

Satellite Series™ 9500 Portable Phone

User's Guide



Personal Communications Sector
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Contents

Welcome!

Guide Overview	10
Technology Overview	13
Features Overview	16
Phone Overview	17
The Indicators	19
Package Contents and Options	22

Getting Started

Battery Information	26
Removing the Battery Covers	27
Installing the Battery	28
Checking the Battery	30
Charging the Battery	32
What Is a SIM Card?	34
Installing the SIM Card	35
What is a Cellular Cassette?	36
Installing the Cellular Cassette	37

Using Your Phone

Feature Overview	40
Powering Up the Phone	41
Placing Calls	43
Receiving Calls	47
Ending a Call	49
Using Call Waiting	50
Placing a Call on Hold	51
🌐 Muting a Call	53
Sending a Phone Flash	54
Basic Phone Setup	55

Using the Menus

Using the Options Menus	58
🌐 Using the Quick Access Menu	61
Using The In-Call Menu	63

Managing the Phone Book

What's on the Menu?	66
Feature Overview	67
Organizing Your Phone Book	68

Storing Names and Numbers	70
Entering Names	72
Using Pauses in Numbers	74
🌐 Using Phone Number Prefixes	75
Recalling Entries	76
Calling, Modifying, or Erasing an Entry	78
🌐 Checking Phone Book Capacity	79
🌐 Preventing Access to the Phone Book	80
🌐 Restricting Phone Use	81
Viewing the Last Ten Numbers Dialed	85
Viewing and Modifying Phone Numbers	86
🌐 One-Touch Dialing	88

Using Calling Features

What's on the Menu?	90
Feature Overview	91
🌐 Showing the Battery Meter	92
🌐 Showing Signal Strength	93
🌐 Deactivating Pending Call Drop Signal	94
Using Call Forwarding	95
🌐 Activating Call Waiting	100
Restricting Calls	101

Using Message Services

What's on the Menu?	106
Feature Overview	107
🌐 Checking Your Voicemail	108
🌐 Storing Your Voicemail Number	109
Managing Your Messages	110
Accessing Messages	112

Customizing Phone Features

What's on the Menu?	116
Feature Overview	117
Adjusting Your Phone's Tones	118
Locking and Unlocking Your Phone	120
Protecting the SIM Card	122
Managing Other Security Settings	124
🌐 Managing Time and Date Settings	126
🌐 Activating Extended Menus	128
🌐 Selecting the Display Language	129
🌐 Managing Your Phone's Settings	130
Non-GSM Cellular Mode Settings	132

Accessing the Network

What's on the Menu?	138
Feature Overview	139
🌐 Registering With the Satellite Network	140
GSM Cellular Mode Network Settings	141

Selecting a Mode

What's on the Menu?	146
Feature Overview	147
Selecting Automatic Modes	148
Selecting Manual Modes	150

🌐 Timing Your Calls

What's on the Menu?	152
Feature Overview	153
🌐 Showing Call Timers	154
🌐 Setting Audible Call Timers	156
🌐 Showing the In-Call Timer	158
🌐 Show the Lifetime Timer	159

🌐 Customizing the Menu System

🌐 Personalizing the Options Menu	162
🌐 Personalizing the Quick Access Menu	164

Troubleshooting 165

Glossary 169

Index 173

Patent Information 181

Safety Information

Exposure To Radio Frequency Signals

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is on, it receives and also sends out radio frequency (RF) signals.

In August, 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

- American National Standards Institute (ANSI) C95.1 (1992)
- National Council on Radiation Protection and Measurements (NCRP) Report 86 (1986)
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) (1996)

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI standard (C95.1).

The design of your phone complies with the FCC guidelines (and those standards).

Antenna Care

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

Phone Operation

Normal Position: Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

Tips on Efficient Operation: For your phone to operate most efficiently:

- Extend your antenna fully.
- Do not touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than needed.

Batteries

Caution: All batteries can cause property damage, injury or burns if a conductive material, such as jewelry, keys, or beaded chains, touches exposed terminals. The material may complete an electrical circuit and become quite hot. To protect against such unwanted current drain, exercise care in handling any charged battery, particularly when placing it inside your pocket, purse, or other container with metal objects. When the battery is detached from the phone, your batteries are packed with a protective battery cover; please use this cover for storing your batteries when not in use.

Driving

Check the laws and regulations on the use of wireless telephones in the areas where you drive. Always obey them. Also, if using the phone while driving, please:

- Give full attention to driving—driving safely is your first responsibility.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call if driving conditions so require.

Electronic Devices

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers:

- Should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned on.
- Should not carry the phone in a breast pocket.
- Should use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your phone off immediately.

Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your phone off in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Turn your phone off in any facility where posted notices so require.

Aircraft

FCC regulations prohibit using your phone while in the air.

Switch your phone off before boarding any aircraft.

Blasting Areas

To avoid interfering with blasting operations, turn your unit off when in a "blasting area" or in areas posted: "Turn off two-way radio." Obey all signs and instructions.

Potentially Explosive Atmospheres

Turn your phone off when in any area with a potentially explosive atmosphere and obey all signs and instructions. 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 gasoline stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

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

For Vehicles Equipped with an Air Bag

An air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Welcome!

The future of global telecommunications is here—a satellite telephone, providing you with communication all over the world.

The company that brought you the world's first commercially available cellular phone has done it again! Motorola proudly introduces its Satellite Series phone for the Iridium® system.

All Motorola wireless phones are designed and manufactured to meet Motorola's exacting specifications and world-class quality standards. During development, our laboratory testing team took the durable phone through rigorous durability tests including temperature, humidity, shock, dust, vibration, and drop tests—and it still worked! We're confident that the phone you purchased meets your own exacting standards.

Thank you for choosing Motorola, a global leader in communications technology.

Enjoy your new Satellite Series 9500 Portable phone!

Guide Overview

You have a brand new phone with a lot of features. Now what? Afraid you'll press the wrong key? Don't worry! As you explore your phone, use this guide to see what key to press and what happens when you press it. Look for suggestions throughout the guide on how to make the most of all the features of your new phone.

Understanding the Guide

Key Presses

Key presses are represented in this guide using symbols so that you may locate and use the required sequence quickly. A sequence of key presses may be shown as follows:



This means you should press  followed by  and then , in sequence, not simultaneously.

Prompts and Messages

Your phone responds to key presses by displaying either a prompt that guides you to the next action or a message confirming that your action is complete. Prompts and messages are represented in this guide in LCD style, for example: Enter PIN or Completed.

Modes

These conventions are used throughout the guide:

—This symbol next to a feature name indicates that your phone must be in Iridium satellite mode to access it. To switch to Iridium satellite mode, see “Selecting a Mode” on page 145.

Gray Text—If you see a heading in gray text, the feature is only available in cellular mode.

Quick Access and Tips

In the margins of your guide are two types of information:

-  Quick Access—provides information on how to complete an action in a couple of key strokes
- Tip—provides useful hints and ways to improve your phone's performance

What's in the Guide?

Here is what you'll learn in each chapter:

Getting Started

In this chapter, we'll show you how to install and charge your battery. Turn to page 25 to get started.

Using Your Phone

How do you make your first phone call? We'll answer this and more in this section. Go to "Using Your Phone" on page 39 for more information.

Using the Menus

Turn to page 57 to learn about how to use the menu system. This chapter teaches you how to navigate the menu systems.

Managing the Phone Book

Turn to page 65 to learn how to make the most of your phone's built-in Phone Book.

Using Calling Features

If you subscribe to Call Waiting, Call Barring, or Call Forwarding, turn to page 89 to learn how to use these network features and more.

Using Messaging Services

Did you know that you can be notified of voicemail or receive numeric and text messages through your Personal Mailbox? Learn even more ways to communicate with your phone in this chapter. Turn to page 105.

Customizing Phone Features

Learn how to customize your phone's features in this chapter. Go to page 115.

Accessing the Network

Turn to page 137 to learn how to register with the satellite or cellular network, depending on your mode.

Timing Your Calls

View the time of your last call or set your phone to remind you after you've been talking for a certain amount of time. Do this and more. Go to page 151.

Switching Modes

If you have a Cellular Cassette™ installed in your portable phone, you can switch between cellular mode and Iridium satellite mode. See page 145.

Customizing Menus

Once you are familiar with the features in your menus, you can then begin to customize your menus to more closely fit your needs. See page 161.

Technology Overview

A number of different standards and technologies for wireless phones exist. This overview gives you a brief description of these technologies to help you understand the differences.

Iridium System

With 66 satellites forming a cross-linked grid above the Earth, the Iridium system is the first low-Earth-orbiting (780 km/485 miles high) system for wireless telephone service. The satellites are close enough to receive the signals of a handheld device and they act like cellular towers in the sky—where wireless signals can move overhead instead of through ground-based cells.

The Iridium system uses a combination of FDMA and TDMA signals to make the most efficient use of limited frequency range (1616-1626.5 MHz). When the phone is in Iridium satellite mode, it uses GSM technology. The optional cellular cassettes enable your satellite phone to access other cellular and PCS systems.

Cellular

Cellular is the term used to refer to the wireless phone systems that originated in the United States and originally operated at the 800 MHz radio frequency range. The FCC allocated this frequency range for cellular technology in 1983. AMPS, NAMPS, GSM, TDMA, and CDMA technologies are all currently available in this frequency range. In North America there is a maximum of two cellular operators in each market. These operators are referred to as the Wireline (landline phone company) and the Non-Wireline carrier.

PCS (Personal Communications Service)

In order to create additional competition in wireless telephony service, the FCC allocated the 1900 MHz range for wireless phone systems as well. GSM, TDMA, and CDMA technologies are available in this frequency range. Personal Communications Service (PCS) is the name adopted by the new, wireless service providers who operate at 1900 MHz. There are up to three PCS operators on the air in most major markets.

Analog Technologies

In analog communications, voice messages are transmitted as sound waves. When someone speaks in into an analog wireless phone, the voice wave is linked to a radio wave and transmitted.

The following are analog standards:

AMPS (Advanced Mobile Phone Service)

This has been the original standard for cellular products in the United States. All customers should be able to use their AMPS cellular cassette in any cellular market across the Americas.

NAMPS (Narrowband Advanced Mobile Phone Service)

This is the next generation analog version of the AMPS system, which uses some digital technology to allow the network to carry three times the number of conversations as well as offering some enhanced features such as messaging. NAMPS cellular cassettes automatically switch to AMPS mode when you are in an area where NAMPS systems are not available.

