使用 4008B 写频器给 MCS2000 写频简易流程

BH3PYF 制作

原帖地址: http://ham.hellocq.com/viewthread.php?tid=104858

1、安装写频软件。

首先安装 CPS 写频软件 安装完毕后 再安装 Tuner 设置软件。

CS2000 Install	lation	×
Please select t	the application that you want to install.	
	Install the CPS	
	Install the Tuner	
<u>I</u>	Exit	
Note: Yo after ins	ou MUST reboot your computer imme stalling either application.	diately

安装完毕后,可能需要重新启动系统,重新启动后右下角出现一个标志。如图:



• 2、把写频器 连接电脑 com 口 连接电台部分的连接线。



 Image: Sector sector

MCS2000 面板 RJ45 接头写频线制作如图: (注意事项:看图中所指示的水晶头的方向,1-8 的线序不要搞
 错)

Motorola MCS2000 Programming Lead Mic Socket to RIB



MCS2000 机身 25 针接头写频线制作如图: (注意事项:本人所提供的 25 针插头无法直接插入机身,需要稍做加工处理,做机身的接头最好把喇叭的线也做到里面,这样就不用来回拔插这个插头了,随时可以使用电脑 写频)





使用机身 25 针写频,写频器可以不使用 USB 供电,这个是我一次误操作发现的,呵呵。可能大家早就知道了, 机身供的电就可以正常使用写频器了。

3、连接好两端的连接线,注意 4008B 的电路板 不要放置在金属物体周围,以免发生短路。一切准备好就可以 打开机器。自检过后。读取机身频率。____

×

选择您所连接的 com 口,点击图标开始读取机器,同时机器发出一声响,屏幕显示 programming 写频器的 绿 灯和黄灯开始闪烁,(请注意此时不要断电,否则可能会出现悲剧)请稍等。。。。。。 读取完毕后,电台会 重新启动,屏幕显示如图,证明已经可以顺利连接机器并读取成功。

如果你的电脑没有 com 口也没有关系,可以使用一个 usb 转串口的线,我使用的是 HL-340 的 USB 转 com 口,注 意正确安装驱动,并把刚装的端口设置为 com2



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Close Help		
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强烈建议您读取机器信息后,保存一个原始文件,然后开始设置您的机器。 1t <u>Y</u>1ew

在这里添加删除信道,和写入您需要的频率、亚音等等。

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在这里设置开机默认的发射功率,一边情况下我选择的都是小。

Erice Vier	- IDI × I
A Device at COM1 Port	
Radio Information	
Radio Configuration	Conventional Personality 1 of 111
- A Conventional	
Conventional Configuration	Direct/Talkaround Simaling MDC Secure RAC Phone
H A MPL List	Snart PTT Scan VIII Advanced
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- Conventional Personality - 4	Transmit 5.0 kHz
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- Conventional Personality - 6	Transmit Deviation 5.0 kHz
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- Conventional Personality - 8	Channel Spacing: 25.0 200
- Conventional Personality - 9	
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- Conventional Personality - 11	
	-Transmit Fower Level Powers Power (
	C Migh @ Low Turn-Off Code
- Conventional Personality - 15	M
- Conventional Personality - 16	
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Conventional Personality - 20	
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Conventional Personality = 99	

如果需要屏幕正常显示您写入的信息和频率,还需要在最下面的分组内写入您需要显示的信道信息。可以写入您自己的呼号等等。

Device at COMI Port Radio Information Radio Configuration Conventional	Zone C	hannel Assignm	ent-4 of 5		
Conventional Configuration	Zone	Channels			
E Conventional Personality		Channel Name	Personality Type	Personality #	Talkgroup #
E M MDC	1	438475 BH3PYF	Cnv	32	
Trunking	2	438025 BH3PYF	Cnv	33	
A Scan	3	438500 BH3PYF	Cnv	111	
Zone Channel Assignment - 3 Zone Channel Assignment - 4 Zone Channel Assignment - 5			45		
	4 of 5	H A F	H → � <mark>×</mark> ∎		
					-

