ACC-903

maxon®

# PROGRAMMING MANUAL

**Topaz3, LLC 10828 N.W. Airworld Dr. Kansas City, MO 64153**
**Tel: 816-891-6320 Fax: 816-891-8815**
**Part Number: 680-110-0038**
**March 2000**

*DISABLE POWER SAVE*

1. Using the **UP/DOWN** arrow keys, select "Delay Time" from the "Power Save" menu.
2. Press the **ENTER** key.
3. Press the **ENTER** key again to disable "Power Save".

**Program / Print / Save**

When all the required channel and radio operating parameters have been entered or changed the information may be saved to a file, programmed into the radio, or printed.

Follow the instructions on the screen for each option selected.

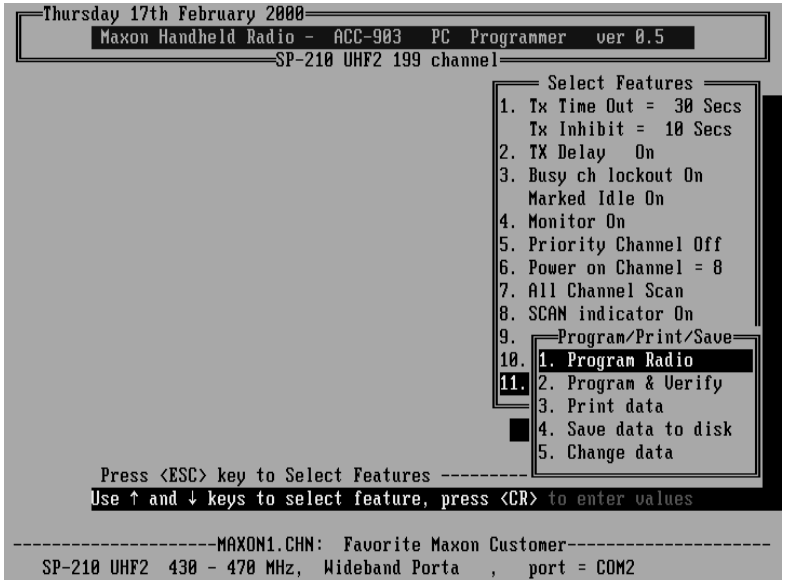



*Figure 5-15. Program/Print/Save*



# ACC-903 PROGRAMMING MANUAL

This manual is intended for use by qualified technicians and includes information pertaining to programming the SP-200 & SP-210 radio's.

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First Edition, March 2000

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When option "5. Scan" is selected, the status of this option can be changed by using the **ENTER** key. Each time the **ENTER** key is pressed the operating state will toggle between the two options.

**Scan Indicator**

When this function is set to ON, the Scan Indicators will be visible on the LCD located on the top of the radio . When this function is OFF, Scan Indicators will not be visible.

**Beep**

When this function is set to ON, all tones and warning beeps will be heard through the speaker of the radio. When this function is OFF, no beeps or tones will be heard through the speaker. When Beep Tone is OFF, warnings will only be visible by LED on top of radio.

**Power Save**

The 3 Power Save settings are:

1. Rx OFF TIME
2. Rx ON TIME
3. DELAY TIME / DISABLE

*Rx OFF TIME*

Rx OFF TIME is setup for 0.10 to 4.0 seconds in increments of 0.1 seconds. This is the time the unit is off and not looking for a carrier to be received. The default is 0.40 seconds.

*Rx ON TIME*

Rx ON TIME is setup for 0.05 to 0.2 seconds in increments of 0.01 seconds. This is the time the radio is looking for a carrier to be received. The default is 0.15 seconds.

*DELAY TIME*

Delay Time is the time the unit is on standby after you receive a call or you transmit a call. This can be setup for 1 to 8 seconds in increments of 1 second. The default is 5 seconds.

**Carrier + Tone**

If Carrier + Tone is turned ON, the radio stops scanning and unmutes only on 'scan list' channels that have a carrier and valid tone present. If Carrier + Tone is turned OFF, the radio scanning will stop on 'scan list' channels that have a carrier present, regardless of tone.

1. Using the **UP/DOWN** arrow keys, select the Carrier + Tone option on the menu.
2. Press the **ENTER** key. The Carrier + Tone operating state will be shown on the Scan menu screen.

- NOTE: If DCS Tone Option is selected, turn carrier + tone option ON.

**Scan TX Parameters**

If the PTT is pressed while on the scan channel during scan operation the radio will transmit according to the programming of the following options:

If no Priority Channel is selected, the scan options are:

1. Normal Scan TX

This option allows transmission when receiving a call when in scan mode. If the PTT is pressed without a call you will get two beeps and the red LED will flash. If the beeps tone is programmed off you will have the LED as a indicator. The radio will not transmit and there will be no priority scan.

2. Rx Only-No TX

This will not allow you to transmit while on the scan channel. If a transmission is attempted you will get two beeps and the LED will flash. Priority scan and look back will be disabled.

If a Priority Channel is selected, the scan options are:

3. Priority Scan TX

Allows transmission when you received a call depending on scan delay time. If you are in scan mode it will allow transmission on the priority channel. The priority scan will be on and work with the look back time.

4. Priority Only TX

Allows for transmission on the priority channel only.

- NOTE: Press the **ESCAPE** key to return to "Select Features" menu.





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**Scan Delay**

The Scan Delay is the time that the unit remains on a scanned channel after receiving or transmitting on that channel. The time is programmable from 0 to 15 seconds in increments of 1. (Recommended setting is at least 4 seconds).

The Scan Delay will be reset each time the radio receives a transmission or the PTT is pressed. As long as conversation continues on a channel and the Scan Delay time does not expire, the unit will not resume scanning.

1. Using the **UP/DOWN** arrow keys, select Scan Delay from the menu.
2. Press the **ENTER** key. Enter the Scan Delay time from 1 to 15 seconds in increments of 1.
3. Press the **ENTER** key. The Scan Delay time will be shown in the Scanning Features menu.

