DRAFT

DCT1900 Portable Handset User Guide
DT-620

DRAFT

About This Manual

Please read this manual thoroughly before attempting to use your phone. This manual is divided into the following sections.

Important Safety Information describes safety 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, "Hold NO/ON/OFF to turn ON your phone".

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

1

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's manual. **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 auxillary 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 the 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 power source before attempting any cleaning. Once unplugged, use a soft cloth dampened with water.

♦ **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 electician. 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** remove the antenna. A detached antenna may be a choking hazard for children.

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

4

Guidelines for Safe and Efficient Use

Important: Read This Information Before Using Your DCT1900 Portable Telephone

The handheld portable wireless telephone is one of the most exciting and innovative products ever developed. With it, you can maintain connectivity to traditional telephone services while remaining mobile around a business 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 1850 to 1990 MHz and employs commonly used modulation techniques.

Exposure to Radio Frequency Energy

In 1991 the Institute of Electrical and Electronics Engineers (IEEE), and in 1992 the American National Standards Institute (ANSI), updated the 1982 ANSI Standard for safety levels with respect to human exposure to RF energy. Over 120 scientists, engineers, and physicians from universities, government health agencies, and industries, developed this updated Standard after reviewing the available body of research. In March 1993 the Federal Communications Commission (FCC) proposed the adoption of this updated Standard.

Your phone is designed to comply with this updated Standard. If you want to limit RF exposure even further you may choose to control the duration of your calls and operate your phone in the most power efficient manner.

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. While speaking directly into the mouthpiece, position the antenna up and over your shoulder.

♦ Do not hold the antenna when the phone is "IN USE".

Antenna Care and Replacement

Do not use the phone with a damaged antenna. Replace a damaged antenna immediately. If you need to replace your antenna, use only a manufacturer approved antenna. Otherwise, return your phone for repair.

Use only the supplied or approved antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

To order an antenna, in the U.S. call 1-800-444-ERIC (1-800-444-3742).

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 (by poking themselves or others in the eye with the antenna for example). 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.

5

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 communications.
♦ 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.

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. 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 *condition* the battery by first charging it, and then fully discharging it, three times in succession. Discharging is completed by using the phone until a low battery condition is met.

Battery Use and Care

A rechargeable battery has a long service life if treated properly. A new battery, or an old one that has not been used for a long period of time, needs to be fully discharged and recharged three times to reach full capacity. This is call *conditioning*. The easiest way to condition a battery is to leave your phone ON until the Low Battery alarm sounds and the phone shuts off and then charge the battery again. The optional multicharger has a battery conditioning function.

♦ Do not leave your 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 Ericsson 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 below (above 104°F/40°C or below 41°F/5°C).

Battery Charging Times

The following table lists approximate charging times for various battery/charger combinations.

	Light NiMH	High Cap NiMH
Rapid Charger	x hour	x hours
Desk Multicharger (front)	x hour	x hours
Desk Multicharger (back)	x hours	x hours

7

Getting Started

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

- Charge the battery

- Attach the optional belt clip to your battery

- Attach the battery to your phone

Charging Your Battery

Ericsson offers the following battery chargers:

- A rapid charger

- A desk multicharger

Follow the steps for your particular charger.

Rapid Charger

The rapid charger connects directly to the bottom of your phone. This charger supplies power to charge your battery while the battery is attached to your phone. See the table on page 6 for charging times for your battery. The rapid charger also supplies power to your phone for placing and receiving calls. To use the rapid desk charger:

1. Attach the charger connector to the connector on the bottom of your phone, as shown in the following illustration.

2. Plug the AC adapter into a wall outlet.

3. Press and hold NO/ON/OFF to turn your phone ON. The green indicator light comes on and remains steady to indicate that the battery is being charged. The battery icon changes into a blinking plug. When the battery is fully charged the plug icon remains steady.
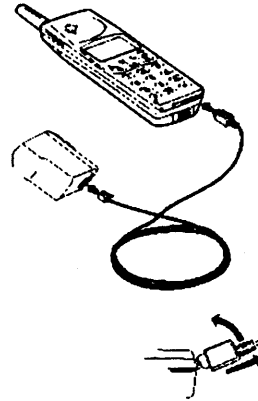
Desk Multicharger

The desk multicharger can charge a battery attached to your phone (standing in the front compartment of the desk multicharger) and a separate battery (standing upside down in the rear compartment of the desk multicharger). The desk multicharger can also condition a battery by discharging the battery completely before beginning the charging cycle.

