



**MOTOROLA**

# MINITOR IV™

PAGER PROGRAMMING GUIDE



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## Registration

You can register with Motorola to receive software revision information by completing the Software Registration Card that came with the software.

## Scope of This Manual

This manual contains information for equipment requirements, installation, setup and use of Minitor IV Pager Programmer Software (PPS).

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## Getting Started

The Minitor IV Pager Programmer Software (PPS) and interface package, combined with an IBM personal computer (or compatible), provides the flexibility to program Motorola Minitor pagers to meet individual requirements. To obtain the best results from the product, please take a few minutes to read this instruction guide.

## Equipment Required

To install and operate the programmer, you need a system that meets the following minimum requirements:

- Pentium II-class PC (300 MHz or higher)
- Windows 98, Windows NT 4.0 with Service Pack 6 installed, Windows 2000 and Windows XP
- Administrative Privileges on the system
- Microsoft Internet Explorer 5.0 or higher
- 128 megabytes of RAM
- Disk Space - 500 MB
- Super VGA monitor (with the screen resolution set to at least 800 x 600, small fonts setting, and 256 colors or greater)
- A serial output port with DB9 or DB25 connector, or a USB port. The programming kit does not include the USB to Serial Port cable. Users need to purchase it by themselves if they need to use the USB port instead of the COM port

## Programming Interface

The programming interface kit, shown in Figure 1, supports Minitor IV codeplug programming. Items included with the interface kit consist of the following:

- Programming interface
- AC/DC adapter/power supply
- DB25 to DB9 cable
- DB25 to DB25 cable
- Coiled cable

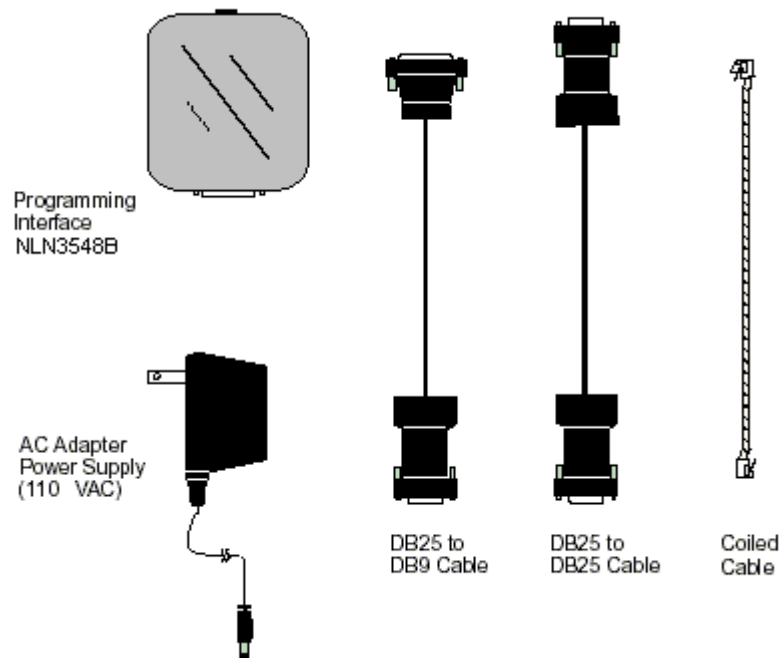


Figure 1 Programming Interface Kit

## Installing the Programmer Software

The pager programmer software can be installed from a Minitor IV PPS installation CD. The installation CD has the auto run feature, which automatically starts the installation process. Please follow the procedure below to complete the installation.

1. Insert the Minitor IV Pager Programming Software CD into your CD drive. The installation software should be launched automatically. **Note:** If it does not launch by itself, browse your CD drive using Windows Explorer, select the setup.exe at the root of your CD drive, and double click on it.
2. The Install Shield Wizard will guide you through the installation procedure.

**Note:** Only one configuration for the programming software is allowed. If you have an older version already installed on your computer, you have to remove it first. The procedure of removing an application is as following:

1. Click on "Start→Settings→Control Panel→Add/Remove Programs"
2. Select Minitor 4 PPS.
3. Click on "Remove" button. The old version of Minitor 4 PPS will be removed successfully.

