



6011N 4-line Alphanumeric Display FLEX Pager User Manual

Version 0.3

(ENGINEERING DEPARTMENT)

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1. The 6011N Pager

1.1 Pager Overview

The two-dimensional views of the pager are shown below. The dimensions of the pager are about 73.5mm(L) x 50mm(W) x 18.5mm(D).

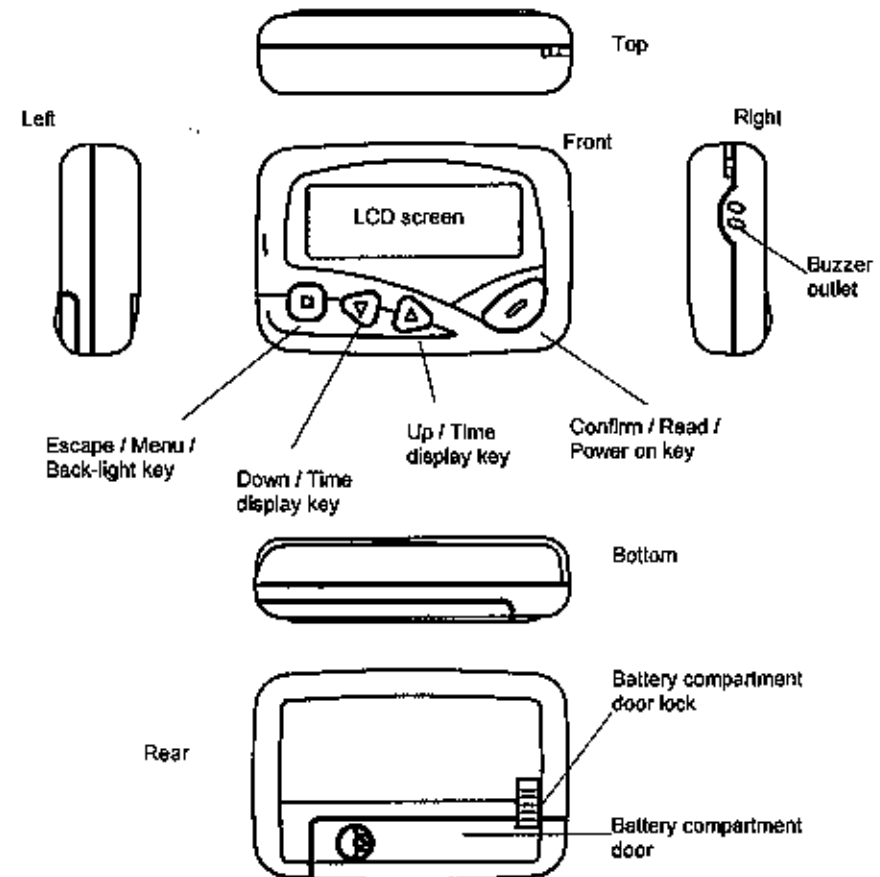


Figure 1-1 Overview of the 6011N pager

1.2 Key Overview

A. Confirm - ■

- To read messages
- To power on the pager
- To confirm the settings during pager function setup

B. Up - ▲

- To read messages
- To move the highlight bar upwards to select a function item
- To move the cursor to the right during pager function setting
- To display current date and time when the pager is in the standby mode

C. Down - ▼

- To adjust number or time during any pager function setting
- To move the highlight bar downwards to select a function item
- To move the cursor to the left during pager function setting
- To display current date and time when the pager is in the standby mode

D. Menu - ■

- To access all pager functions
- To skip the setup and return to the previous pull-down menu
- To activate the back-light by pressing and holding the key for 2 seconds

1.3 Status Icons

☐	The pager is not in the service area
◀	Audio alert mode
⚡	Vibration alert mode
⏻	The auto on/off timer is on
🔇	The silent reception function is set and activated
🔊	The silent reception function is set but inactivated
🕒	The first alarm clock is set
🕒	The second alarm clock is set
🕒	Both the first and the second alarm clocks are set
🔋	Low battery indication

2. Features of 6011N

2.1 Memory Capacity

One feature of the 6011N pager is its large memory capacity. The memory is partitioned into 3 memory banks for storing different types of messages - they are,

- user memory bank,
- personal memory bank, and
- news memory bank.

2.1.1 User Memory Bank

A maximum of 40 user messages can be stored in the user memory bank. The length of each message is limited by the maximum storage capacity, which is 5,000 ASCII characters.

Each message is assigned with a time stamp showing the receiving time and date of the message. The following message will be displayed if the user memory bank is full.



Figure 2-1 The message showing the user memory bank is full

When a new message is received, the oldest read messages will be deleted automatically to free up more memory storage (in case if all messages are not yet read, the pager will then delete the oldest *unread* one). Audio or vibration alert will be generated after a message has been received.

2.1.2 Personal Memory Bank

The maximum capacity of the personal memory bank is 20 user messages. Since these messages are copied from the user memory bank, the structure of each personal message is identical with that of a user message. The total storage capacity of personal memory bank is limited to 2,200 ASCII characters.

The following message will be displayed if the personal memory bank is full. The user has to delete some old messages before new ones can be copied from the user memory bank.



Figure 2-2 The message showing the personal memory bank is full

2.1.3 News Memory Bank

There are totally 16 mailbox locations associated with each user programmable address. The maximum storage capacity for this bank is up to 23,500 ASCII characters and each message can hold up to a maximum of 9,000 ASCII characters.

