



**MOTOROLA**

**ADVISOR<sup>®</sup>**

# PAGER PROGRAMMING GUIDE

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## Scope Of This Manual

The first section contains information about equipment requirements for, installation, setup and use of the ADVISOR® Pager Programming Software (PPS).

The second section contains the sequence of screens used to read and program a pager or pagers.

The third section provides a technical description of the Pager Mechanical Interface.


The fourth section is a troubleshooting guide.

The last section is a glossary of technical terms.

Product names are subject to change without notice. Some product names are available only in certain markets.

## Information Presentation

This manual presents different types of information in different ways:

- Information that you need to type is printed in **boldface type**.
- When information from the screen is referred to in the text, it looks like **this**.
- When you need to press a key on the keyboard, the key is represented graphically. For example, instead of "Press the Enter Key", you will see "Press ".

Special characters are used to emphasize certain conditions.



*Note: Emphasizes additional information pertinent to the subject matter.*



*Caution: Emphasizes information about actions which may result in equipment damage.*



*Warning: Emphasizes information about actions which may result in personal injury.*

## Field Description Information

Any screen that contains fields is followed by a table of field descriptions. These tables are divided into two columns.

1. **Field Name** – shown exactly the way it appears on the screen.
2. **Description** – a complete description of what the field is for, how you can use it, what the valid entries are, and how a specific entry in this field can affect the status of another field.

## Getting Started

The ADVISOR PPS and interface package, combined with an IBM® personal computer (or compatible), provides the flexibility to program ADVISOR pagers to meet individual requirements. This software has a modern look and ease-of-use operation. To obtain the best results from the product, please take a few minutes to read this instruction guide.

## Equipment Required

- **IBM Personal Computer or compatible** (not included)  
The ADVISOR PPS is designed to operate on the IBM personal computer or compatible with DOS version 3.3 or higher, a serial port, and 512K of available RAM are required. If your computer is equipped with a color monitor and a color graphics card, the software runs in color.
- **Programming Interface** (not included)  
This unit provides communication between the computer and the Pager Mechanical Interface. This package includes all cables necessary for connection to the computer, the power source, and the Pager Mechanical Interface.



*Use only the latest model of the Programming Interface, NRN8815, with the ADVISOR pager and pager programming software. Use only the Motorola-supplied cable for connection between the Pager Mechanical Interface and the Programming Interface. Use of non-approved cables can result in improper operation and/or incorrect programming of the pager.*

- **Pager Mechanical Interface** (included)  
This fixture is designed specifically for the ADVISOR pager. It allows the pager to be connected to the computer via the Programming Interface. The Pager Mechanical Interface is connected to the Programming Interface with the coiled cable.
- **Pager Programming Software** (included)  
This software program, designed specifically for the ADVISOR pager, allows you to select the desired information to program into the pager. The 3.5-inch program diskettes are provided to facilitate the programming procedure.

## Getting Started

## Equipment Setup

Refer to Figure 1 while performing the following steps:

1. Plug the appropriate connector of the interface cable into the Programming Interface. Connect the other end of the cable to the serial port on your computer.



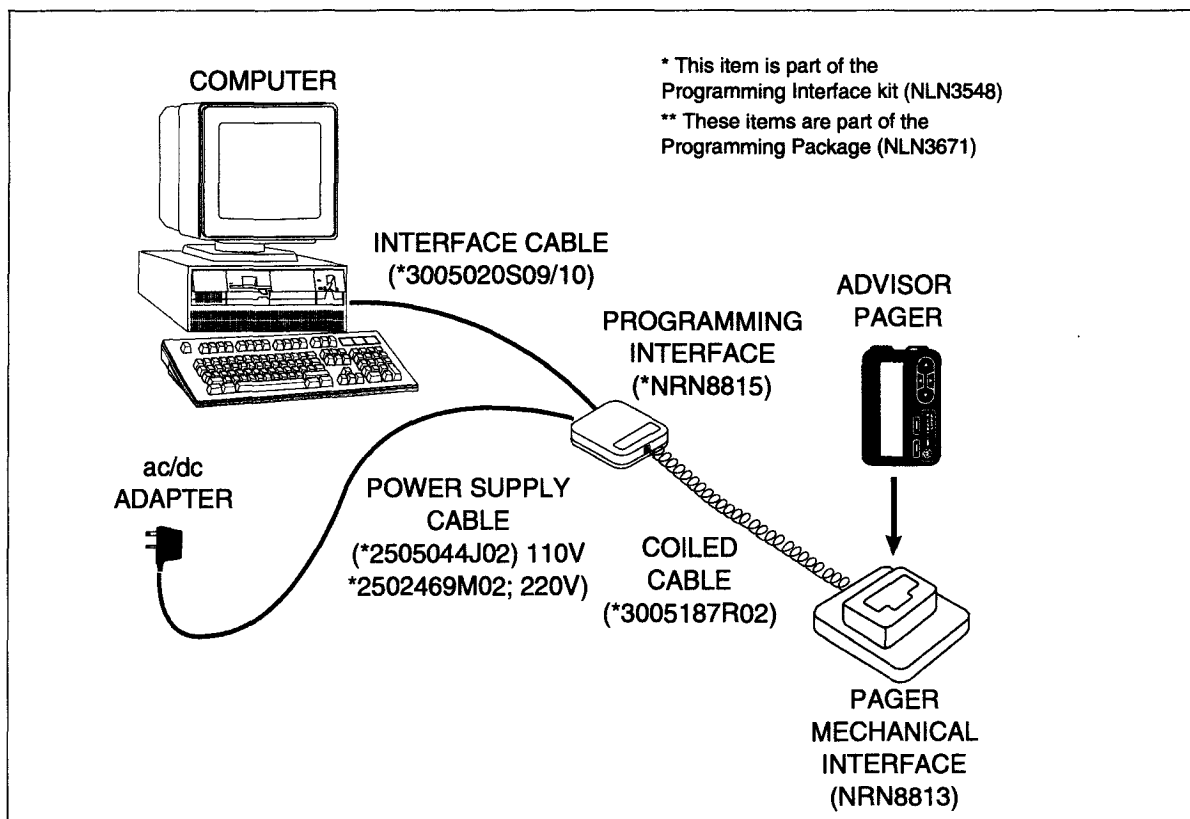
*The program uses COM1 as the default communications port. If both a serial port and a modem are used on the computer, it is recommended that COM1 be used as the serial port. If COM1 cannot be used, change the default to COM2 in the computer configuration screen when installing the software.*

2. Plug one end of the coiled cable into the Programming Interface. Plug the other end into the Pager Mechanical Interface.