**Scan Speed**

The amount of time the radio takes during scan to examine each channel in the 'scan list' for a call. The range is between 0.05 sec. to 2 sec. in 0.05 sec increments. The default value is 0.1 sec.

1. Using the **UP/DOWN** arrow keys, select the Scan Speed on the menu.
2. Press the **ENTER** key. Enter the Scan Speed from 0.05 sec to 2 sec in increments of 0.1 sec.
3. Press the **ENTER** key. The Scan Speed will be shown on the Scan menu screen.

**Group Scan**

There are 13 available groups that can hold up to 16 channels each, for a total of 199 channels. The Group Scan function is enabled by pressing the first button located beneath the PTT on the radio.

1. Using the **UP/DOWN** arrow keys, select "7. All Channel Scan/Group Scan from the "Select Features" menu.
2. Press the **ENTER** key.
3. The "Scanning Features" menu will then open. Using the **UP/DOWN** arrow keys, select "1. All Channel Scan/Group Scan."
4. The "Scanning Kind" menu will then open. Using the **UP/DOWN** arrow keys, select "2. Group Scan."
5. The "Scan Groups" menu will then open. Using the **UP/DOWN** arrow keys, select the desired Group and press the **SPACE BAR**. Pressing the SPACE BAR places an "X" next to the Group indicating that the Group is now active.
6. Press the **ENTER** key.
7. The 199 channel matrix will then open. Using the **UP/DOWN** arrow keys, select the channel(s) to be placed in the Scan Group and press the **ENTER** key. The only channels available for placement in the Scan Group are "Blacked" out.
8. Press the **ESCAPE** key to complete the entries.

- NOTE: Do not press the SPACE BAR after the channels have been established for a particular Group. Pressing the SPACE BAR on an already established Group will erase all channels.





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**All Channel Scan**

By selecting the "All Channel Scan" option, every programmed channel in the radio is scanned.

1. Using the **UP/DOWN** arrow keys, select All Channel Scan listed in the "Select Features" menu.
2. Press the **ENTER** key.
3. The Scanning Features menu will open. Using the **UP/DOWN** arrow keys, select All Channel Scan.
4. Press the **ENTER** key.

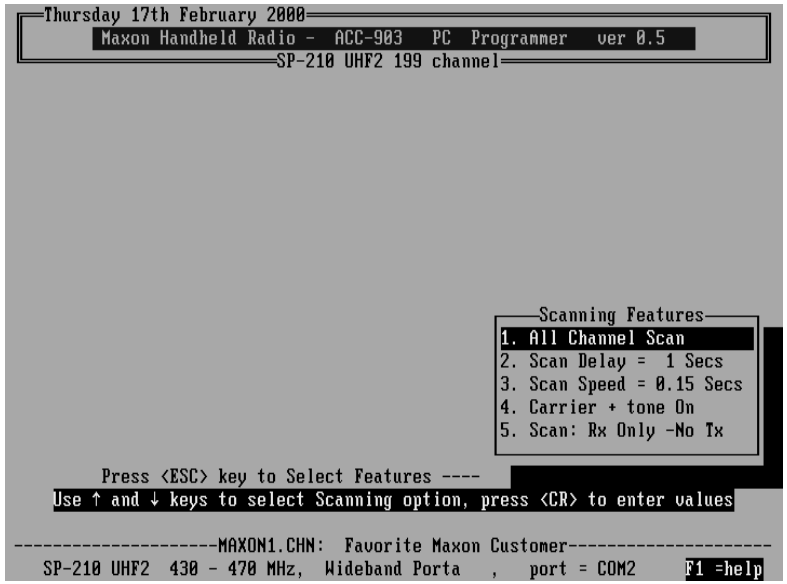



*Figure 5-14. All Channel Scan*

### Power On Channel

When the radio has been powered up, it will default to the channel that has been established using this programming parameter.

1. Using the **UP/DOWN** arrow keys, select Power On Channel listed in the "Select Features" menu.
2. Press the **ENTER** key.
3. The Power On Channel column will open. Using the **UP/DOWN** arrow keys, select the desired Power On Channel.
4. Press the **SPACE BAR** to select the Power On Channel.
5. Press the **ENTER** key to confirm the selection and return to the "Select Features" menu.

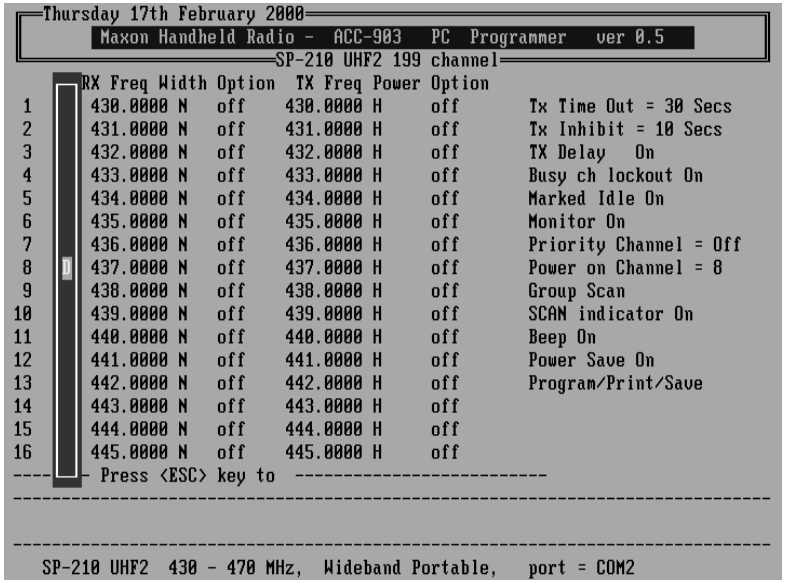



*Figure 5-13. Power On Channel*





## INTRODUCTION

The ACC-903 is the programming software which, used in conjunction with the ACC-2002 Interface Cable, allows programming of various parameters of the SP-200 & SP-210 radio's.