## Connecting Programmer to Minitor IV

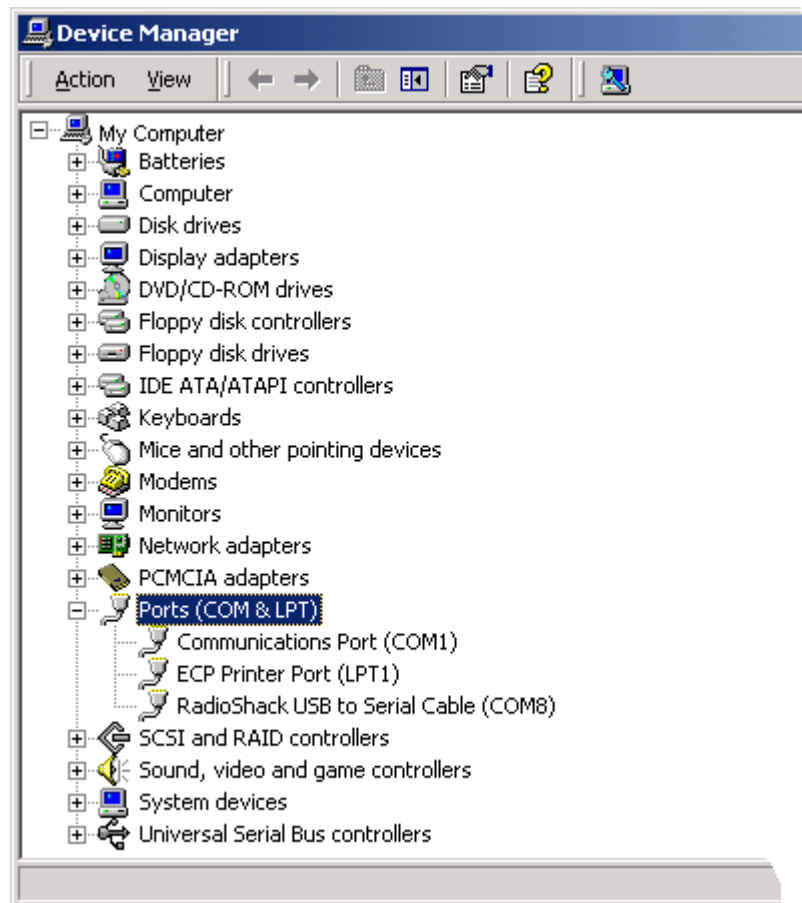
Connect the programmer and programming interface hardware as follows:

1. At the rear of your PC, connect either the DB25 to DB25 interface cable or the DB25 to DB9 interface cable to the RS232 serial port (COM1 ~ COM4). If you are using USB port, connect one end of the USB to Serial cable to your PC's USB port and the other end to DB9 of the DB25 to DB9 cable. Your PC system can map the selected USB port to any free COM port up to COM8.

**Note:** How to check which COM port the USB port is mapped to

- From desktop, right click on **My Computer**
- Select **Properties**.
- Choose the **Hardware** tab
- Click on **Device Manager** button from the second group – Device Manager
- Expand the **Ports (COM & LPT)** item
- From there, you can see which COM port the USB port is mapped

Here is an example of device manager window. In this case, the cable is RadioShack USB to Serial cable. It is mapped to COM8



**Figure 2 Device Managers**

2. Connect DB25 end of the selected cable to the DB25 connector of the programming interface.
3. Connect the programmer cable end with the phone jack to the programming interface.
4. Plug the coiled cable into the Minitor IV programmer nest and programming interface.
5. Connect AC/DC adapter/power supply to programming interface.
6. Plug AC/DC adapter/power supply into wall outlet.
7. Hardware installation is complete.

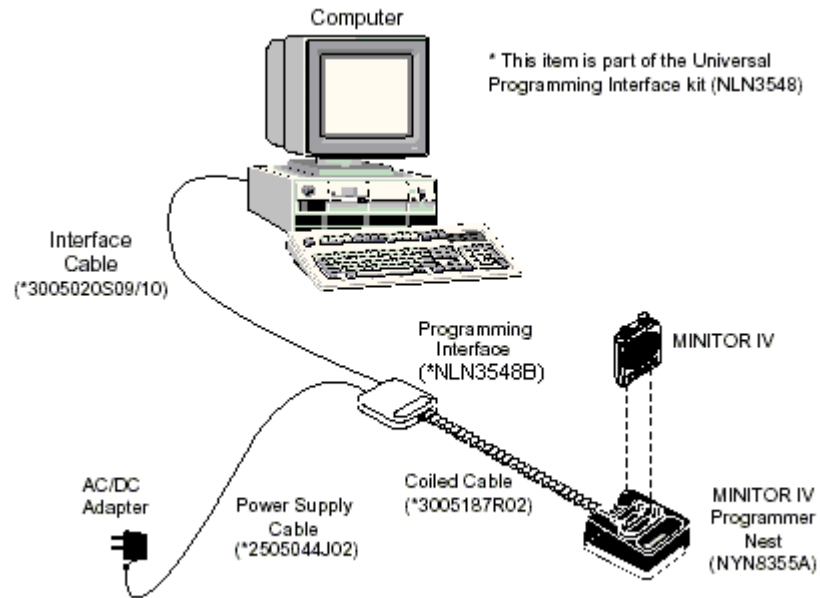


Figure 3 Programmer Hardware Connections

## Initializing Minitor IV for Programming

The Minitor IV must be initialized for programming prior to installation into the programmer nest. Refer to Figure 4 and perform the following steps:

1. Turn the On/Off volume control to the Off (counterclockwise) position.
2. Set the function switch to position 'C'.
3. With your right or left thumb, press down firmly and hold the reset button.
4. With your other hand, turn the volume control to On (clockwise).
5. The amber and red indicators should both light and a constant loud tone should sound for three seconds.
6. Release the reset button as soon as the events in Step 5 occur.
7. Observe the position of the programming pins and insert the Minitor IV into the programming nest. The red indicator on the programming interface should light.

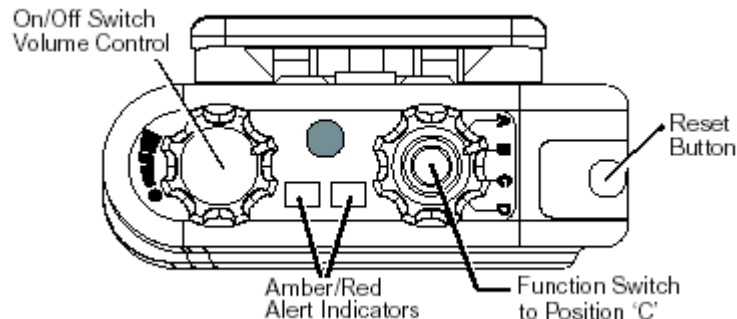


Figure 4 Controls and Indicator Location



## Launching the Application

The application can be launched from *Start* → *Programs* → *Minitor PPS* → *Minitor4 PPS*. The following window appears,

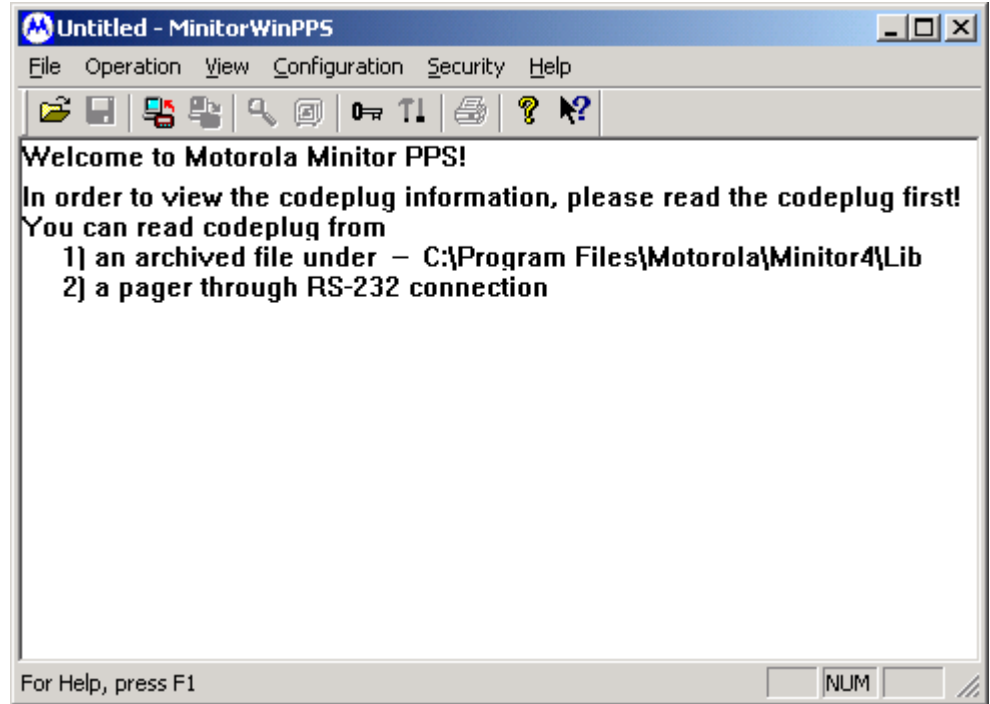












Figure 5 Minitor Win PPS Interface

## Commands

The following table lists all Minitor PPS commands.