*Use only the Motorola-supplied cable for connection between the computer and the Pager Mechanical Interface. Use of non-approved cables can result in improper operation and/or incorrect programming of the pager.*

3. Plug the power supply cable into the Programming Interface and plug the ac/dc adapter into a 120 Vac (or 220 Vac) electrical outlet.



AIPB 962397-O

Figure 1. Equipment Connection Diagram

### **Personal Computer Configuration**

View the CONFIG.SYS file for the following statements and minimum values:

**BUFFERS = 20**

**FILES = 35**

Edit the CONFIG.SYS file if necessary.

### **Preparing a Pager for Reading or Programming**

1. Turn the pager on.
2. Align the pager contact pin holes with the contact pins of the Pager Mechanical Interface. A red light illuminates on the Programming Interface to indicate proper contact.
3. The pager is now ready to read or program.

## Getting Started

## Installing the Software

Your ADVISOR programming software diskette includes the file **SETUP.EXE**. This file automates installation of the software onto either a removable diskette or a hard disk.



*Only one configuration for the programming software is allowed; therefore, if you want to keep an old version of the programming software, it must use the same setup as the new software (i.e., password, archive path, comm port, etc.).*

Place the ADVISOR Programming Software diskette in your A drive.

Type **A:** and press **[Enter]**, then type **SETUP** and press **[Enter]**. (Drive **B:** may also be used if your computer is so equipped.) A copyright and version-number screen displays with the instruction **Press any key to Continue**. Press any key; the instructions below display:

<b>MOTOROLA Pager Programming Software</b> <b>ADVISOR</b> <b>Setup Program</b>	
<p>If your computer only has two floppy disk drives OR if you plan to run the ADVISOR Programming Software from a removable diskette, you should follow these steps:</p> <ol style="list-style-type: none"><li>1. Exit this program.</li><li>2. Make backup copies of your ADVISOR diskettes using DISKCOPY.</li><li>3. Rerun SETUP.</li></ol> <p>If you are installing the ADVISOR Programming Software on a hard disk OR you have already made backup copies of your floppy diskettes, press <b>ENTER</b> to continue the installation.</p> <p>Press the <b>ESCAPE</b> key if you need to make backup copies of your diskettes.</p> <p>Press the <b>ENTER</b> key if you are ready to continue the installation.</p>	



*Press **[F10]** or **[Esc]** at any time to end the program and return to the DOS prompt.*

### Installation Parameters

Enter the drive letter where your source disk is located and press **Enter**. Enter the drive letter and path where you want to install the software and press **Enter**.

You can install the PPS:

- on a floppy diskette.
- on the computer hard drive.

After you have pressed **Enter**, the following screen displays:

MOTOROLA Pager Programming Software ADVISOR Setup Program	
Are you installing the ADVISOR Programming Software onto a hard disk ?	
■ Yes / No      Y / N	

If you want to install the software on your computer's hard disk, type a "Y." If you are using a dual floppy disk drive computer system or would rather install the software to diskette, type an "N."



## Getting Started

If you respond with a "Y," the programming software is copied to Your Destination Drive

MOTOROLA Pager Programming Software ADVISOR Setup Program	
<p>The Motorola SETUP program will install the ADVISOR Programming Software on your system by creating the necessary directories on your Destination drive and copying the program files and Help files from the Motorola Source drive to your Destination drive. If at any point you want to exit the Setup Program, you can do so by pressing the ESCAPE key.</p> <p>Motorola Source Drive      A Your Destination Drive      C</p> <p>ADVISOR.EXE Program Path      C:\ Archive Files Path      C:\ADVSRARC Help Files Path      C:\ADVSRHLP</p> <p>Com Port      1</p> <p>ADVISOR Software Password      ( Leave blank for none )</p> <p>Is this setup correct?      <input type="checkbox"/> Yes / No / Exit    Y/N/E</p>	

If you respond with an "N," the following screen displays and the programming software is copied to the drive you selected:

MOTOROLA Pager Programming Software ADVISOR Setup Program	
<p>The Motorola SETUP program will setup the ADVISOR Programming Software to run on your removable disk based system. If at any point you want to exit the Setup Program, you can do so by pressing the ESCAPE key.</p> <p>Disk #1 Drive      A    ( HELP and ARCHIVE Drive ) Disk #2 Drive      A    ( ADVISOR.EXE Program Drive )</p> <p>ADVISOR.EXE Program Path      A:\ Archive Files Path      A:\ADVSRARC Help Files Path      A:\ADVSRHLP</p> <p>Com Port      1</p> <p>ADVISOR Software Password      ( Leave blank for none )</p> <p>Is this setup correct?      <input type="checkbox"/> Yes / No / Exit    Y/N/E</p>	

When you are satisfied with your selection, press **F10** to continue the installation.  
Press **Esc** to end the installation.

The ADVISOR software password, if entered in the setup menu, prevents unauthorized users from running your program. If no password is required, leave this field blank.