Indicating parameters such as time stamp and message number are also stored with each message. The memory bank adopts a mailbox structure for storing news messages.

Messages transmitted through the second address can be stored either into the user memory bank or the news memory bank. Since the maximum message length for the two memory banks are different, the length of an incoming message depends on which memory bank that this message is assigned to.

2.2 Display Pattern

The LCD of 6011N is a 128 x 32 pixels dot matrix display panel which is able to display,

1. four lines small font ASCII character - 20 ASCII characters for each line with font size 8 x 6 pixels, and
2. two lines half size ASCII character - 15 ASCII characters for each line with font size 8 x 16 pixels.

2.3 Back-lighting

The EL back-light can be turned on by holding the Menu key (■) for 2 seconds or more. The back-lighting will be turned off automatically after 8 seconds.

2.4 Built-in Vibrator

The pager comes with a built-in vibrator. Once the vibration alert mode is selected, the user will be notified by the vibration alert if any new message is received.

2.5 Battery Backup

All pager settings and messages will be retained when the pager is turned off or the battery is being replaced. The backup battery can last for up to 5 minutes.

2.6 Word Wrapping

When the size of a word exceeds the remaining display line, the whole word is automatically shifted to the next line. This feature is only applicable to those messages shown in small font.

2.7 Status and Functional Indication

2.7.1 Battery Power Low Indication

If the battery power is getting low, the pager will alert the user by generating a long beeping signal and display the following message.



Figure 2-3 Battery power low indication screen

The alert can be dismissed by pressing any key and the  icon will be displayed in the standby screen to remind the user to replace the battery.

Please follow the steps outlined below for battery replacement.

1. Turn off the pager.
2. Unlock and open the battery compartment door, pick out the old battery.
3. Place the new 'AAA' size battery with correct polarity.
4. Close and lock the battery compartment door.
5. Hold the Confirm key () for 2 seconds to turn on pager.

Please note that the *new battery must be replaced within 5 minutes*, otherwise all settings and messages in the memory banks will be lost.

2.7.2 Time Stamp Indication

A time stamp is shown at the end of each message. This time stamp serves to indicate the date and time for message reception.

2.7.3 Duplicate Message Indication

A duplicate message may be sent to remind the user, thus the message contains exactly the same contents as a previous message.

When the pager receives a new message, it will automatically scan the memory bank and check for duplicate message. The  icon will be shown at the upper right corner of the LCD for a duplicate message.

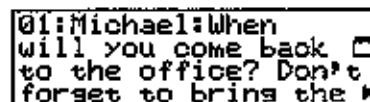


Figure 2-4 A duplicate message

The duplicate message will be placed into the same memory location as the old one, no extra memory storage will be used for duplicate messages.

2.7.4 Service Area Indication

When the pager is not in the service area, the  icon will appear to indicate that the pager is temporarily not able to receive any message. If the pager is inside the service area again, the  icon will disappear to notify the user that the pager has resumed its functions.

2.7.5 Error Message Indication

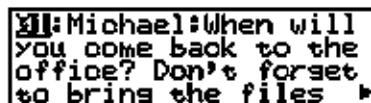
When a message is not received completely, all erroneous characters will be replaced by '' (the underscore symbol). Please contact the paging operator to check the complete message.

2.7.6 Next Page Indication

The  icon will be shown at the lower right corner of the LCD if part of the message is displayed on the next page during message viewing.

2.7.7 Unread Message Indication

When a new user message or news message is read first time, the message number will be displayed in reverse character to indicate that the message is previously unread.



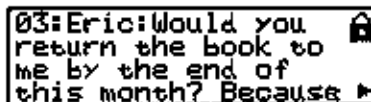
Y1:Michael:When will
you come back to the
office? Don't forget
to bring the files ▶

Figure 2-5 A previously unread user message

The total number of unread messages in the user memory bank will be indicated in the status screen.

2.7.8 Protected Message Indication

The '🔒' icon will be shown at the upper right corner of the LCD if a message has been protected during message viewing.



03:Eric:Would you
return the book to
me by the end of
this month? Because ▶ 🔒

Figure 2-6 A protected message

2.8 Basic Functions

2.8.1 Auto Display of Message Pages

The pager will automatically display the remaining parts of a message during message viewing.

2.8.2 Alert Mode and Melody Selection

The user can select audio alert mode or vibration alert mode for message paging (Section 3.5.1). For audio alert mode, the user can select any of the 8 preset melodies as the audio alert for different types of message paging other than the standard beeping tone (Section 3.5.2).

2.8.3 Message Removal, Copying and Protection

Messages in each of the 3 memory banks can be deleted individually. The user can also remove all messages in a particular memory bank (Section 3.4.7 and Section 3.4.8).

Besides the message removal function, the user can copy up to 20 user messages from the user memory bank to the personal memory bank to serve as a means of keeping important messages (Section 3.4.6). A prompt message will be displayed if the personal memory bank is full and the copying function will be aborted automatically.

Further, a total of 20 user messages can be protected (Section 3.4.5). Again a prompt message showing memory full for protected messages will be displayed if the maximum number of protected messages has reached.

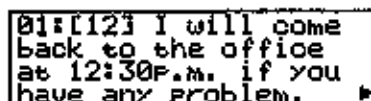
2.8.4 Message Screening

The user can hold the Confirm key (■) or an arrow key (▲ or ▼) for 2 seconds or more to screen a message page by page at the rate of 0.5 second per page (Section 3.4.3).