Menu	Command	Icon	Description
File	Open		Open a Minitor codeplug file. The file has the extension “.dat”.
	Save		Save the current codeplug data to a file.
	Save As		Save the current codeplug data to a file with different filename.
	Print Preview		Preview the codeplug data.
	Print		Print the codeplug data.
	Exit		Exit the application.
Operation	Read Pager		Read codeplug data from a pager.
	Write Pager		Write the current codeplug data to a pager.
View	User Data		View/Modify the User Data.
	Engineer Data		View/Modify the Engineer Data.
	Toolbar		Toggle the Toolbar.
	Status Bar		Toggle the Status Bar.
Configuration	System Setup		Set the serial communication port.
Security	Engineer Login		Logon on as Engineer User in order to View/Modify the Engineer Data.
Help	Help Topics		Launch the Help System starting with Help Contents.
	About Minitor PPS		About Minitor PPS information.

**Table 1 Minitor PPS Commands**

The first command required to program the pager is the “Read” command. It can either read from a pager or an archived files. After the Read command, user can view/modify the codeplug data, save the codeplug data to a file, or write directly to a pager.

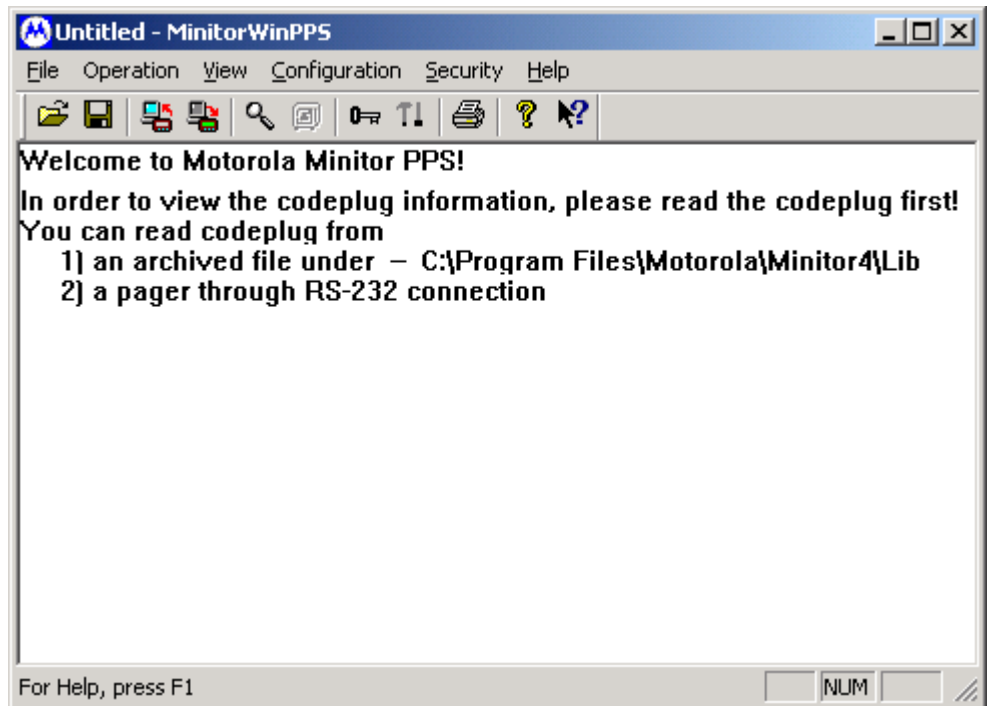


Figure 6 Minitor PPS available commands after “READ” operation

## System Setup

If you encountered a problem reading codeplug directly from a pager, your serial communication port (RS-232) may not be set correctly. You need to execute the System Setup command to configure your system.

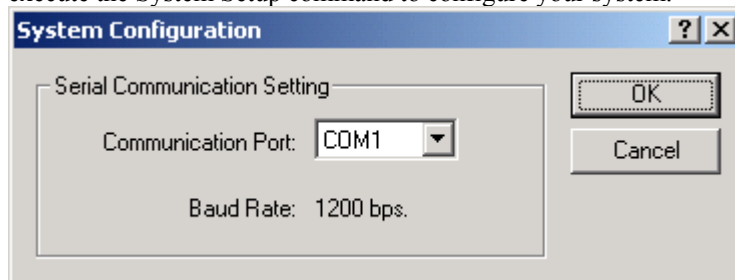


Figure 7 System Configurations

Group	Field Name	Description
Communication Setting	Communication Port (COM1, COM2, COM3, COM4, COM5, COM6, COM7 and COM8)	Select the communication port which is connected to your programmer kit
	Baud Rate	This is a non-editable field with fixed baud rate 1200 bps.