Field Name	Description
Motorola Source Drive	This is the drive where your diskette is inserted. Press <b>Enter</b> to select the default drive displayed.
Your Destination Drive	This is the drive where you want the software installed. Press <b>Enter</b> to select the default drive displayed.
Disk #1 Drive	Specify the drive letter where the diskette is located (A or B).
Disk #2 Drive	This field is not used.
ADVISOR.EXE Program Path	The program path defines an exact location where the software is installed. The default is the root directory and you can press <b>Enter</b> to accept that entry. However, it is recommended that you specify a subdirectory of the root for installation. Type a drive letter, colon, backslash, and a subdirectory name, for example: <b>C:\ADVISOR</b> .
Archive Files Path	The archive files path defines an exact location where the pager configuration files are stored. This information is based upon the entry in the <b>ADVISOR.EXE Program Path</b> field. If the response to <b>Are you installing the Advisor Pager Programming Software onto a hard disk?</b> is <b>Y</b> , the information can be changed to a pathname of your choice. If <b>N</b> is selected, the information cannot be changed.
Help Files Path	The help files path defines an exact location where pager help files are stored.
Com Port	Select the communications port used to connect the computer to the Programming Interface. Valid entries are <b>COM1</b> or <b>COM2</b> , depending upon the serial ports available on the computer. <b>NOTE:</b> The program uses <b>COM1</b> as the default communications port. If both a serial port and a modem are used on the computer, it is recommended that <b>COM1</b> be used as the serial port. If <b>COM1</b> cannot be used, change the default to <b>COM2</b> .
Software Password	You can enter a software password to prevent unauthorized use of your program. If no password is required, leave this field blank.
Is this setup correct?	This is a prompt to confirm that the information on the screen is correct. If you type a <b>Y</b> , the installation proceeds. If you type an <b>N</b> , the information on the screen is cleared, the cursor is returned to the first field on the screen, and you can enter the information again. If you type an <b>E</b> , the installation is ended and the cursor is returned to the DOS prompt. <b>Y</b> = Yes <b>N</b> = No <b>E</b> = Exit

## Getting Started

## Starting the Software

If you are using a hard drive, follow these steps:

1. Turn your computer on.
2. At the C: prompt, type **cd\ADVISOR**. The pathname is the directory path where the ADVISOR software is installed.
3. Type **ADVISOR** and press **Enter**. A brief introductory message is displayed. Press any key to continue.

If you are using a FLOPPY drive, follow these steps:

1. Turn your computer on.
2. Put your working copy of the ADVISOR diskette in drive A.
3. At the A: prompt, type **ADVISOR** and press **Enter**. A brief introductory message is displayed. Press any key to continue.

## Software Password

If you selected a password during setup, enter it on the screen shown below and press **Enter**. Use the **← Backspace** and **Del** keys to correct any typing errors while entering the password.

MOTOROLA Pager Programming Software ADVISOR Password	Enter characters.								
<div>Enter Password</div> <div>██████████</div>									
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10 EXIT TO DOS

If a password was selected and you enter an incorrect password seven times, the program ends. If you did not select a password during installation, this screen does not display.

Use the Setup Menu to change the password.



Press **F10** or **Esc** in any menu to terminate the program and return to the Main Menu.

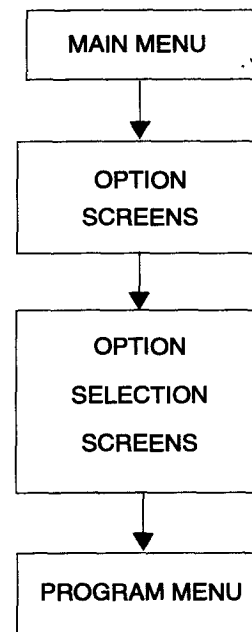
## Using Your PPS

### Basic Overview for Programming a Pager

To read and program a pager, follow these steps:

1. Use the Main menu to select the Read/Program Pager options.
2. Select a programming option from the Read/Program Menu (either sequential or single).
3. Enter information on the Options Menu.
4. Select an option from the Program Menu.

These steps are shown graphically below:



### Getting Help

The **F1** key is used for help. On-screen help is available whenever you see **F1 Help** in the lower left-hand corner of the screen. Press **Page** to see the next page of Help, if available. Press **Page** to see a previous page of Help. All menus in this program use **F1** for help.

## Using Your PPS

## Main Menu

The Main Menu provides selections for: reading and programming a pager, retrieving an archive file, and setting up your computer configuration. Each task is explained in detail as you continue through this manual.

MOTOROLA Pager Programming Software ADVISOR					Select Key F1 - F10				
Main									
F1 - HELP F2 - KEY HELP F3 - READ a pager ( Pager must be ON and inserted in interface box ) F4 F5 - PROGRAM a single pager F6 - PROGRAM sequential pagers F7 F8 - RETRIEVE a stored pager configuration from disk F9 - SETUP computer configuration F10 - EXIT pager programming software, return to DOS									
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10
HELP	KEY	READ		PROGRAM	PROGRAM		RETRIEVE	SETUP	EXIT
	HELP	A PAGER		SINGLE	SEQUENTIAL		FROM DISK		TO DOS

Press **F3** to READ a pager and display its configuration. The pager must be ON and installed in the interface.



*If the pager being read does not have Alternate Alerts Cadence and Custom International Prompts selected on the Main;Read menu, Page 3 of 4, three menus are displayed. If you select Custom International Prompts, a fourth menu is displayed. If you select Alternate Alerts Cadence, a fifth menu is displayed, allowing you to configure alerts.*

Press **F5** to PROGRAM a single pager.

Press **F6** to PROGRAM sequential pagers.

Press **F8** to RETRIEVE a pager archive file, if one exists.

Press **F9** to SETUP your computer configuration.

Press **F10** to exit to DOS.

## Main Code Screen

This screen provides fields for entering essential pager code and functional information for programming a single pager. The screen allows you to select the configuration you want to use to program the pager.