The ACC-903 Software Assembly contains the following items:

- 1 ACC-903 Programming Software (P/N: 820-130-0043)
- 1 ACC-903 Programming Manual (P/N:680-110-0038)

### COMPUTER SYSTEM REQUIREMENTS

**Computer**
486 processor or faster (recommended)

**Operating System**
MS DOS®, Windows® 95 or Windows® 98

**RAM**
8 MB or more (16 recommended)

**Hard Disk Space**
1 MB

**Disk Drive**
3.5-inch

**Communication Port**
One available communications port (COM 1, 2, 3 or 4)

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**Priority Channel Lookback**

Any channel can be designated as a Priority Channel. When a channel is designated as a Priority Channel the radio will periodically "Lookback" at the Priority Channel during reception. The radio does not have to have a scan list to use this function, however, it must have a Priority Channel selected in order to work.

**Lookback Time (Pr Lookback)**

When the radio is in the Priority Scan mode, the priority channel will be checked for carrier every "Lookback Time" seconds. The Lookback Time can be set from 1-7 seconds and may be selected in 1 second increments.

1. After the Priority Channel has been selected, a Lookback Time (1-7 Sec) must be given. Recommended setting is 5-7 Sec.
2. Select **"**Pr Lookback" from the menu and press the **ENTER** key. The "Enter Priority Lookback" window will open.
3. Type in the Lookback Time and press the **ENTER** key.

### Priority Channel

A single channel may be programmed as the "Priority Channel". This channel will be checked periodically or looked back to while scanning.

1. Using the **UP/DOWN** arrow keys, select Priority Channel.
2. Press the **ENTER** key.
3. The "Priority Features" menu will open and display the Priority Channel condition and Pr Lookback time. Use the **UP/DOWN** arrow keys to select Priority Channel.
4. Press the **ENTER** key. The 199 channel matrix will then open.
5. Using the **UP/DOWN** arrow keys, select the desired Priority Channel and press the **ENTER** key. The only channels available for Priority are "Blacked" out.
6. Press the **ESCAPE** key to complete the entries.

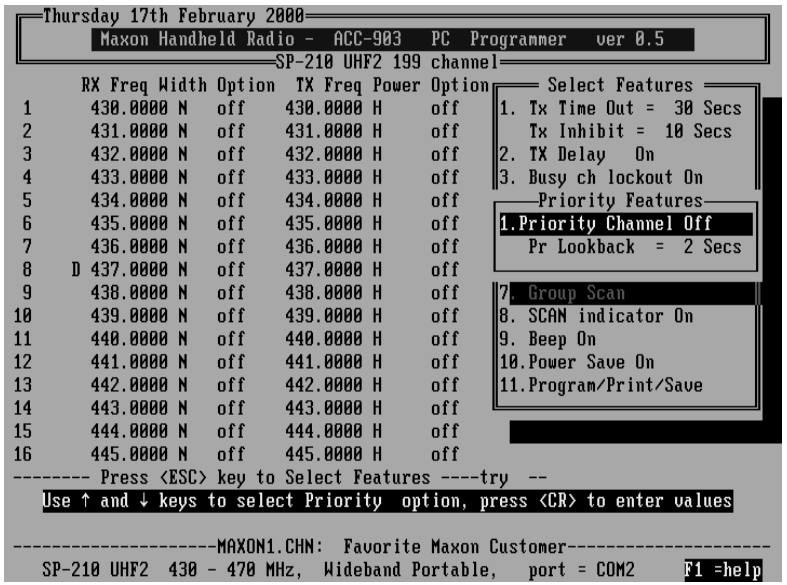



*Figure 5-12. Priority Features*





## HARDWARE INSTALLATION

### INSTALLING THE HARDWARE

#### Installing the ACC-2002

1. Make sure that the computer is turned off.

2. Locate the serial communications port on the computer. (This port will usually be located at the rear of the computer. However, since this is dependent upon the design of your computer refer to the computer operator's manual for directions.)

   There are two physical standards for the serial port configurations of IBM® PC systems;

   - The first standard is the 25 pin RS-232 output that has a DB-25 male connector at the computer (used on the IBM-PC or PC Compatible).

   - The other standard is a 9 pin RS-232 output that has a DB-9 male connector at the computer (used on the IBM-AT and many portable lap-top computers). If your computer uses a DB-9 connector, you will need to purchase a DB-9/DB-25 adapter cable from your local computer dealer, but **do not** use a null-modem adapter.

3. Once located, insert the ACC-2002 Interface Cable into the appropriate serial port on the computer. (Refer to Figure 2-3)

#### Connecting the Radio

1. Insert the other end of the cable into the jack labeled "**SPK MIC**", located on the side of the radio. (Refer to Figure 2-3)