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. Press and hold NO/ON/OFF to turn your phone ON.
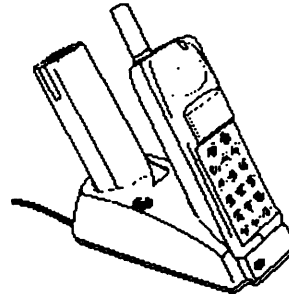
4. Insert your phone into the front compartment of the desk multicharger, as shown in the following illustration. The light on the left front corner of the desk multicharger comes on red when the phone is properly seated in the desk multicharger.

5. Remove your phone from the desk multicharger when the light turns green. The green light indicates that the battery attached to your phone is fully charged.

Charging a Separate Battery

1. Plug the AC adapter into the charger.
2. Plug the AC adapter into a wall outlet.
3. Insert the battery into the rear compartment of the desk multicharger as shown in the following illustration. The light in the middle of the desk multicharger comes on red when the battery is properly seated in the desk multicharger. If the ambient tempera ture is too hot or cold for the desk multicharger to operate (above 104°F/40°C or below 41°F/5°C), the light on the right front corner of the desk multicharger comes on yellow.
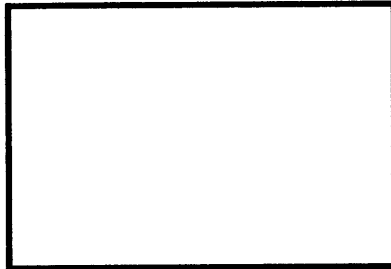4. Remove the battery from the desk multicharger when the light turns green. This indicates that the battery is fully charged.

NOTE: You can charge a battery attached to a phone AND a separate battery at the same time in the desk multicharger.

Conditioning a Battery

The desk multicharger can condition a battery by fully discharging the battery and then charging the battery to full capacity. Conditioning helps prevent the memory effect that can result from repeatedly charging a battery before the battery is fully discharged. Conditioning is not neccessary for NiMH batteries. To condition a battery in the desk multicharger:

1. Plug the AC adapter into the charger.
2. Plug the AC adapter into a wall outlet.
3. Insert the battery into the rear compartment of the desk multicharger. The light/button in the middle of the desk multicharger comes on red when the battery is properly seated in the desk multicharger. If the ambient temperature is too hot or cold for the desk multicharger to operate (above 104°F/40°C or below 41°F/5°C), the light on the right front corner of the desk multicharger comes on yellow.
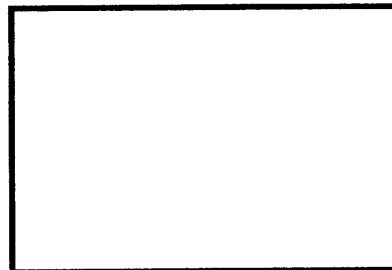
4. Press the illuminated button that is located in the middle of the desk multicharger as shown in the following illustration. The light turns

9

yellow while the desk multicharger discharges the battery. The light turns red when the desk multicharger begins charging the battery.

5. Remove the battery from the desk multicharger when the light turns green. This indicates that the battery is fully charged.

Attaching the Antenna

1. Insert the gold pin on the end of the antenna into the antenna connector located on the top of the phone, as shown in the following illustration.