Table 2 System Configurations

## Programming User Data

User Data are organized into at least 4 pages in the User Data property sheet. They are General Information, Channel, Model Option and Function Switches.

### General Information

The screenshot shows a Windows-style dialog box titled "User Data" with a close button (X) in the top right corner. The dialog has five tabs: "General", "Channel F1", "Channel F2", "Model Option", and "Function Switches". The "General" tab is selected. Inside the dialog, there are three main sections: "Pager Information", "Revision", and "Tone System Information".

- Pager Information:** Contains six input fields arranged in two columns. The left column has "Model:" with the value "A03KUS9239BC", "Band Split:" with the value "B: 151 - 158.9999 MHz", and "IF:" with the value "21.7" followed by "MHz". The right column has "Serial:" with the value "136WES24Z5", "X'TAL:" with the value "4.032" followed by "MHz", and "Injection:" with the value "Low".
- Revision:** Contains two input fields. The left one is "Codeplug Version:" with the value "10.012". The right one is "Pager Firmware Version:" with the value "9.40".
- Tone System Information:** Contains a "System:" dropdown menu currently set to "User", and a radio button labeled "Frequency" which is selected.

At the bottom right of the dialog are three buttons: "OK", "Cancel", and "Apply".

Figure 8 General Information Page

Group	Field Name	Description
Pager Information	Model Number	This non-editable field displays the model number programmed into the pager at the factory and should match the model number on one of the labels attached to the pager.
	Serial Number	This non-editable field displays the serial number programmed into the pager at the factory and should match the serial number on one of the labels attached to the pager.
	Band Split	This non-editable field displays the band split programmed into the pager at the factory. The pager's working frequency has to be within this band split.
	X'Tal value	This non-editable field displays the CPU clock for tone decoder chip. This is a reference field for repairing.
	IF	This non-editable field displays the intermediate frequency.
	Injection	This non-editable field displays the injection direction.
Revision	Codeplug Version	This non-editable field displays the codeplug version.
	Pager Firmware Version	This non-editable field displays the pager firmware software version.
Tone System Information	System (Motorola, GE, Plectron, User, Fast Plectron)	Select the type of system that the address tones will be selected for. If a system other than USER is selected, then tones pertaining to the selected system are the only tones available for programming. If USER is selected, then any address tone frequency can be entered if proper tone spacing is maintained.
	Frequency	Minitor PPS only accepts tone frequency input. No tone code is supported.

**Table 3 General Information Page Fields**

## Channel

The model number determines how many channels a pager supports. If more than one channel is supported, more channel pages will be added to the User Data property sheet. Here is an example for channel 1.

**User Data**

General Channel F1 Channel F2 Model Option Function Switches

Receiver Frequency

F1: 155.0500 MHz. (B: 151 - 158.9999 MHz)

Call Tone

Coding Option: R168 (None) ON/OFF Duty: Disabled

	Tone 1	Tone 2	C/S	Duty
Call 1:	800.8	1000.0		ON
Call 2:	288.7	810.4		ON
Call 3:				ON
Call 4:				ON
Call 5:	2000.0			ON
Call 6:				ON

OK Cancel Apply

Figure 9 Channel Page

Group	Field Name	Description
Receiver Frequency	F1	Enter the frequency of operation for the channel. Channel frequency entry must be within the band split range.
Call Tone	Coding Option (R468, R130, R97, STD, R134, R138, R362, R177, R60, R621, R168(None))	Select one of available configuration options. This field activates combinations of tone, call, and duty fields located directly below this field.
	ON/OFF Duty	This non-editable field enables or disables on/off duty functionality for this channel. This value is assigned in the Function Switches Page.
	Call/Tone	Make tone field entries. Entries into the tone fields are subject to previous selections of SYSTEM. If tone system selection is other than USER,
	Duty	Select either ON or OFF. If ON is selected, then the address is always on. If OFF is selected, then the address is normally on unless the function switch is placed into the OFF DUTY position. In this position, the address is non functional.

