About This Manual

Please read this manual thoroughly prior to using your phone. This manual is divided into the following sections.

Important Safety Information describes safety factors for using electronic products.

Guidelines for Safe and Efficient Use describes important information for using your phone.

Battery Information contains useful information about rechargeable batteries.

Getting Started tells you what you need to know to get your phone out of the box and ready to make calls.

Learning About Your Phone describes the parts of your phone to help you get familiar with its operation.

Basic Operations gets you started using your phone by describing operations such as placing calls, answering calls, speed dialing, volume control, and microphone muting during a call.

Using Menus describes how to access and navigate through menus.

Storing and Recalling Numbers In Memory describes how to use the memory features of your phone.

Menu Descriptions describes the menus and settings available on your phone.

Problems You Can Solve provides an easy-to-use troubleshooting table if you should encounter problems using your phone.

The following descriptions will help you understand the information presented in this manual.

Names of keys - Key names are shown in **Bold** type. Some keys have more than one function. When the name of a multiple function key is used, the function which is being referred to is shown in bold type. For example, "To temporary mute the warning beeps, press **Mute** button".

Any text or numbers which represent something shown on the phone display use a typeface similar to that of the phone display, `Search`, for example.

Soft Key Functions - The right and left soft keys of your phone has multiple functions depending on what menu state its in. They are shown in "block" character, `Menu` for example.

Illustrations of phone displays in this manual are examples which approximate what is shown in the phone display. What is actually shown in your phone display may vary slightly from what is represented in the illustrations.

Table of Contents

Important Safety Information

Some of the following information may not apply to your particular product. However, as with any electronic product, you should observe safety precautions during handling and use of the product.

♦   **Save this manual.** It contains important safety information and operating instructions.

♦   Before using this product, please follow and adhere to all warnings, safety and operating instructions located on the product and in the user guide. **Save all instructions for future reference.**

♦   **Do Not** expose the product to water or moisture; for example, a swimming pool or damp basement.

♦   **Do Not** expose the product to extreme temperatures such as those found near a hot radiator, stove, or in a car parked in the sun.

♦   **Do Not** expose the product to lit candles, cigarettes, cigars, open flames, etc.

♦   **Do Not** allow objects to fall on, or liquids to spill into the product.

♦   **Do Not** use auxiliary equipment not recommended by the manufacturer. Using other equipment may result in fire, electric shock, or injury, and will void the warranty.

♦   Connect AC (power supply) only to designated power sources as marked on the product.

♦   To reduce the risk of damage, remove the electrical cord from an outlet by pulling the AC adapter rather than the cord.

♦   Make sure the electric cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.

♦   To reduce risk of electric shock, unplug the unit from a power source before attempting any cleaning. Once unplugged, use a soft cloth.

♦   **Danger** - Never alter the AC cord or plug. If the plug will not fit into the outlet, have a proper outlet installed by a qualified electrician. Improper connection can result in risk of electric shock.

♦   **Do Not** attempt to disassemble the product. Doing so will void the warranty. This product does not contain consumer serviceable components. Service should only be performed by Authorized Service Centers.

♦   **Do Not** allow children to play with the product packaging material as some materials may present a choking hazard.

Guidelines for Safe and Efficient Use

Important: Read This Information Before Using Your 9p23 Portable Telephone

The handheld portable wireless telephone is one of the most innovative products ever developed. With it, you can maintain connectivity to traditional telephone services while remaining mobile around hospital, campus or office. For the safe and efficient operation of your phone, observe the guidelines in this manual. Your wireless telephone is a radio transmitter and receiver. When it is ON it receives and sends out radio frequency (RF) energy. The phone operates in the frequency range of 1920 to 1930 MHz and employs commonly used modulation techniques.

Exposure to Radio Frequency Signals (SAR)

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limit for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government and Canada. These limits are part of comprehensive guidelines and established permitted levels of RF energy for the general population. These guidelines are based on the safety standards previously set by both U.S. and international standards bodies.

These standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standards for wireless mobile phones employs a unit of measure known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC and Canada is 1.6W/kg averaged over one gram of tissue.

Tests for SAR are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by government-adopted requirement for safe exposure. The tests are performed in positions and locations(for example, at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this phone when tested for use at the ear is 0.076 W/kg, and when worn on the body is 0.018 W/kg. (Body worn measurements differ among phones depending upon available accessories and the FCC requirements.) While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

For body worn operation, to maintain compliance with FCC RF exposure guidelines, use only Ascom approved accessories. When carrying the phone while it is on, use only the specific Ascom belt clip that has been tested for compliance.

Use of non-Ascom-approved accessories may violate the FCC RF exposure guidelines and should be avoided.

The FCC has granted an equipment authorization for this Ascom 9P23 phone with all reported SAR levels evaluated as in compliance with the FCC RF emissions

guidelines. SAR information is on this 9P23 phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID O4M9P23."

Efficient Phone Operation

For your phone to operate at the lowest power level, and maintain satisfactory call quality:

♦ Hold the phone as you would any other telephone. Speak directly into the microphone.

Electronic Devices

Most modern electronic equipment (for example, equipment in hospitals and cars) is shielded from RF energy. However, RF energy from wireless telephones may affect some electronic equipment.

Children

Do not allow children to play with your phone. It is not a toy. Children could hurt themselves or others. Children could also damage the phone. Product packaging material is often small and may present a choking hazard.

Potentially Explosive Atmospheres

Turn your phone OFF when in any area with potentially explosive atmosphere. It is rare, but your phone or its accessories could generate sparks. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include fueling areas, (such as gas stations), below deck on boats, fuel or chemical transfer or storage facilities, and areas where the air contains chemicals or particles (such as grain, dust, or metal powders).

Do not transport or store flammable gas, liquid, or explosives in any compartment of your vehicle which contains your phone and accessories.

In the U.S., vehicles powered by liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association, One Batterymarch Park, Quincy, Massachusetts 02269, Attention: Publication Sales Division.