2. Press the pin into the connector and rotate the antenna until the antenna
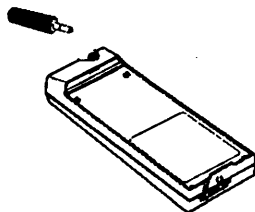
clicks and locks in place. You should not be able to easily rotate the antenna after it locks in place.

Attaching the Belt Clip to the Battery

Care should be taken when removing the belt clipafter it has been attached to a battery. Forcing the the clip off could damage the battery case or cause bodily injury. Belt clips are optional and are not needed if you are using a case that has a clip.
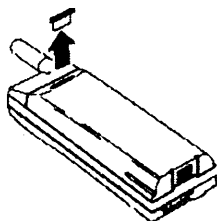
1. Remove the rubber insert.
2. Apply pressure from opposite side of phone by inserting a pencil tip into the small square hole and pushing.
3. The rubber insert should easily pop out.
4. Insert the flat metal tab on the belt clip into the slot in the battery case as shown in the following illustration.
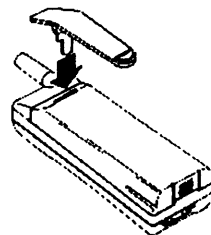
5. You should hear the belt clip click when it locks in place.

Removing the Belt Clip from the Battery

Care should be taken when removing the belt clipafter it has been attached to a battery. Forcing the the clip off could damage the battery case or cause bodily injury.

Attaching the Battery to Your Phone

Attach the battery to your phone as shown in the following illustration. Remove the battery by holding in the tab on the bottom of the battery and tilting the battery away from the phone.

10

Learning About Your Phone

Antenna

Indicator Light

Earpiece

ERICSSON

Display

Microphone

11
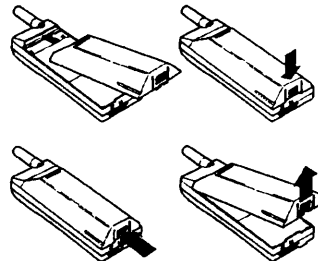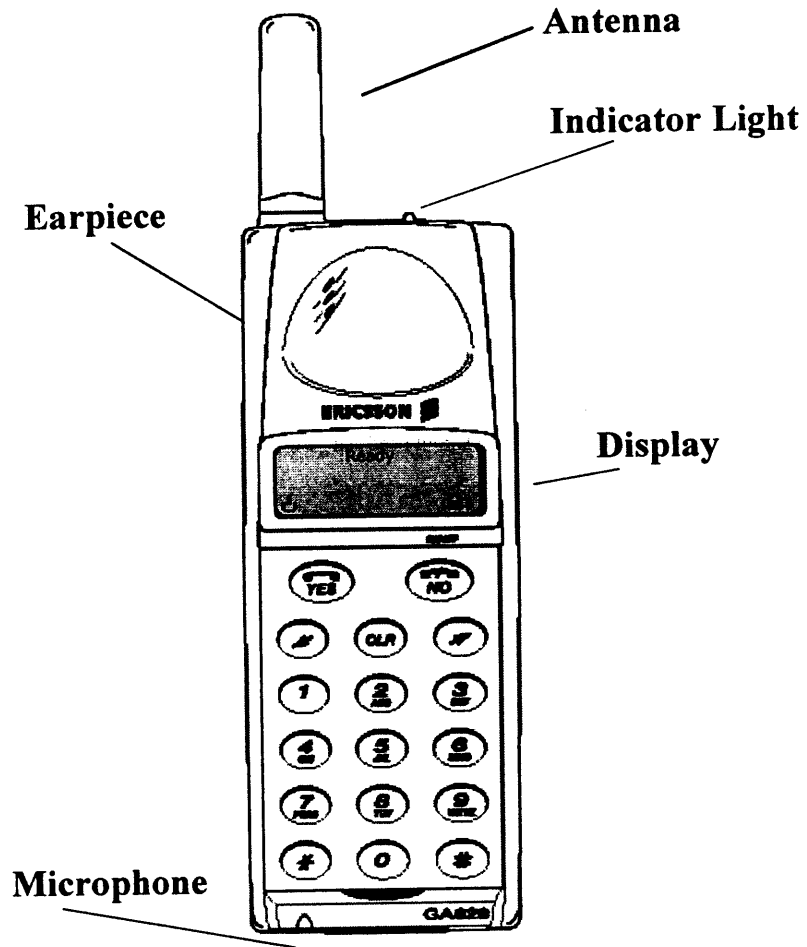
Display Indicators
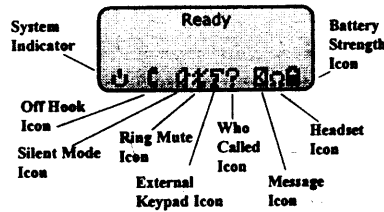
System Indicator shows whether the phone is locked to a system (steady icon) or not (icon blinks). The phone will only lock to systems for which it has been programmed.