2. Turn on the computer.

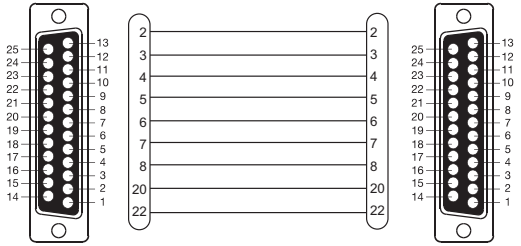


*Figure 2-1. RS-232 Serial Communications Cable (25-pin to 25-pin)*

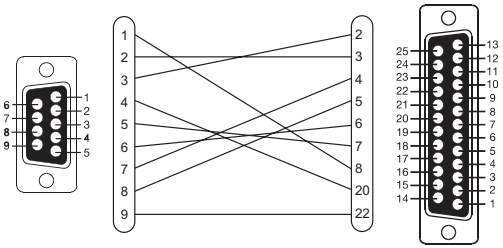


*Figure 2-2. RS-232 Serial Communications Cable (25-pin to 9-pin )*

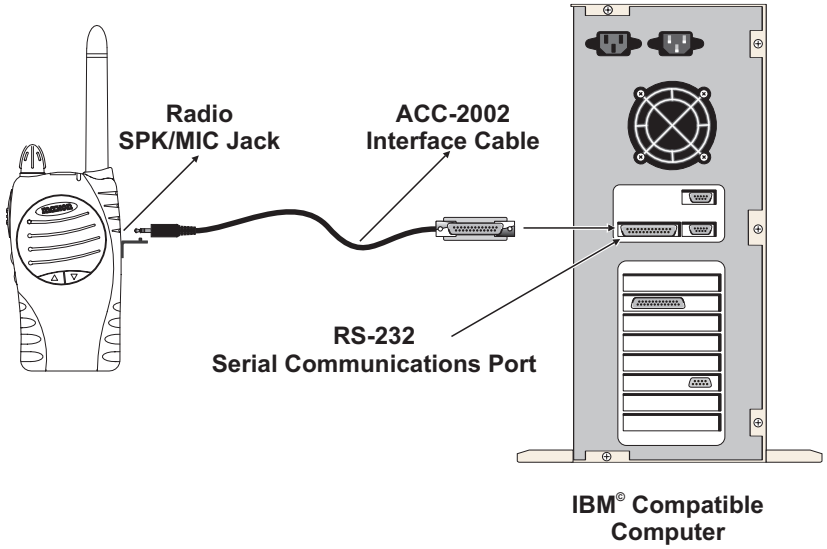



*Figure 2-3. Radio & Cable Connection*





**Busy Channel Lockout**

When the Busy Channel Lockout function is programmed, the transmitter is disabled when an RX signal is being received. If the PTT button is pressed an audible alert will sound (depending on the beep tone setting) and the yellow BUSY, TX/BT will light when the transmitter is disabled. The operating state is Disabled or Enabled.

1. Using the **UP/DOWN** arrow keys, select the Busy Channel Lockout parameter.
2. Press the **ENTER** key, the operating state selected will appear against the Busy Channel Lockout.

**Marked Idle**

Marked idle allows transmission only when receiving the radio's CTCSS Tone or DCS code. This function works in conjunction with Busy Channel Lockout. The operating state is Disabled or Enabled.

- NOTE: Before the Marked Idle can be used the Busy Channel Lockout must be active.

1. Using the **UP/DOWN** arrow keys, select the Marked Idle parameter.
2. Press the **ENTER** key, the state selected will appear against the Marked Idle parameter.

**Monitor**

When enabled, the radio squelch circuit is by-passed and the signal on any programmed channel may be monitored whenever the monitor button is pressed. If the user is to be prevented from monitoring conversations then the monitor function should be disabled. The operating state should be Disabled or Enabled.

1. Using the **UP/DOWN** arrow keys, select the Monitor parameter.
2. Press the **ENTER** key, the operating state selected will appear against the Monitor parameter.

### TX Time Out

This parameter selects the maximum time that a transmission may last once the radio's PTT button has been pressed. The range of the TX Time Out is from 10 to 990 seconds, in 10 second increments. If a value lower than 10 seconds is entered, then "10 Secs" will appear next to TX Time Out. If the value typed is greater than 990 seconds then "990 Secs" will appear next to TX Time Out.

- NOTE: The recommended setting is 180 seconds or less.

1. Press the **ENTER** key. The TX Time Out parameter will be displayed.
2. Using the **NUMERICAL** keys, enter the desired value.
3. Press the **ENTER** key. The value selected will appear against the TX Time Out parameter.

### TX Inhibit

When TX Inhibit is used in conjunction with the TX Time Out, the user can not PTT again until the TX Inhibit programmed period time off occurs. After the time has expired an alert tone will be heard and the user may transmit again. The range of the TX Inhibit is from 5 to 60 seconds, in 5 second increments.

- NOTE: Before the TX Inhibit can be used the TX Time Out must be active.

### TX Delay

When a CTCSS frequency is programmed the TX Delay function enables the transmitter to be active for a preset time after cessation of the CTCSS tone. This will help eliminate squelch tails.

1. Using the **UP/DOWN** arrow keys, select the TX Delay parameter.
2. Press the **ENTER** key, the operating state selected will appear against the TX Delay parameter.





## SOFTWARE INSTALLATION

### INSTALLING THE SOFTWARE

The ACC-903 was designed for use in the DOS environment. It can, however, be installed and operated in Windows® 95 & 98.

### Installing in Windows® 95 & 98

1. Click with the **RIGHT** mouse button on "**START**".
2. Click on **EXPLORE**.
3. Double click on **PROGRAMS** on the right side.
4. Locate the **MS-DOS PROMPT** icon.
5. Click with the **RIGHT** mouse button on the **MS-DOS PROMPT** icon.
6. Choose **PROPERTIES**.
7. Click on the **PROGRAM** tab at the top.
8. Click on **ADVANCED**.
9. Check the box for **PREVENT MS-DOS BASED APPLICATIONS FROM DETECTING WINDOWS**.
10. Click on **OK**, and the **OK** again.
11. Double click on **MS-DOS** prompt.
12. Type in **A**: (where A is the letter of your 3.5-inch drive) and press **ENTER**.
13. Type in **INSTALL** and press **ENTER**.

### Installing in MS-DOS®

1. Insert the ACC-903 disk in the 3.5-inch disk drive.
2. At the command prompt, type **A:\INSTALL** (or appropriate drive), then press **ENTER**.

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### Selecting High/Low Power Options

This option allows the use of High or Low power for each of the radio's programmed channels. When the Power column is selected, enter an **H** if you want that channel to operate using high power, or enter an **L** if you want the channel to operate using low power.