2.8.5 Message Numbering and Message Retrieval

The feature provides a means for identifying fragments of the same message in the reconstruction process; and allows detection of a missed message whenever a message number is skipped. This feature enables the user to order his messages through displaying the number as part of the message.

When the paging operator sends the message with the message retrieval information, the message retrieval number will be displayed at the beginning of the message for identifying whether this message was missing. The message retrieval number is bounded by the '[]' symbol like as below.



```
01:[12] I will come  
back to the office  
at 12:30P.M. if you  
have any problem.
```

Please note that the availability of this feature is system dependent, that is a paging operator or system provider may or may not provide this retrieval service.

2.8.6 Real Time Clock

The pager has a real-time clock which can be displayed on the standby screen (Section 3.5.3).



```
HUTCHISON  
14-JUL-97 03:13PM
```

Figure 2-7 The real time clock

2.8.7 Stay-in News Viewing Mode

A news message can be kept locked and 'stayed' on the screen. After the pager enters the standby mode, the user can read this particular news message again by pressing any key.

2.9 Additional Functions

2.9.1 Auto Timer

An auto timer is included in the pager to control the automatic on and off time range of the pager (Section 3.5.4).

2.9.2 Silent Timer

The silent timer is used to activate and deactivate the function of silent message receiving (Section 3.5.5).

2.9.3 Appointment Alarms

The pager has 2 appointment alarms. The user can set either one or both of the alarms as a personal reminder. The alarms can be adjusted to alert either 'one-off' or daily (Section 3.5.6).

2.9.4 Unread Message Alarm

When a message is received but not yet read, the pager will generate a periodic audio alert to remind the user for this unread message. The alarm interval can be adjusted by the user (Section 3.5.7).

2.9.5 Personal Message Alarm

Individual alarm can be set for each message stored in the personal memory bank to remind the user for any important message or appointment (Section 3.5.8).

2.9.6 News Message Alarm

The user can set a news message alarm for each mailbox so that a short alert will be generated whenever there is a new incoming message (Section 3.5.9).

2.9.7 Message Display Duration Adjustment

Each page of the message is set to be stayed on the screen for 8 seconds before the next page is displayed. The message display duration can be adjusted by the user (Section 3.5.10).

2.9.8 Audio Alert Duration Adjustment

The user can adjust the duration for standard beeping tone. This function is not applicable to melody alert (Section 3.5.11).

2.9.9 LCD Contrast Level Adjustment

The user can adjust the LCD contrast level for a sharper display (Section 3.5.12).

2.9.10 Key Beep Enabling/Disabling

The key beep function is included to notify the user by generating a 'click' sound whenever a key is being pressed. This function can be enabled or disabled (Section 3.5.13).

2.9.11 Character Font Size Adjustment

The user can select either small font or half font size for messages viewing. The selected font size will be applied to all message viewing modes (Section 3.5.14).

2.10 Pull-down Menu

The pull-down menus of 6011N works similarly as that of the MS Windows. The menu system provides users with a handy method of manipulating all the functions in the pager. All pager functions are grouped into menus which are designed to hold pager functions with similar nature to form a group.

The main menu gives access to all the sub-menus. An explanation of each function item is shown at the main pull-down menu.

By pressing the Up key (▲) and the Down key (▼), the user is able to move and locate the highlight bar onto the desired item of a menu. Selection of that particular item is done by pressing the Confirm key (■).

An illustration of pull-down menu operation is given below.

1. Press the Menu key (■) to invoke the main menu from the status screen or the standby screen.



■ key



▲ key or ▼ key



▲ key or ▼ key



■ key



2. Locate the highlight bar to select an item from the main menu by pressing an arrow key continuously (▲ or ▼).

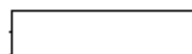
3. Each sub-menu can be invoked by pressing the Confirm key (■) at the sub-menu selection item ('ACCESSORIES', 'AUDIO SETUP' or 'DISPLAY SETUP').

4. Note: A dash line will appear in certain sub-menus. This dash line indicates the end of the sub-menu has been reached.

3. Pager Operation

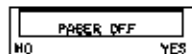
3.1 Turning On the Pager

1. Press and hold the Confirm key (■) for 2 seconds or more to turn on the pager.
2. The paging operator's name and the model name will be displayed.
3. A 4-second audio or vibration alert will be generated, depending on which alert mode is selected.
4. Press any key to dismiss the alert. The pager will then display the status screen.

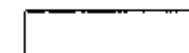


3.2 Turning Off the Pager

1. Press the Menu key (■) to invoke the main menu from the status screen or the standby screen.
2. Locate the highlight bar to 'PAGER OFF' by pressing the Down key (▼).
3. Press the Confirm key (■) to access the confirmation screen.



4. Press the Confirm key (■) under 'YES' to turn off the pager.
5. Or press the Menu key (■) under 'NO' to abort the operation.



3.3 Accessing Memory Banks

1. Press the Menu key (■) to invoke the main menu from the status screen or the standby screen.
2. Locate the highlight bar to select a memory bank by pressing an arrow key continuously (▲ or ▼).
3. Press the Confirm key (■) to access the corresponding memory bank.



or



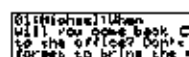
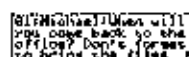
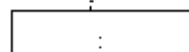
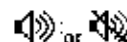
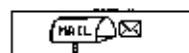
or



3.4 Message Handling

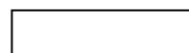
3.4.1 User/Group Message Receiving

1. The pager will generate an audio alert or vibration alert when a new message is received. A notification screen will be displayed simultaneously.
2. Press any key to dismiss the alert. The display will become blank.
3. The user can access the user memory bank to read the message, or by pressing the Confirm key (■) to view the received message directly from the standby screen.
4. **Note:** If the message is a duplicate one, the "□" icon will be shown at the upper right corner of the screen.