Operation Procedures

In the U.S., portable wireless telephones are subject to the rules and regulations of the FCC. Following these rules will help to eliminate confusion, ensure the most efficient use of the existing frequencies, and result in a smoothly functioning radio network. The following offenses are punishable by fine, imprisonment, or both:

♦ Use of profane, indecent, or obscene language.

♦ Transmission of a false distress signal or call.

♦ Willful or malicious interference with any other radio communica tions.

♦ Refusal to yield a channel or radio frequency when informed that it is needed for an emergency call. Emergency calls have priority over all messages.

♦ Adjustment of the equipment by anyone other than a qualified licensed technician.

UTAM Requirements

Installation of this equipment is subject to notification and coordination with UTAM, Inc. Any relocation of this equipment must be coordinated through, and approved by UTAM. If there are any interference problems, UTAM may be contacted at 1-800-429-UTAM (1-800-429-8826).

FCC Requirements

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.

This equipment has been tested and found to comply with the limits for a Class A digital service, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

IC Requirements

The term "IC:" before the radio certification number only signifies that Industry of Canada technical specifications were met.

WARRANTY NOTIFICATION

Do not tamper with the Warranty Seal on the back of your phone. Tampering with this seal can void your warranty. Do not attempt to take your phone apart. Doing so will void your warranty and your authority to operate the phone. Your phone does not contain consumer serviceable components. Service should only be performed by Authorized Service Centers.

Battery Information

New Batteries

The battery packaged with your phone is not fully charged. However, there may be enough power to turn the phone on. To get maximum battery capacity, you should charge the battery before using it.

Battery Use and Care

A rechargeable battery has a long service life, if treated properly.

♦ Do not leave a battery where it could be subjected to extremely high temperatures, such as inside a car on a hot day. This could reduce the battery's capacity.

♦ Never let the metal contacts on the battery touch another metal object. This could short-circuit and damage the battery.

♦ Do not attempt to take a battery apart.

♦ Do not expose a battery to open flame. This could cause the battery to explode.

♦ Turn your phone OFF before removing the battery.

♦ Use only Ascom provided adapters supplied with your battery charger. Using a different adapter could be dangerous and voids the warranty. Never charge a battery when the ambient room temperature is above 104°F/40°C or below 41°F/5°C.

Battery Charging Times

The desktop and rack chargers charging time are approximately 1-2 hours (900 mAh battery).

Getting Started

Complete the following steps after you have removed your phone and its components from their packages:

- Attach the battery to your phone

- Charge the battery

- Attach the optional belt clip to your phone

Install the Battery

1. Attach the battery to the back of the phone by sliding the tabs on the top of the battery into the appropriate slots on the phone, then press down firmly (see Figure 1.1).

2. While holding the battery firmly against the phone, push the battery lock tabs located on the bottom of the phone outward to the "locked position" (see Figure 1.2) to secure the battery.

3. To remove the battery, push the battery lock tabs inward, to the "unlocked" position and pull the battery off the phone.

Figure 1.1

Battery lock tabs
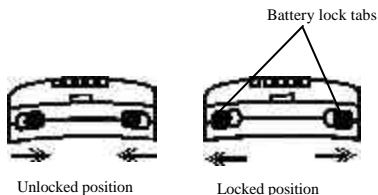

Unlocked position   Locked position

Figure 1.2

Charging the Battery

The **Desktop Charger** will charge a battery when attached to your phone as well as support the charging of a single battery pack by standing the battery pack in the compartment of the desktop charger.

Charging a Battery Attached to your Phone

1. Plug the AC adapter into the charger.

2. Plug the AC adapter into a wall outlet.

3. Insert your phone into the compartment of the desktop charger as shown in Figure 2.1.

   The light on the right side of the desktop charger should be red indicating that charging is in progress.

4. When the indicator light turns green, this indicates that the battery is fully charged and the handset is ready for use.

Note: A rack charger is also available and its functionality is similar to the desktop charger. For more information, please refer to DCT1900 Technical Product Manual (TPM).

Figure 2.1

9

Attaching the Belt Clip to your Phone

The phone is delivered with the standard belt clip.

To attach the belt clip to your phone:

1. Slide the metal part of the clip into the molded slot on the back of the phone until it snaps into place. See Figure 3.1.

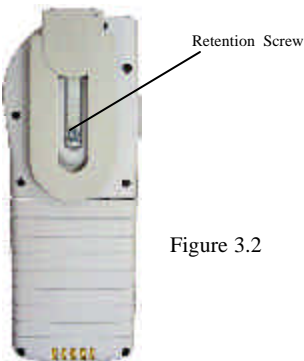2. Tighten the retention screw to secure the belt clip onto your phone. See Figure 3.2

Removing the Belt Clip from your Phone

1. Untighten the retention screw of the belt clip from the phone (see Figure 3.2).

2. Slide the metal clip upward in the slot as shown in Figure 3.3.

Figure 3.3

Figure 3.1

Retention Screw

Figure 3.2

10

Learning About Your Phone

Indicator Light

Alarm Button

Earpiece

Mute Button

Volume Control

Medic   **9p23**

ひ 1   ∞ ⊠ ▭
March 20   1:45pm
Susan   7201
Search   Menu

Display

Left Soft key

Right Soft key

Scroll Key

Speaker Phone

on   🔊   off

1   2   3
    ABC DEF

4   5   6
GHI JKL MNO

7   8   9
PQRS TUV WXYZ

*   0   #

Microphone

11

Display Indicators

System Indicator   Headset Icon   Battery Strength Icon   MLA Icon   Missed Calls Icon   Voicemail Icon   Message Icon

Off Hook Icon

Keylocked Icon   Ring Mute Icon   Warning Mute Icon

System Indicator shows whether the phone is locked to a system (steady icon) or not (icon blinks). The phone will only lock to systems for which it has been programmed.

Off Hook icon flashes when the phone is connecting to the network (dialing) or receiving a call and stays on during a call.

Warning Mute icon indicates when the warning beeps have been temporarily muted.

Ring Mute icon indicates when the ringer has been turned off.

Warning Mute and **Ring Mute** icons displayed together indicate the phone is in silent mode.