Table 4 Channel Page

**User Data**

General | Channel F1 | Channel F2 | Model Option | Function Switches

Receiver Frequency

F1:  MHz. (B: 151 - 158.9999 MHz)

Call Tone

Coding Option:  ON/OFF Duty:

	Tone 1	Tone 2	C/S	Duty
Call 1:	<input type="text" value="788.5"/>	<input type="text" value="1006.9"/>		<input type="text" value="ON"/>
Call 2:	<input type="text" value="288.5"/>	<input type="text" value="810.2"/>		<input type="text" value="ON"/>
Call 3:	<input type="text"/>	<input type="text"/>		<input type="text" value="ON"/>
Call 4:	<input type="text"/>	<input type="text"/>		<input type="text" value="ON"/>
Call 5:	<input type="text" value="1989.0"/>			<input type="text" value="ON"/>
Call 6:	<input type="text"/>			<input type="text" value="ON"/>

OK Cancel Apply

**Figure 10 Channel Page with Tone System other than USER**

Here is an example of tone table for MOTOROLA tones. When Motorola is selected as System Tone, all call tones must match the tone listed in this table. If a tone frequency other than the tone frequency listed in this table is entered in the call tone field, the PPS will round this frequency to the nearest frequency in the table.

**Motorola Tone Table**

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 10	Group 11
Freq (Code)	Freq (Code)	Freq (Code)	Freq (Code)	Freq (Code)	Freq (Code)	Freq (Code)	Freq (Code)
<input type="radio"/> 330.5 (110)	<input type="radio"/> 569.1 (120)	<input type="radio"/> 288.5 (138)	<input type="radio"/> 321.7 (140)	<input type="radio"/> 553.9 (150)	<input type="radio"/> 1122.5 (190)	<input type="radio"/> 1472.9 (170)	<input type="radio"/> 1930.2 (200)
<input type="radio"/> 349.0 (111)	<input type="radio"/> 600.9 (121)	<input type="radio"/> 296.5 (108)	<input type="radio"/> 339.6 (141)	<input type="radio"/> 584.8 (151)	<input type="radio"/> 1153.4 (191)	<input type="radio"/> 1513.5 (171)	<input type="radio"/> 1989.0 (201)
<input type="radio"/> 368.5 (112)	<input type="radio"/> 634.5 (122)	<input type="radio"/> 304.7 (139)	<input type="radio"/> 358.6 (142)	<input type="radio"/> 617.4 (152)	<input type="radio"/> 1185.2 (192)	<input type="radio"/> 1555.2 (172)	<input type="radio"/> 2043.8 (202)
<input type="radio"/> 389.0 (113)	<input type="radio"/> 669.9 (123)	<input type="radio"/> 313.0 (109)	<input type="radio"/> 378.6 (143)	<input type="radio"/> 651.9 (153)	<input type="radio"/> 1217.8 (193)	<input type="radio"/> 1598.0 (173)	<input type="radio"/> 2094.5 (203)
<input type="radio"/> 410.8 (114)	<input type="radio"/> 707.3 (124)	<input type="radio"/> 953.7 (160)	<input type="radio"/> 399.8 (144)	<input type="radio"/> 688.3 (154)	<input type="radio"/> 1285.8 (195)	<input type="radio"/> 1642.0 (174)	<input type="radio"/> 2155.6 (204)
<input type="radio"/> 433.7 (115)	<input type="radio"/> 746.8 (125)	<input type="radio"/> 979.9 (130)	<input type="radio"/> 422.1 (145)	<input type="radio"/> 726.8 (155)	<input type="radio"/> 1321.2 (196)	<input type="radio"/> 1687.2 (175)	<input type="radio"/> 2212.2 (205)
<input type="radio"/> 457.9 (116)	<input type="radio"/> 788.5 (126)	<input type="radio"/> 1006.9 (161)	<input type="radio"/> 445.7 (146)	<input type="radio"/> 767.4 (156)	<input type="radio"/> 1357.6 (197)	<input type="radio"/> 1733.7 (176)	<input type="radio"/> 2271.7 (206)
<input type="radio"/> 483.5 (117)	<input type="radio"/> 832.5 (127)	<input type="radio"/> 1034.7 (131)	<input type="radio"/> 470.5 (147)	<input type="radio"/> 810.2 (157)	<input type="radio"/> 1395.0 (198)	<input type="radio"/> 1781.5 (177)	<input type="radio"/> 2334.6 (207)
<input type="radio"/> 510.5 (118)	<input type="radio"/> 879.0 (128)	<input type="radio"/> 1063.2 (162)	<input type="radio"/> 496.8 (148)	<input type="radio"/> 855.5 (158)	<input type="radio"/> 1433.4 (199)	<input type="radio"/> 1830.5 (178)	<input type="radio"/> 2401.0 (208)
<input type="radio"/> 539.0 (119)	<input type="radio"/> 928.1 (129)	<input type="radio"/> 1092.4 (189)	<input type="radio"/> 524.6 (149)	<input type="radio"/> 903.2 (159)		<input type="radio"/> 1881.0 (179)	<input type="radio"/> 2468.2 (208)

OK Cancel

**Figure 11 MOTOROLA Tone Table**

## Model Options

The screenshot shows a 'User Data' dialog box with the 'Model Option' tab selected. The dialog contains the following settings:

- Stored Voice Function: 40 Sec.
- Fixed Alert: OFF
- Priority Scan F1: ON, 0.512 Sec.
- Alert Duration: STD
- Call Reminder: OFF
- Priority Alert: OFF
- Privacy: OFF
- Reset Function: Revert N, 7.68 Sec.
- Squelch Level: 8

At the bottom of the dialog are buttons for 'OK', 'Cancel', and 'Apply'.