Digital Technologies

In digital communications, the sound wave created by your voice is converted into a stream of 1s and 0s. Once digitized, this information is compressed and manipulated in such a way that the security of the conversation is enhanced and the background noise is reduced.

The following are digital standards:

TDMA (Time Division Multiple Access)

TDMA allows multiple users to share the same voice channel by having each conversation transmitted alternately over short lengths of time. Each user is allotted a specific time slot

FDMA (Frequency Division Multiple Access)

FDMA separates communications by frequency. This system assigns users separate frequencies on which to communicate.

CDMA (Code Division Multiple Access)

CDMA separates communications by code. This way, the system can mix a number of calls into the same channel. When the tower receives the information, it looks at the coding and reassembles each individual call, completing the transmission.

GSM (Global System for Mobile communication)

This is the name of a TDMA type of digital system originally developed in Europe, and common throughout Asia. This system is used by some of the PCS operators in the United States.

IS-41 (Interim Standard 41)

This is a signal protocol (similar to GSM) used by North, Central, and South American carriers and in some Pacific Rim countries.

Features Overview

Global Voice Communication

The future of global telecommunications is here—a lightweight, handset that provides complete global communication through a system of sixty-six satellites. In addition, if you have an optional Cellular Cassette installed, you can access a cellular network.

Compatibility With Existing Systems

The satellite telephone for the Iridium system offers optional compatibility with existing cellular wireless systems through the use of a Cellular Cassette. Just equip your telephone with the appropriate Cellular Cassette to operate in the corresponding cellular wireless system.

Friendly User Interface

Our friendly user interface means two things:

- You'll see easy-to-read prompts and confirmations as you navigate your phone's menu system.
- Many of your phone's features are customizable to meet your requirements. You choose all the beeps and blips your phone makes.

SIM Card Protection

Your SIM card (Subscriber Identity Module) is a smart card that contains your account information and other key information, including up Phone Book entries. Your phone has limited functionality without the SIM card.

If you don't have your phone, you can insert your SIM card into a friend's phone and make use of your personal wireless service.

Phone Overview

Special Keys

-  turns the phone's power on and off
-  displays messages
-  selects menu settings or options, or initiates and answers calls
-  stores numbers in the phone book
-  recalls numbers from the phone book
-  enters the Quick Access Menu when you are in Iridium satellite mode
-  enters the Options Menu and scrolls forward through menu features
-  clears characters from the screen and exits the Options Menu
-  scrolls through the menu features

Tip: Illustration Reference (inside cover)

Volume Keys

The Volume keys are on the side of the phone. They adjust earpiece and ringer volume. For information on adjusting your volume, see page 55.

SIM Card Eject

The SIM card eject button is on the side of your phone. See "Remove the SIM Card" on page 35.

Antenna

To answer calls, make calls, and access satellite services, make sure the antenna is rotated up and fully extended. You can receive calls without extending and rotating the antenna, but you must do so to answer the call. Remember, the antenna must have a clear a clear view of the sky.

If you are in cellular mode, you do not need to extend and rotate the satellite antenna, but make sure the antenna of your cellular cassette is extended.

Tip: Illustration
Reference
(inside cover)

Antenna Lock Release Button

This button is located on the top of the phone. When you push this button, it releases the antenna so you can use the 9570 Portable Dock or attach the auxiliary antenna.

Cellular Cassette Port

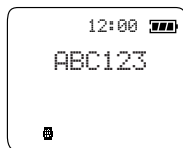
Insert an optional Cellular Cassette into this port located on the back of the phone (underneath the battery compartment cover). The Cellular Cassette allows you to use your satellite portable phone on the local cellular network.

Keypad Cover

Rotate the antenna and open the keypad cover to answer an incoming call. Close the keypad cover to end a call. When the keypad cover is closed, the exposed keys on the keypad are inactive.

The Display

Your phone's Liquid Crystal Display (LCD) displays as many as four rows of 16 characters. When your phone has been idle a few seconds, the display's backlight is turned off.



The Liquid Crystal Display on your phone may respond slowly to key presses in extremely cold temperatures. This is normal and does not affect the phone operation in any way.

Accessory Connector

This connector, located on the bottom of the phone, provides the connection for an external power supply.

The Indicators

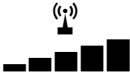
Current State of Service Light

With the keypad cover closed, this LED status indicator provides information on your phone's current state of service.

If the LED is. . .	Then...
Alternating red and green	A call is incoming.
Flashing green	You are receiving a signal from the Iridium satellite or cellular network. You can place and receive calls.
Flashing yellow	If you are in Iridium satellite mode, this indicates your phone was unsuccessful registering with the satellite network and cannot receive incoming calls. Try again in a few minutes. If you are in cellular mode this indicates that you are roaming.
Flashing yellow and red (Iridium satellite mode)	Your SIM card may be inserted incorrectly, may not be inserted, or you may be in a restricted area.
Flashing red	In Iridium satellite mode, this means no service is available. or In cellular mode, this means either no service is available, your SIM card may be inserted incorrectly or not inserted at all, or you may be in a restricted area.

Display Indicators

Your phone reports status with these indicators:

	Signal Strength Indicator indicates the strength of the signal from the network. The more segments displayed in the bar graph, the stronger the signal. You can check the strength of the signal at any time through the menu (Iridium satellite mode only).
	Battery Charge Indicator indicates the strength of the battery charge. The more segments displayed, the greater the battery charge. You can check the strength of the charge at any time through the menu (Iridium satellite mode).
	Real Time Clock Indicator displays the time in either 12-hour or 24-hour format. (Iridium satellite mode). For more information, see page 126.
	Message Indicator appears when you receive a new message. It flashes when the SIM card is full.
	Iridium Satellite Mode Indicator appears when your phone is in the Iridium satellite mode.
	Home System Indicator appears when you are in your home cellular system (when you have the appropriate Cellular Cassette inserted) or when the phone has successfully registered with the Iridium satellite system.

	Roam Indicator appears when you are roaming on a cellular system (when you have the appropriate Cellular Cassette inserted). This indicator does not appear when the phone is in Iridium satellite mode.
	No Service Indicator appears when your phone is not capable of placing or receiving calls.
	In Use Indicator appears when a call is in progress.
	Scroll Bar appears on the right of the display when you are in a menu. The button on the scroll bar indicates where you are in the list.
	Check Mark indicates a menu item is currently selected.
	Quick Access Menu Icons allow you to easily identify Quick Access features as you scroll through the Quick Access Menu (Iridium satellite mode only).

Package Contents and Options



9500 Portable Satellite Phone



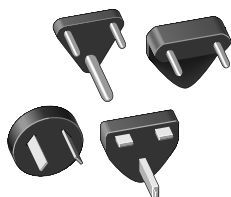
Standard Battery



High Capacity Battery



Ultra Capacity Battery



International Plug Kit



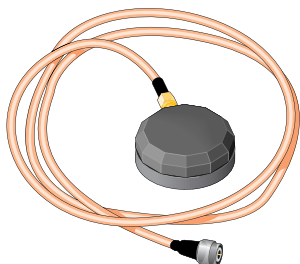
Travel Charger



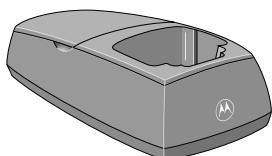
Cellular Cassette



Auto Accessory Adapter



Portable Auxiliary Antenna



Desktop Charger



Leather Holster



9570 Portable Dock*

*This accessory operates in Iridium Satellite mode only.



Getting Started

Getting started with your new satellite phone is easy. Just charge your new batteries and insert your phone's SIM (Subscriber Identity Module) card. This chapter tells you how.

What You'll Learn

- installing and charging your battery
- installing and using your SIM card
- installing your Cellular Cassette

Battery Information

For Maximum Battery Life

To ensure that you enjoy maximum battery life and use your battery to its fullest capacity:

- Always use *Motorola*-approved battery chargers.
- Always use *Motorola*-approved batteries (Standard, High Capacity, Ultra High Capacity battery)
- Maintain the battery at or near room temperature when charging.
- When you don't plan on using a particular battery for a while, store the battery uncharged in a cool, dark, and dry place such as your refrigerator.
- To prolong the life of your batteries, avoid exposing them to temperatures below -30°C (-22°F) or above 60°C (140°F).
- Always take your phone with you when you leave your car.
- Use either the Standard or High Capacity battery when the Cellular Cassette is installed; the Ultra High Capacity battery does not fit when the Cellular Cassette is installed.

Caution: To prevent injuries or burns, do not allow metal objects to contact or short circuit the battery terminals.

To Dispose Batteries

To dispose of batteries, check with your local recycling center for a battery recycler near you. Never dispose of batteries in fire.

Removing the Battery Covers

Your new batteries are shipped uncharged and fitted with protective covers.

Save the covers for storing and carrying unused batteries. The covers prevent metal objects from contacting both battery terminals, reducing the risk of injury or damage from a battery short circuit.

Remove the Battery Safety Cover

1. **Press in** the release latch.



2. **Continue pushing in and upwards** until the battery slips free from its cover.

Attach the Battery Safety Cover

1. **Lower the side**, opposite the latch into the cover.



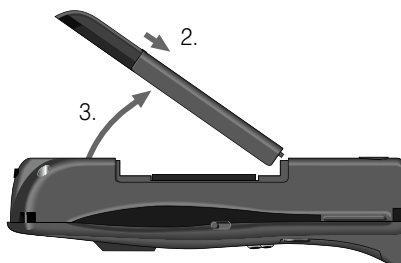
2. **Slip the side** with the release latch down until it clicks.

Installing the Battery

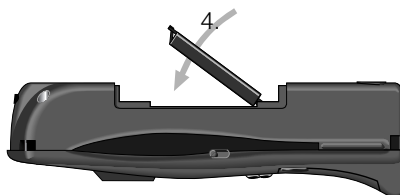
Tip: Insert only Motorola-approved batteries in your phone. If you insert an unapproved battery you will see *Invalid Batt.* You are able to discharge the battery, but you cannot recharge it.

Insert the Battery

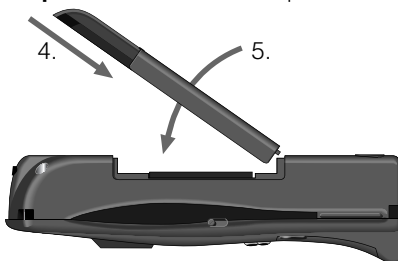
1. **Press and hold the release latch** at the top of the battery compartment cover.
2. **Pull the cover upward**, and then remove it from the phone.



3. **Insert the battery**, bottom-end first, into the compartment, and then press the battery downward until it clicks into place.