Missed Calls icon indicates unanswered calls.

Message icon indicates text message has been received.

Voicemail icon indicates message is waiting in the voicemail box.

Headset icon indicates when an optional handsfree accessory is attached.

Battery Strength icon shows the relative strength of your battery. A full icon indicates a fully charged battery. A blinking battery icon indicates a low battery charge.

Multiple Line Appearance (MLA) icon indicates the active line when your system is configured for enhanced digital integration. The **MLA** icon may appear as a 1,2,3,or 4 depending on the system configuration. A blinking **MLA** icon indicates the line is on hold.

Keypad Lock icon indicates the keypad is locked to prevent inadvertant key presses.

Battery Charging icon indicates when the phone is receiving power from an external source, such as a charger. A blinking full battery icon indicates that the charging is complete. The **Battery Charging** icon appears in place of the **Battery Strength** icon.

Indicator Light Functions

The color and state of the indicator light on top of your phone shows the following conditions:

Slow Flashing Red: A flashing red light means one of the following: Low Battery, No System, or No Access. See "Problems You Can Solve", page 31.

Rapid Flashing Red: Phone is receiving a call.

Steady Green: Your phone is receiving power from an external source, such as a charger.

Slow Flashing Green: Phone is in **Standby** mode (locked to a system), ready to place and receive calls.

Rapid Flashing Green: Phone is on talk mode or in use.

12

Key Functions

 On/Talk Button

- Press and hold to turn your phone ON.

- Press to place a call after you have entered a phone number.

- Press to hear a dial tone before dialing.

- Press to answer a call when your phone is ringing.

 Off/End Call Button

- Press and hold to turn your phone OFF.

- Press to end a call.

 Scroll key

- Press up arrow or down arrow to scroll through phone menus.

 Speaker Phone Enable Key

- Press to turn on the loudspeaker functionality of your phone when in ongoing call.

Volume Control

- Press upper key to increase the volume.

- Press lower key to decrease the volume.

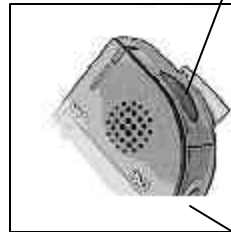 **Left/Right Soft Key**

Left soft key

Right soft key

- Press to perform the function indicated by the text on the screen above the key.

Alarm Button

- Press twice to automatically dial the defined number.

Alarm key

Mute Key

Mute Button

- Press to temporarily mute the ringer.

Basic Operations

Turning Your Phone On

Press and hold 🔵 until your phone beeps.
The display
and keypad
backlighting
come on for
about 30
seconds.
The display
should look similar to this illustration.
The system icon will be steady when the
phone is locked to the system. This
display represents **Standby** mode.

Turning Your Phone Off

Press and hold 🔴 until your phone beeps
and the display goes blank.

Placing A Call

To place a call, the phone must be **ON**
and locked to a system.

1. Enter the phone number you wish to
    call by pressing the numeric keys.
    The number is shown in the
    display.
    If you
    enter a
    wrong
    digit,
    press up
    scroll key to erase the digit.
2. Press 🔵
3. When you finish your conversation,
    press 🔴 to end the call.

Answering a Call

When your phone receives a call, the ring
melody sounds (unless you have disabled it
through the **Sound Setup** menu, see page
28) and the
indicator
light on top
of the phone
rapidly
flashes red.

1. Press 🔵 to answer the
    call.
2. When you finish your conversation,
    press 🔴 to end the call.

Increasing or Decreasing Speaker Volume During a Call

To adjust the speaker volume during a call,
press the side keys on the phone. Once
the call is finished, the volume will return
to its' menu setting.

Reading a Message

When your phone receives a message, the
ring melody sounds.

1. Press Read to read the message.
2. When you finish reading, press
    Close.

Temporarily Muting the Ring Tone/Warning Beeps

To temporarily mute the ring tone
without answering the call, press Decline.
You can still answer the call by subse-
quently pressing Accept.

To temporarily mute the warning beeps,
press the **Mute** button.

Redialing the Last Number You Called

Your telephone stores the last 20 numbers
dialed. To view this list in the display,
press **Up Arrow** twice to enter the **Redial**
list. You can redial the number by pressing
🔵

If the list is empty, the phone will beep.

14

Pause Dialing

Pause dialing lets you enter groups of numbers with delays between each group. This feature is useful when you need to dial a phone number and then another number, such as an access number for an answering machine or voice mail system. A *pause* suspends transmitting DTMF tones for approximately two seconds before sending the next series of tones. You can enter a pause in a series of digits by pressing the **Down Arrow** (it shows a '-' in the display). For example, if your office has a voice mail system that requires you to dial a phone number followed by your extension and an access code, you could enter the following: 5551111**Down Arrow** 2222 **Down Arrow** 33333 where 555-1111 is the phone number to enter your voice mail system, 2222 is your extension, and 33333 is your access code. When you press 🕻on , your phone dials the number and then pauses. After two seconds, the phone sends your extension. Finally the phone automatically transmits your access code approximately two seconds after your extension.

Low Battery Power Alert

The Low Battery alert sounds when your battery is reaching its lowest operational power level. The words **Battery Low** flash in the display, the **Battery Icon** blinks, and the indicator light on top of your phone flashes red. You can mute the audible alert by pressing the **Mute** key; the **Warning Mute** icon will appear. Once the **Battery Low** alert begins, the phone will shut OFF within 3 minutes.

NOTE: The following intructions assume that the user has already established Phone book entries. Additional instructions on creating phonebook entries can be found in the phonebook menu description found on Page 25.

Recalling an Entry

There are three options that can be used to **Search/Browse** the handsets internal phonebook:

1. Pressing Search from within the standby mode.
2. Opening the **Phone Book** from the main menu and selecting **Search** from the list of sub-menu functions.
3. Pressing the **Up Arrow** from within the standbyby mode.

In order to find a specific entry from with in the phonebook, enter the letters of the name using the keypad. You can enter just a few letters of the name or the complete name. If you enter just a few letters and press Confirm, the handset will find the first name in memory that begins with the letters you entered. See the table below for information on entering letters. You can view the rest of the entries by pressing the **Down Arrow** or **Up Arrow** key.