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

Silent Mode Icon indicates when the phone is in silent mode.

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

Ext. Keypad Icon indicates the external serial port is enabled.

Who Called Icon indicates unanswered calls.

Message Icon indicates voice mail has been received.

Headset Icon indicates when the optional headset 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.

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 Power Alert, No System Alert, or No Access Alert. See "Problems You Can Solve", page 26.

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).

12

Key Functions

YES

- 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.
- Press to store menu settings.

NO/ON/OFF

- Press and hold to turn your phone ON or OFF.
- Press to end a call.
- Press to temporarily mute the ringer.
- Press to mute warning beeps.
- Press to exit a menu without saving changes.

RCL/Up Arrow

- Press to recall numbers stored in memory when your phone is in standby mode.
- Press to scroll through memory entries when your phone is in recall mode.
- Press to scroll through menus and menu setting selections when your phone is in menu mode.

MENU/Down Arrow

- Press to enter menu mode when your phone is in standby or incall mode.
- Press to scroll through memory entries when your phone is in recall mode.
- Press to scroll through menus and menu setting selections when your phone is in menu mode.

CLR **Clear**

- Press to erase the last entered letter or digit from display.
- Press and hold to erase all the text entered.

13

Basic Operations

Turning Your Phone On

Press and hold NO/ON/OFF until your phone beeps. The display and keypad backlighting come on for about 30 seconds. The display should look similar to this illustration. This display represents standby mode.

Turning Your Phone Off

Press and hold NO/ON/OFF 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 **CLR** to erase the digit.
2. Press **YES**. The Off Hook icon flashes while your phone attempts to access the system.
3. When you finish your conversation, press NO/ON/OFF to end the call.

Answering a Call

When your phone receives a call, the ring tone sounds (unless you have disabled it through the **Sounds** menu, see page 24) and the indicator light on top of the phone rapidly flashes red.

1. Press **YES** to answer the call.
2. Press NO/ON/ OFF to end the call.

Temporarily Muting the Ring Tone

To temporarily mute the ring tone without answering the call, press NO/ON/OFF. You can still answer the call by pressing **YES**.

Increasing or Decreasing Speaker Volume During a Call

To adjust the speaker volume during a call, press the volume keys on the side of the portable. Press **YES** to save the new setting.

Muting the Microphone During a Call

To mute the microphone during a call, press **Down Arrow**. Choose Mute Mic and press **YES**. Mic Mute appears on the screen to indicate the mute is active. Press NO/ON/ OFF or **CLR** to cancel muting.

Unanswered Calls

If your phone receives calls which you do not answer, the **Who Called** icon will appear in the display (when supported by your installation). You can find out who called through the **Who Called** menu under **Services**. It shows an index number identifying the entry (up to 10 entries), and the phone number of the caller. You can call the person back by pressing **YES**. You can use **Up Arrow** and **Down Arrow** to scroll through the list.

Redialing the Last Number You Called

Your telephone stores the last 10 numbers you called. To view this number in the display, press **Up Arrow** twice. The last number you called is shown in the display. You can redial the number by pressing **YES**. You can also view the last number you called by using the **Services** menu, see page 22.