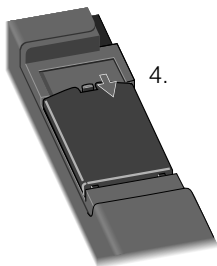


4. **Insert the bottom end** of the compartment cover into the slots at the end of the compartment.
5. **Snap the cover** down into place.

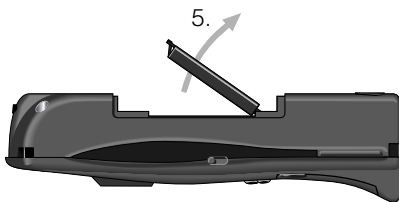


Remove the Battery

1. **Locate the battery compartment** on the back of the phone.
2. **Press and hold the release latch** at the top of the battery compartment cover.
3. **Pull the cover upward**, and then remove it from the phone. (See illustration in Step 2 on page 28.)
4. **Press and hold the release latch** at the top of the battery.



5. **Pull the battery upward**, out of the phone.



6. **Replace the battery compartment cover** by inserting the bottom end into the slots at the end of the compartment and then snapping the cover down into place. (See illustration in Step 5 on page 28.)
7. **Replace the safety cover.** Refer to “Attach the Battery Safety Cover” on page 27.

Checking the Battery

Any battery that hasn't been used for a month or more—including new batteries—should be charged for about 3–4 hours before use.

Low Battery Warning

When the battery level is low and only a few minutes of talk-time remains, your phone signals you in three ways:

- A warning tone (two double beeps) sounds.
- The border of the  indicator flashes.
- Low Battery appears on the display.

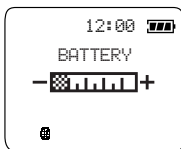
Tip: To help maintain the best battery and phone performance, recharge your battery as soon as possible after you receive the low battery warning.

Check Battery Power Status

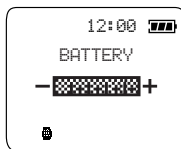
To check your phone's power status:

1. Press , and then press  to scroll to Call Related Features.
2. Press  to select.
3. Press  to scroll to Show Battery Meter, and then press  to select.

You will see the battery charge level:



Low Charge



Full Charge

The display shows a fuel gauge. The more segments filled, the greater your battery's charge.

One of the following messages may also appear:

Message	Description
Not Available	The battery meter doesn't appear because a battery is not installed; the phone is operating from external power.
Charging Battery	The battery is being charged: • If the phone is powered on, the  indicator flashes. • If phone is powered off, the  indicator does not appear.
Fast Charge Completed	The battery has completed charging. The  indicator stops flashing.

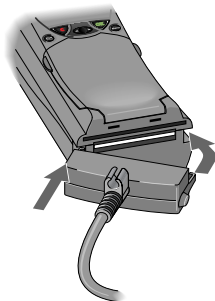
4. Press and hold  to exit.

Charging the Battery

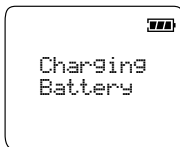
With the Internal Charger

A battery charger is built right into your phone. Using either the travel charger or auto accessory adapter, you can plug the handset directly into a power source to charge the attached battery.

1. **Connect the travel charger** or auto accessory adapter to the phone.



2. **Plug the travel charger** or auto accessory adapter into the appropriate power source. The phone beeps, flashes the  indicator, and displays Charging Battery:



3. If the phone is powered on, **press**  twice to place the phone in charge-only mode.

If the phone is powered off, it automatically enters charge-only mode.

Keep in Mind: You can still place and answer calls while using the internal charger. If you wish to place or answer a call:

Press  to exit charge-only mode and return to normal operation.

Remember that talking on the phone uses power, so charging takes more time.

With the Desktop Charger

You can use the front pocket of the desktop charger to charge a battery attached to a phone. You can also charge a spare battery in the rear pocket. The front pocket charges first, then the charger switches to the rear pocket.

To charge:

1. **Connect the travel charger** to the desktop charger.
2. **Plug the travel charger** into the appropriate power source.
3. **Insert your phone** with a battery attached.
4. **Insert a spare battery** in the rear pocket, if desired.



What Is a SIM Card?

Your SIM card (Subscriber Identity Module) contains your phone number, service details, and memory for storing Phone Book entries and messages. This means you can use your SIM card with any phone for the GSM system or any Motorola product for the Iridium satellite system, and all calls go on your account.

GSM SIM Card Capability

If you already have a GSM SIM card and your service provider has a roaming agreement with the Iridium satellite system, you can use it in your satellite telephone. You need an optional Cellular Cassette to access your local cellular/PCS service.

Keep in Mind: If you are using a GSM SIM card, you do not have access to certain features that are specific to the Iridium satellite system, and vice versa.

SIM Card Convenience

Keep your SIM card in your wallet or purse when you're not using it. This keeps your personal information secure and enables you access to your service even if you don't have your phone. If you forget your phone, insert your SIM card into a friend's phone to access your personal service.

Caution: Avoid bending, scratching, or exposing your card to static electricity or water.

Installing the SIM Card

Make sure your phone is powered off before inserting or removing the SIM card. If you don't, you may damage the memory on your SIM card.

Insert the SIM Card

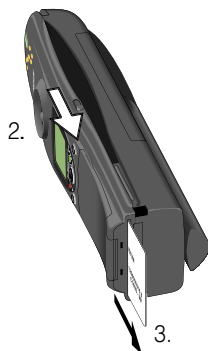
1. **Turn your phone off** by pressing and holding the  key.
2. **Insert the SIM card** into the slot at the base of the phone.



Tip: Make sure the side with the gold plate is facing up.

Remove the SIM Card

1. **Turn your phone off** by pressing and holding the  key.
2. **Slide the release button** toward the base of the phone.
3. **Pull the SIM card** out.



What is a Cellular Cassette?

A Cellular Cassette is a module that attaches to your satellite phone to allow it to work with land-based cellular systems.

Your phone automatically switches between Iridium satellite mode and cellular mode based on your preferences. For information on switching between modes, see “Selecting a Mode” on page 145.

Throughout this guide are features that are only available in cellular mode. These feature headings are shown in **gray text**. There are also features that are only available in Iridium satellite mode. Those features are marked with the  indicator.

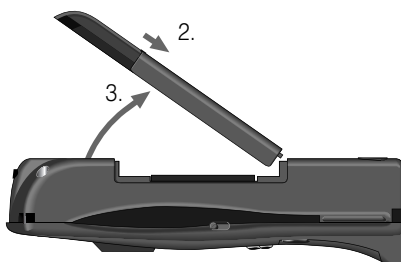
Installing the Cellular Cassette

Insert the Cellular Cassette

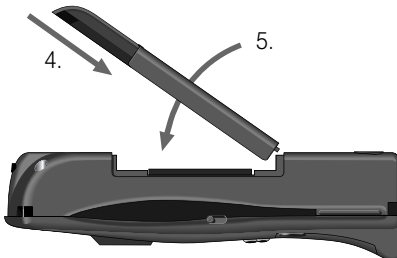
To install your Cellular Cassette, follow the steps below.

Keep in Mind: The Ultra High Capacity battery does not fit with the cellular cassette installed. You must use either the Standard Capacity or the High Capacity battery with the Cellular Cassette.

1. **Press and hold the release latch** at the top of the battery compartment cover.
2. **Pull the cover upward**, and then remove it from the phone.



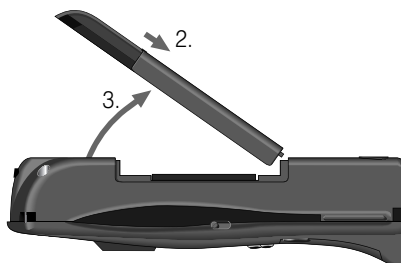
3. **Insert the cellular cassette**, bottom-end first, into the compartment on top of the battery.



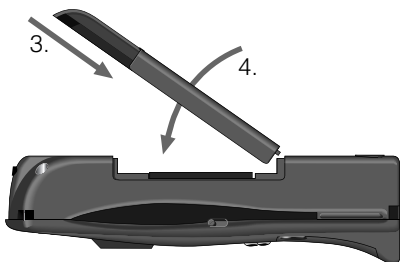
4. **Press the cassette downward** until it clicks into place.
5. **Save the battery compartment cover** for future use.

Remove the Cellular Cassette

- 1. Press and hold the release latch** at the top of the cellular cassette.
- 2. Pull the cassette upward**, and then remove it from the phone.



- 3.** Insert the bottom end of the compartment cover into the slots at the end of the compartment.
- 4.** Snap the cover down into place.



If your phone was powered on when you remove your cellular cassette, you will see *Cassette Removed* in your display for a few moments.

Using Your Phone

Read this section to learn how to get up and running with your new satellite phone.

What You'll Learn

- turning the phone's power on and off
- placing and receiving calls
- determining your own phone number

Keep in Mind: If you see a  next to a feature, the phone must be in Iridium satellite mode. See “Selecting a Mode” on page 145.

Feature Overview

The feature selection varies depending on the mode you are in. The table below shows the features available in each mode. See “Selecting a Mode” on page 145 for more information.

Feature	Iridium	GSM	Non-GSM
Power Up the Phone	•	•	•
Standby Mode	•	•	•
Dial a Number	•	•	•
Pending Call Drop	•		
Automatic Redial	•		
Redial Last Number Called	•	•	•
Dial Special Characters	•	•	•
Dial a Number from the Phone Book	•	•	•
Call a Number Embedded in a Message	•		
Make an International Call	•	•	•*
Dial Numbers with Pauses	•	•	•
Make an Emergency Call	•	•	•*
End a Call	•	•	•
Call Waiting	•		SP
Call Holding	•		SP
Call Muting	•		
Phone Flash			•
Receive a Call	•	•	•
Personal Mailbox	•	•	
Unanswered Call Message	•		
Adjust Earpiece and Ringer Volume	•	•	•
Set to Ring or Vibrate	•		
What's My Phone Number	•	•	•
* You must set this feature up first in the Phone Setup Menu. SP Your service provider may have similar or additional features.			

Powering Up the Phone

Turn the Power On and Off

To turn your phone's power on:

1. **Insert your SIM card.** (See "Insert the SIM Card" on page 35.)
2. **Open the keypad cover** to expose the keypad.
3. **Press and hold**  to turn the phone on and off.

When you turn your phone's power on, it performs a self test to let you know it's operational. You may see a number of other power-on messages (see below).

When the  indicator disappears and the  appears, you are ready to start calling.

