



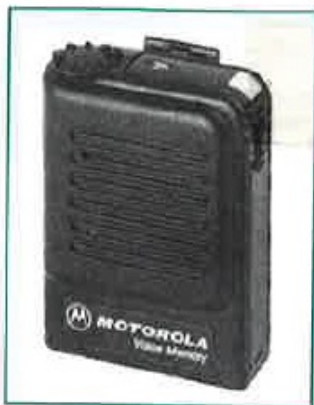
MOTOROLA

KeyNote

**Two-Tone Sequential Radio Pager
Tone & Voice
with Voice Memory**

INTRODUCTION

Congratulations on your choice of the Motorola *KeyNote* Two-Tone Sequential Coding Tone and Voice Pager with Voice Memory. This state-of-the-art receiver has been designed for ease of use, as well as high performance and reliability that pager users have come to expect from Motorola. The Voice Memory feature is an advanced technological breakthrough in radio paging equipment which offers the advantage of storing a voice message to be replayed at your convenience. Setting the pace with its unique, compact design and conformance to the most stringent quality standards, *KeyNote* Voice Memory is the ultimate tone-and-voice pager.



**Operating Instructions
68P81011B80-A**

BEFORE ATTEMPTING TO OPERATE YOUR PAGER, PLEASE READ THIS OPERATING INSTRUCTION MANUAL CAREFULLY SO THAT YOU MAY GET THE FULL BENEFIT FROM YOUR PAGER.

STEP 1. REMOVE PAGER FROM CARTON AND INSPECT.

Remove the pager from the shipping carton and inspect it for any damage which may have occurred in shipping.

STEP 2. BATTERY INSTALLATION

(Refer to Figure 1)

- Slide the battery door locking switch on the bottom of the pager fully in the direction of the arrow to unlock the battery compartment.
- Note the triangular arrow located on the square textured area on the battery door, slide the door in the direction of the arrow to fully expose the bottom of the battery compartment.
- Align the battery so that the battery's polarity markings (+ and -) match the polarity markings on the back cover near the battery door and insert the battery.
- Close the battery door by pressing slightly on the battery while sliding the door until it is fully closed and a positive click is heard. The battery door is self-locking. No

NOTE:

If a nickel-cadmium battery is installed, you may need to recharge the battery first to ensure optimum battery capacity and performance. Use either the Motorola NLN3305 120 VAC Battery Charger or the Motorola NLN3306 220 VAC Battery Charger, as applicable. For additional information on battery charging, please refer to the applicable charger manual.

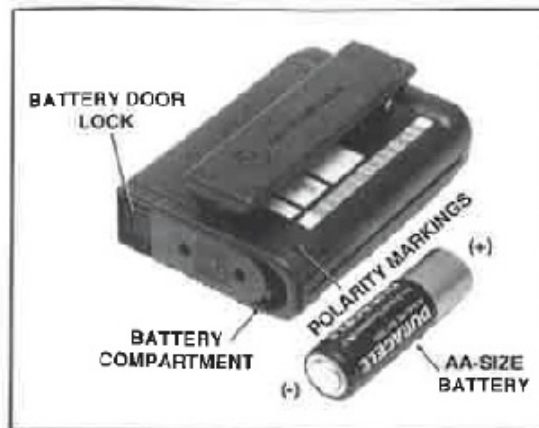


Figure 1.

further action to lock the door is necessary.

STEP 3. TURNING THE PAGER ON

On Mode: Sliding the 3-position switch in an upward direction "two notches" places the pager in the ON mode. Refer to Figure 2.

Silent Mode: Sliding the 3-position switch in an upward direction "one notch" places the pager in the silent mode.

STEP 4. BATTERY CONDITION CHECK

Immediately after the pager is placed in the ON or SILENT mode, the pager automatically tests the condition of the battery.

On Mode:

- A good battery is indicated by a power-up alert (double-interrupted 8-beep tone). A lamp on top of the pager will flash along with any alert tones as an additional indicator.
- A low battery is indicated by a fast pulsating beep and flashing lamp (1-second duration) immediately following the power up alert.

Silent Mode:

- A good battery is indicated by a double-interrupted flashing light (2-second duration). If equipped with the VIBRA-PAGE feature, a good battery is indicated by a continuous vibration and a double-interrupted flashing light (2-second duration).
- A low battery is indicated by a fast pulsating beep and flashing lamp (1-second duration) immediately following the power up lamp or vibration.