3.4.2 Unread Message Checking

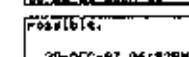
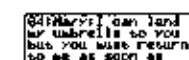
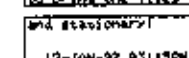
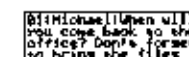
1. The user can check the number of unread messages by pressing the Menu key (■) from the standby screen, an unread message icon (■) will be displayed.
2. The number on the icon indicates the total number of unread messages.



"There is 1 unread message only."

3.4.3 Message Screening

1. To glance through all messages quickly in any memory bank, press the Confirm key (■) or an arrow key continuously (▲ or ▼).
2. All messages will be scrolled page by page in either ascending or descending order of the message sequence number.



3. **Note:** Message screening adopts a circular operation mode. For example, in the ascending screening mode, message 01 will be re-displayed after reaching the earliest message.

3.4.4 Fast Message Screening

1. To glance through the first pages of the messages, press and hold an arrow key (▲ or ▼) for 2 seconds or more.
2. All messages will be scrolled page by page in either ascending or descending order of the message sequence number at a rate of 2 messages per second.

01:Michael: When will you come back to the office? Don't forget to bring the files.

01:Michael: When will you come back to the office? Don't forget to bring the files.

02:Mary: Harry! Could you have dinner with us? 12-Aug-97 12:00pm

04:Mary: I can lend my umbrella to you but you must return to me as soon as

3.4.5 Message Protecting

1. Locate the user/group message to be protected (locked) by continuously pressing the Confirm key (■).
2. Press the Menu key (■) to invoke the user memory bank sub-menu.
3. Locate the highlight bar to 'MESSAGE UTILITY' by pressing the Down key (▼).

03:Eric: Would you return the book to me by the end of this month? Thanks.

03:Eric: Would you return the book to me by the end of this month? Thanks.

03:Eric: Would you return the book to me by the end of this month? Thanks.

03:Eric: Would you return the book to me by the end of this month? Thanks.

4. Press the Confirm key (■) to invoke the second-level sub-menu.

03:Eric: Would you return the book to me by the end of this month? Thanks.

key

03:Eric: Would you return the book to me by the end of this month? Thanks.

03:Eric: Would you return the book to me by the end of this month? Thanks.

▼ key

03:Eric: Would you return the book to me by the end of this month? Thanks.

03:Eric: Would you return the book to me by the end of this month? Thanks.

5. Locate the highlight bar to 'PROTECT MESSAGE' by pressing the Down key (▼).

6. Press the Confirm key (■) to execute the function.

7. Note: If the message is protected, the 'P' icon will be shown at the right of the screen

8. A warning message will be displayed if the number of protected messages has reached the limit.

MESSAGE
PROTECT FULL

3.4.6 Message Copying

1. Locate the user/group message to be copied by continuously pressing the Confirm key (■).
2. Press the Menu key (■) to invoke the user memory bank sub-menu.

01:Michael: When will you come back to the office? Don't forget to bring the files.

01:Michael: When will you come back to the office? Don't forget to bring the files.

3. Locate the highlight bar to 'MESSAGE UTILITY' by pressing the Down key (▼).

```
011MichaelWhen will
NEW MESSAGE
PERSONAL MESSAGE
```

▼ key

```
011MichaelWhen will
NEW MESSAGE
MESSAGE UTILITY
```

4. Press the Confirm key (■) to invoke the second-level sub-menu.

```
011MichaelWhen will
NEW MESSAGE
MESSAGE UTILITY
```

■ key

```
011MichaelWhen will
DELETE ALL MESSAGES
```

5. Locate the highlight bar to 'STORE MESSAGE' by pressing the Down key (▼).

```
011MichaelWhen will
DELETE ALL MESSAGES
```

▼ key

```
011MichaelWhen will
PROTECT MESSAGE
STORE MESSAGE
```

6. Press the Confirm key (■) to access the confirmation screen.

```
011MichaelWhen will
STORE MESSAGE
NO YES
```

7. Press the Confirm key (■) under 'YES' to copy the message into the personal memory bank.

Message 01

↓
Personal memory bank

8. Or press the Menu key (■) under 'NO' to abort the operation.

```
PERSONAL
MEMORY FULL
```

9. A warning message will be displayed if the personal memory bank is full. The copying operation will be aborted.

3.4.7 Individual Message Removal

1. Locate the user/group message to be deleted by continuously pressing the Confirm key (■).

```
041HarriI can lend
or borrow to you
but you must return
to me by noon 22
```

2. Press the Menu key (■) to invoke the user memory bank sub-menu.

```
041HarriI can lend
NEW MESSAGE
PERSONAL MESSAGE
```

3. Locate the highlight bar to 'MESSAGE UTILITY' by pressing the Down key (▼).

```
041HarriI can lend
NEW MESSAGE
PERSONAL MESSAGE
```