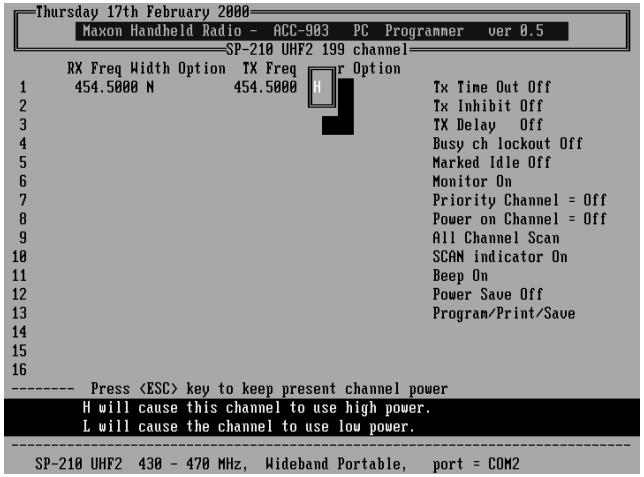



*Figure 5-10. Selecting Hi/Low Power Options*

### Select Features

The radio operating parameters are programmed using the "Select Features" function. This menu is activated using the **RIGHT** arrow key to enter the Select Features Menu.

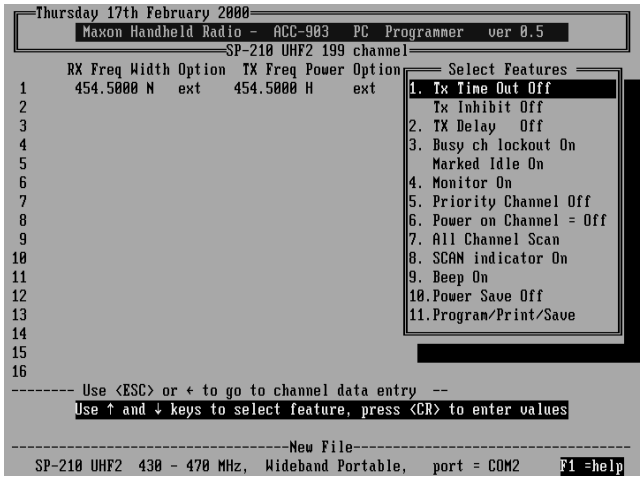



*Figure 5-11. Select Features Menu*

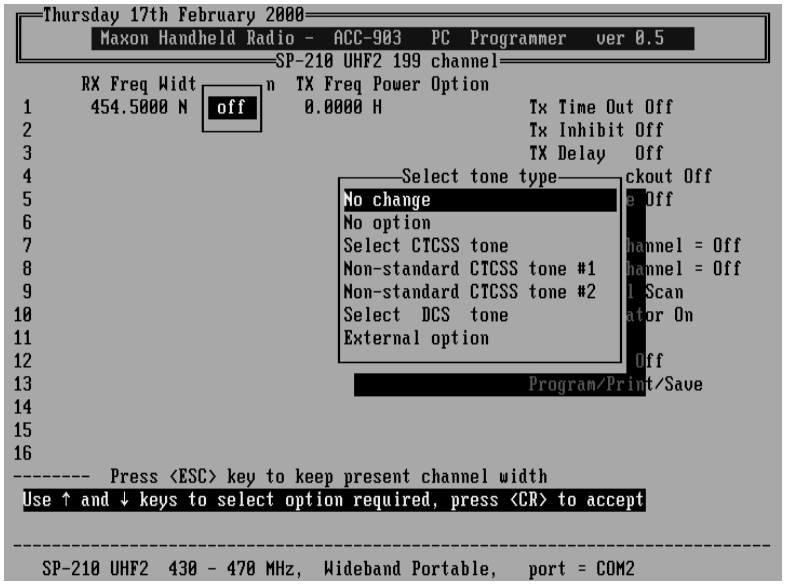



*Figure 5-9. Setting Tone Types*

**External Option Detect**

An input to the microprocessor is available, that will indicate (to the microprocessor) that the external option has decoded. This input is connected to the external option plug. The external option is selectable for each channel. If external option is selected while programming a channel, the external option plug is active when the channel is selected during operation of the unit.





## GETTING STARTED

### STARTING THE ACC-903 IN MS-DOS®

**To Start the ACC-903**

1. From the command prompt (**C:\>**), type **CD Maxon\ACC-903** and press **ENTER**.
2. From the command prompt **(C:\Maxon\ACC-903>** type **ACC-903** and press **ENTER**.

### STARTING THE ACC-903 IN WINDOWS® 95 & 98

**To Start the ACC-903**

1. From the **Windows Start Button**, click **Programs** and select the **MS-DOS Prompt**.
2. From the command prompt (**C:\Windows>**), type **CD** and press **ENTER**.
3. From the command prompt (**C:\>**), type **CD Maxon\ACC-903** and press **ENTER**.
4. From the command prompt **(C:\Maxon\ACC-903>** type **ACC-903** and press **ENTER**.

### OPTIMIZING THE ACC-903 FOR WINDOWS® 95 & 98

**To Optimize the ACC-903**

1. Click with the **RIGHT** mouse button on "**START**".
2. Click on **EXPLORE**.
3. Double click on the **Maxon** directory on the C drive
4. Double click on the **Acc-903** directory.
5. **RIGHT** click the mouse button on **Acc-903.exe** and click on **Copy**.
6. Double click on the **Windows** directory on the C drive.
7. Double click on the **Start Menu** directory.
8. Double click on the **Programs** directory.
9. Locate the Maxon directory. If the Maxon directory does not exist, create the directory by selecting **File** from the drop down menu, then select **New**, and then **Folder**.

10. Type **Maxon** to name the folder and press **ENTER**.
11. Double click on the **Maxon** directory.
12. **RIGHT** click the mouse button on the **Maxon** directory and click on **Paste**.
13. The ACC-903 program can now be launched from the Start Menu. Click on the **Start** button, select **Programs**, then select **ACC-903.exe**.

## MENUS AND DISPLAYS

The ACC-903 software enables the user to set up the parameters and then modify individual variables. This is done through the use of user-friendly menus that appear on the video display. The three main menu pages are Radio Model Selection, Set Up and Select Data Source, and Programming.

## KEYBOARD

On each menu, commands or parameters may be selected. This is done by using the **UP/DOWN/RIGHT/LEFT** arrow keys or typing the number associated with the command or parameter. The command or parameter is then selected by pressing the **ENTER** key. Pressing Escape at the initial menu will stop the programming and return to the computer's operating system. Pressing the Escape key on subsequent pages will result in the previous main menu page appearing or if a parameter value is being edited pressing Escape will restore the original value.