MOTOROLA Pager Programming Software ADVISOR Page 1 of 4 Main;Read:		Enter characters. PG Up/Dn for Menus			
Serial #	3831UGD589				
Inventory Control #	[REDACTED]				
Operating Mode	Standard				
Coding Format	POCSAG 2400				
	Code A	Code B	Code C	Code D	
	0001234	None	None	None	
	1234	1234	1234	1234	
Functions T,A,N,X	TNA				
Priority Y,N	NNNY				
Code Type	Individual Individual Individual Individual				

F1 HELP      F2 KEY HELP      F3      F4      F5      F6 CLEAR TO EMPTY      F7      F8      F9      F10 EXIT TO MAIN

Press  or  to move the cursor from field to field.

Press  to clear the field.

Press  or  to exit to the Main Menu.

Field Name	Description
Serial #	This is a unique serial number for each pager. It cannot be changed by the program. The Serial number contains the location, year and month when the pager was manufactured, the pager's product number and sequential number, as well as warranty information.
Inventory Control #	This field contains an identification number you assign that is stored in the pager. Unlike the serial number, this number can be changed as needed. You can enter up to ten characters.
Coding Format	<p>This field determines the signalling format used to communicate with the pager. Select one of the following coding formats:</p> <p>POCSAG 512 POCSAG 1200 POCSAG 2400 or GSC</p> <p><b>NOTE:</b> POCSAG 2400 is not available to some early-vintage pagers. Use the spacebar to toggle between choices.</p>

## Using Your PPS

Field Name	Description
Operating Mode	With <b>Silent</b> selected, all alerts are silent and some options are not available. Selections are <b>Standard</b> and <b>Silent</b> .
Code A - Code B - Code C - Code D	<p>The pager codes, 7 digits for POCSAG and 6 digits for GSC, are entered in this field.</p> <p><b>NOTES:</b></p> <p><b>POCSAG:</b></p> <ol style="list-style-type: none"><li>1. Code A and Code B must always be in the same frame (FRAME1).</li><li>2. Code C and Code D must always be in the same frame (FRAME 2).</li><li>3. FRAME 1 must be less than FRAME 2.</li></ol> <p><b>GSC:</b></p> <ol style="list-style-type: none"><li>1. Codes A and B must have the same preamble and WORD 1 values.</li><li>2. Codes C and Code D must have the same preamble and WORD 1 values.</li><li>3. Codes A and B and Codes C and D must have different WORD 2 values.</li></ol>
Functions	<p>This field allows you to select the operation of each address:</p> <p><b>N</b> = Numeric <b>T</b> = Tone <b>A</b> = Alphanumeric <b>I</b> = Ideographic (POCSAG only) <b>X</b> = Inactive <b>C</b> = Carbon Copy, Group Call (GSC only)</p> <p>Ideographic can only be selected when the pager is equipped with a character-generated ROM (CG ROM).</p>
Priority	<p>This field allows you to select any address to provide a priority alert when a message is received.</p> <p><b>Y</b> = Priority <b>N</b> = Non-Priority</p>
Code Type	<p>This field allows you to select the type of code (<b>Individual</b>, <b>Group Call</b>, or <b>Maildrop</b>).</p>

## General Options

This menu shows the selectable features available with the ADVISOR pager, and is shown with the default settings.

MOTOROLA Pager Programming Software ADVISOR Page 2 of 4 Main;Read:		Spacebar to select. PG Up/Dn for Menus	
Vibrator	Yes	Save Maildrops	Yes
Duplicate Message Detection	Yes	Personal Message File	Yes
Sequential Lockout Period	None	History File	Yes
Alert After Lockout Period	No	Disable All Pager Alerts	No
Out of Range Time	None	Reminder Alert	Yes
Show Source	No		
Auto Alarm Turn On	Yes	Low Battery Alert	Yes
Show Time/Date Stamp	Yes	Alpha Beep On Bad Data	No
International Date	Yes	Numeric Beep On Bad Data	No
Manual Reset	Yes		
Retain Memory	Yes	Delete Slot Number	No
Memory Clean-Up	Yes		

F1      F2      F3      F4      F5      F6      F7      F8      F9      F10  
 HELP   KEY                   CLEAR TO                   EXIT  
           HELP                   EMPTY                   TO MAIN

Press  or  to move the cursor from field to field.

Press  to clear the field.

Use the spacebar to toggle between the choices of each option.

Press  or  to exit to the Main Menu.



*All of the options are not available on all pagers.*

Field Name	Description
Vibrator	If <b>Yes</b> is chosen, you can enable the vibrator in the pager. If you change the alert mode to silent and <b>No</b> is selected, the pager does not emit a vibration.
Duplicate Message Detection	If selected, duplication will be performed on all personal messages with the same message type as the new message, on a character-by-character basis. Errored characters will be ignored during the check. If all non-errored characters in both messages match, the existing matching message will be flagged as a duplicate. The message with the least number of errors will be stored and the other message will be discarded. Duplication is not performed on maildrop messages.



## Using Your PPS

Field Name	Description
Sequential Lockout Period	<p>For wide area coverage, some systems use multiple transmitters located throughout the coverage area. Sequential lockout is used to prevent multiple reception of a single page. This feature can only be selected when Duplicate Message Detection is selected. Valid selections for this field are:</p> <p>None  8 Sec.  16 Sec.  32 Sec.  64 Sec.  96 Sec.  2 Min.  3 Min.  4 Min.  5 Min.</p>
Alert After Lockout Period	<p>With <b>Yes</b> selected, the pager alerts only at the end of the sequential lockout period. This option can only be selected when <b>Duplicate Message Detection</b> and <b>Sequential Lockout Period</b> are selected.</p>
Out of Range Time	<p>With an out of range time specified by the code plug, the pager is considered "out of range" when it does not detect a POCSAG synchronization word for that time period. The out of range icon displays at this time. Valid selections are:</p> <p>None  32 Sec.  64 Sec.  2 Min.  3 Min.  4 Min.  5 Min.  6 Min.  10 Min.  15 Min.</p>
Show Source	<p>Each source, 1-16, has a programmable source prompt. Each prompt can be customized in the code plug, if desired, or the defaults can be used. If <b>Yes</b> is selected, the text programmed in the associated source is displayed at the end of the message.</p>
Auto Alarm Turn On	<p>If an alarm is set and the pager is off and <b>Yes</b> is selected, the pager powers up at alarm time.</p>
Show Time/Date Stamp	<p>The pager displays a message's time/date stamp when it is being read. The stamp is shown at the end of the message after the source prompt if <b>Yes</b> is selected.</p>
International Date	<p>With <b>Yes</b> selected, the date is displayed in the international (day-month) format.</p>
Manual Reset	<p>With <b>Yes</b> selected and the pager in the audible mode, you must press any button on the pager to stop an incoming message alert.</p>
Retain Memory	<p>With <b>Yes</b> selected, all messages are saved when the pager is turned off.</p>