▼ key

```
041HarriI can lend
NEW MESSAGE
MESSAGE UTILITY
```

4. Press the Confirm key (■) to invoke the second-level sub-menu. The 'DELETE MESSAGE' item is located immediately.

```
041HarriI can lend
NEW MESSAGE
MESSAGE UTILITY
```

■ key

```
041HarriI can lend
DELETE ALL MESSAGES
```

5. Press the Confirm key (■) to access the confirmation screen.

```
041HarriI can lend
DELETE ALL MESSAGES
```

6. Press the Confirm key (■) under 'YES' to delete the message.

```
041HarriI can lend
DELETE MESSAGE
NO YES
```

7. Note: The succeeding message will substitute the removed one (in this example Message 05 becomes Message 04).

```
051Eskat have sold
land that you will
be using today
I'll pass back your
```

8. Or press the Menu key (■) under 'NO' to abort the operation.

3.4.8 Memory Bank Erasure

1. Locate a particular memory bank from the main menu (please refer to Section 3.3). The example here refers to the user memory bank.

```
01:Michael:When will
you come back to the
office? Don't forget
to bring the files
```

2. Press the Menu key (■) to invoke the user memory bank sub-menu.

```
01:Michael:When will
you come back to the
office? Don't forget
to bring the files
```

3. Locate the highlight bar to 'MESSAGE UTILITY' by pressing the Down key (▼).

```
01:Michael:When will
you come back to the
office? Don't forget
to bring the files
```

▼ key

```
01:Michael:When will
you come back to the
office? Don't forget
to bring the files
```

4. Press the Confirm key (■) to invoke the second-level sub-menu.

```
01:Michael:When will
you come back to the
office? Don't forget
to bring the files
```

■ key

```
01:Michael:When will
you come back to the
office? Don't forget
to bring the files
```

5. Locate the highlight bar to 'DELETE ALL MESSAGES' by pressing the Down key (▼).

```
01:Michael:When will
you come back to the
office? Don't forget
to bring the files
```

▼ key

```
01:Michael:When will
you come back to the
office? Don't forget
to bring the files
```

6. Press the Confirm key (■) to access the confirmation screen.

```
01:Michael:When will
you come back to the
office? Don't forget
to bring the files
```

■ key

```
NO USER
MESSAGE
```

7. Press the Confirm key (■) under 'YES' to erase the memory bank contents.

8. Note: A message will be displayed to notify the user that the memory bank is empty.

9. Or press the Menu key (■) under 'NO' to abort the operation.

3.5 Function Setup Handling

3.5.1 Alert Mode Selection

1. Press the Menu key (■) to invoke the main menu from the status screen or the standby screen.

```
01:HUTCHISON
```

■ key

```
USER MESSAGE
PERSONAL MESSAGE
NEWS MESSAGE
PAGER TOP
```

2. Locate the highlight bar to 'ALERT - VIBRATE' by pressing the Down key (▼).

```
USER MESSAGE
PERSONAL MESSAGE
NEWS MESSAGE
PAGER TOP
```

▼ key

```
ALERT - VIBRATE
ALERT - AUDIO
ALERT - OFF
ALERT - SETUP
```

or

3. Press the Confirm key (■) to toggle between audio or vibration alert mode.

```
ALERT - VIBRATE
ALERT - AUDIO
ALERT - OFF
ALERT - SETUP
```

4. Note: If the vibration alert mode has been selected previously, the 'ALERT - AUDIO' item would be displayed instead.

5. If audio alert mode is selected, the pager will generate a short (0.5 second) beeping tone for notification. The '4' icon will appear on the status screen.

→ 0.5s BB

6. If vibration alert mode is selected, the pager will vibrate 2 seconds for notification. The '4' icon will appear on the status screen.

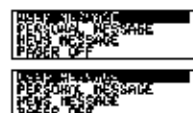
→ 2s

3.5.2 Melody Selection

1. Press the Menu key (■) to invoke the main menu from the status screen or the standby screen.



■ key



2. Locate the highlight bar to 'AUDIO SETUP' by pressing the Down key (▼).

▼ key



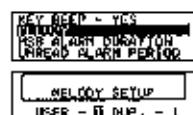
3. Press the Confirm key (■) to invoke the sub-menu.

■ key

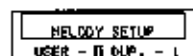


4. Locate the highlight bar to 'MELODY' by pressing the Down key (▼).

▼ key

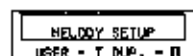


5. Press the Confirm key (■) for melody selection.

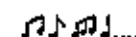


6. Press the Confirm key (■) to move the cursor between the adjustable fields.

■ key



7. Press an arrow key (▲ or ▼) to select a melody or the standard beeping tone for a call type. The pager will then play the melody or the beeping tone.



8. Press the Menu key (■) to confirm the settings and return to the status screen.



3.5.3 Real Time Clock Adjustment

1. Press the Menu key (■) to invoke the main menu from the status screen or the standby screen.



■ key



2. Locate the highlight bar to 'ACCESSORIES' by pressing the Down key (▼).

▼ key



3. Press the Confirm key (■) to invoke the sub-menu.

■ key



4. Locate the highlight bar to 'CLOCK' by pressing the Down key (▼), then press the Confirm key (■) for real time clock adjustment.