14

Speed Dial

The Speed Dial feature (when enabled through the **Call Setup** menu, see page 23) lets you quickly dial phone numbers. Any entry in memory may be assigned a speed dial number from 0 to 9. See page 20 for information on storing numbers in memory. To use the Speed Dial feature, enter the speed dial number you want to call. Press YES to recall the corresponding memory entry. Press YES to dial the number in the display.

Pause Dialing

Pause dialing lets you enter several 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, followed by an access code, you could enter the following: 551111DownArrow2222 **Down Arrow**33333 where 555-1111 is the phone number to enter your voice mail system. 2222 is your extension. 33333 is your access code. When you press YES, 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.

There is a voice mail option in the **Services** menu. Here you can store the series of numbers needed to access your voice mail. Alternately, you can store groups of numbers, such as the above example, in a memory location. If speed dial is enabled you can then dial the numbers by entering the

memory location, pressing YES to recall the stored number and YES to dial.

Low Battery Power Alert

The Low Battery alert sounds when your battery is reaching its lowest operational power level. The words **Low Battery** flash in the display, the battery icon blinks, and the indicator light on top of your phone flashes red. When this happens, leave your phone turned ON. You can mute the audible alert by pressing NO/ON/OFF while it is beeping. The phone discharges the battery and then shuts itself OFF. You should charge the battery within 24 hours so that the battery can charge to full capacity.

15

Summary of Basic Operations

To Do This:	Press:
Turn phone ON	Hold NO/ON/OFF
Turn phone OFF	Hold NO/ON/OFF
Make a call	Predial number, YES
Answer a call	YES
End a call	Press NO/ON/OFF
Temporarily mute the ringer	Press NO/ON/OFF
Decrease speaker volume during a call	Down Arrow, select volume option or the side volume keys
Increase speaker volume during a call	Up Arrow, select volume option or the side volume keys
Mute microphone	Down Arrow, select Mute Mic
Enter menu mode	Down Arrow
Erase the last digit/letter entered	CLR
Go back one level in menu mode	Press NO/ON/OFF
Scroll through menus or menu settings	Up Arrow or Down Arrow
Select a highlighted menu setting	YES
Call the number shown in the display	YES
Recall a number from memory	Up Arrow
Redial the last number dialed	Up Arrow (twice), YES

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. 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

* Set up call features

* Change ring tone and other sound settings

* Change other settings for your phone

Opening Menus

To open the main menu, press **Down Arrow**. The words Main Menus and the name of the first submenu are shown at the display. To open one of the submenus:

1. Press **Down Arrow** or **Up Arrow** to scroll through the list of submenus.
2. When the menu pointer (>) is beside the submenu you want to open, press **YES**. The list of settings for the submenu is shown in the display.
3. You can scroll through the list of settings by pressing **Down Arrow** or **Up Arrow**.
4. To return to the list of submenus, press NO/ON/OFF.

Pressing NO/ON/OFF from a list of submenu settings returns you to the main menu list.

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 is beside the setting you want to change.
2. Press YES. The choices available for the setting are shown in the display. The currently active choice is blinking. Some settings have two choices, such as **ON** and **OFF** for the **Speed Dial** setting in the **Call Setup** menu. Other settings have a list of choices, such as the **Ring Pulse** setting in the **Sounds** 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 you have made, press NO/ON/OFF. The list of settings is shown in the display.
4b. Otherwise press YES to store the choice you selected. The list of settings is shown in the display.

Exiting Menu Mode

Pressing NO/ON/OFF at any menu level takes you back one level. To exit menu mode, continue pressing NO/ON/OFF until the standby display is shown.

Menu Shortcuts

To quickly access submenus and setting choices you can press **Down Arrow** followed by the number of the submenu and then the number of the setting. For example, you want to change the sound the keys on your phone make when you press them. If the **Sounds** submenu is number 6, and the **Key**

17

Sounds setting is number 3, then you could press **Down Arrow**, then 6, then 3 to go directly to the choices for **Key Sounds**.