## HELP SCREENS

Help screens, where available, can be accessed by pressing the 'F1' Function key.





**Setting Tone Types**

*No Change*

Selecting "No Change" causes the tone to revert to the previously entered selection.

*No Option*

Selecting "No Option" disables any tones.

*Select CTCSS Tone*

Selecting "Select CTCSS Tone" will display all of the available CTCSS tones. To select a tone use the arrow keys to highlight the desired tone and press **ENTER**. When CTCSS is programmed, only calls with the radio's specified code will be heard. During normal RX operation, the speaker will remain quiet until the correct CTCSS code is received and decoded. The status indicator will glow green, the speaker will open and the call will be heard.

*Non-standard CTCSS tone #1*

The radio is capable of encoding and decoding two Non-standard CTCSS tones. When programming a channel with CTCSS any frequency from 55 to 260Hz can be selected in .1 Hz increments. Type in the desired frequency and press the **ENTER** key.

*Non-standard CTCSS tone #2*

The radio is capable of encoding and decoding two Non-standard CTCSS tones. When programming a channel with CTCSS any frequency from 55 to 260Hz can be selected in .1 Hz increments. Type in the desired frequency and press the **ENTER** key.

*Select DCS Tone*

DCS works in exactly the same way as CTCSS except that a digital code is used instead of an continuous tone. The appropriate values for DCS are shown in table format when the DCS option has been selected.

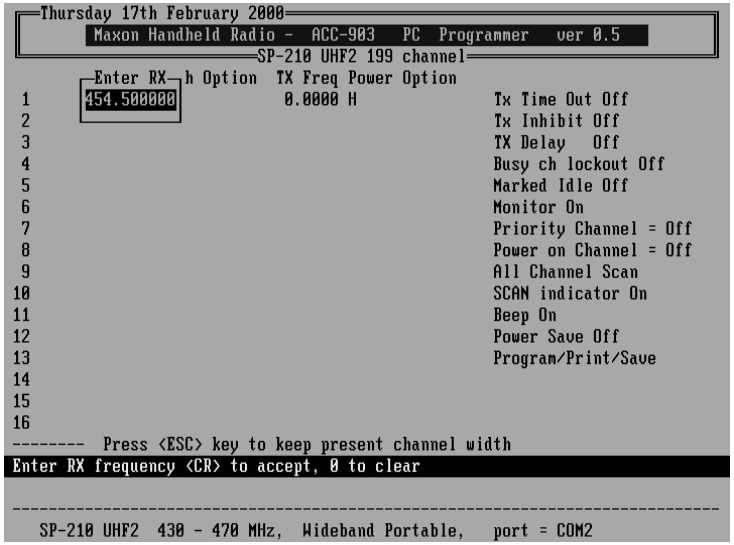



*Figure 5-8. Setting RX & TX Frequencies*

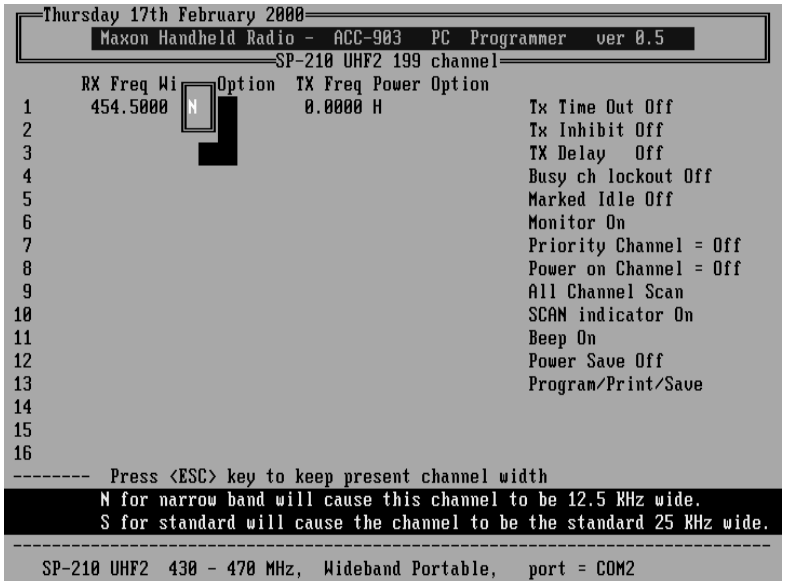



*Figure 5-7. Setting Bandwidth*





## PROGRAMMING

### SETTING UP THE PROGRAMMER

#### Selecting the Radio Model Programmer

Once the ACC-903 is launched, the "Radio Model" menu will appear as the initial page.

1. Press the **ENTER** key.
2. Press the **ENTER** key to select the SP-200 Series programmer.
3. Using the **UP/DOWN** arrow keys, highlight the radio model.
4. Press the **ENTER** key.

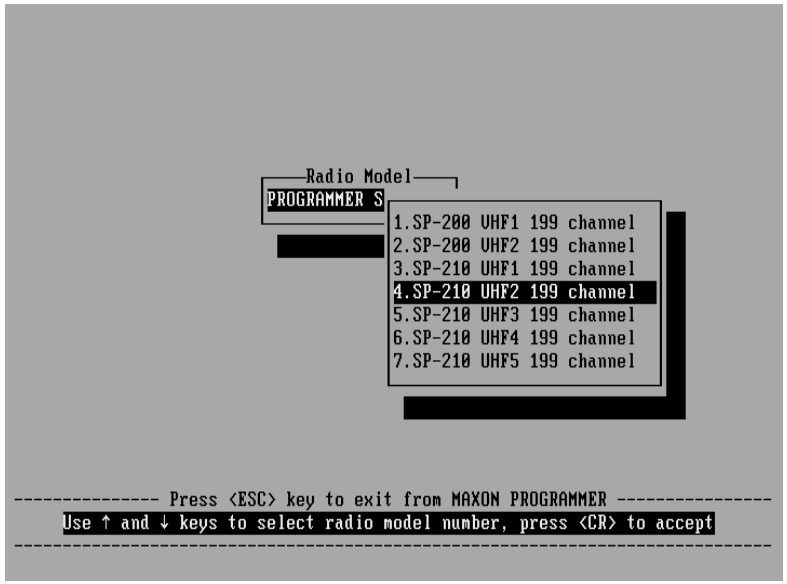



*Figure 5-1. Radio Model Selection Menu*

### Select Communication Port

Once the radio model has been selected the "Setup & Select Data Source" menu appears. Once the Communication Port has been set, it will become the default COM PORT for future programming.