APPOINTMENT ALARM
AUTO ON/OFF TIMER
SILENT TIMER
CLOCK

▼ key

APPOINTMENT ALARM
AUTO ON/OFF TIMER
SILENT TIMER
CLOCK

■ key

CLOCK SETUP
01-JAN-97 02:23PM

CLOCK SETUP
01-JAN-97 02:23PM

5. Press an arrow key (▲ or ▼) to move the cursor between the adjustable fields.

▲ key or ▼ key

CLOCK SETUP
01-JAN-97 02:23PM

CLOCK SETUP
01-JAN-97 02:23PM

6. Press the Confirm key (■) to adjust the date and time.

■ key

CLOCK SETUP
12-FEB-98 09:02AM

7. Press the Menu key (■) to confirm the settings and return to the status screen.

HUTCHISON

3.5.4 Auto Timer Setup

1. Press the Menu key (■) to invoke the main menu from the status screen or the standby screen.

HUTCHISON

■ key

HELP MESSAGE
PERSONAL MESSAGE
BUS MESSAGE
PAGER OFF

HELP MESSAGE
PERSONAL MESSAGE
BUS MESSAGE
PAGER OFF

2. Locate the highlight bar to 'ACCESSORIES' by pressing the Down key (▼).

▼ key

BLEEP - AUTO
PERSONAL MESSAGE
BUS MESSAGE
PAGER OFF

BLEEP - AUTO
PERSONAL MESSAGE
BUS MESSAGE
PAGER OFF

3. Press the Confirm key (■) to invoke the sub-menu.

■ key

APPOINTMENT ALARM
AUTO ON/OFF TIMER
SILENT TIMER
CLOCK

APPOINTMENT ALARM
AUTO ON/OFF TIMER
SILENT TIMER
CLOCK

4. Locate the highlight bar to 'AUTO ON/OFF TIMER' by pressing the Down key (▼), then press the Confirm key (■) for auto timer setup.

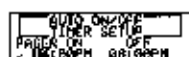
▼ key

APPOINTMENT ALARM
AUTO ON/OFF TIMER
SILENT TIMER
CLOCK

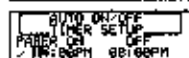
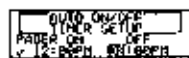
■ key

AUTO ON/OFF
TIMER SETUP
PAGER ON OFF
7:00:00PM 8:00:00PM

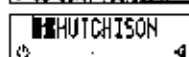
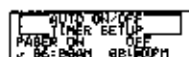
5. Press an arrow key (▲ or ▼) to move the cursor between the adjustable fields.



▲ key or ▼ key



— key



6. Press the Confirm key (—) to adjust the on time and off time, and activate or deactivate the timer (by selecting between 'v' and 'x').

7. Press the Menu key (■) to confirm the settings and return to the status screen. The 'P' icon will appear to indicate that the auto timer has been set.

3.5.5 Silent Timer Setup

1. Press the Menu key (■) to invoke the main menu from the status screen or the standby screen.



■ key



▼ key



2. Locate the highlight bar to 'ACCESSORIES' by pressing the Down key (▼).

3. Press the Confirm key (—) to invoke the sub-menu.



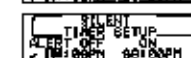
— key



▼ key



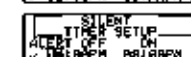
— key



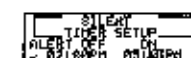
4. Locate the highlight bar to 'SILENT TIMER' by pressing the Down key (▼), then press the Confirm key (—) for silent timer setup.

5. Press an arrow key (▲ or ▼) to move the cursor between the adjustable fields.

▲ key or ▼ key



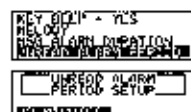
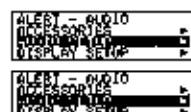
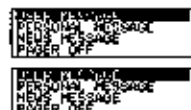
— key



6. Press the Confirm key (—) to adjust the on time and off time, and activate or deactivate the timer (by selecting between 'v' and 'x').

3.5.7 Unread Message Alarm Period Adjustment

1. Press the Menu key (■) to invoke the main menu from the status screen or the standby screen.



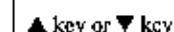
2. Locate the highlight bar to 'AUDIO SETUP' by pressing the Down key (▼).

3. Press the Confirm key (■) to invoke the sub-menu.

4. Locate the highlight bar to 'UNREAD ALARM PERIOD' by pressing the Down key (▼).

5. Press the Confirm key (■) for unread message alarm period adjustment.

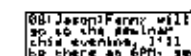
6. Press an arrow key (▲ or ▼) to select a time period among the options of 2, 3, 4 and 5 minutes.



7. Press the Menu key (■) to confirm the setting and return to the status screen.

3.5.8 Personal Message Alarm Setup

1. Locate the message in the personal memory bank (please refer to Section 3.3 for accessing a memory bank) by continuously pressing the Confirm key (■).



2. Press the Menu key (■) to invoke the personal memory bank sub-menu.



3. Locate the highlight bar to 'MESSAGE UTILITY' by pressing the Down key (▼).



4. Press the Confirm key (■) to invoke the second-level sub-menu.



- Locate the highlight bar to 'PERSONAL MSG ALARM' by pressing the Down key (▼). Press the Confirm key (■) for personal message alarm setup.

```
801JasonFanner will
DELETE ALL MESSAGES
[highlight bar on DELETE ALL MESSAGES]
```

▼ key

```
801JasonFanner will
DELETE ALL MESSAGES
PERSONAL MSG ALARM
[highlight bar on PERSONAL MSG ALARM]
```

■ key

```
801JasonFanner will
PERSONAL MSG ALARM
[highlight bar on PERSONAL MSG ALARM]
```

```
801JasonFanner will
PERSONAL MSG ALARM
[highlight bar on PERSONAL MSG ALARM]
```

- Press an arrow key (▲ or ▼) to enable or disable the alarm.