STEP 5. VOLUME CHECK AND ADJUSTMENT

In the ON mode, adjust the volume control for a comfortable listening level during the 2 second power-up alert. To check volume at a time other than power up, press the monitor/reset button. This will result in channel communication noise which verifies volume setting or allows adjustment to a more comfortable listening level if required. Channel audio will not be heard when equipped with the Private Message Only Option. Instead a short beep tone will allow you to verify and adjust the volume setting.



Figure 2.

STEP 6. PAGING OPERATION

Your pager can be configured with different call options, permitting flexible tone-and-voice operation.

a. Operation for Tone-and-Voice Calls

On Mode: When a page is received in the ON mode, the pager emits an alert tone followed by a voice message. When the voice message is complete, press and release the monitor/reset button to silence the pager.

SILENT Mode: In the SILENT mode, the incoming voice message is stored without activating the speaker.

b. Operation with Voice Memory

The *KeyNote* with Voice Memory stores up to four 8-second messages. Playback is accomplished by pressing the three-position On-Off Switch. When the switch is used in this manner, it is referred to as the "VOICE" playback button.

ON Mode: All incoming voice pages are stored as they are received. During the voice message, the pager can be reset by

pressing either the monitor/reset button or the "VOICE" playback button. The pager must be reset after an incoming message before pressing the "VOICE" playback button to retrieve a voice message from memory.

Resetting the pager during an incoming message quiets the pager, but the full voice message continues to be stored in memory, (up to eight seconds).

If additional pages are received after all four memory slots are filled, the incoming page deletes and replaces the oldest message in memory.

NOTE

Should the voice message exceed the allotted message length for your pager, only the first eight seconds will be heard when the message is played back from memory. You will, however, hear the entire message in "real time" (i.e., when the message is first transmitted).

Selective Playback of Messages: To playback a particular message in memory, press the "VOICE" playback button. Pushing this button once replays the most recent

heard. A 1/2 second "beep" is heard between messages as they are played back.

WARNING

When power to the pager is turned off, any stored messages are erased.

c. Standard Features

Push-To-Listen (SILENT Mode only): When the ON/OFF/VOICE switch is placed in the center position, and if the vibrator is not installed, the pager will remain totally silent when paged. The indicator lamp will flash, alerting you to a stored message. If the vibrator is installed, it will vibrate when a page is received.

Automatic Listen/Manual Reset: When the pager is in the ON mode, a voice message will immediately follow the alert tone. After the voice message, the pager monitors the channel unless the monitor/reset button is pressed and released.

Battery Level Check and Monitor: Each time the pager is turned on, or the monitor/reset button is pressed and released, the battery level is checked (refer to BATTERY TEST in Figure 3). If the battery

message stored in memory; twice replays the second most recent message stored in memory, three times for the third most recent; and four times for the oldest message in memory. The pager returns to the standby mode after playback of the last stored message.

If there are no messages in memory, a special "memory empty" tone is heard when the "VOICE" playback button is pressed.

SILENT Mode: All pages received in the SILENT mode are stored the same way as in the ON mode, except that the alert is totally silent. The pager, when equipped with a vibrator, vibrates and then stores the incoming voice message, without activating the speaker, for retrieval at your convenience. When placed in this mode, the red lamp at the top of the pager flashes once every two seconds to remind you that there are voice messages in memory that you still have not played back.

When unplayed messages exist and the "VOICE" playback button is pressed, the pager plays back the most recent voice message, and continues to play back messages until the last unread message has been

voltage drops below a minimum level (approximately 1.1 volts), an automatic low battery warning will be heard, which is a 1-second fast pulsating beep. If you hear this alert, you should replace the Alkaline battery within a few days. A rechargeable battery should be replaced or recharged within a few hours.

d. Optional Features

Two Stored Messages, 16 Seconds each: With this option installed, two mes-

sages, each up to 16 seconds in length, may be stored (instead of the standard four 8-second messages). Any additional messages received replace the oldest message in memory.

NOTE:

Ensure that your paging system has been modified to support the transmission of 16-second length voice messages.