Press this key	Number of times the key is pressed				
	One	Two	Three	Four	Five
1	space	&	1		
2	A	B	C	2	
3	D	E	F	3	
4	G	H	I	4	
5	J	K	L	5	
6	M	N	O	6	
7	P	Q	R	S	7
8	T	U	V	8	
9	W	X	Y	Z	9
0	0				
*	,	'	"	*	
#	-	.	?	#	

Table 1

15

## Recalling an Entry (cont.)

If you do not know the name or if a name is not associated with the number press Browse . Upon doing so the first entry in memory will be displayed. Use **Down Arrow** or **Up Arrow** to scroll through the entries.

Quick Entry Recall

You can recall a number without using the menu by spelling out the name. When the phone is in **Standby** mode, hold down the key with the first letter of the name you wish to recall. The top line displays the first name which matches your entry. The second line displays the letters you are trying to match and the number. Press more letter keys (you do not have to hold the keys at this point) or use the **Down Arrow** or **Up Arrow** keys to find the name/number you want. Press $\mathcal{C}_{on}$ to call the displayed number.

NOTE: A specific telephone number or speed dial number cannot be recalled directly; you must enter a name or scroll through the list.

Speed Dial

The Speed Dial feature lets you quickly dial phone numbers. Any entry in memory may be assigned a speed dial number from 0 to 9. See page 26 for information on storing numbers in memory. To use the Speed Dial feature, enter the speed dial number you want to call. Press $\mathcal{C}_{on}$ to recall the corresponding memory entry. Press $\mathcal{C}_{on}$ again to dial the number in the display.

Alarm Button

The Alarm button allows you to call a specifically defined number.

1. Press the alarm button located on top of your phone once. The display will prompt "**Alarm Ready** Press again to confirm".

2. Press the alarm button and your phone will be in speaker phone mode and will call the specifically defined number programmed in your phone.

16

Summary of Basic Operations

To Do This:	Press:
Turn phone ON	Hold 🔛on
Turn phone OFF	Hold 📴off
Make a call	Predial number, 📞on
Answer a call	📞on
End a call	📴off
Temporarily mute the ringer	**Menu**, ≡
Temporarily mute warning beeps	**Menu**, #
Enter menu mode	**Down Arrow**
Decrease speaker volume during a call	Lower side volume key or **Down Arrow**, select `SpeakerVol.` or `Attach Vol.`
Increase speaker volume during a call	Upper side volume key or **Menu Sound Setup,** select `SpeakerVol`
Erase the last digit/letter entered	**Up Arrow**
Scroll through menus or menu settings	**Up Arrow**, **Down Arrow**
Call the number shown in the display	📞on
Recall a number from memory	**Up Arrow**
Redial the last number dialed	**Up Arrow** (twice), 📞on
To lock the keypad	**Down Arrow,** ∶
To unlock the keypad	**Down Arrow,** #

Using Menus

This section explains how to use your phone's menus. You should read this section thoroughly and familiarize yourself with the menus, how to navigate through them, and how to change settings. Those steps are described here. The following sections describe each of the menus and the settings available.

Your phone's menus offer an easy way to:

- Store and recall numbers in memory
- Check voice mail
- Read text messages
- Set up call features
- Change ring tone and other sound settings
- Change other settings for your phone

Opening Menus

In order to navigate and modify the menu settings, press the Menu soft-key within standby mode, this will enter the handset into the Menu Navigation mode. Within the menu navigation mode users can scroll through the main menu structure as well as make changes to settings by entering into the individual sub-menus.

Within the main menu structure, there are 4 main menu items:

- Messaging
- Phone Book
- Sound SetUp
- Settings

The main menu is a list of choices you can make. Your phone has 4 main menus. Each main menu contains numerous sub-menus that will allow you to check voice mail, read text messages, change ring

tone, etc. You can navigate the main menu and sub-menus by using the **Up** and **Down Arrows.** They will scroll through your choices accordingly.

Press Select to enter any of the sub-menus for a given main menu option.

Changing Settings

Open the menus as previously described, then:

1. Press **Down Arrow** or **Up Arrow** to scroll through the list until the menu pointer < > encompasses the setting you want to change.
2. Pressing Select again will display the choices available for the specific setting shown in the sub-menu. The currently active choice will blink in the display. Some settings have a list of choices, such as the **Ring Melodies** setting in the **Sound Setup Menu**.
3. Press **Down Arrow** or **Up Arrow** to scroll through the list of choices until the menu pointer is beside the choice you want. If the setting has only two choices, press either of these keys to switch between the two choices. The active choice is blinking.
4a. If you want to exit the list of choices without storing any changes made, press Cancel. This will take you back to the sub-menu selection menu.
4b. Otherwise press Confirm to store the choice you selected. The handset will display a confirmation of the change on the display.

Data Saved

NOTE: If the menu is inactive for 30 seconds, it will return to **Standby** mode.

Example of Using Menus

The following steps show how to change the ringer volume of your phone.

1. Press Menu from the **standby mode** to enter **menu navigation** mode.

2. Press the **Down Arrow** or **Up Arrow** until the main menu displays the **Sound Setup** option.

3. Press Select. The pointer [< >] is beside the **Sound Profiles** settings.

4. Press Select. Press the **Down Arrow** or **Up Arrow** until the menu pointer is beside **Customize**.

5. Press Select. Press the **Down Arrow** or **Up Arrow** until the menu pointer is beside **Normal Profile**.

6. Press Select. Press the **Down Arrow** or **Up Arrow** until the menu pointer is beside **Ring Volume**.

7. Press Select. A bar graph is shown with the current volume blinking.

6. Press the **Down Arrow** or **Up Arrow** until the ring volume is set to the desired level. As you scroll through the choices, the phone plays the ring melody.