Standby

To conserve energy, your phone may turn off its backlight when you haven't pressed a key for a few seconds. The light reappears the next time you press a key.

Power-On Messages

Once your phone is powered on, you may see:

Message	Description
Searching...	The phone is attempting to establish communications with the satellite or cellular network (depending on your mode). See "Accessing the Network" on page 137 for more information.
Rotate Antenna or Orient Antenna	You also hear a tone when you see this message. Extend the antenna upward and make sure you have a clear view of the sky to continue registering.

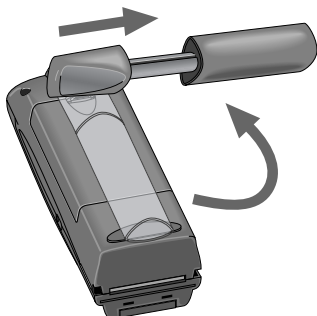
Message	Description
Registering	Your phone is registering with the network. When the process is complete, you will see Registered. See "Accessing the Network" on page 137.
Enter PIN	Enter the four- to eight- digit SIM card PIN provided by your service provider and press  to proceed. See "Protecting the SIM Card" on page 122 for more information.
Enter Phone Unlock Code	Your phone was locked after the last use. Enter your four-digit unlock code and press  to proceed.
Insert Card	Make sure your SIM card is inserted completely.
Insert Cassette	This message indicates that you are either in Cellular Always mode or a Preferred mode and the phone cannot find a Cellular Cassette. Either insert a cassette or switch to Satellite Always mode. See "Selecting a Mode" on page 145.
Check Card	This message indicates that the SIM card is damaged or inserted the wrong way.
Check Cassette	This message indicates that the Cellular Cassette is damaged or inserted the wrong way.
Blocked	If the SIM card PIN code or PIN2 code is incorrectly entered three times in a row, your phone becomes blocked. See page 123 to unblock it.
Bad Card See Supplier	Your SIM card has been damaged or incorrectly issued. Contact your service provider for information.
Bad Cassette See Supplier	Your Cellular Cassette has been damaged. Contact your service provider for information.

Placing Calls

To place a call, your phone must be powered on and in contact with the satellite or cellular network (depending on your mode). See “Accessing the Network” on page 137 for network information.

Dial a Number

1. **Rotate and fully extend** the antenna of the portable phone. Make sure the antenna has a clear view of the sky (Iridium satellite mode only).



2. **Open the keypad cover** to expose the keypad.
3. **Enter the number** using the digit keys. As soon as you begin entering digits, you will see *Call?*.

When you are in Iridium satellite mode, to dial a number, you must enter the phone number in international format: [international access code or +] [country code] [phone number]

4. **Press** . You will see *Calling* +18475551234.

You will see either the flashing message *Calling* or the flashing messages *Calling*, followed by *Registering*, and the phone plays a setup tone.

Tip: If you make a mistake, press  once to delete the last digit, or press and hold  to clear all digits.

Tip: The international access code from the Iridium satellite network is 00 or +.

When you are in Iridium satellite mode, if the call connects and is answered, *Connected* shows on the display for a few seconds, followed by *End Call?*. If the call does not connect, you may see one of the following messages:

Message	Description
Rotate Antenna Orient Antenna	Make sure the antenna is fully extended and rotated upward and has a clear view of the sky.
Call Failed System Busy Restricted Area Weak Signal	These messages indicate that the phone is unable to access the network. Try again in a few minutes.
Redial?	See "Automatic Redial" page 45.

International Calling Format

To make an international phone call:

1. Press and hold .

After a few seconds the international dialing prefix + appears in the display. This allows you to call from any country without knowing the local international access code.

2. Enter the country code followed by the phone number. The country code follows the conventional format.

Keep in Mind: If you are in a non-GSM cellular mode, you must set up the international prefix mapping in order for this feature to work. See "Set Up International Prefix Mapping" on page 132.

Automatic Redial

If the number or your network is busy, you will see **Redial?** for five seconds.

Press  to redial the number automatically.

Keep in Mind: The maximum number of redial attempts is set by your service provider. If the call can't be connected within this maximum, you will see the message **Redial Failed**.

Redial Last Number Called

Whenever your phone is in standby mode, you can redial the last number you called:

1. **Press**  to display the last number dialed.
2. **Press**  again to place the call.

Dial Special Characters

You can insert special characters in your numbers:

To enter...	Then...
	Press  .
*	Press  .
+ (for international calls)	Press and hold  .
⏏ (for pause dialing)	Press and hold  .
supplementary service numbers, PINs, and unblocking	Press   .

Dial a Number With Pauses

Refer to “Using Pauses in Numbers” on page 74 for information on inserting pauses into numbers.

Dial a Number from the Phone Book

Your phone contains a phone book that you can use to store names and telephone numbers. Once you have stored information in your phone book you can save dialing steps, by using:

- one-touch dialing (Iridium satellite mode only)
- an entry from a location
- an entry of a name
- one of the last ten numbers called

Refer to “Managing the Phone Book” on page 65.

Call a Number Embedded in a Message

Details on how to call a number embedded in a message are in “Using Message Services” on page 105.

Make an Emergency Call

You can make an emergency call anywhere in the world (without unlocking your phone) by dialing 112. Provided your phone has found a network, you are able to make an emergency call. The emergency call is directed to a central emergency operator.

Keep in Mind: If you are in a non-GSM cellular mode, you must set up your local emergency number for this feature to work. You can also dial your local emergency number directly. See “Set Up Emergency Number Mapping” on page 132.

To make an emergency call:

Dial   .

You will see: Emergency Calling

In addition, your Iridium service provider may have provided an additional emergency calling code on your SIM card. Check with your service provider.

Receiving Calls

Receive a Phone Call

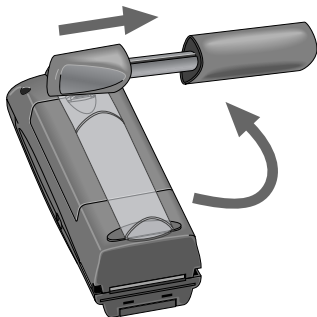
To receive a call, your phone must be powered on, have a SIM card inserted, be unlocked, and be in contact with the satellite or cellular network (depending on your mode). See “Accessing the Network” on page 137 for network information.

When you receive a call:

- Your phone rings and/or vibrates.
- If the keypad cover is closed, the status indicator alternates red and green.
- The phone displays **Call**, followed by **Answer?** on the next line.

To answer the call

1. **Rotate and fully extend** the antenna of the portable phone (Iridium satellite mode only).



2. Press **OK** or **any digit key** (**1**, **9**, *****, or **#**) if the keypad cover is already open.

or

Open the cover to expose the keypad.

You will see **Connected**.

Tip: See “Adjusting Your Phone’s Tones” on page 118 to set your phone’s alert.

If the call does not connect properly, you may see one of the following messages:

Message	Description
Rotate Antenna	Make sure the antenna is fully extended and rotated upward.
Orient Antenna	You need to get a better view of the sky.
Call Failed	This message indicates that the antenna is not properly adjusted or the network signal is not strong enough.

Personal Mailbox

Callers who are unable to reach you can leave numeric, text, and voice messages. The next time you register with the Iridium satellite or GSM cellular network (depending on your mode), you'll receive these messages. Then you'll have the option of returning the call or saving the message for later viewing.

For information on retrieving messages, see "Accessing Messages" on page 112.

Unanswered Calls

If you're away from your phone or choose not to answer a call, your phone displays the message **Unanswered Call**.

Ending a Call

To end a call perform one of the following tasks:

- **Press** .
- **Close** the keypad cover.
- **Press** .

Keep in Mind: If you rotate the satellite antenna down in Iridium mode your call is dropped.

Using Call Waiting

Tip: Some network features may not be available until First Quarter 1999. Check with your service provider.

You must subscribe to this network feature through your service provider(s).

Iridium Satellite Mode

If you have subscribed to Call Waiting, you must first activate it through the Option menu (see page 100). After you activate Call Waiting, you are notified of incoming calls while you are on the line in two ways. When a call comes in, you hear a beep and see the message *Call Waiting* followed by *Answer?*.

If you want to...	Then...
accept the waiting call	Press  . Your current call is placed on hold.
reject the waiting call	Press  .
end current call before answering the waiting call	1. Press  . You will see <i>End Active Call?</i> 2. Press  . Your phone rings and can now be answered normally.

Non-GSM Cellular Mode

Non-GSM cellular users who have subscribed to this feature, are notified of an incoming call by two beeps. You may see a visual message, depending on your service provider.

To handle the call waiting, you must send a phone flash along with the appropriate feature code provided by your service provider. The current call is put on hold. To return to your initial, call you must send another phone flash. See "Sending a Phone Flash" on page 54 for details.

Placing a Call on Hold

You must subscribe to this network feature through your service provider(s).

Iridium Satellite Mode

You can place a call on hold to receive a new call or while making a new call. You can only place one call on hold at a time, so some options may not be accessible if you have already placed a call on hold. To place a call on hold:

1. **Press**  until you will see **Call Hold**.
2. **Press** . Your current call is put on hold and you will see **Call Holding** followed by **Reconnect?**.

Once you a call is on hold, you have these options:

If you want to...	Then...
Make a new call	1. Press  until you will see Make New Call, and then press  to select. 2. Dial the number as usual, and then press  to place the call.
Switch Between Calls	When you are connected to either number, you will see 2 Calls followed by Switch? . Press  to switch to the other call and automatically place the current call on hold.
End Current Call	Press  at any time.
End Call that is on Hold	Press  until you will see End Held Call , and then press  to select. The held call is disconnected, the current call continues to be connected, and you see End Call? .
End Both Calls	Close the flip cover. or Press  until you will see End Current & Held Call , and then press  to select. Both calls are disconnected, and the display returns to standby mode.

You may see one of the following messages during call holding activities:

Message	Description
Trying	Your phone is attempting to switch between the current and held call.
Hold Failed	The attempt to hold a call was unsuccessful.
Cannot Hold Second Call	A call is already on hold. You can only place one call on hold.
Reconnect Failed	The held call could not be made active again.
Busy Try Later	Your phone is working on a previous command. Wait a short time before repeating the new command.

Non-GSM Cellular Mode

To place a call on hold, you must send a phone flash along with the appropriate feature code provided by your service provider. To return to your initial, call you must send another phone flash. See “Sending a Phone Flash” on page 54 for details.

Muting a Call

For privacy while on a call, try muting the phone. You hear the party on the other end, but the other party does not hear you.