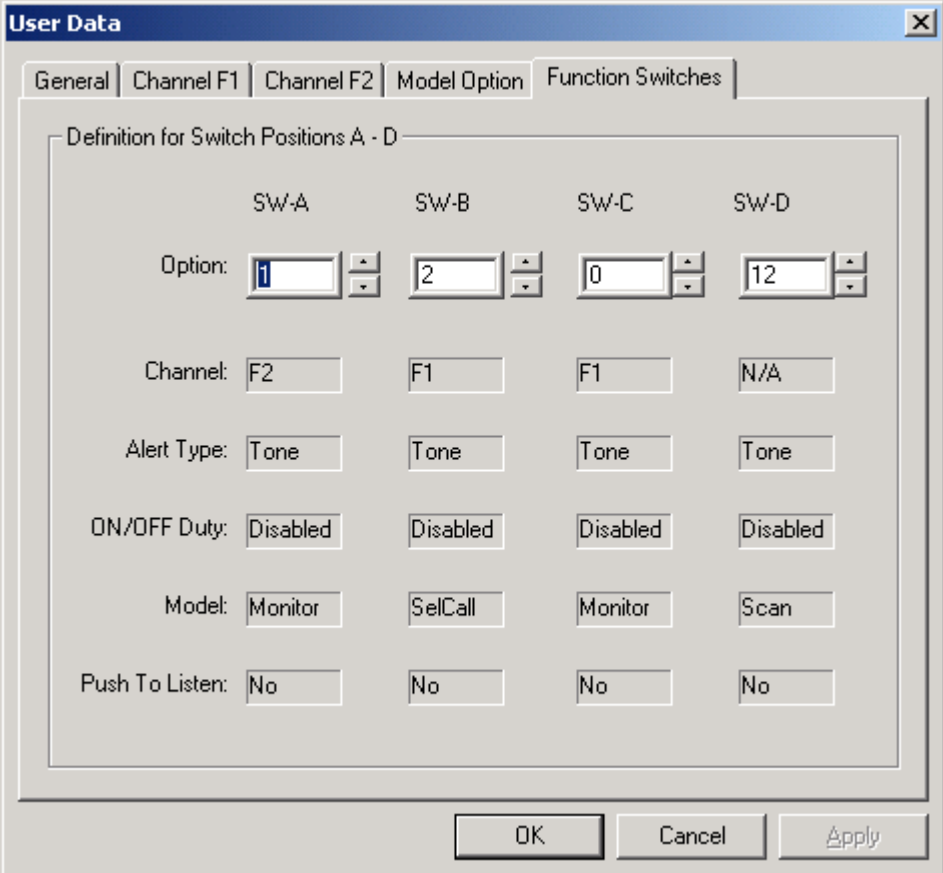
Figure 12 Model Option Page



Group	Field Name	Description
Model Option	Stored Voice Function	Enable or disable stored voice models with this option
	Fixed Alert	Select either ON or OFF. If ON is selected, the pager operates in the “fixed alert” mode. This means the tone alert is at maximum volume regardless of the position of the volume control. If OFF is selected, then the alert tone and voice audio level is adjustable using the volume control.
	Priority Scan F1	Select either ON or OFF. If the pager model is configured for scan option, then this field provides the ability to turn the PRIORITY feature ON or OFF. In the ON mode, the pager performs a priority scan function. In the OFF mode, the pager performs a normal scan with the priority feature omitted.
	Alert Duration	Select either standard (STD) or alert cycle duration variable (FIXED) in seconds. STD = Alert cycle controlled by the transmitted tone duration. FIXED = a fixed time entered by the user. <b>Note:</b> A message may be missed if the alert duration is too long.
	Call Reminder	When stored voice is present, this enables the pager to beep periodically indicating an unread message.
	Priority Alert	Select either ON or OFF. When ON Vibra-Page alerts are replaced by tone alert for call1 only.
	Privacy	Select either ON or OFF. When set to ON, prevent the reset button from being used to monitor the channel.
	Reset Function (Automatic, Delayed N, Revert, Manual, Timeout, Revert N)	Determines how a select call pager squelches a message after receiving a page.
	Squelch level (1 ~ 10)	Select squelch level
<b>Note:</b> Not all features are available on all models		

Table 5 Model Option Page

## Function Switches



The image shows a 'User Data' dialog box with the 'Function Switches' tab selected. The dialog contains a table for defining switch positions A through D. Each column has settings for Option, Channel, Alert Type, ON/OFF Duty, Model, and Push To Listen. At the bottom are 'OK', 'Cancel', and 'Apply' buttons.