7. Press Confirm to store your choice. The **RingVolumes profile** options is shown.

8. Press 📵ff to exit Menu Navigation mode.

Menu Shortcuts

To quickly access menus, submenus and settings choices you can press the **Down Arrow** to open the main menu followed by the number of the menu and the number of the menu setting. For example, you want to change the speaker volume on your phone. If the **Sound Set up** menu is number **3**, and the **speaker volume** setting is number **3**, press the **Down Arrow**, then **3** and **3** again to go directly to the choices for **Speaker Volume**.

Menu Overview

The following chart shows the menu hierarchy and settings for your phone.

Standby Mode

1 Messaging
- 1 • Text
- 2 • Voice Mail
- 3 • Options
  - 1 • Voice Mail No.
  - 2 • SMS Reminder
  - 3 • SMS Autodelete

2 Phone Book
- 1 • Search
- 2 • Missed Calls
- 3 • Received No.
- 4 • Dialed No.
- 5 • Add Number
- 6 • Memory Monitor

3 Sound Set Up
- 1 • Sound Profiles
  - 1 • Activate
    - 1 • Normal Profile
    - 2 • Meeting Profile
  - 2 • Customize
    - 1 • Normal Profile
      - • Ring Volume
      - • Key Sound
      - • Vibration
    - 2 • Meeting Profile
- 2 • Ring Melodies
  - 1 • InternCall
  - 2 • ExternCall
  - 3 • Callback
  - 4 • Messages
  - 5 • Voicemail
- 3 • SpeakerVol
- 3 • AttachVol
- 4 • Mic Gain
  - 1 • Intern Mic
  - 1 • Attach Mic

4 Settings
- 1 General
  - 1 • Select Line*
  - 2 • Contrast
  - 3 • Backlight
  - 4 • Date Mode
  - 5 • Time Mode
  - 6 • Select PUN
- 2 Custom
  - 1 • Phone Name
  - 2 • Alarm No.

In Call Mode

• **Options Soft Key**

- 1 • Transfer[#]
- 2 • Conference[#]
- 3 • Hold[#]
- 4 • Reconnect[#]

NOTE: Depending on your current telephone system, some **In Call Menu** options may not be available.

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*Only available when the Handset is programmed for enhanced digital integration.

[#]Only available when PBX functions have been configured.

Short Message Service(SMS)

Your installation may support delivery of short text messages to the phone. If you receive a message, the **Message** ring melody sounds and the **Message** icon appears. When the phone is in **Standby** mode, the `Read Message?` prompt appears for a short time.

Reading a Text Message

1a. If the `Read Message?` prompt is visible, press Read. The oldest unread mes-sage is displayed.
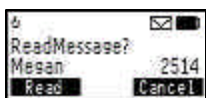
1b. If the prompt has timed out, open the **Messaging Menu** and select **Text**.
The newest message is at the top of the list.
Select the message you wish to read by pressing **Down Arrow** or **Up Arrow**. Press Open to read the selected message.

2. Scroll through the message using the **Down Arrow** and **Up Arrow**.

3. Press Back‑Cancel‑Back‑Exit to exit reading the message. If the read prompt was used to begin reading the message, the phone returns to **Standby** mode. If there are more unread messages the `Read Message?` prompt re-occurs. If the **Messaging Menu** was used to begin reading the message, the list of messages appears.

Dialing a Displayed Number

If any numbers are in the message, they are selected for callback.

1. Scroll past the selected numbers using the **Down Arrow** and **Up Arrow**. The **side volume keys** may be used to scroll messages as well.

2. To call a selected number, press $\mathbf{C}_{on}$. If no number is visible onscreen, pressing $\mathbf{C}_{on}$ dials the most recently selected number.

Deleting a Text Message

Once a message has been read it may be deleted.

1. While reading the message, press Options.

2. While viewing the list of messages, select **Delete** and press Confirm.

Only 20 messages can be stored at one time. If **AutoDelete** setting is OFF and there is not enough room, the **Message** icon will blink and the next message will be rejected. If the **AutoDelete** setting is ON (see **Messaging Menu**, page 24) and there is not enough room, a new message will automatically delete the oldest message even if it is unread.

The 9p23 portable telephone can be configured to integrate with a nurse call system (NCS) for healthcare environments.

Receiving a Nurse Call Message

When the 9p23 portable telephone receives a nurse call message, caregivers can choose from different options depending on the NCS and the way the NCS is configured.

Type 1: No Call Back to Patient Station Function

When the NCS does not support call back to patient station, the 9p23 portable telephone handles the nurse call as a normal text message. When in standby mode, the "Read Message?" prompt appears briefly. Users can use the left soft key to select while this prompt is displayed. Please refer to page 20 for additional information about managing text messages to the 9p23 portable telephone.

Type 2: Advanced Nurse Call System Integration (ANCSI)

With ANCSI, the 9p23 portable telephone allows call back to patient station functionality. When the 9p23 portable telephone receives an Advanced Nurse Call message, caregivers can follow the options below:

Option 1: Press Call. This option will enable the user to make a voice connection via the NCS intercom in the patient's room.

Once there is an established voice connection to the patient room, the caregiver can assign predefined services via

the NCS using the keypad numbers 1-6, or end the call by pressing Release.

Option 2: The call can be escalated to the pre-assigned secondary caregiver by pressing Forward, when the primary caregiver is unavailable or unable to respond to the patient call.

Retreiving a Stored Nurse Call Message

When unread nurse call messages are stored in the 9p23 portable telephone, the text messsage display icon will appear.
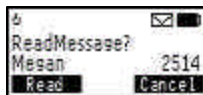
When the **<SMS Reminder>** option is on and configured according to user preferences, the 9p23 portable phone can indicate with an audible tone and will display a reminder message.

Press Open. Users can then choose to Call or Forward the stored nurse call message.

Nurse Call Log

The 9p23 portable telephone memory will store up to 20 nurse call messages. When these messages are displayed, the newest message is labeled "1". Use the scroll key to view additional stored messages. The display will also indicate the status of the message with the letters C, D, R or N.