- Note:** The alarm time field will be prompted to the user once the alarm is enabled.

▲ key or ▼ key

```
801JasonFanner will
PERSONAL MSG ALARM
12-JAN-97 12:00PM
[highlight bar on 12:00PM]
```

```
801JasonFanner will
PERSONAL MSG ALARM
12-JAN-97 12:00PM
[highlight bar on 12:00PM]
```

- Press an arrow key (▲ or ▼) to move the cursor between the adjustable fields.

▲ key or ▼ key

```
801JasonFanner will
PERSONAL MSG ALARM
12-JAN-97 12:00PM
[highlight bar on 12:00PM]
```

```
801JasonFanner will
PERSONAL MSG ALARM
12-JAN-97 12:00PM
[highlight bar on 12:00PM]
```

- Press the Confirm key (■) to adjust the date and time.

■ key

```
801JasonFanner will
PERSONAL MSG ALARM
12-FEB-98 07:00PM
[highlight bar on 07:00PM]
```

```
801JasonFanner will
PERSONAL MSG ALARM
12-FEB-98 07:00PM
[highlight bar on 07:00PM]
```

- Press the Menu key (■) to confirm the settings. The 'A' icon will appear to indicate that the personal alarm has been set.

- Note:** The 'A' icon will disappear after the alarm time is over.

3.5.9 News Message Alarm Setup

- Locate the news mailbox in the news memory bank (please refer to Section 3.3 for accessing a memory bank) by continuously pressing the Confirm key (■).

```
01Mark Six 11:15
24-25-26-32:130
12-FEB-98 07:00PM
[highlight bar on 12-FEB-98 07:00PM]
```

- Press the Menu key (■) to invoke the news memory bank sub-menu.

```
01Mark Six 11:15
NEWS MAILBOX
PERSONAL MESSAGE
[highlight bar on PERSONAL MESSAGE]
```

- Locate the highlight bar to 'MESSAGE UTILITY' by pressing the Down key (▼).

```
01Mark Six 11:15
MESSAGE UTILITY
PERSONAL MESSAGE
[highlight bar on PERSONAL MESSAGE]
```

▼ key

```
01Mark Six 11:15
NEWS MESSAGE
MESSAGE UTILITY
[highlight bar on MESSAGE UTILITY]
```

```
01Mark Six 11:15
NEWS MESSAGE
MESSAGE UTILITY
[highlight bar on MESSAGE UTILITY]
```

- Press the Confirm key (■) to invoke the second-level sub-menu.

■ key

```
01Mark Six 11:15
MESSAGE UTILITY
MESSAGE UTILITY
[highlight bar on MESSAGE UTILITY]
```

```
01Mark Six 11:15
MESSAGE UTILITY
MESSAGE UTILITY
[highlight bar on MESSAGE UTILITY]
```

- Locate the highlight bar to 'NEWS ALARM' by pressing the Down key (▼). Press the Confirm key (■) to attach the alarm to the news mailbox.

▼ key

```
01Mark Six 11:15
MESSAGE UTILITY
MESSAGE UTILITY
[highlight bar on MESSAGE UTILITY]
```

```
01Mark Six 11:15
MESSAGE UTILITY
MESSAGE UTILITY
[highlight bar on MESSAGE UTILITY]
```

- Note:** The 'A' icon will appear to indicate that the news alarm has been set. The 'A' icon will disappear after the alarm time is over.

■ key

```
01Mark Six 11:15
MESSAGE UTILITY
MESSAGE UTILITY
[highlight bar on MESSAGE UTILITY]
```

```
01Mark Six 11:15
MESSAGE UTILITY
MESSAGE UTILITY
[highlight bar on MESSAGE UTILITY]
```