1. Press  until you see Mute Phone?.
2. Press  to select. You will see Mute.
3. Press  again to resume your conversation.

Quick Access

This feature can be added to the Quick Access menu.

Sending a Phone Flash

Tip: This feature is only available in a non-GSM cellular mode.

Many non-GSM network features (for example call waiting) require you to send a “flash” over the air during a call to access them. This flash alerts the network that you want to use a particular network feature. Your service provider provides the appropriate codes to send with the flash for the features to which you have subscribed.

To send a phone flash:

1. **Press**  while you are in a call. You will see `Flash Options` followed by `Select?`
 2. **Press** . You will see `Send Flash?`
 3. **Enter the access code** for the feature you want to access, if necessary, and then **press**  to send the flash.
- or**
- Press**  to cancel the flash.

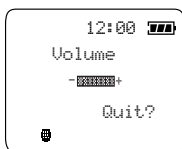
Basic Phone Setup

Adjust Earpiece Volume

To adjust earpiece volume:

- **Increase the volume** by pressing the upper volume key.
- **Decrease the volume** by pressing the lower volume key.

As you press the keys, the phone's speaker demonstrates the new volume level. The bar graph in the display represents the volume level. The higher the graph, the louder the volume.



Tip: The volume keys are located on the side of the phone.

Adjust Ringer Volume

Use this feature to adjust the volume of the ringer. The phone sounds the new volume level as you adjust it.

Keep in Mind: The adjustments you make here apply in cellular mode as well.

1. Press  until you see Phone Setup, and then press .
2. Press  until you see Adjust Ring Volume, and then press  to select.
3. **Increase the volume** by pressing the upper volume key.

or
Decrease the volume by pressing the lower volume key.
4. Press and hold  to exit the menu.

Tip: In either mode, you can press  and then the up or down volume key to adjust ringer volume.

 **Quick Access**
Press  .

Tip: If you select Vibrate then Ring, your phone vibrates for two cycles, and then rings.

Tip: Pressing   also brings up your phone's number.

Set the Phone to Ring or Vibrate

In situations where ringing may not be appropriate, or in noisy places where you might not hear the ringer, use the silent alert to be notified of incoming calls by silent vibrations.

1. Press  until you see Phone Setup, and then press .
3. Press  until you get to Ring or Vibrate, and then press  to select.
4. Press  to scroll to Ring Only, Vibrate Only, Vibrate then Ring, or No Ring or Vibrate, and then press  to select the displayed option. You will see Completed.
5. Press and hold  to exit the menu.

What's My SIM Phone Number?

You can retrieve and display your phone's number from your SIM card.

1. Press  until you see Phone Book, and then press  to select.
2. Press  until you see My Phone Number(s), and then press  to select. You will see your phone number.
3. Press and hold  to exit the menu.

Keep in Mind: If you do not see your number(s), they have not been programmed onto your SIM card. Contact your service provider for more information.

Keep in Mind:

Set Other Phone Setup Features

After you've mastered the basics, you'll probably want to personalize your phone. Turn to "Customizing Phone Features" on page 115 to choose distinct ringer tones, protect your phone with a variety of security and PIN codes, set the time, date, language, and more.

Using the Menus

Many of your phone's features are organized into lists of options called *menus*. There are three menu systems: the Options Menu, the Quick Access Menu, and the In-Call Menu. Some of these options give you access to additional lists of options called *submenus*.

Learn how to navigate through your phone's three main menu systems. Once you become familiar with these menus and their features go to page 161 to personalize your menus.

What You'll Learn

- using the Options Menu
- using the Quick Access Menu
- using the In-Call Menu

Keep in Mind: If you see the  symbol next to a feature, your phone must be in Iridium satellite mode to access it. To switch to Iridium satellite mode, see "Selecting a Mode" on page 145.

Using the Options Menus

Use the Options Menu to gain access to the complete set of features or options included with your phone. The submenus that appear under the Options Menu vary depending on the mode you are in. See “Selecting a Mode” on page 145 for more information.

Menu	Iridium	GSM	Non-GSM
Phone Book	•	•	•
Call Related Features	•	•	•
Messages ¹	•	•	
Phone Setup	•		•
Network Selection	•	•	•
Mode Selection	•	•	•
Call Meters	•		

Navigate the Options Menus

Learning just a few buttons enables you to move freely through the entire menu system.

Enter the Options Menu

To enter the Options Menu:

Press  to access the Options Menu. You will see the first available submenu.

Scroll Through the Options Menu

To scroll to the other submenus:

Press  to scroll forward.

or

Press  to scroll backward or forward.

Select Options and Submenus

Press  to select a menu option or submenu when that option or submenu name is displayed.

Exit Features and Menus

Press  to exit the feature or submenu.

or

Press and hold  to exit the Options Menu.

Keep in Mind: You cannot enter the Options Menu when you are making or answering a call. If you press  during a call, you will see the In-Call Menu which is described on page 63.

How the Phone Responds

As you scroll through the Options Menu, you will see one of three questions on the bottom line of the display.

If your phone asks:

If your phone asks...	Then...
View Options?	Press  to enter the submenu.
Select?	Press  to select the displayed feature.
Quit?	Press  to exit the feature.

Display Icons Chart

If you see...	Then...
 Completed	This indicates a feature has been activated.
 Failed	The display returns to the menu in a few seconds.
Enter PIN or Enter Name	Enter requested information. Then press  .
 Busy Try Later	You may have requested information while your phone was completing another task.
	This indicates where you are in a menu.
	Your phone may take a few seconds to request settings from the network.

Customize the Options Menu

To personalize the Options Menu—to hide and move features—see page 162.

Using the Quick Access Menu

The Quick Access Menu is a way to keep your favorite menu options readily accessible. Each digit key,  to , has a Quick Access feature assigned to it. See the chart on the following page for the default setup. If you know the number of the feature, activating that option takes only two button pushes! If you don't know the number or want to review your options, just scroll through the icon menu and read the tag attached to each option.

Activate the Feature Directly

To access the feature directly:

Press , and then **press** the digit key of the feature.

Scroll to the Feature

To scroll to the feature:

1. **Press** .
2. **Press**  to scroll through the available features.
3. **Press**  to select a feature.

Customize the Quick Access Menu

See page 164 to learn how to customize the menu.

 **Quick Access**
Look for "Quick Access" in the margins of this guide.

Default Quick Access Settings

The list of icons explained below are the default settings and icons for the Quick Access Menu.

1		Find Name searches your Phone Book by the first three letters in a name.
2 abc		Check Signal checks the strength of the signal from the satellite network.
3 def		Call Voicemail calls your Voicemail number to check your Voicemail.
4 ghi		Battery Meter —displays a fuel gauge indicating charge. The more bars, the greater the charge
5 jkl		Lock Now locks your phone immediately.
6 mno		Vibrate On/Off activates or deactivates VibraCall™ depending on the current setting.
7 pqrs		Read Messages —displays the newest message received
8 tuv		Register Now initiates a systematic manual search for a network on which to register.
9 wxyz		Forward On/Off activates or deactivates unconditional call <i>forwarding</i> depending on the current setting.

Using The In-Call Menu

This menu lets you access specific features while you are in a call. Because this menu is not available until you are actually in a call you cannot review it off-line.

Entering the In-Call Menu

While you are in a call:

Press  to view the In-Call Menu features.

In-Call Menu Features

The In-Call menu dynamically changes depending on the type of call you are in and the mode you have selected.

Iridium Satellite Mode

Single Active Call	Hold Call? Make New Call? Turn Mute On or Off?
Held Call	Make New Call? End Active Call?
Active Call and a Call Waiting	End Active Call? Reject Call Waiting? Turn Mute On or Off?
Active Call and a Held Call	End Active Call? Turn Mute On or Off? End Held Call? End Active & Held Call?
Held Call and a Call Waiting	Reconnect Held Call? Reject Call Waiting? End Held Call?

Non-GSM Cellular Mode

When you press  , while in a non-GSM cellular mode call, you will see Flash Options followed by Select?



Managing the Phone Book

Your satellite phone can store up to 100 names and numbers, and your SIM card expands memory capacity even more.

Use the dedicated keys or the Options Menu to access the same functions. With the Options Menu you can also access Phone Book maintenance and security features.

What You'll Learn

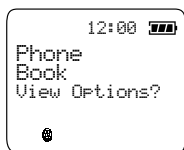
- recalling and storing phone numbers
- organizing the Phone Book
- accessing automated calling systems
- storing phone number prefixes
- restricting calls with Fixed Dialing
- editing the memory information
- viewing your own phone number

Keep in Mind: If you see the  symbol next to a feature, your phone must be in Iridium satellite mode to access it.

Entering the Menu

To enter the Phone Book menu:

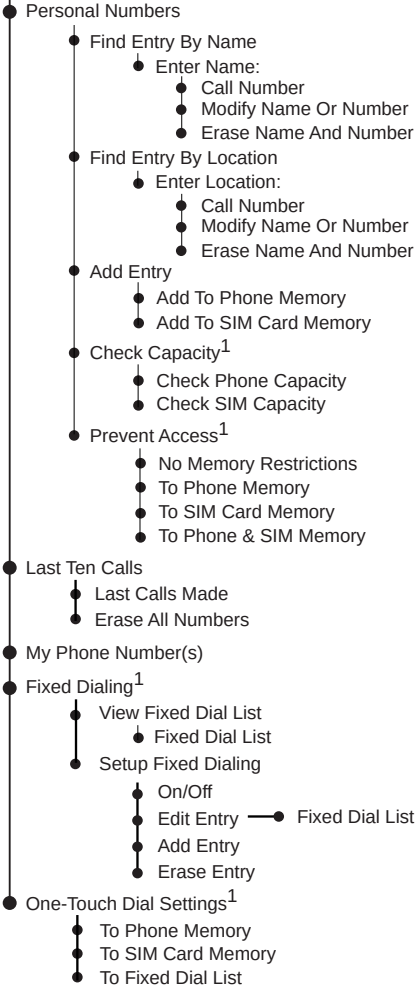
1. **Press**  to scroll forward.
or
Press  to scroll backward or forward.
2. **Press**  when you see:



3. **Press**  to scroll through the submenu.
or
Press  to scroll backward or forward through the submenu.

What's on the Menu?

Phone Book



¹ This feature is accessed from Iridium Satellite Mode.

Feature Overview

The feature selection in the Phone Book menu varies depending on the mode you are in. The table below shows the features available in each mode. See “Selecting a Mode” on page 145 for more information.