Group Call: With this option, if a group call address is transmitted, the pager emits a

BATTERY TEST				OPERATION	
Power-Up Alert: If Pager is OFF, Slide Switch from OFF to ON		If Pager is Already On, Depress RESET Switch			
Good Battery	Low Battery	Good Battery	Low Battery	Standard	Group Call
Double-Interrupted 8-Beep Tone	1. Double-Interrupted 8-Beep Tone followed by a fast-pulsating Beep 2. No beep at all	Channel noise or audio	Audio, followed by fast-pulsating beep	Interrupted Tone followed by voice message on reset release or no sound all	Continuous Tone followed by voice message.

Figure 3. Quick Reference Chart

- * Pager must be manually reset after voice message. To reset, press and release the Monitor/Reset button.

special group-call alert (continuous tone). The group-call alert indicates that the paging message is intended for all members of a particular group.

NOTE:

The following options may not be factory configurable. They can be installed in the field with the Motorola NLN3307 Portable Code Plug Programmer when connected to an IBM® PC™ or compatible computer. For further information on how to add any of these features to your pager, contact your service-provider or your Motorola sales representative.

Fixed Alert/Audio-Only Volume Control:

When this option is installed, the alert tone volume is preset (non-adjustable) at the maximum volume level. Turning the volume control will vary only the voice-message volume level.

Private Message Only: With this option, pagers are capable of receiving only those messages intended for the individual user. The Monitor/Reset button will not allow channel monitoring, and the pager will automatically reset to the standby mode after a

BATTERY INFORMATION

Battery Types: The pager is designed to operate with a single AA-size alkaline battery (Motorola type NLN8278) or a single AA-size nickel-cadmium battery (Motorola type NLN7057). Either of these batteries will provide optimum pager performance.

AA-size alkaline or nickel-cadmium batteries from other manufacturers may give comparable performance, but have not been tested by Motorola. Substitution of a battery other than those recommended by Motorola could reduce operating life.

REPLACING THE BATTERY

When necessary, replace the battery by following the instructions listed in STEP 2, under BATTERY INSTALLATION.

REPAIR AND MAINTENANCE

The *KeyNote* Voice Memory pager, properly handled, is capable of many years of trouble-free service. However, should it ever require service, Motorola's National Service Organization, staffed with specially trained technicians, offers strategically located repair and maintenance facilities.

message is received. If the Monitor/Reset button is pushed during an incoming message, the message will not be heard; however, it will be stored in memory. If the VOICE playback button is pressed during voice storage, the message will be played back until storage is complete. The pager will then revert to the standby mode.

Chirp In Mem: With this option, when the pager is placed in the SILENT mode, a short "chirp" is emitted each time a page is received.

Push to Listen (Audio Mode): With this option, the voice message following the alert tones is not heard unless you immediately press and hold the monitor/reset button. The message is still automatically stored in the pager's memory.

Omit Battery Saver: With this option, the battery saver circuitry is disabled. Battery life will be severely degraded.

Special Calling Options: There are many additional calling options available. Contact your Motorola sales representative for further details.

Consult your Motorola sales representative for service locations in your area.

COMPUTER SOFTWARE COPYRIGHTS

The Motorola products described in this manual may include copyrighted Motorola computer programs stored in semiconductor memories or other media. Laws in the United States and other countries preserve for Motorola certain exclusive rights for copyrighted computer programs, including the exclusive right to copy or reproduce in any form the copyrighted computer program. Accordingly, any copyrighted Motorola computer programs contained in the Motorola products described in this manual may not be copied or reproduced in any manner without the express written permission of Motorola. Furthermore, the purchase of Motorola products shall not be deemed to grant either directly or by implication, estoppel, or otherwise, any license under the copyrights, patents or patent applications of Motorola, except for the normal, non-exclusive, royalty-free license to use that arises by operation of law in the sale of a product.

NOTE:

To maintain intrinsic safety in hazardous location environments per U.L. listing, use only Motorola external accessories: Earphone, model number NRN5521A w/ external Speaker Jack, option R-394.

Battery Chargers are not for use in Hazardous Locations.

Ⓜ and Motorola are registered trademarks of Motorola, Inc.
KeyNote is a trademark of Motorola, Inc.

IBM and PC are trademarks or registered trademarks of International Business Machines Corp.

© 1991 by Motorola, Inc. Paging Division
1500 N.W. 22nd Avenue
Boynton Beach, FL 33426-8292
Printed in U.S.A. 11/91



6881011B80-A