Example of Using Menus

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

1. Press **Down Arrow**. The **Main Menu** list is shown in the display.

2. Press **Down Arrow** or **Up Arrow** until the menu pointer (>) is beside **Sounds**.

3. Press **YES**. The **Sounds** menu settings are shown in the display.

4. Press **Down Arrow** or **Up Arrow** until the menu pointer is beside **Ring Vol**.

5. Press **YES**. A bargraph is shown with the current volume blinking.

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

7. Press **YES** to store your choice. The **Sounds** menu options are shown.

8. Press **NO/ON/OFF** twice to exit menu mode.

18

Menu Overview
The following chart shows the menus and settings for your phone.

Standby Mode

Memory
 Store Mem
 Recall Mem
 Edit
  EditSpeedN
  Edit Name
  Edit TelNo
  Delete
  Add
  AddWhoCall
  AddLastDia
 Mem Used
Services
 Who Called
 Voice Mail
 Redial
 Date/Time
Gen. Setup
 Contrast
 Backlight
 AutoAnswer
 Phone Id.
 Greeting
 SelectPUN
 Ext Keypad
Call Setup
 Speed Dial
 Answer Opt
 Tone Send

Sounds
 SilentMode
 Discreet
 Key Sound
 Volume
 Attach Vol
 Ring Vol
 Ring Pulse
  InternCall
  ExternCall
  Callback
  Message
 Vib Attach

In Call Mode

Mute Mic
Volume
Attach Vol
PBX Functs *
 Transfer
 Conference
 Hold
 Reconnect
 Callback
 Cancel Clb
Services
 Who Called
 Voice Mail
 Redial
 Date/Time
Dial Mode
 Tone/Pulse
 Tone Send

* **(Only available when PBX functions
 have been configured)**

19

Storing and Recalling Numbers In Memory

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 menu. See page 22.

Storing a Number and Name in Memory

1. Open the **Memory** menu and choose **Store Mem**.
2. Enter a name you want associated with the telephone number you are going to store. The following table shows which keys and the number of times to press them to enter letters.
3. Press YES to store the name.
4. Enter the phone number you want to store.
5. Press YES.
6. Select the Speed Dial number or select '-' to store this entry without a Speed Dial number.
7. Press YES to store the entry.

To enter letters from the keypad, a key is pressed one, two, three, four, or five times, depending on which letter you want to enter. The following table lists the keys and the number of times you must press them to enter a particular letter.

Recalling a Number From Memory

There are two ways to get to the **Recall Mem** menu selection:

* Through the **Memory** menu.

* Press **Up Arrow** to go directly to the **Recall Mem** selection.

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				
*	.	'	"	*	
#	-	.	?	#	

Recalling a Number Through the Memory Menu

1. Open the **Memory** menu and choose **Recall Mem**.
2a. Enter the letters of the name. You can enter just a few letters of the name or the complete name. If you enter just a few letters, the phone finds the first name in memory that begins with the letters you entered. See the table above for information on entering letters. You can view the rest of the entries by pressing the **Down Arrow** or **Up Arrow** keys.
2b. Press YES if you do not know the name or if a name is not associated with the number. The first entry in memory will be displayed. Use **Down Arrow** or **Up Arrow** to scroll through the entries.

NOTE: A specific telephone number or Speed Dial number cannot be recalled directly, you must enter a name before scrolling.

3. Place a call to the number in the display by pressing YES.

20

Editing a Number in Memory

You can add digits or delete and replace digits in a number stored in memory. To do this:

1. Open the **Memory** menu and choose **Edit**; the **Edit** submenu is displayed.
2. Press **Down Arrow** or **Up Arrow** until the menu pointer is beside your selection; EditSpeedN, EditName, or EditTelNo.
3. Press **YES**.
4. Enter a name to be recalled and press **YES** to display the corresponding entry. To scroll through the other memory entries press **Down Arrow** or **Up Arrow**. Press **YES** when the entry you want to change is displayed.
5a. To add digits to the end of the number, just enter the digits.
5b. To replace digits, press **CLR** to erase the digits you want to change and then enter the new digits.
6. Press **YES** to store the altered number.