Feature	Iridium	GSM	Non-GSM
Add a Phone Book Entry	•	•	•
Enter Names	•	•	•
Pause Dialing	•	•	•
Phone Number Prefixes	•		
Find an Entry by Name	•	•	•
Find an Entry by Location	•	•	•
Call, Modify or Erase an Entry	•	•	•
Check Phone Book Capacity	•		
Prevent Access to Phone Book	•		
Fixed Dialing	•		
View Last Ten Numbers Dialed	•	•	•
View Your Own Phone Number	•	•	•
Modify Your Phone Number(s)	•		
One-Touch Dialing	•		

Organizing Your Phone Book

Each name and phone number in your phone book is stored in a numbered memory location. The satellite phone has two types of memory—phone memory and SIM card memory.

	Phone Memory	SIM Card Memory ¹
Personal Numbers	100 entries	155 entries
Fixed Dial Numbers	No entries	40 entries
Phone Number Digits	32	20
Name Characters	16	16
Location Numbers	1 - 100	101 - 255

¹ SIM card capacity varies depending upon the card issued by your service provider.

Your phone's memory can seem overwhelming if you don't have a strategy for organizing your Phone Book. Begin setting up your Phone Book by asking yourself three questions:

Which numbers do I call most?

Make a list of the numbers you call most frequently. You'll probably want to store these numbers in the first nine memory locations of your Phone Book. You can then dial them with a single keystroke by using One-Touch dialing (Iridium satellite mode only).

When do I use these numbers?

Group the numbers on the list according to when you use them. Most people call a different set of numbers during the day than they do in the evening and on weekends. You can switch One-Touch dialing to your phone's memory (locations 1–9), your SIM card's memory (locations 101–109), or to your Fixed Dial List (locations 1–9). Store your evening and weekend numbers on one type of memory and your daytime numbers on another.

Which numbers do I need to keep secure?

Use your SIM card to store the numbers you need to keep secure, like the numbers of friends and family members. Because your SIM card is the size of a credit card, you can easily keep it securely in your wallet when you aren't using it. If you wish, you can even require a PIN code every time your SIM card is inserted into *any* phone. (To deactivate your PIN code, see page 122.) Store your more public numbers in your phone's memory, like business associates and travel agents.

Tip: If you have many entries, group them in blocks of ten to make them easier to find.

1-2-3: Getting to Personal Numbers...

1. Press  until you see Phone Book, and then press .
2. Press  to scroll to Personal Numbers, and then press .
3. Press  to scroll to one of the features described below.

Storing Names and Numbers

Quick Access

This feature can be added to the Quick Access Menu.

Tip: When in Iridium satellite mode, numbers must be entered in international format.

Add an Entry

Use the Options Menu

1. Follow the steps in the “Getting to...” box to get to Add Entry, and then press .
2. Press  to scroll to Add to Phone Memory or Add to SIM Memory.
3. Press  to select. You see Enter Number.
4. Enter a number, and then press . You will see Enter Name.
5. Enter a name (see “Entering Names” on page 72), and then press . You will see Enter Location.
6. Enter a location number, 1-100 for phone memory or 101-255 for SIM memory, and then press . You will see Stored XXX.

or
Press  to select the next available location. You will see Stored XXX.
7. Press and hold  to exit the menu.

Use the Dedicated Keys

1. **Enter the phone number** you want to store.
2. **Press**  to begin storing.
3. **Press**  to scroll to the desired memory type Add to SIM Card Memory or Add to Phone Memory, and then **press** . You will see Enter Number, followed by the number you entered.
4. **Press**  to accept the number. You will see Enter Name.
5. **Enter a name** (see “Entering Names” on page 72), and then **press** . You will see Enter Location.
6. **Enter a three-digit location number**, and then **press** . You will see Stored XXX.

or

Press  to store the entry in the next empty memory location. You will see Stored XXX.

Adding Entry Messages

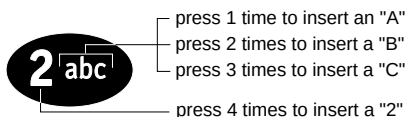
When you enter the location number for your entry, you may see one of these messages:

Message	Description
Stored XXX	You have stored the entry.
Range XXX-XX	You have chosen a memory location outside the appropriate range. Enter a new number within the range you see on the display.
Overwrite?	You have chosen an occupied location. Press  to overwrite the location or press any other key to try another location.

Tip: If you have more than one number for the same person, try attaching a descriptive tag to the name, like Home, Office, or Mobile.

Entering Names

You can use the keypad to produce any letter in the alphabet. For example, press  to enter the letters "A," "B," or "C," as shown:



Tip: Press and hold any numeric key to insert a lower case letter.

Enter Characters

1. **Enter a letter** by pressing a key as many times as necessary.
2. **Press**  to advance the cursor.
3. **Repeat steps 1 and 2** as many times as necessary, and then **press** .

Correct an Entry

To make a change:

1. **Press**  to scroll to the character you want to delete.
 2. **Press**  to delete one character at a time.
- or
- Press and hold**  to clear the display.

Available Characters

Use this chart as a guide for producing characters:

1	Space . 1 ? ! , @ _ & : " () ' ¸ i % £ \$ Space . 1 ? ! , @ _ & : " () ' ¸ i % £ \$
2 abc	A B C 2 Ä Å à AE ß Ç a b c 2 ä å à ae ß ç
3 def	D E F 3 Δ É È Φ d e f 3 Δ é è Φ
4 ghi	G H I 4 Γ ì g h i 4 Γ ì
5 jkl	J K L 5 Λ j k l 5 Λ
6 mno	M N O 6 Ñ Ö Ø Ò Ω m n o 6 ñ ö ø ò Ω
7 pqrs	P Q R S 7 Π Β Σ p q r s 7 Π Β Σ
8 tuv	T U V 8 Θ Ù Û t u v 8 θ ù ù
9 wxyz	W X Y Z 9 Ξ Ψ w x y z 9 Ξ Ψ
0 +	+ - 0 x * / = > < # + - 0 x * / = > < #

The upper line for each key shows the upper case characters. The lower line for each key shows the lower case characters.

Using Pauses in Numbers

Tip: You can store as many as 16 characters. A pause is equal to one character.

When you call automated systems, a recorded message prompts you for numbers such as PIN numbers and account numbers. You can store these numbers in the same memory location as the automated system's access number. Separate the numbers with "pauses"—special characters that tell your phone to wait three to six seconds before sending additional numbers—and store the string in the same way you would other numbers.

Enter Pauses in Numbers

1. **Enter the phone number** you use to access the automated system.
2. **Press and hold** . You will see a pause character (⏸) inserted into the number entry.
3. **Enter the next group of numbers.** For example, enter your PIN number. If the automated system requires a * or #, enter those symbols, too.
4. **Repeat steps 2 to 3** as many times as necessary.
5. To store the entry follow the procedures in "Add an Entry" on page 70.

Dial Numbers With Pauses

1. **Recall the entry.** (See "Recalling Entries" on page 76.)
2. **Press**  to place the call.

The first pause in the number waits until the call is answered. When the automated system answers, your phone waits three to six seconds and then automatically sends the next set of numbers, then the next, until all numbers are sent.

If you are in non-GSM cellular mode, the phone waits for you to send the next set of numbers. You will see *Send Digits?* Press  to send the digits. Repeat this until all the digit sequences are sent.

Using Phone Number Prefixes

You can save time when you dial by storing the prefixes that you often use. This is sometimes called “postscribing.” Your satellite phone allows you to change or add to Phone Book entries without overwriting them.

Store a prefix in your Phone Book just as you would any other number. See “Storing Names and Numbers” on page 70.

Use a Stored Prefix

To use a stored prefix:

1. **Recall the prefix** from your Phone Book.
(See “Recalling Entries” on page 76.)
2. **Add** the finishing numbers.
3. **Press**  to place the call.

Change a Similar Entry

To change an entry to a similar number:

1. **Recall the number** from your Phone Book.
(See “Recalling Entries” on page 76.)
2. **Delete** the unwanted digits using .
3. **Enter** the replacement digits.
4. **Press**  to place the call.

Tip: Try naming the prefix by area, like Downtown, Suburbs, or Germany.

1-2-3: Getting to Personal Numbers...

1. Press  until you see Phone Book, and then press .
2. Press  to scroll to Personal Numbers, and then press .
3. Press  to scroll to one of the features described below.

Recalling Entries

Quick Access

Press   and then continue with step 2.

Tip: Your phone sorts SIM card and phone memory together alphabetically.

Find an Entry by Name

Search your Phone Book by the first few letters of the entry.

Keep in Mind: If you restrict access to either SIM card or phone memory and you are in Iridium satellite mode, those entries won't be available. For more information, see page 80.

1. Follow the steps in the “Getting to...” box to get to Find Entry By Name. You will see Find Name?
2. Press  to select. You will see Enter Name.
3. Enter 1 to 3 characters (or as many as needed) of the entry, and then press . If necessary, scroll to the entry you are looking for.
4. Press  to access options for that entry, and then proceed to “1-2-3: Getting to Personal Numbers...” on page 78.

Find an Entry by Location

If you know the location number of the entry, here is an easy way to recall it.

Use the Options Menu

1. **Follow the steps in the “Getting to...” box** to get to Find Entry By Location, and then **press**  to select. You will see Enter Location.

2. **Enter the location number**, and then **press** . You will see the entry displayed.

If you enter an empty location number, you'll see Location XXX is Empty. Your phone then selects the next largest available location. If there are no numbers stored, you will see No Numbers Stored.

3. **Press**  to access options for that entry, and then proceed to “1-2-3: Getting to Personal Numbers...” on page 78.

Use the Dedicated Keys

1. **Press** .
2. **Enter the three-digit location number** of the entry, and then **press** .

If you enter an empty location number, you will see Location XXX is Empty. Your phone then selects the next largest available location. If there are no numbers stored, you will see No Numbers Stored.

3. **Press**  to call the displayed entry. You will see +18475551234 Calling.

Quick Access

This feature can be added to the Quick Access menu. See page 164.

1-2-3: Getting to Personal Numbers...

1. Press  until you see Phone Book, and then press .
2. Press  to scroll to Personal Numbers, and then press .
3. Press  to scroll to one of the features described below.

Calling, Modifying, or Erasing an Entry

Once you have selected a Phone Book entry, you can call, change, or erase that entry.

Call a Selected Entry

1. Find an entry, and then press . See “Recalling Entries” on page 76.
2. Press  until you see Call Number, and then press . You will see Calling
+18475551234

Modify a Name or Number

1. Find an entry, and then press . See “Recalling Entries” on page 76.
2. Press  until you see Modify Name or Number, and then press . You will see Edit Number, followed by the phone number stored in that entry.
3. Enter changes to the number, and then press . You will see the name stored in that entry.
4. Enter changes to the name, and then press . You will see Modified XXX.