Field Name	Description
Memory Clean-Up	With <b>Yes</b> selected, all unlocked, read messages, maildrop messages, and the History Dump File (HDF) are deleted when the pager is powered up. This option can only be selected with <b>Retain Memory</b> selected.
Save Maildrops	All maildrop messages are retained when the pager is turned off and then on. This option is only selected when <b>Retain Memory</b> is selected.
Personal Message File	With <b>Yes</b> selected, you can save unlocked messages in the Personal Message File (PMF).
History File	With <b>Yes</b> selected, the pager takes the oldest unlocked read message and places it in the History Dump File when a new message is received.
Disable All Pager Alerts	When <b>Yes</b> is selected, the LED, Audio and Vibrator alerts are muted. All alert options and the user-changeable alert mode are dependent upon this option.
Reminder Alert	With <b>Yes</b> selected, the pager reminds you of unread messages by emitting a chirp, a two-second vibration, or both every two minutes.
Low Battery Alert	When <b>Yes</b> is selected, the pager alerts you every 12 seconds when a low battery condition is detected.
Alpha Beep On Bad Data	When <b>Yes</b> is selected, the pager alerts you when an incoming alphanumeric message contains errors. The characters are displayed between special "error string delimiter" characters.
Numeric Beep On Bad Data	When <b>Yes</b> is selected, the pager alerts you when an incoming numeric message contains errors. The characters are displayed between special "error string delimiter" characters.
Delete Slot Number	With <b>Yes</b> selected, the slot number and colon are not displayed when reading a message.
14 Bit Decoding Method	This option is only available for Chinese language pagers. With <b>Yes</b> selected, the pager decodes the low byte first.

## Using Your PPS

## International Options

Some ADVISOR pagers support a different set of languages. This is done through selection in the field of International Prompts. Custom prompts and selected languages are available. To select a custom prompt, choose a language in the International Prompts field.

MOTOROLA Pager Programming Software ADVISOR Page 3 of 4 Main;Read:		Spacebar to select. PG Up/Dn for Menus	
International Prompts		CUSTOM	
Alternate Alert Cadences	No	RF Programming Allowed	Yes
Printer Enabled	No	RF Silent Programming	No
Printer Format	88	Download Password Req'd	No
Printer Baud Rate	1200	Pager Password	ADVISOR
Carriage Return w/Linefeed	No	Data Inversion	Yes
Enable SET ALERTS Screen	Yes	Synthesizer	No

F1 HELP      F2 KEY HELP      F3      F4      F5      F6 CLEAR TO EMPTY      F7      F8      F9      F10 EXIT TO MAIN



*All of the options are not available on all pagers.*

Press  or  to move the cursor from field to field.

Use the spacebar to toggle between the choices of each option.

Press  to clear the field.

Press  or  to exit to the Main Menu.



*Selecting Custom International Prompts on the menu above allows you to customize any or all prompts on the following prompts screens.*

Field Name	Description
International Prompts	<p>The pager's standard prompts can be replaced by prompts in other languages:</p> <p>German French Italian Spanish Portuguese Swedish Norwegian Danish Dutch Finnish Traditional Chinese Simplified Chinese Russian Icelandic Polish Arabic Latin/Cyrillic Arabic/English Custom</p> <p>To select traditional Chinese or simplified Chinese, the pager must contain the appropriate CG ROM.</p> <p><b>NOTE:</b> Not all languages are available for all pager types.</p>
International Char Set	<p>This option allows for most of the special characters associated with the English (U.S. and U.K.) Swiss, German, French, Italian, Spanish, Portuguese, Swedish, Norwegian/Danish, and modified Italian character sets.</p>
Alternate Alert Cadences	<p>When <b>Yes</b> is selected, you can set your own alert cadences.</p>
Printer Enabled	<p>With <b>Yes</b> selected, incoming messages are automatically printed. Manual printing of a single message or all messages is also available. A separate interface is required to download pager information.</p>
Printer Format	<p>Alphanumeric messages sent to the printer can be formatted in the following number of characters per line:</p> <p>20 40 60 80 or None</p> <p>If <b>None</b> is selected, a line-feed character is sent to the printer only at the end of the message.</p>

## Using Your PPS

Field Name	Description
Printer Baud Rate	This is the rate at which the information is transferred from the pager to the printer. Valid selections are: 300 600 1200 2400 4800 9600
Carriage Return w/ Linefeed	If <b>Yes</b> is selected, a carriage return is sent to the printer with every linefeed.
Enable SET ALERTS Screen	The pager allows you to customize your alert settings. If <b>No</b> is selected, the alert settings programmed into the pager are permanent and cannot be changed.
RF Programming Allowed	When <b>Yes</b> is selected, RF Programming (over the air) allows you to remotely change the pager's options or activate or deactivate a pager. RF Programming is available only when the pager has an alphanumeric or ideographic page type.
RF Silent Programming	With <b>Yes</b> selected, a pager can be programmed to perform a silent power-up sequence after it has been programmed.
Download Password Req'd	With <b>Yes</b> selected, you can assign a unique password to the pager. Activation of the password requires that it be entered whenever you want to read or program a pager.
Pager Password	This password is required to perform RF Programming and when the <b>Download Password Req'd</b> option is selected.
Data Inversion	Certain frequencies require data to be inverted. Refer to the pager service manual for a complete listing. Select either <b>Yes</b> or <b>No</b> .
Synthesizer	This option is not available.