Deleting a Number From Memory

1. Open the **Memory** menu and choose **Edit**. In the **Edit** submenu choose **Delete**.
2. Enter a name to be recalled.
3. Press **Down Arrow** or **Up Arrow** until the number and name you want to erase is shown in the display.
4. Press **YES** to erase the number from memory.

NOTE:

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

21

Menu Descriptions

Memory Menu

The **Memory Menu** includes the following settings:

Store Mem lets you store a phone number and an accompanying name.

Recall Mem lets you recall a phone number by using the name stored with the number.

Mem Used shows the percentage of memory used to store your entries.

Edit lets you change the items stored in the phonebook.

> **EditSpeedN** lets you change a speed dial number.
>
> **Edit Name** lets you change a name.
>
> **Edit TelNo** lets you change a telephone number.
>
> **Delete** lets you delete an entry.
>
> **Add** lets you create a new entry (same as Store Mem).
>
> **AddWhoCall** lets you create an entry for the last unanswered call received.
>
> **AddLastDia** lets you create an entry for the last dialed number.

Services Menu

The **Services Menu** lets you access services provided by the DCT1900 system.

The **Who Called** icon is displayed to indicate unanswered calls. You can use the **Who Called** menu to view the number of the last unanswered call. The display shows an index number in the upper left corner and the time of the call in the upper right corner. An exclamation point '!' indicates that you have not viewed this entry. To return the displayed call, press YES. An 'R' will replace the '!' to indicate the call has been returned. Otherwise press NO/ON/OFF, the '!' will be cleared.

The **Voice Mail** function lets you enter or dial your voice mail system's access number. The **Message** icon is displayed when you have messages waiting to be reviewed.

Redial lets you view the last ten numbers called.

Date/Time lets you view the current date and time.

22

General Setup Menu

The **General Setup Menu** lets you customize the phone to your preferences.

Contrast lets you adjust the display contrast.

Backlight lets you choose whether the backlight for the display and keypad times out or never lights up.

AutoAnswer allows the phone to answer incoming calls without you pressing any keys (must be using a headset accessory).

Phone Id. allows you to enter or change the ID of your phone. When the phone is on, this label appears on the second line with the extension number.

Greeting lets you enter or change the greeting string that appears when you turn the phone on.

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.

Ext Keypad allows the phone to connect with special serial port accessories.

Call Setup Menu

The **Call Setup Menu** lets you select features to enhance the use of your phone for personalized needs.

Turning ON **Speed Dial** allows you to dial stored numbers quickly. To use **Speed Dial**, enter the one digit speed dial number, press YES to recall the entry and YES a second time to dial the displayed phone number.

The **Answer Opt** function lets you answer calls by pressing either YES or pressing any key except NO/ON/OFF.

Activating the **Tone Send** function causes your phone to generate its own DTMF tones during a call. This allows operations like electronic banking and other DTMF tone - operated activities. When **Tone Send** is turned OFF, your phone DOES NOT generate DTMF tones, relying instead on the PBX to do so.

Sounds Menu

The **Sounds Menu** lets you set the different volumes and sounds for ringing, keypad, ear piece, and optional handsfree accessories.

When **SilentMode** is enabled, your phone does not make any keypad or ringing sounds and does not beep for warnings or unavailable options. The **SilentMode** icon appears in the display. You can quickly activate **SilentMode** by pressing **Down Arrow**, then **#**. Press **Down Arrow**, then **#** again to disable **SilentMode**.

Discreet ringing, when enabled, uses a low ring volume setting for the first three rings, then rings at the set level.

Key Sound allows you to choose the sounds made when you press keys, either a "click" or no sound at all.

