

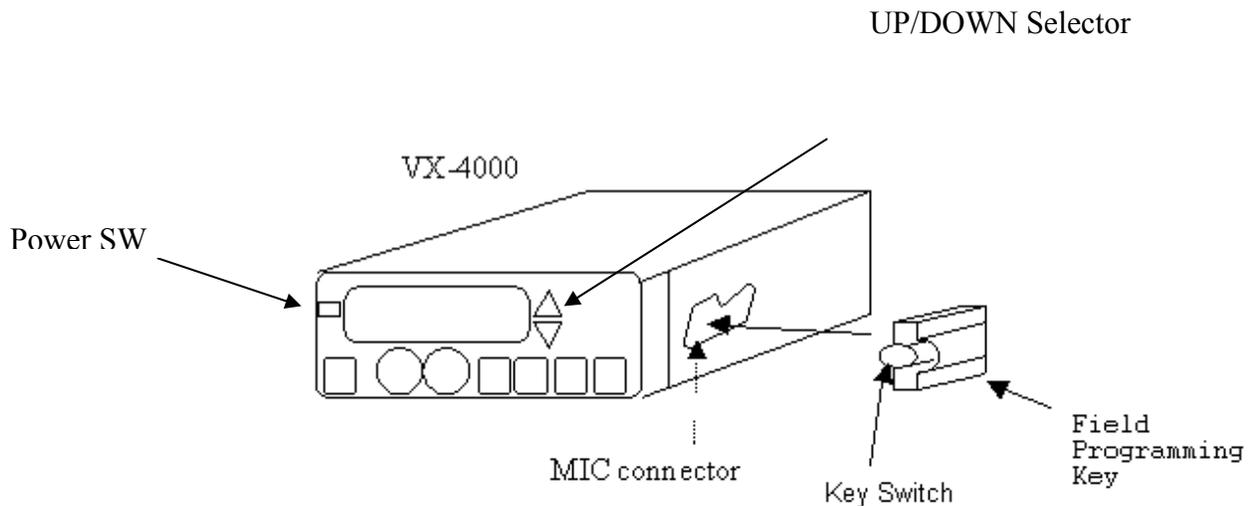


## VX-4000 Field Programming Reference Guide

The VX-4000 Transceiver is Field Programmable. The user can change channel parameters using the front panel and microphone keypad.

The following parameters are field programmable:

- Receive (RX) and Transmit (TX) frequency
- Time Out Timer (TOT) ON/OFF
- Channel Guard (CG) decode/encode on/off
- CG tone decode/encode set



## Field Programming Procedure

1. Remove the cover from the microphone jack on the right side of the radio.
2. Install the field-programming key on the microphone jack.
3. Press and hold the button on the programming key while powering on the radio.
4. After 5 seconds, –FIELD- will be displayed on the LCD display, then release the programming key button.
5. Enter the password on the microphone DTMF keypad (6 zeros)
6. –GROUP- will be displayed for 2 seconds, followed by the group one display. Then:
  - a. If the channel you wish to program is in this group, press the # key to move to channel selection.
  - b. If the channel you wish to program is located in another group:
    - i. Press the up or down buttons located on the front of the radio to step through the available groups. Press the # key to select the displayed group and move to CHAN selection.
    - ii. Or press the numeric keys on the microphone corresponding to the group number you wish to change to. Press the # key twice, the radio will change to the selected group and move to the channel select function.
7. Select the channel by:
  - a. Pressing the up or down buttons on the front of the radio to change channels. Press the # key to accept the channel.
  - b. Or Press the numeric keys on the mic representing the channel you wish to change. Press the # key twice to accept the channel and move to the RX frequency set function.
8. Enter the desired RX frequency and press the # key twice to save the change and move to the TX frequency set function.
9. Enter the desired TX frequency and press the # key twice to save the change and move to the TOT.
10. Press any numeric key to toggle the TOT on or off. Press the # key to set the choice and move to CG decode.
11. Press any numeric key to toggle the CG decode on or off. Press the # key to set the choice and move to CG encode.
12. Press any numeric key to toggle the CG encode on or off. Press the # key to set the choice and move to CG decode tone set.
13. Enter the desired CG decode tone on the numeric keypad. Press the # key to set the tone.
14. Now press the # key to move to CG encode tone set. Enter the desired CG encode tone on the numeric keypad. Press the # key twice to set the tone and return to group selection.
15. You have now reprogrammed the selected channel. Repeat steps 7 through 15 for each channel requiring reprogramming.
16. When reprogramming is complete, turn off the radio and remove the field-programming key.
17. Replace the cover on the right microphone jack.

### Important Notes

- Press the # key after any numeric entry (i.e. frequency, or CG tone entry).

- The \* key will move backwards through the menu items, the # key moves forward.

## Key Functions

Display	Function	# Key	* Key	Other Keys
-GROUP-	Selects the channel group.	Enters the selected group.	Moves backwards to ECODE	0-9 direct numeric key input of GROUP number
-CHAN-	Selects the channel to be changed.	Enters the selected channel.	Moves backwards to GROUP	0-9 direct numeric key input of CHAN number
-RX FRQ-	Changes the programmed receive frequency.	Enters the selected RX FRQ	Moves backwards to CHAN	0-9 direct numeric key input of RX FRQ
-TX FRQ-	Changes the programmed transmit frequency.	Enters the selected TX FRQ	Moves backwards to RX FRQ	0-9 direct numeric key input of TX FRQ
-TOT-	Toggles the time out timer on or off.	Moves forward to DEC	Moves backwards to TX FRQ	Any numeric key toggles TOT on and off
-DEC-	Toggles the decode CG tone on or off.	Moves forward to ENC	Moves backwards to TOT	Any numeric key toggles DEC on and off.
-ENC-	Toggles the transmitted (encode) CG tone on or off.	Moves forward to DCODE	Moves backwards to DEC	Any numeric key toggles ENC on and off
-DCODE-	Sets the decode CG tone frequency.	Enters the selected DCODE tone	Moves backwards to ENC	0-9 direct numeric key input of DCODE CG tone frequency
-ECODE-	Sets the encode CG tone frequency.	Enters the selected ECODE tone	Moves backwards to DECODE	0-9 direct numeric key input of ECODE CG tone frequency