## Custom Prompts

This screen displays the pager custom prompts available with the ADVISOR pager. The screen displays when you select **Custom International Prompts** on the Main;Read menu, Page 3 of 4. The left column contains the default settings. Select your Custom Prompts from the right column. Press **[Enter]** to enter your selection.

MOTOROLA Pager Programming Software ADVISOR Page 4 of 4 Main;Read:		Enter hex codes. PG Up/Dn for Menus	
ORIGINAL PROMPTS		ALTERNATE PROMPTS	
URGENT	<b>37</b>	W	
AM	5520	U	
PM	6520	e	
MOTOROLA INC	20202020202065684A6851685B202020202020	ehJhQh[	
DUPLICATE	657771514920202020202020	ewqQI	
LOW CELL	4E787D402056737D61402020	Nx}0 Vs}a0	
MEMORY FULL	50475D71492065794A784640	PGlqI eyJxF0	
TOUCH ONLY	55684A6A2061625720202020	UhJj abM	
GROUP	654C7968594020202020	eLghY0	
PUSH FOR OFF	43565A572064706261785C20	CUZM dxhax\	
DISABLE	4C7B6B5220656261785C2020202020202020	L{kR ebax\	
DELETE	45654D6A3F2020202020	EeMj?	
F1 HELP	F2 KEY HELP	F3	F4
		F5	F6 CLEAR TO EMPTY
		F7	F8
		F9	F10 EXIT TO MAIN

The first three lines are symbols and the rest are custom prompts fields.

**URGENT** is used in numeric pages.

**AM** and **PM** are used for time stamp clock.

All numbers on the above display are in hexadecimal. You need to enter the hexadecimal number of the character you require. A '41' in hex is an 'A' in the ASCII table. Refer to the associated mapping chart for different languages.

Press **[↑]** or **[↓]** to move the cursor from field to field.

Press **[F6]** to clear the field.

Press **[F10]** or **[Esc]** to exit to the Main Menu.



*You are asked about Ideographic Prompts only when the pager contains ideographic CG (Character Generator) ROM.*



*Each prompt can be customized if desired. The text typed in the associated source is displayed at the end of the message. Only uppercase characters are accepted.*

## Using Your PPS

## Alerts

This menu provides alternate alerts for the pager. This screen displays when you select Alternate Alert Cadences on the Main;Read menu, Page 3 of 4.

MOTOROLA Pager Programming Software ADVISOR Page 5 of 5 Main;Program:		Enter any character for 'J' Enter Space for '_' PG Up/Dn for Menus							
POWER UP      J-J-J-J-J ALARM          J-J-J-J-J LOW BATTERY   J-J-J-J-J		This screen allows you to set cadences to suit your own unique requirements. These cadences override the standard cadences whenever the ALTERNATE ALERTS option is selected. J-J- = BEEP BEEP      J-J-J-J = BEEEEEEEEP							
CODE A:	Address 1	J-J-J-J-J-	CODE C:	Address 9	J-J-J-J-J-				
	Address 2	J-J-J-J-J-		Address 10	J-J-J-J-J-				
	Address 3	J-J-J-J-		Address 11	J-J-J-J-				
	Address 4	J-J-J-J-		Address 12	J-J-J-J-				
CODE B:	Address 5	J-J-J-J-J-	CODE D:	Address 13	J-J-J-J-J-				
	Address 6	J-J-J-J-J-		Address 14	J-J-J-J-J-				
	Address 7	J-J-J-J-		Address 15	J-J-J-J-				
	Address 8	J-J-J-J-		Address 16	J-J-J-J-				
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10
HELP	KEY				CLEAR TO				EXIT
	HELP				EMPTY				TO MAIN

Each field in the alert pattern turns the audio on (J) or off (-) for 1/8th of a second. After one second, the alert pattern is repeated.

To program the audio off, press the spacebar. To program audio on, press any key.

Press **PGDn** to display the next screen.

Press **F8** to clear the field.

Press **F10** or **Esc** to exit to the Main menu.

## Program Menu

This menu allows you to program the pager to the selected configuration.

MOTOROLA Pager Programming Software ADVISOR		Select Key F1 - F10 PG Up/Dn for Next or Previous Menu	
Main;Program:		PROGRAM Menu	
<p> F1 - HELP  F2 - KEY HELP  F3  F4 - PROGRAM pager ( Pager must be ON and inserted in interface box )  F5  F6  F7 - Return to previous menu  F8 - Skip to next menu  F9  F10 - EXIT to Main Menu </p>			
F1 HELP	F2 KEY HELP	F3  F4 PROGRAM PAGER	F5  F6  F7 PREVIOUS MENU
			F8 NEXT MENU
			F9  F10 EXIT TO MAIN

Press **F4** to PROGRAM the pager.

Press **F7** or **PGUp** to return to page 1 of the option menu pages.

Press **F8** or **PGDn** to display the next screen.

Press **F10** or **Esc** to exit to the Main Menu.



## Using Your PPS

## Save Menu

This menu allows you to save the pager configuration to a disk for future use.

MOTOROLA Pager Programming Software ADVISOR		Select Key F1 - F10 PG Up/Dn for Next or Previous Menu	
Main/Program:                      SAVE Menu		Inventory Control Number =	
<p> F1 - HELP  F2 - KEY HELP  F3  F4 - SAVE this pager configuration to disk  F5  F6  F7 - Return to previous menu  F8 - Skip to next menu  F9  F10 - EXIT to Main Menu </p>			
F1 HELP	F2 KEY HELP	F3	F4 SAVE TO DISK
F5	F6	F7 PREVIOUS MENU	F8 NEXT MENU
F9	F10 EXIT TO MAIN		

Press **F4** to save the pager configuration to disk for future use.