Erase a Name and Number

1. Find an entry, and then press . See “Recalling Entries” on page 76.
2. Press  until you see Erase Name and Number, and then press . You will see Erased xxx.

Tip: For help entering letters or changing entries, see “Entering Names” on page 72.

Checking Phone Book Capacity

Use this feature to see how many available memory locations you have in either SIM card or phone memory.

1. **Follow the steps in the “Getting to...” box** to get to Check Capacity, and then press  to select.
2. **Press**  until you see Check Phone Capacity or Check SIM Capacity, and then **press** . You will see XXX Unused Locations.
3. **Press and hold**  to exit the menu.

1-2-3: Getting to Personal Numbers...

1. Press  until you see Phone Book, and then press .
2. Press  to scroll to Personal Numbers, and then press .
3. Press  to scroll to one of the features described below.



Preventing Access to the Phone Book

You may want to restrict memory access when loaning your phone to others. You can choose to prevent access to the phone memory, SIM memory, or both.

Keep in Mind: If you switch to cellular mode these restrictions not apply.

1. Follow the steps in the “Getting to...” box to get to Prevent Access, and then press  to select.
2. Press  until you see the restriction type you desire: No Memory Restrictions, To SIM Card Memory, To Phone Memory, or To Phone & SIM Memory.
3. Press  to select the displayed option. You see Enter Security Code.
4. Enter security code. Enter your six-digit security code. You see Completed.
5. Press and hold  to exit the menu.

Keep in Mind: If you prevent access to both your phone memory and SIM memory and then try to access an entry, you see Restricted.

If you restrict access to either your phone memory or SIM memory and try to access an entry stored in that type of memory, you see a list of the entries that are not restricted.

Tip: The factory default security code is: 000000.

1-2-3: Getting to Fixed Dialing...

1. Press  until you see Phone Book, and then press .
2. Press  until you see Fixed Dialing, and then press .
3. Press  to scroll to one of the features described below.

Restricting Phone Use

With the Fixed Dialing feature, you can restrict calling on your phone to a list of numbers that you create. When this feature is active, you can only call numbers or use prefixes (for example, country codes or area codes) that exactly match those that are stored in your list. You can store up to 40 entries on your fixed dial list. These entries are stored on your SIM card.

Keep in Mind: You **must** turn Fixed Dialing off in order to make and receive calls in cellular mode.

Activate Fixed Dialing

Use this option to set up or your Fixed Dial list.

1. **Follow the steps in the “Getting to...” box** to get to Setup Fixed Dialing, and then press  to select. You see Enter PIN2.
2. **Enter code.** Enter your SIM PIN2 code, and then press .
3. Press  until you see On or Off, and then press . You see Completed.
4. **Press and hold**  to exit the menu.

Tip: You should have received your PIN2 code from your service provider.

1-2-3: Getting to Fixed Dialing...

1. Press  until you see Phone Book, and then press .
2. Press  until you see Fixed Dialing, and then press .
3. Press  to scroll to one of the features described below.

Tip: When in Iridium satellite mode, numbers must be in international format.

Tip: See “Entering Names” on page 72 for help entering letters.

Add an Entry

1. Follow the steps in the “Getting to...” box to get to Setup Fixed Dialing, and then press  to select. You see Enter PIN2.
2. **Enter code.** Enter your SIM PIN2 code, and then press .
3. Press  until you see Add Entry, and then press . You see Enter Number.
4. **Enter the number,** and then press . You see Enter Name.
5. **Enter the name,** and then press . You see Enter Location.
6. **Enter a location number,** and then press . You see Completed.
7. **Press and hold**  to exit the menu.

Erase an Entry

1. **Follow the steps in the “Getting to...” box** to get to **Setup Fixed Dialing**, and then **press**  to select. You see **Enter PIN2**.
2. **Enter code.** Enter your SIM PIN2 code, and then **press** .
3. **Press**  until you see **Erase Entry**, and then **press**  to select. You see the first entry in your Fixed Dial list.
4. **Press**  to scroll to the number you wish to erase, and then **press** . You see **Erase xxx?**.
5. **Press**  to confirm. You see **Completed**.
6. **Press and hold**  to exit the menu.

Edit an Entry

1. **Follow the steps in the “Getting to...” box** to get to **Setup Fixed Dialing**, and then **press**  to select. You see **Enter PIN2**.
2. **Enter code.** Enter your SIM PIN2 code, and then **press** .
3. **Press**  until you see **Edit Entry**, and then **press**  to select. You see the first entry in your Fixed Dial list.
4. **Press**  to scroll to the entry you want to change, and then **press** . You see the current number for that location.
5. **Enter changes** to the number, and then **press** . You see the current name for that location.
6. **Enter changes** to the name, and then **press** . You see the current location.
7. **Enter a new location**, and then **press** . You see **Completed**.
8. **Press and hold**  to exit the menu.

1-2-3: Getting to Fixed Dialing...

1. Press  until you see Phone Book, and then press .
2. Press  until you see Fixed Dialing, and then press .
3. Press  to scroll to one of the features described below.



View Your Fixed Dial List

This feature enables you to review, but not change, your Fixed Dial list.

1. Follow the steps in the “Getting to...” box to get to View Fixed Dial List, and then press  to select. You see the first number on your Fixed Dial list.
2. Press  to scroll through the numbers on your Fixed Dial list.
3. Press and hold  to exit the menu.

1-2: Getting to Phone Book Features...

1. Press  until you see Phone Book, and then press .
2. Press  to scroll to one of the features described below. You will see the feature name, along with Select?.

Viewing the Last Ten Numbers Dialed

Don't worry about forgetting the number you dialed earlier. The last ten numbers you dialed are saved.

1. Follow the steps in the "Getting to..." box above to get to Last Ten Calls, and then press  to select.
2. Press  to scroll to Last Calls Made or Erase All Numbers, and then press  to select.
3. If you select Last Calls Made, press  to scroll to the number you are looking for, and then press  to place a call to that number.
or
If you select Erase All Numbers, you see Completed.
4. Press and hold  to exit the menu.

Tip: If you want to add a number from Last Ten Calls to your Phone Book, press  when the number is displayed, then follow the steps in "Storing Names and Numbers" on page 70.

1-2: Getting to Phone Book Features...

1. Press  until you see Phone Book, and then press .
2. Press  to scroll to one of the features described below. You will see the feature name, along with Select?.

Viewing and Modifying Phone Numbers

Tip: Pressing   also brings up your phone number.

View Your SIM Phone Number(s)

Use this feature to view your phone number(s). You can have up to five phone numbers.

1. Follow the steps in the “Getting to...” box to get to My Phone Number(s).
2. Press  to select. You will see your phone’s voice number followed by Modify?.
3. Press  to scroll through your numbers.
4. Press and hold  to exit the menu.

Keep in Mind: If you do not see your number(s), they have not be programmed onto your SIM card. Contact your service provider for more information.

Modify Your Phone Numbers

If you've recently switched your phone number, use this feature to quickly store your most recent information.

1. **Complete the steps** in “View Your SIM Phone Number(s)” to get to the number you want to modify.
2. **Press**  to modify the number. You will see *Edit. Number* followed by the number for the selected entry.
3. **Enter changes** to the number, and then **press** . You will see *Edit. Name* followed by the name for the entry selected.
4. **Enter changes** to the name (see “Entering Names” on page 72) and then **press** . You will see *Stored*.
5. **Press and hold**  to exit the menu.

1-2: Getting to Phone Book Features...

1. Press  until you see Phone Book, and then press .
2. Press  to scroll to one of the features described below. You will see the feature name, along with Select?.

One-Touch Dialing

Quick Access

This feature can be added to the Quick Access menu.

One-Touch dialing enables you to place calls instantly. You can choose to dial the phone numbers in the first nine memory locations in either your SIM memory, phone memory, or your Fixed Dial List. You choose which type of memory you want to be active with this feature.

Set Up One-Touch Dialing

1. Follow the steps in the “Getting to...” box to get to One-Touch Dial Setting, and then press  to select.
2. Press  to scroll through To Phone Memory, To SIM Card Memory, or To Fixed Dial List, and then press  to select the displayed option. You will see Completed.
3. Press and hold  to exit the menu.

Use One-Touch Dialing

Using One-Touch Dial is easy—just press and hold a keypad digit! To use One-Touch dialing:

Press and hold the appropriate digit key.

For example, press and hold  to dial the number stored in location 2 of your phone memory, location 2 of your Fixed Dial list, or 102 of your SIM memory, depending on your setting.

Tip: You do not need to press  to call the number when you're using One-Touch dialing.

Using Calling Features

This chapter describes call-related features. Many of these features are network features that you must subscribe to in order to access.

What You'll Learn

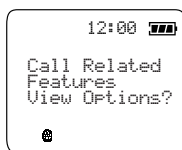
- checking battery power level
- showing the strength of the signal your phone is receiving
- activating/deactivating the Pending Call Drop signal
- forwarding calls when you're not available
- restricting use of your phone

Keep in Mind: If you see the  symbol next to a feature, your phone must be in Iridium satellite mode to access it.

Entering the Menu

To enter the Call Related Features menu:

1. **Press**  to open the Options Menu.
2. **Press**  to scroll forward.
or
Press   to scroll backward or forward.
3. **Press**  when you see:



4. **Press**  to scroll through the submenu.
or
Press   to scroll backward or forward through the submenu.

What's on the Menu?

Call Related Features

- Show Battery Meter¹
- Show Signal Strength¹
- Pending Drop Indication¹
 - On/Off
- Call Forwarding
 - Forward When Unavailable
 - On/Off
 - Forward All Calls
 - On/Off
 - Detailed Forwarding
 - Forward Voice Calls
 - Forward All Voice Calls
 - On/Off
 - If Busy
 - On/Off
 - If No Answer
 - On/Off
 - If Not Reachable
 - On/Off
 - Forward Fax Calls³
 - Forward Data Calls³
 - Cancel All Forwarding
- Call Waiting¹
- Call Barring
 - Bar Outgoing Calls
 - On/Off
 - Intl Calls³
 - Intl Calls Except Home³
 - All Calls³
 - Bar Incoming Calls
 - On/Off
 - When Roaming³
 - All Calls³
 - Change Bar Password

¹ This feature is accessed from Iridium Satellite Mode.

³ This feature is accessed from GSM Cellular Mode.

