	Yes	No		
16	446. 19375	446. 19375	69.3	69.3	Low	Narrow	No	Yes	No		

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Port:COM3

Fig.12

# Thank you for reading ©

11.