Press **F7** or **PG Up** to display the previous screen.

Press **F8** or **PG Dn** to display the next screen.

Press **F10** or **Esc** to exit to the Main Menu.



On the Main Menu display, **F8** is used to retrieve a stored configuration. It prompts you for the Inventory Control Number.

## Print Menu

This menu provides an option to print the current pager programming configuration.

MOTOROLA Pager Programming Software ADVISOR		Select Key F1 - F10 PG Up/Dn for Next or Previous Menu	
Main;Program : PRINT Menu			
<div style="text-align: center;">F1 - HELP F2 - KEY HELP F3 F4 - PRINT pager configuration F5 F6 F7 - Return to previous menu F8 - Skip to next menu F9 F10 - EXIT to Main Menu</div>			
F1 HELP	F2 KEY HELP	F3	F4 PRINT CONFIG
F5	F6	F7 PREVIOUS MENU	F8 NEXT MENU
F9	F10 EXIT TO MAIN		

Press **F4** to PRINT a pager configuration.

Press **F7** or **PgUp** to display the previous screen.

Press **F8** or **PgDn** to display the next screen.

Press **F10** or **Esc** to exit to the Main Menu.

## Using Your PPS

## Setup Computer Configuration

This menu provides choices for selecting the communications path of the screens.

MOTOROLA Pager Programming Software ADVISOR Main;Setup	Enter Drive and Path ( ex: C:\ )								
 Default Path Names Archive: C:\ADUSRARC Help: C:\ADUSRHLP COM Port: COM1: SM Password ( Leave blank for none )									
F1 HELP	F2 KEY HELP	F3	F4	F5	F6	F7	F8 SAVE DEFAULTS	F9	F10 EXIT TO MAIN

Press **F8** to save the configuration.

Press **F10** or **Esc** to exit to the Main Menu.

Press **↑** or **↓** to move the cursor from field to field.

## Technical Description

The ADVISOR Pager Mechanical Interface is a passive interconnection between the NRN8815 Programming Interface and the ADVISOR pager. The fixture has a receptacle (J1) that accepts the RJ-11 type plug of the coiled cable from the Programming Interface. Programming information is sent through the spring-loaded pins that make the appropriate contacts in the ADVISOR pager.



*Use only the Motorola-supplied cable for connection between the Programming Interface and the Pager Mechanical Interface. Use of non-approved cables can result in improper operation and/or incorrect programming of the pager.*

Programming information is sent to the ADVISOR pager from the Programming Interface through the coiled cable. The operation of the Programming Interface is described in the Service Manual for that product (6881010B39).

There are no active devices in the ADVISOR Pager Mechanical Interface.

## Maintenance Information

Keep the Pager Mechanical Interface spring-loaded contacts clean and make sure the RJ-11 plugs are properly seated in the receptacle on the Mechanical Interface and the Programming Interface.

The contacts can be cleaned with a soft, dry cloth. Do not use any solvents to clean the contacts or the outside of the interface. If necessary, a damp (not wet) cloth can be used to clean the outside of the interface. Do not immerse in water or other liquids.

In case of erratic operation, inspect the coiled cable between the Programming Interface and the Pager Mechanical Interface. If it appears to be damaged, or the contacts on the plug at either end appear weak or damaged, replace the cable.

## Technical Description

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**Parts Replacement**

When ordering replacement parts or equipment information, complete identification numbers must be included. This applies to all components, kits, and chassis. If the component part number is not known, the order must include the number of the chassis or kit number of which it is a part. If the identical replacement part is not locally available, check the parts list for the proper Motorola part number and order the part from the nearest Motorola replacement parts depot, listed below.

**TELEPHONE ORDERS****Replacement Parts, Manuals:**

Call: (800) 422-4210  
(800) 826-1913 (Federal Government orders)

**Paging Training Information:**

Call: (561) 533-3601

**TELEX/FAX ORDERS****Replacement Parts, Manuals:**

FAX: (847) 576-6285  
Telex: 280127 (Domestic)  
403305 (International)

**Federal Government Orders:**

FAX: (301) 925-2473  
(301) 925-2474

**CUSTOMER SERVICE****Replacement Parts, Manuals:**

Call: (800) 422-4210

**Parts Identification:**

Call: (847)-538-0021

**Crystal Service Items:**

Call: (800) 322-0234 (except Illinois residents)  
(800) 537-7007 (for Illinois residents)

**Customer Response Center:**

(Sales and Service Assistance)

Call: (800) 247-2346

FAX: (800) 232-9272 800-548-9954

**MAIL ORDERS**

Send written orders to the following addresses:

**Replacement Parts,  
Manuals:**

Motorola  
1313 E. Algonquin Rd.  
Communications Parts Division  
Att: Order Processing  
Schaumburg, IL 60196

**Federal Government:**

Motorola  
Communications Parts Division  
Att: Order Processing  
1701 McCormick Drive  
Landover, MD 20785

**International:**

Motorola  
Communications Parts Division  
Att: International Order Processing  
1313 E. Algonquin Rd.  
Schaumburg, IL 60196 U.S.A.