1. Using the **UP/DOWN** arrow keys, highlight "Select Communication Port".
2. Press the **ENTER** key.
3. Using the **UP/DOWN** arrow keys, highlight "COM1, COM2, COM3 or COM4".
4. Press the **ENTER** key.

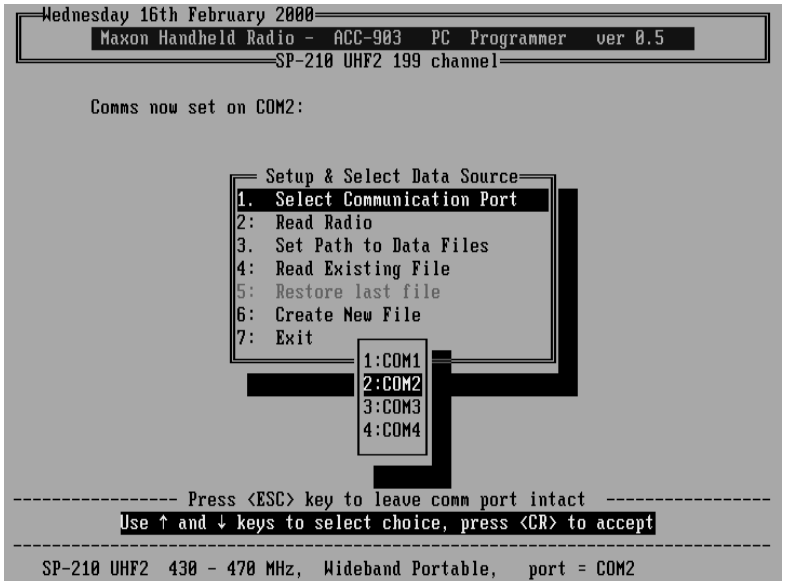



*Figure 5-2. Setup & Select Data Source Menu*





## CREATING A NEW FILE

### Setting RX & TX Frequencies and Bandwidth

1. Using the **UP/DOWN** arrow keys, select the channel number desired.
2. Press the **ENTER** key, a 10 character default RX frequency will appear in the RX frequency position of the channel number selected.
3. Type the required RX frequency in MHz. (i.e. If the frequency required is 400.125 MHz type the number as 400.125).
4. Select the channel spacing for the current channel. If the "S" spacing is selected, channel frequencies must be set at least 25 kHz apart, and they must also be divisible by 5 kHz or 6.25 kHz. If the frequency entered is not divisible by 5 kHz or 6.25 kHz, the program will give an alert and display a "Frequency incorrect" error box. The program will then automatically correct the frequency to be divisible by 5 kHz or 6.25 kHz. If the "N" spacing is selected, channel frequencies must be set at least 12.5 kHz apart, and they must also be divisible by 6.25 kHz. If the frequency entered is not divisible by 6.25 kHz, the program will give an alert and display a "Frequency incorrect" error box. The program will then automatically correct the frequency to be divisible by 6.25 kHz.
5. Type the required TX frequency in MHz. (i.e. If the frequency required is 400.125 MHz type the number as 400.125).
6. Select the channel spacing for the current channel. (See Step 4)
7. Press the **ENTER** key. The "Select Tone Type" dialog box will appear on the menu page.

- NOTE: An incorrectly entered RX or TX frequency in the following procedure will result in the error message, "Out Of Range Re-enter Frequency". The range of valid frequencies will appear on the bottom line of the display.

### Restore Last File

This option allows the programmer to restore the last file that was worked on.

1. Using the **UP/DOWN** arrow keys, highlight "Restore Last File".
2. Press the **ENTER** key.

### Create New File

This option opens the New File window.