扫描功能在此设置,前提是您的信道中选择了扫描组。在这里逐个添加即可。

ice ice at COMI Port Radio Information Radio Conformation	Scan	List-2 of 2			
Conventional	Genera	1 List			
Conventional Configuration		Zone	Channel	Zone Text	Channel Text
Conventional Personality	1	4	1	D	438475 BH3PY
	2	4	2	D	438025 BH3PY
	3	4	3	D	438500 BH3PY
onfiguration	4	Unassigned	Unassigned		
it.	5	Unassigned	Unassigned	2	
List - 1	6	Unassigned	Unassigned		
List - 2	7	Unassigned	Unassigned		
hannel Assignment - 1	8	Unassigned	Unassigned		
Channel Assignment - 2	9	Unassigned	Unassigned	14	
V Zone Channel Assignment - 4 V Zone Channel Assignment - 5	2 of 2	<u>H</u>),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	× 💷	

设置面板上面的功能键 在这里

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📅 Tree View		
bh3pyf Radio Enformation Radio Configuration Radio Configuration Model II Control Mead Wodel II Keypad Mic Display & Menu Display & Menu Disp	Image: Close Help	Page V Hone V Page V Hone V Channel Selector Menu V Sel V I V

修改信令中的本机 ID 在这里

Tree Vier Bh3pyf Radio Information Radio Configuration Conventional Conventional Configuration MPL List Conventional Personality MPC	Remote Monitor Emergency General DOS Primary ID: A027	Tx Multiplier Mode Steering Advanced Emergency Revert Repeater Access	
MDC Message Alias List MDC Status Alias List MDC Call List MDC Repeater ID List MDC System MDC System - 1 Trunking Can Charles Alias List	Secondary 00000000 Variable 000	 ▶ PTT ID Sidetone ▶ Trailing PTT-ID ▶ Status ▶ Status Request 	
Close Help	1 of 1 Help		

省去若干功能等等。。。。。。

全部写好后可保存一个文件备用,如果正常保存说明您所写入的数值项目完全正确,可以直接写入机器,如果 出现错误,请按照提示逐一修改,一般的问题出在扫描的设置,和分组显示的名字上面。

点击写入机器的图标开始写入机器信息,同时机器发出一声响,屏幕显示 programming 写频器的 绿灯和黄灯 开始闪烁(请注意此时绝对千万以及肯定的不要断电,否则必然出现悲剧)

机器重新启动后写频完成。。。。。

4、如果需要调整机器的功率,可以进入 Tuner 设置软件。



同样是读取机器信息 点击图标开始读取机器,同时机器发出一声响,屏幕显示 programming 写频器的 绿 灯和黄灯开始闪烁,(请注意此时不要断电,否则可能会出现悲剧)请稍等。。。。。。 读取完毕后,电台会 重新启动,

Tx Power 1		x
Frequency (MHz)	Radio Softpot Value	New Softpot Value
403.0125	<u>б</u>	6
418.0125	[15]	15
432, 9875	[13]]	13
438.0125		6
449.0125		14
460.0125		11
469, 9875		11 -
	0 63	
Program	Close PTT Toggle TRANSMITTER OFF - 403.012	5 MHz Help
x Power 4		×
x Power 4		X
x Power 4 Frequency (MHz)	Radio Softpot Value	New Softpot Value
Frequency (MHz) 403.0125	Radio Softpot Value	New Softpot Value
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不过读取后机器始终屏幕会显示 programming 。点击 设置功率进入后,屏幕显示 1 CSQ 这时必须确保您的机器接上了功率计+假负载或者天线。

点击合适的数值,然后点击 PTT Toggle 测试输出功率,感觉合适后 点击 Program 写入 后关闭。同样的方法可以调整大功率输出的时候的数值。

调整软件 关闭后 机器自动重启,说明设置完成,请使用功率计测试修改结果。因为可以设置的地方比较多,简单的写了一个流程,这个比较适合新手,如果有不正确的地方请各位老鸟补充。