C=Called   R=Read
D=Deferred   N=new

22
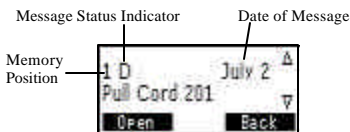
Enhanced Digital Integration Phone Operation

Standby Mode

Your installation may support enhanced features such as multiple line appearance (MLA).

When in **Standby** mode, the **MLA** icon appears in the top left hand section of the display. This number indicates which line will be active the next time the user goes off hook.

Select Line

You can choose another line as the selected line; the **MLA** icon in the top left hand corner of the display will be updated accordingly. The next call will then be made on that line. To select another line, open the **Settings menu** and select **General** and **Select Line**. Use the **Up Arrow** or **Down Arrow** to select line. Once line is selected, press Connect.

Select Line Shortcut

During an active call, the user may access another line by pressing Line and then use the **Up Arrow** or **Down Arrow** to get another line. Press 🔲on or Connect to get a dial tone.

Answer a Call

When a call is received, you will be alerted to the call with a ring, a display message, the blinking offhook icon, and a fast flashing red light indicator. If the user is already in call, a beep will be audible in the speech path with no audible ringing. When a call is ringing you have four options:

◆ Ignore the call
◆ Answer the call by pressing 🔲on or Accept
◆ Mute the call by pressing 🔲off or Decline
◆ Browse lines by using the **Up Arrows** and **Down Arrows**

You may review the state of all the lines by using the scroll keys. When a ringing call is displayed, it may be answered by pressing 🔲on or Accept. Selecting a non-ringing line will access a new line and generate new dial tone.

Call Waiting

Handling Multiple Calls - when one call is active and another call is received by the handset on another line, the user has the choices of:

◆ Answering the incoming line by pressing 🔲on or Accept, the incoming call will be answered and the original call will be placed on hold.

◆ Muting the incoming line by pressing 🔲off or Decline, the audible new line ringing signal will be muted and the original call will be maintained. Once the current call ends, the audible ringing and visible alerting will resume.

Note: To access the In Call features such as transfer, Conference, Hold, and Reconnect, Callback and Cancel Clb, please refer to page 30.

Mobility Server (MS) Phone Operation

Standby Mode

Your installation may support enhanced features such as multiple line appearance (MLA).

When in **Standby** mode, the **MLA** icon appears in the top left hand section of the display. This number indicates which line will be active the next time the user goes off hook.

Select Line

You can choose another line as the selected line; the **MLA** icon in the top left hand corner of the display will be updated accordingly. The next call will then be made on that line. To select another line, open the **Settings Menu** and select **General** and **Select Line**. Use the **Up Arrow** or **Down Arrow** to select line. Once line is selected, press Connect.

Select Line Shortcut

During an active call, the user may access another line by pressing **Line** and then use the **Up Arrow** or **Down Arrow** to get another line. Press **On** or Connect to get a dial tone.

Answer a Call

When a call is received, you will be alerted to the call with a ring, a display message, the blinking offhook icon, and a fast flashing red light indicator. If the user is already in call, a beep will be audible in the speech path with no audible ringing. When a call is ringing you have four options:
- ◆ Ignore the call
- ◆ Answer the call by pressing on or Accept
- ◆ Mute the call by pressing off or Decline
- ◆ Browse lines by using the **Up Arrows** and **Down Arrows**

You may review the state of all the lines by using the scroll keys. When a ringing call is displayed, it may be answered by pressing on or Accept. Selecting a non-ringing line will access a new line and generate new dial tone.

Call Waiting

Handling Multiple Calls - when one call is active and another call is received by the handset on another line, the user has the choices of:

◆ Answering the incoming line by pressing on or Accept, the incoming call will be answered and the original call will be placed on hold.

◆ Refuse the incoming line by pressing on or Decline, the audible new call signal will be refused, and the original call will be maintained. Once the current call ends, the audible ringing and visible alert will resume.

Message Waiting Indication

The handset is capable of displaying a **Message** icon. In order for the **Message** icon to automatically disappear after you have listened to your messages, you must access your voice mail through the Mobility Server's Personal Assistant feature. (Please see your system administrator for additional information regarding using the Personal Assistant feature.)

NOTE: If you do not access your voice mail through the Personal Assistant feature of the MS, the **Message** icon will not automatically disappear. Therefore, you must manually remove the **Message** icon by pressing **#, 9,1, #,** on , then off .

Menu Descriptions

<u>Messaging Menu</u>

The **Messaging** menu organizes all of the handsets messaging functionality including SMS Text Messaging and Voice Mail access.

Text Messaging

The **Text** messaging sub-menu provides a list of text messages previously received by the handset. Each item within the list identifies the index number of a specific message, the time the message was received, the current status of the message, as well as the very beginning of the message content. To read any of the messages within the list, press Open .

Once a message has been read the status indicator will change from 'N' representing a new message to 'R' indicating that the message has been read. In the instance where a number identified within the body of the message was called the status indicator would change to 'C' indicating the entry was called.

Voice Mail

The **Voice Mail** option allows for access to a predefined Voice Mail number. (see the Voice Mail access number setup in the **Options** sub-menu section)

Voice Mail access can be established by selecting Connect from within the Voice Mail sub-menu upon establishing a Voice Mail access number.

Options

The **Option** sub-menu offers three setup options allowing the user to modify and access the handsets messaging functionality.

Voice Mail No.

This setup option, stores the access number neccesary to connect to any voice mail system with dial-up access. Upon entering a number, the number can be stored by selecting Save.

SMS Reminder

The **SMS Reminder** offers several intervals on which the ringer & reminder will be repeated while a message remains unread.

SMS Autodelete

The **SMS Autodelete** allows you to delete older messages upon receiving a new message. When **Autodelete** is OFF the maximum number of messages that can be stored by the handset is 20, any new messages received beyond 20 will be rejected.

Phone Book Menu

The 9p23 handset offers an internal phone book capable of storing individual entries as well as recording previously dialed and received numbers and logging the caller ID information for inadvertently missed calls.

Search

The **Search** function within the Phone Book menu allows you to search for specific names stored in the phone book.