Volume allows you to adjust the volume of the earpiece. You can also adjust the volume during a call by pressing **Down Arrow** and choosing volume or by using the side volume keys.

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

Ring Vol allows you to set the level of the ring volume. Turn the ringer off by setting the volume to the lowest level. The ring mute icon appears when the ringer is off.

Ring Pulse allows you to choose the pattern of tones played when the phone rings. 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.

Vib Attach allows you to enable or disable the optional vibrator attachment or the optional vibrating battery.

24

In Call Menu

Mute Mic disables the microphone so you may speak privately to someone else. **Mic Mute** is displayed. Resume your phone conversation by pressing NO/ON/OFF or **CLR**.

Volume and Attach Vol allow you to change the earpiece or headset volume during a call.

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

> 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.

NOTE: The CLR key is the hookflash key. PBX functions can also be implemented manually by entering hookflashes and DTMF tones as described in the PBX manufacturer's analogue user manual. See your system administrator.

Services provides the same menu available in standby mode. See page 22, **Services Menu**.

Dial Mode provides control of dialing and touch tone access functions.

> Tone/Pulse lets you switch the dialing method from tone to pulse. This setting takes effect for each call separately, it is not stored.

> Tone Send function controls whether the phone generates it's own DTMF tones. See page 23, **Call Setup Menu**.

25

Problems You Can Solve

Displayed Messages and Explanations   **Problems and Possible Solutions**

The signal is too weak to make a call. Try again when you are closer to a base station. 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. If the problem persists, notify your system administrator.

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 **Sounds** menu to make sure the phone is not set for **Silent Mode**.
- 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
- Condition the battery by fully discharging and charging it three times. Or, if your phone came with a desk multicharger, use the conditioning function on the desk multicharger to condition the battery.

Tones are not heard when pressing keys during a call
- Make sure **Tone Send** in the **Call Setup** menu is turned on. See page 23.

If you need additional information or assistance, or would like to purchase Original Ericsson Accessories:
- In the U.S.A., call 1-800-444-ERIC.

26

Appendix

Program your own Ringer Melody/Bell Sound

Your phone can ring one of four different preprogrammed melodies for each type of call. If, however, you have a different taste or just fancy a change, you may compose your own.

To compose your own melody:

- Access **Sounds, Ring Pulse** menu

- Access **Internal, External** or **Callback**

- Select Melody Ringing 🔔

Press **YES** and you will see the program of the default melody for this type of call (see page 28).

- Erase the melody with **CLR**.

- Type in your own melody or one of the samples given below.

Enter the melody as follows:
With the first key press, you enter the length of the first tone, which can range from 1/16th to 32 counts. With the next key press, you enter the tone height, ranging from a to gis (g#). The 3rd key press enters the length of the second tone, etc.
You can find the relevant keys in the table below. One count is 0.64 seconds (95 beats/min). A rest is made with the MENU/Down Arrow key.

NOTE:

A user-defined melody plays continuously when activated. You have to program pauses yourself.

Tone durations and tone heights are:

key	display	length	tone
0		1/16	
1	a	1/8	a
2	A	1/4	ais
3	b	1/2	b
4	c	1	c
5	C	2	cis
6	d	4	d
7	D	8	dis
8	e	16	e
9	f	32	f
*	F		fis
0	g		g
#	G		gis
Down	-		rest

27

Appendix

Default Melodies

Internal Call:

Fur Elise   2e2D2e2D2e2D2e2b2d2c3a7-

External Call:

le piano concert Tchaikovsky: 2G2f2D4C5f2D5F2f2c2C4A7-

Call Back Call:

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

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-dur (Bach)   0g0f5g4g0f0D0d0c4b5c

Nabucco (slave choir)   3F3e4d4a4d3d3c3e4g3g

Wein, Weib, und Gesang   2a3b3C4d3e3f4F3g2F2e3d3a

Nutcracker (Fairy dance)   2g2e3g3F3D3e4d4c2b2d3c4b