1. Using the **UP/DOWN** arrow keys, highlight "Create New File".
2. Press the **ENTER** key.

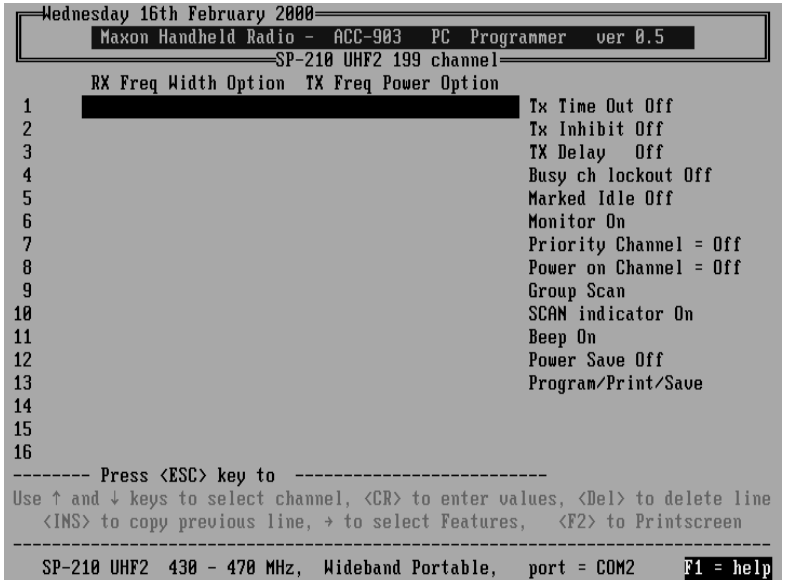



*Figure 5-6. Create New File*





### Read Radio

1. Using the **UP/DOWN** arrow keys, highlight "Read Radio".
2. Press the **ENTER** key.

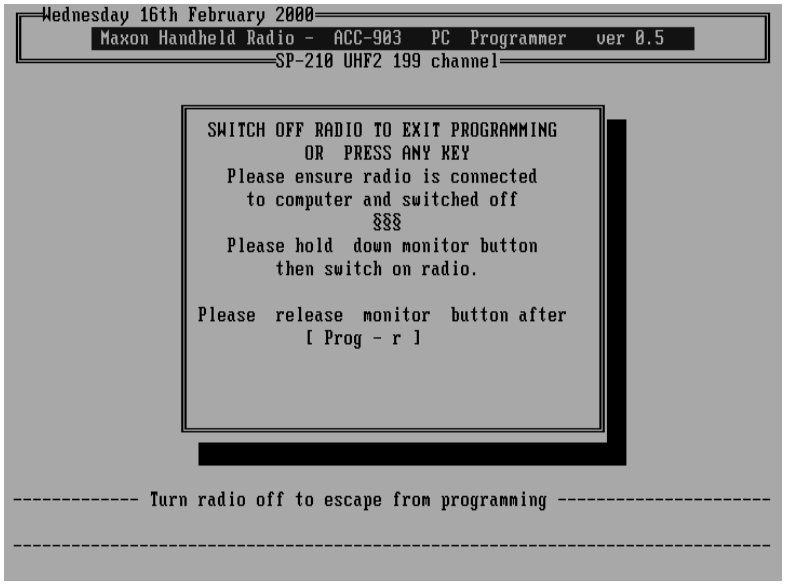



*Figure 5-3. Read Radio Menu*

3. Press and Hold the Monitor button on the radio.
4. Turn on the radio and release the monitor button after the radio displays "**r**".
5. Press and Release the Monitor button on the radio and the ACC-903 will begin to read the radio information. This process takes approximately 75 seconds.

   - NOTE: Once the transfer is complete the radio will display "**-End-**".

### Set Path to Data Files

Data files can be saved to specific locations if the default location is not desired. The directory structure must be created prior to setting the path for the data files. Once the path has been set, it will become the default path for future programming.

1. Using the **UP/DOWN** arrow keys, highlight "Set Path to Data Files".
2. Press the **ENTER** key.
3. Type in the desired path.
4. Press the **ENTER** key.

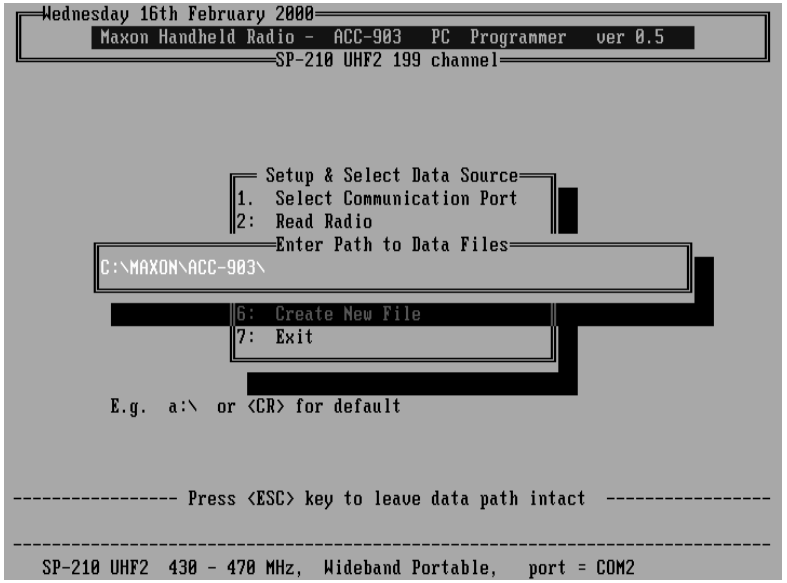



*Figure 5-4. Set Path to Data Files*



**ACC-903**
PROGRAMMING

### Read Existing File

This option opens a file that has previously been saved. When selected, this option will produce a list of all the files located in the path that was set in the previous command. If no files are present, a screen will display "Directory Missing-Cannot save file", "Any key to continue-Escape to abort!" The Escape key must be selected in order to abort this screen. Once the Escape key has be selected a screen will briefly display "Starting New File", and the appropriate parameter menu page will appear on the screen.

1. Using the **UP/DOWN** arrow keys, highlight "Read Existing File".
2. Press the **ENTER** key.

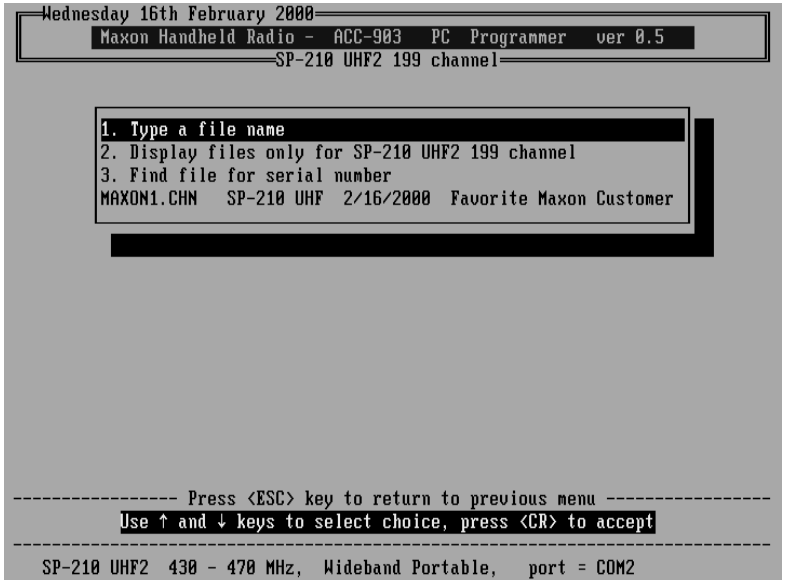



*Figure 5-5. Read Existing File*