Searching for specific entries involves entering the letters of the name using the keypad. You can enter just a few letters of the name or the complete name. If you enter just a few letters and press Confirm, the handset will find the first name in memory that begins with the letters you entered. Browsing of the phonebook entries is can be accomplished by pressing Browse followed by scrolling through the entries by using the **UP and Down** Arrows.

Missed Calls

The **Missed Calls** function allows you to view a list of calls that were missed. If your phone receives calls which are not answered, the **Missed Calls** icon will appear (when calling number delivery is supported by your installation). Opening the **Missed Calls** menu shows an index number identifying the entry (up to 20 entries), the time/date the call was received, and the phone number of the caller. Use **Up Arrow** and **Down Arrow** to scroll through the list. For an internal extension, press on to return the call. For external calls, **Prefix Editing** can be used.

Received No.

The **Received No.** sub-menu allows you to view the last (20) numbers received and answered by your handset. Opening the **Received No.** menu shows an index number identifying the entry (up to 20 entries), the time/date the call was received, and the phone number of the caller. Use the **Up Arrow** and **Down Arrow** to scroll through the list. For an internal extension, press on to return the call. For external calls, **Prefix Editing** can be used.

Dialed No.

The **Dialed No** sub-menu allows you to view the last (20) numbers dialed from your handset. Opening the **Dialed No.** menu shows an index number identifying the entry (up to 20 entries), the time/date the call was received, and the phone number of the caller. Use **Up Arrow** and **Down Arrow** to scroll through on list. For an internal extension, press to return the call. For external calls, **Prefix Editing** can be used.

Prefix Editing

The **Missed Calls, Received No, Dialed No** and **Redial** lists support prefix editing. You may add an external dialing number to the front of any number to dial an outside line. When you are done editing, press on to call the displayed number or press Save to add to your **Phonebook**.

Add Number

The **Add Number** function allows you to enter new names and numbers. You can store phone numbers and associated names in your phone's memory to use for *Recall* dialing and *Speed* Dial. Each number you store can be up to 24 digits in length and any names you store can be up to 12 characters in length. You can view the percentage of memory used through the **Memory Monitor**.

Storing an Entry

1. Open the **Phone Book Menu**.
2. Select **Add Number**.
3. Enter a name you want associated with the telephone number you are going to store. Table 1(page 14) shows which keys and the number of times to press them to enter letters.
4. Press Confirm to store the name.
5. Enter the phone number you want to store.
6. Press Confirm.
7. Select the speed dial number or select '-' to store this entry without a speed dial number. If the speed dial number is in use, the number will flash when selected indicating you can overwrite the existing speed dial setting.
8. Press Confirm to store the entry.

If the entry you create matches an existing entry, the phone will beep.

If an entry cannot be stored, the phone will beep and display `Memory Full`.

Phone Book Entry Shortcut

The phone must be on standby mode.

1. Enter the number and press Save.

2. Enter the name and press Confirm.

Editing an Entry

You can add to names or digits or delete and replace letters and digits in entries stored in memory. To do this:

1. Open the **Phone Book** menu and select **Search**.
2. Enter a name to be recalled and press Confirm to display the corresponding entry. To scroll through the other memory entries press the **Down Arrow** or **Up Arrow**. Press Confirm when the entry you want to change is displayed.
3a. Press Option and select **Edit**.
3b. Entering a letter from the keypad will add letters to the end of the name.
3c. To replace letters within the name, press the **Up Arrow** to erase the letters you want to change and then enter the new letters.
3d. Press Confirm to save changes or to accept the current entry.
4a. Enter digits using the keypad will add digits to the end of the number.
4b. To replace digits, press the **up arrow** to erase the digits you want to change and then enter the new digits.
4c. Press Confirm to save changes or to accept the current entry.
5. Replacing speed dial number, requires that you select a new number and press Confirm to save the new number.

27

Deleting an Entry

1. Open the **Phone Book** menu and
    select Search.
2. Enter a name to be recalled and press
    Confirm to display the correspond-
    ing entry. To scroll through the
    other memory entries press **Down
    Arrow** or **Up Arrow**. Press Confirm
    when the entry you want to change
    is displayed.
3a. Press Option and select Delete. The
    display will prompt "Delete Entry?"
    Press Confirm to delete the entry.

NOTE: Fixed phonebook entries cannot
be edited or deleted and are designated by
the Locked soft key. Fixed phonebook
entries are only available when they are
configured in your phone. See your
system administrator.

The **Memory Monitor** function allows
you to see the percentage of the memory
used to store your entries. This percent-
age does not include fixed phonebook
entries.

Sound SetUp Menu

The **Sound Setup** menu organizes all of the 9P23 handsets ability to customize Ring, Melodies, Volumes and Options such a vibrate as well as speaker volumes and microphone gains.

Sound Profiles

The 9P23 handset offers you the ability to individually set up two distinct **Sound Profiles**. Each profile can be used to customize the Ring Volume and Silent Alert functionality. The two profiles are labeled Normal and Meeting and can be set-up based on the users preference.

Within the Sound Profiles sub-menu there are two options:

Active Profile option allows you to activate the **Normal** or **Meeting** profile by selecting between the two options using the Up down Arrow .

Customize Profile, allows you to customize your **Normal** and **Meeting** profiles settings including.

1. **Ring Volume** allows you to set the level of the ring volume. Turn the ringer off by setting the volume to the lowest level.

2. **Key Sound** allows you to choose whether the keys click when pressed or remain silent.

3. **Vibration** allows you to enable or disable the internal silent alert option.

Ring Melodies

The **Ring Melodies** option allows you to choose the pattern of tones played when the phone rings. There are different patterns for each call type. You may assign each type a unique pattern or mute the ring for that type. Each pattern is demonstrated as you scroll through the selections. Refer to the Appendix for additional ring patterns that can be programmed into your phone.

Speaker Vol

The **SpeakerVol** allows you to adjust the volume of the earpiece. You can also adjust the volume during a call by using the **side volume key**.

Attach Vol

The **Attach Vol** allows you to select the volume of optional handsfree accessories.