	SW-A	SW-B	SW-C	SW-D
Option:	1	2	0	12
Channel:	F2	F1	F1	N/A
Alert Type:	Tone	Tone	Tone	Tone
ON/OFF Duty:	Disabled	Disabled	Disabled	Disabled
Model:	Monitor	SelCall	Monitor	Scan
Push To Listen:	No	No	No	No

Figure 13 Function Switches Page

Group	Field Name	Description																																	
Function Switches	Switch Position	The function switch has four programmable positions (SW-A, SW-B, SW-C and SW-D)																																	
	Option (0 ~ 15)	<p>When an option number is selected in the OPTION field (SW-A through SW-D), the five fields (CHANNEL, ALERT TYPE, ON/OFF DUTY, MODEL and PUSH TO LISTEN) below it are filled with data related to the option selected. The option selection numbers are as follows:</p> <table><thead><tr><th>Option</th><th>Description</th></tr></thead><tbody><tr><td>0</td><td>Monitor F1 tone alert</td></tr><tr><td>1</td><td>Monitor F2 tone alert</td></tr><tr><td>2</td><td>Selective call F1 tone alert</td></tr><tr><td>3</td><td>Selective call F2 tone alert</td></tr><tr><td>4</td><td>Vibrate alert F1 monitor mode</td></tr><tr><td>5</td><td>Vibrate alert F2 monitor mode</td></tr><tr><td>6</td><td>Vibrate alert F1 selective call mode</td></tr><tr><td>7</td><td>Vibrate alert F2 selective call mode</td></tr><tr><td>8</td><td>Address of duty F1 tone alert selective call mode</td></tr><tr><td>9</td><td>Address of duty F2 tone alert selective call mode</td></tr><tr><td>10</td><td>Address of duty F1 vibrate alert selective call mode</td></tr><tr><td>11</td><td>Address of duty F2 vibrate alert selective call mode</td></tr><tr><td>12</td><td>Scan with tone alert only</td></tr><tr><td>13</td><td>PTL - vibrate alert audio off after alert F1 selective call</td></tr><tr><td>14</td><td>PTL – Address of duty F1 vibrate alert audio off after alert F1 selective call</td></tr><tr><td>15</td><td>Not defined</td></tr></tbody></table>	Option	Description	0	Monitor F1 tone alert	1	Monitor F2 tone alert	2	Selective call F1 tone alert	3	Selective call F2 tone alert	4	Vibrate alert F1 monitor mode	5	Vibrate alert F2 monitor mode	6	Vibrate alert F1 selective call mode	7	Vibrate alert F2 selective call mode	8	Address of duty F1 tone alert selective call mode	9	Address of duty F2 tone alert selective call mode	10	Address of duty F1 vibrate alert selective call mode	11	Address of duty F2 vibrate alert selective call mode	12	Scan with tone alert only	13	PTL - vibrate alert audio off after alert F1 selective call	14	PTL – Address of duty F1 vibrate alert audio off after alert F1 selective call	15
Option	Description																																		
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15	Not defined																																		

Table 6 Function Switch Page

## Troubleshooting Guide

If ...	Then probable cause is ...	To correct the problem ...
Programming interface red LED fails to light after Minitor is inserted into programmer nest	1. Cable connections	Reseat all cable connections between the programming nest, programming interface, and computer
	2. Minitor is not inserted into programmer nest correctly for programming	Line up pins between Minitor and programmer nest then reinsert
Computer software can not read Minitor IV codeplug	1. Minitor is not setup correctly for programming	Refer to installation and Setup and perform initialization procedure
	2. Com port selection	Check the COM port connection and set the COM port accordingly

**Table 7 Troubleshooting Guide**

## Ordering and Parts Information

Available programmer parts are listed in Table 8

Description	Part Number
Programmer nest, software, and manual	RLN5832A
Programmer nest only	NYN8355A
Software CD w/ Programming Manual	RVN4239A
Programming Interface (110V)	NLN3548B

**Table 8 Ordering and Parts Information**

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