3.5.10 Message Display Duration Adjustment

1. Press the Menu key (■) to invoke the main menu from the status screen or the standby screen.

■ HUTCHISON

■ key

USER MESSAGE
PERSONAL MESSAGE
MSG. MESSAGE
PAUSE OFF

2. Locate the highlight bar to 'DISPLAY SETUP' by pressing the Down key (▼).

▼ key

ALERT - AUDIO
ALERT SENSITIVITY
ALERT SENSITIVITY
DISPLAY SETUP

3. Press the Confirm key (■) to invoke the sub-menu.

■ key

MSG. DISPLAY DURATION
CONTRAST ADJUSTMENT

4. Locate the highlight bar to 'MSG DISPLAY DURATION' by pressing the Down key (▼).

▼ key

MSG. DISPLAY DURATION
CONTRAST ADJUSTMENT

5. Press the Confirm key (■) for message display duration adjustment.

6. Press an arrow key (▲ or ▼) to select a time period among the options.

MESSAGE DISPLAY
DURATION SETUP
00:00:00

▲ key or ▼ key

MESSAGE DISPLAY
DURATION SETUP
10:00:00

7. Press the Menu key (■) to confirm the setting and return to the status screen.

■ HUTCHISON

3.5.11 Audio Alert Duration Adjustment

1. Press the Menu key (■) to invoke the main menu from the status screen or the standby screen.

■ HUTCHISON

■ key

USER MESSAGE
PERSONAL MESSAGE
MSG. MESSAGE
PAUSE OFF

2. Locate the highlight bar to 'AUDIO SETUP' by pressing the Down key (▼).

▼ key

ALERT - AUDIO
ALERT SENSITIVITY
ALERT SENSITIVITY
DISPLAY SETUP

3. Press the Confirm key (■) to invoke the sub-menu.

■ key

MSG. DISPLAY DURATION
CONTRAST ADJUSTMENT

4. Locate the highlight bar to 'MSG ALARM DURATION' by pressing the Down key (▼).

```

KEY BEEP - YES
MSG ALARM DURATION
UNRECD ALARM PERIOD
    
```



```

KEY BEEP - YES
MSG ALARM DURATION
UNRECD ALARM PERIOD
    
```

```

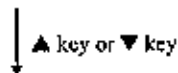
[ ] DURATION SETUP
[ ] MESSAGE ALARM
[ ] UNRECD ALARM PERIOD
    
```

5. Press the Confirm key (■) for audio alert duration adjustment.

6. Press an arrow key (▲ or ▼) to select a time period among the options of 2, 4, 6 and 8 seconds.

```

[ ] DURATION SETUP
[ ] MESSAGE ALARM
[ ] UNRECD ALARM PERIOD
    
```



```

[ ] DURATION SETUP
[ ] MESSAGE ALARM
[ ] UNRECD ALARM PERIOD
    
```

```

[ ] HUTCHISON
[ ]
    
```

7. Press the Menu key (■) to confirm the setting and return to the status screen.

8. Note: This function only applies to melody alert, the duration of the standard beeping tone and vibration alert are fixed.

3.5.12 LCD Contrast Level Adjustment

1. Press the Menu key (■) to invoke the main menu from the status screen or the standby screen.

```

[ ] HUTCHISON
[ ]
    
```



```

KEY BEEP - YES
MSG ALARM DURATION
UNRECD ALARM PERIOD
    
```

2. Locate the highlight bar to 'DISPLAY SETUP' by pressing the Down key (▼).

```

USER MESSAGE
PERSONAL MESSAGE
MSG MESSAGE
PAGE OFF
    
```



```

ALERT - AUTO
ACCESSORIES
AUTO SETUP
    
```

```

[ ] DISPLAY SETUP
[ ] MESSAGE ALARM
[ ] UNRECD ALARM PERIOD
    
```

3. Press the Confirm key (■) to invoke the sub-menu.



```

MSG ALARM DURATION
MSG DISPLAY DURATION
CONTRAST ADJUSTMENT
    
```

4. Locate the highlight bar to 'CONTRAST ADJUSTMENT' by pressing the Down key (▼).

```

MSG ALARM DURATION
MSG DISPLAY DURATION
CONTRAST ADJUSTMENT
    
```



```

MSG ALARM DURATION
MSG DISPLAY DURATION
CONTRAST ADJUSTMENT
    
```

```

[ ] CONTRAST ADJUSTMENT
[ ] DEC INC
    
```

5. Press the Confirm key (■) for LCD contrast level adjustment.

6. Press an arrow key (▲ or ▼) to adjust the LCD contrast. Press the Menu key (■) to confirm the setting and return to the status screen.

```

[ ] HUTCHISON
[ ]
    
```

3.5.13 Key Beep Enabling/Disabling

1. Press the Menu key (■) to invoke the main menu from the status screen or the standby screen.

```

[ ] HUTCHISON
[ ]
    
```



```

KEY BEEP - YES
MSG ALARM DURATION
UNRECD ALARM PERIOD
    
```

2. Locate the highlight bar to 'AUDIO SETUP' by pressing the Down key (▼).

▼ key

key

3. Press the Confirm key (■) to invoke the sub-menu. The 'KEY BEEP - YES' item is located immediately. Press the Confirm key (■) to enable (or disable) the key beep function.

4. Note: If the key beep function has been enabled previously, the 'KEY BEEP - NO' item would be displayed instead.

3.5.14 Character Font Size Adjustment

1. Press the Menu key (■) to invoke the main menu from the status screen or the standby screen.

■ key

▼ key

2. Locate the highlight bar to 'DISPLAY SETUP' by pressing the Down key (▼).

3. Press the Confirm key (■) to invoke the sub-menu. The 'MSG FONT SIZE - LARGE' item is located immediately. Press the Confirm key (■) to change the font size.

key

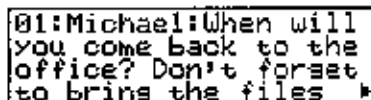
key

4. Note: If the half font size has been selected previously, the 'MSG FONT SIZE - SMALL' item would be displayed instead.

4. Call Types

4.1 Message Call

Messages of this type can be displayed on the pager screen.



01:Michael:When will
you come back to the
office? Don't forget
to bring the files

Figure 4-1 A user/group message call

4.2 Tone Call

Messages of this type are usually too long or quite confusing for screen display. The words 'TONE ONLY' will be displayed and the user should check out the entire messages from the paging operator.

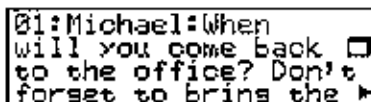


01: TONE ONLY
14-FEB-98 03:13PM

Figure 4-2 A 'Tone Only' message

4.3 Second Call (Duplicate Call)

This type of message is transmitted for reminding purpose.



01:Michael:When
will you come back
to the office? Don't
forget to bring the

Figure 4-3 A duplicate message

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does not cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions. (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.