Microphone Gain (Mic Gain)

The **Mic Gain** allows you to increase or decrease the microphone sensitivity on your handset as well as the microphone of an attachment such as the headset.

Settings Menu

The **Settings Menu** organizes miscellaneous settings for the handset. Within the **Settings** main menu there are two sub-menus namely the **General Menu** and **Custom Menu**.

The **General Menu** allows you to customize general functionality of your phone to your preferences.

The **Select Line** menu option allows you to choose another line as the selected line. The selected line identifies the line used when you place the next call. To select a line navigate between the available lines using the up and down arrows and set the line by using the Confirm softkey.

The **Contrast** menu option lets you adjust the display contrast. The specific contrast chosen can be save by pressing the Confirm softkey.

The Backlight menu option allows you control whether the backlight of the display simply times out or if it never turns on at all.

Date Mode allows you to display the current date while the phone is in **Standby** mode. The format selected is used for all date displays.

Time Mode allows you to display the current time while the phone is in **Standby** mode. The format selected is used for all time displays.

SelectPUN allows you to choose one of eight possible extensions already programmed into your phone. **'A'** sets the phone to automatically use the first valid extension.

The **Custom Menu** allows you to continue to customize peripheral features such as the phone name and the alarm number.

The **Phone Name** allows you to enter or change the ID of your phone. When the phone is in **Standby** mode, this label appears on the lefts side of the phone display next to the extension number.

The **Alarm No** menu option allows you to program a number that will be dialed when you press the alarm button on the top of the handset.The number can be an internal or external number.

30

In Call Menu

Depending on your system configuration, either **Standard** or **Enhanced Digital**, control of the **In Call Menu** features may vary. Based on your current telephone system, some **In Call Menu** options may not be available. **NOTE**: If your system configuration is for **Mobility Serve** r, please refer to page 24.

Standard System Configuration

The **In Call Menu** lets you control features during a call.

PBX Functs lets you use features provided by your PBX (phone switch). These functions are available only when they are configured for your phone. See your system administrator.

In Call Menu features are available only during an active call. To access the **In Call Menu** press Options and use the **Up Arrow** and **Down Arrow** to scroll through the menus.

Transfer allows you to place your present call on hold, dial a second number or recall one from your phonebook, converse with the new party and commit or cancel the transfer.

Conference allows you to place your present call on hold, dial another number and conference the calls together.

Hold places your call on hold.

Reconnect lets you reconnect to the call on hold.

Callback allows your phone to notify you when a called party is free.

Cancel Callback disables the active callback function.

SpeakerVol allows you to change the earpiece or handsfree volume during a call.

Enhanced Digital Integration (EDI) Configuration

The EDI **In Call Menu** lets you use features during a call the same way as with the Standard System Configuration.

Since EDI may support up to four lines and allows for each line to be placed on hold, a blinking line appearance (1, 2, 3 or 4) on the bottom left of the display indicates which line is on hold.

For additional information on EDI Phone Operation, see page 23.

31

Problems You Can Solve

Displayed Messages and Explanations

The signal is too weak to make a call.

Try again when you are closer to a base station or turn the phone OFF and ON. If the problem persists, notify your system administrator.

Battery power is low. When the phone shuts itself off, replace the battery with a fully charged one. Or use an alternate power source, such as a rapid desk charger.

The phone does not recognize any base station. Try turning the phone OFF and ON. If the problem persists, notify your system administrator.

The text message memory is full and **AutoDelete** is turned OFF. Delete some messages yourself or turn **AutoDelete** ON. (See **Messaging Menu**, page 24.)

Problems and Possible Solutions

The phone does not turn ON
- Recharge or replace the battery.
- Remove and reinsert the battery.

Phone is not ringing when a call is received
- Check the **Sound Setup Menu** to make sure the phone is not set for **Meeting Profile**.
- Check the **Ring Volume** to make sure it has not been set for the lowest setting.

Phone becomes warm during long calls
- This is not a problem. Because of its size, the phone may feel slightly warm during extended calls.

Battery does not seem to charge to full capacity
- Try a different battery.

Tones are not heard when pressing keys during a call
- **Key Sound** is turned OFF by default. If audible tones are required, make sure **Key Sound** in the **Sound Profile Menu** is turned ON. See page 28.

Beeping is heard through the headset when the battery is low
- The Battery Low alert indicates the battery is reaching the end of its charge. You should not attempt to make calls in this state. Turn the phone OFF and replace the battery. Otherwise, the phone will shut off automatically. The buzz should not occur with an adequately charged battery.

If you need additional information or assistance, or would like to purchase accessories:
• In the U.S.A., call 1-877-71 ASCOM (1-877-712-7266)

Program Your Own Ring Melody

Default Melodies

Internal Call:

     Fur Elise   2e2D2e2D2e2D2e2b2d2c3a7-

External Call:

     piano concerto Tchaikovsky: 2G2f2D4C5f2D5F2f2c2C4A7-

Call Back Call:

     House rhythm   1e3-1a1e1a1e3-1a1e1-2g2-

Message Call:

     door bell   2a1-1e3-3b

Voice Mail:

     short loop   1f1G1F1G1f1G1F1G

Some examples of Bell Sounds are:

twin tone 1	0e0c0e0c0e0c...
twin tone 2	0g0b0g0b0g0b...
rolling slow	2c2e2g2c2e2g...
rolling quick	0c0e0g0c0e0g...
loop up	0c0d0e0f0g0c0d0e0f0g
loop down	0g0f0e0d0c0g0f0e0d0c

Some examples of Melodies:

Rock'n Roll	2e2C2a2F2d2a2g2e2a2F2d2a
Blues Rhythm	3d4g3F3d5-3-3a3c3a3c3d3-
Toccata in D-minor (Bach)	0g0f5g4g0f0D0d0c4b5c
Nabucco (slave choir)	3F3e4d4a4d3d3c3e4g3g
Wein, Weib, und Gesang	2a3b3C4d3e3f4F3g2F2e3d3a
Nutcracker (Fairy dance)	2g2e3g3F3D3e4d4c2b2d3c4b