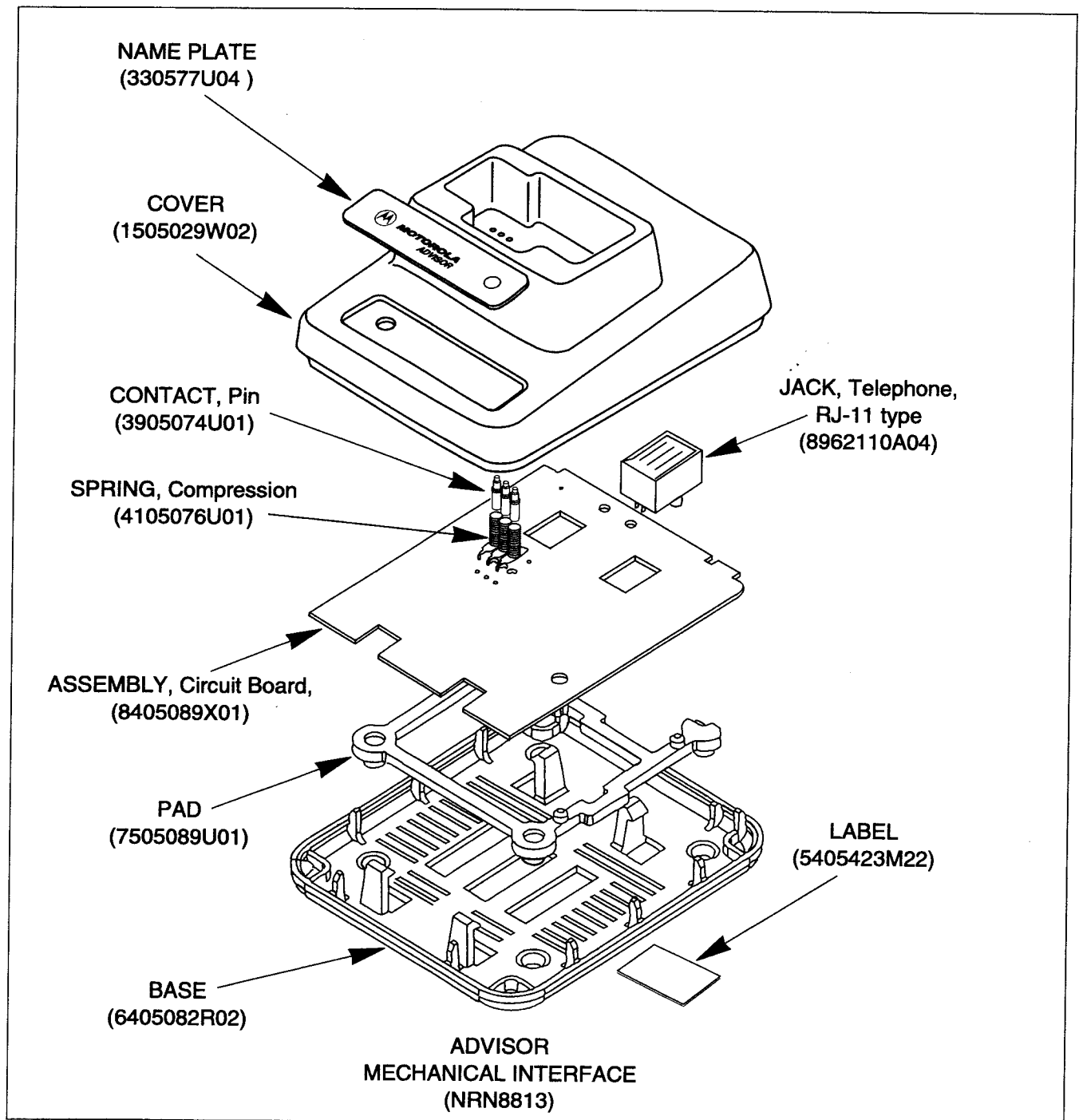
**PRODUCT SERVICES BULLETIN BOARD SERVICE (BBS)**

Motorola's Customer Product Service group now offers informative bulletin board services. The BBS provides access to technical information about Motorola's current paging products, service manuals, and programming and servicing tools. Other BBS features include e-mail access to pager tech support, PPS updates, and product service bulletins.

For access to the BBS, use any PC or Macintosh computer that is connected to a modem, set the modem to 8,N,1 and dial (561) 739-3069. In China set the modem to 8, N, 1 and dial (86) 10-461-1155 or (86) 10-461-0271. For further information about Product Services BBS call (561) 739-3255.

To obtain software revision updates or for other support contact the appropriate regional center listed in the Registration section.

## Exploded View Diagram and Parts List



AIPB-932751-B

*Figure 2. Exploded View Diagram*

## Troubleshooting Guide

## Troubleshooting Guide

Problem	Solution
Does ADVISOR programming software run on COM3 or COM4?	No. The PPS only supports COM1 and COM2 as valid selections.
When reading a pager, either the mouse no longer works or the communications to the pager cannot be re-established.	This error often results from setting an asynchronous mouse to the same communications port interrupt used for the programming software. It is recommended that one of the communications ports be changed. Check that both devices are not set to even. Check that both devices are not set to odd. If either of these conditions exist, reset one device to the opposite value of the other port.
The programming software reports a <b>Data Communications</b> error and never reads the pager.	Check the Programming Interface for correct installation. This is usually a 9- or 25- pin male connector on the back of the computer. Check that the power supply cable is connected to a power source. Check that the pager is in the OFF position and firmly seated in the Mechanical Interface (indicated by the illuminated red LED). Check if there are any RAM-resident programs running.
Pager does not function after programming has been performed.	Check that the cap code has not been changed. Check all functions. Ensure that the entries have not been programmed incorrectly or to inactive status. Check that the <b>Completely Silent Pager</b> field was not programmed to <b>Yes</b> . Check that the Data Inversion parameter has not been changed.

## Glossary

**Archive File**

A file which contains pager configuration information. This type of file is created from the Save Menu.

**Cadences**

Refers to the balanced, rhythmic flow of sound; the measure or beat of movement, from one sound to the next.

**Default**

A default is information automatically generated by the software program. Basically, any field that contains a preset selection is called a default. Default information can be changed as necessary. It is used to ensure that a basic entry is present for required information.

**Field**

An area on the screen in which you enter information.

**Highlight Bar**

The cursor is not represented by a single character space, but, instead, by a long bar.

**Sequential Programming**

Refers to programming more than one pager.

**Toggle**

To scroll through a list of selections.