Feature Overview

The feature selection in the Call Features menu varies depending on the mode you are in. The table below shows the features available in each mode. See “Selecting a Mode” on page 145 for more information.

Feature	Iridium	GSM	Non-GSM
Forward Calls When Unavailable	•	•	SP
Forward All Your Calls	•	•	SP
Select When Calls Are Forwarded: Voice Calls Data Calls Fax Calls	•	• • •	SP
Show the Battery Meter	•		
Show Signal Strength	•		
Deactivate Pending Call Drop	•		
Activating Call Waiting	•		SP
Bar Outgoing Calls: All Calls International Calls International Calls Except Home	•	• • •	
Bar Incoming Calls All Calls When Roaming	•	• •	
Change Your Bar Password	•	•	
SP Your service provider may offer similar or additional services.			

1-2: Getting to Calling Features...

1. Press  until you see Call Related Features, and then press .
2. Press  to scroll to one of the features described below. You will see the feature name, along with Select?.

Showing the Battery Meter

Quick Access

Press  , then continue with step 2.

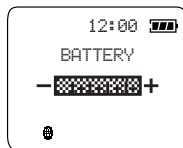
To show the battery meter:

1. Follow the steps in the “Getting to...” box to get to Show Battery Meter.
2. Press  to select.

The display shows a fuel gauge. The more segments filled, the greater your battery's charge:



Low Charge



Full Charge

Tip: Refer to “Charging the Battery” on page 32 for more information on your battery.

You may also see one of these messages:

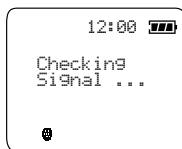
Not Available	The battery meter doesn't appear because a battery is not installed; the phone is operating from external power.
Charging Battery	The battery is being charged: • If the phone is powered on the  indicator flashes. • If phone is powered off, the  indicator does not appear.
Fast Charge Completed	The battery has completed charging. The  indicator stops flashing.

3. Press and hold  to clear the display.

Showing Signal Strength

Use this feature to check the strength of the signal that your phone is receiving from the Iridium satellite network. If you are in cellular mode the signal strength is displayed automatically if you are registered.

1. **Follow the steps in the “Getting to...” box** to get to Show Signal Strength.
2. **Press ** to select. You will see:



If the antenna is not rotated, you will see Rotate Antenna. Rotate the antenna to continue.

After a few seconds, if the phone is able to locate a signal, the signal strength indicator appears in the upper left corner of the display.



The signal strength meter remains on the display for several seconds. If the phone cannot locate a signal, you will see Weak Signal.

3. **Press and hold ** to exit the menu.

Quick Access

Press  , then continue with step 2.

1-2: Getting to Calling Features...

1. Press  until you see **Call Related Features**, and then press .
2. Press  to scroll to one of the features described below. You will see the feature name, along with **Select?**.



Deactivating Pending Call Drop Signal

Under rare circumstances, due to system overcapacity or a satellite outage, a satellite may not be available to take your call. When this happens, your phone notifies you with a series of three consecutive tones and displays **Pending Call Drop**. The tones continue periodically until a new satellite moves into range or the call is dropped.

To deactivate the alert tones:

1. Follow the steps in the “Getting to...” box to get to **Pending Call Drop**, and then press  to select.
2. Press  to scroll to either **On** or **Off**, and then press  to select.
3. Press and hold  to exit the menu.

1-2-3: Getting to Call Forwarding...

1. Press  until you see Call Related Features, and then press .
2. Press  to scroll to Call Forwarding, and then press .
3. Press  to scroll to one of the features described below.

Using Call Forwarding

Iridium Satellite and GSM Cellular Mode

You must subscribe to these network features through your service provider(s).

Forward Calls When Unavailable

Use this feature when you can't answer a call.

1. Follow the steps in the "Getting to..." box to get to Forward When Unavailable, and then press  to select.
2. Press  to scroll to On or Off, and then press  to select.
 - If you are in Iridium satellite mode and you select On, then continue with **step 3**.
 - If you are in GSM cellular mode and you select On, you will see Enter Number. Continue with **step 4**.
 - If you select Off continue with **step 5**.
3. Press  to scroll to Voicemail or Other Number, and then press  to select
If you select Voicemail, go to **step 5**. If you select Other Number, then you will see Enter Number. Continue with **step 4**.
4. Enter the number you want calls forwarded to, and then press . Your phone takes a moment to request the setting from the network, and then you will see Call Forward On.
5. Press and hold  to exit the menu.

 **Tip:** If you have not yet stored a voicemail number, go to page 109 to learn how.

1-2-3: Getting to Call Forwarding...

1. Press  until you see Call Related Features, and then press .
2. Press  to scroll to Call Forwarding, and then press .
3. Press  to scroll to one of the features described below.

Quick Access

Press  . You see Call Forward On/Off, and then press  to select.

 **Tip:** If you have not yet stored a voicemail number, go to page 109 to learn how.

Forward All Your Calls

When you select this option, all your calls are forwarded to the number you choose. Your satellite phone does not ring.

1. Follow the steps in the “Getting to...” box to get to Forward All Calls, and then press  to select.
2. Press  to scroll to either On or Off, and then press  to select.
 - If you are in Iridium satellite mode and you select On, then continue with **step 3**.
 - If you are in GSM cellular mode and you select On, you will see Enter Number. Continue with **step 4**.
 - If you select Off, continue with **step 5**.
3. Press  to scroll to Voicemail or Other Number, and then press  to select.

If you select Voicemail, go to **step 5**.

If you select Other Number, then you will see Enter Number. Continue with **step 4**.
4. Enter the number you want all your calls forwarded to, and then press .
5. Press and hold  to exit the menu.

Select When Voice Calls Are Forwarded

Keep in Mind: Forward When Unavailable and Forward All Calls override Detailed Forwarding settings.

1. **Follow the steps in the “Getting to...” box** to get to Detailed Forwarding, and then **press**  to select.

Press  to scroll to Forward Voice Calls, then **press**  to select.

2. **Press**  to scroll to the option you desire Forward All Voice Calls, If Busy, If No Answer, or If Not Reachable.
3. **Press**  to select the displayed option.
 - If you select If Busy or If Not Reachable, then your calls are automatically forwarded to your Personal Mailbox. Continue with **step 6**.
 - If you are in Iridium satellite mode and you select Forward All Voice Calls or If No Answer, then continue with **step 3**.
 - If you are in GSM cellular mode and you select Forward All Voice Calls or If No Answer, you will see Enter Number. Continue with **step 4**.

4. **Press**  to scroll to either Voicemail or Other Number, then **press** .

If you select Voicemail, go to **step 6**.

If you select Other Number, then you will see Enter Number. Continue with **step 5**.

5. **Enter the number** you want calls forwarded to, then **press** . Your phone takes a moment to request the setting from the network, then displays Call Forward On.
6. **Press and hold**  to exit the menu.

Tip: For information on retrieving messages, see “Accessing Messages” on page 112.

 **Tip:** If you have not yet stored a voicemail number, go to page 109 to learn how.

1-2-3: Getting to Call Forwarding...

1. Press  until you see Call Related Features, and then press .
2. Press  to scroll to Call Forwarding, and then press .
3. Press  to scroll to one of the features described below.

Select When Fax and Data Calls Are Forwarded

The forwarding fax and data calls features are only available in GSM cellular mode.

1. **Follow the steps in the “Getting to...” box** to get to Detailed Forwarding, and then press  to select.

Press  to scroll to Forward Fax Calls or Forward Data Calls and then press  to select.
2. Press  to scroll to On or Off. If you select On continue with **step 3**, otherwise go to **step 4**.
3. **Enter the number** you want calls forwarded to, and then press . Your phone takes a moment to request the setting from the network, and then displays Call Forward On.
4. **Press and hold**  to exit the menu.

Cancel All Forwarding

Use this option to clear all Call Forwarding settings.

1. **Follow the steps in the “Getting to...” box** to get to Cancel All Forwarding, and then **press**  to select.

You will see Call Forward Off. All Call Forwarding settings are now set to Off.

2. **Press and hold**  to exit the menu.

Non-GSM Cellular Mode

To forward your calls, you must send a phone flash along with the appropriate feature code provided by your service provider. See “Sending a Phone Flash” on page 54 for details.

1-2: Getting to Call Related Features...

1. Press  until you see **Call Related Features**, and then press .
2. Press  to scroll to one of the features described below. You will see the feature name, along with **Select?**.

Activating Call Waiting

Subscribers to Call Waiting can use this feature to decide whether or not to take incoming calls while on the line. To activate call waiting:

1. Follow the steps in the “Getting to...” box to get to **Call Waiting**, and then press  to select.
2. Press  to scroll to **On** or **Off**, and then press  to select the desired option.
3. Press and hold  to exit the menu.

For information on using call waiting, see “Using Call Waiting” on page 50.

1-2-3: Getting to Call Barring...

1. Press  until you see Call Related Features, and then press .
2. Press  to scroll to Call Barring, and then press .
3. Press  to scroll to one of the features described below. You will see the feature name, along with Select?.

Restricting Calls

You can use Call Barring to restrict both incoming and outgoing calls. Call Barring is useful if you're loaning your phone to others or when you wish to control incoming calls. When you change one of your Call Barring settings, your phone takes a few seconds to request the setting from the network.

Bar Outgoing Calls

This setting enables you to receive incoming calls but prevents outgoing calls.

1. Follow the steps in the "Getting to..." box to get to Bar Outgoing Calls, and then press  to select.
2. Press  to:
 - scroll to On or Off, and then press  to select (Iridium satellite mode).
 - scroll to Intl Calls, Intl Calls Except Home, All Calls, or Off, and then press  to select (GSM Cellular mode).

You will see Enter Password.

3. Enter your bar password, and then press . You will see Completed.
4. Press and hold  to exit the menu.

Tip: Call Barring is only available in Iridium satellite and GSM cellular mode.

Tip: Your service provider gives you a bar password.

1-2-3: Getting to Call Barring...

1. Press  until you see Call Related Features, and then press .
2. Press  to scroll to Call Barring, and then press .
3. Press  to scroll to one of the features described below. You will see the feature name, along with Select?.

Bar Incoming Calls

This setting allows you to place calls, but refuses incoming calls. Callers hear a recording telling them you are unavailable. To be sure not to miss a call see "Select When Voice Calls Are Forwarded" on page 97.

1. Follow the steps in the "Getting to..." box to get to Bar Incoming Calls, and then press  to select.
2. Press  to:
 - scroll to On or Off, and then press  to select (Iridium satellite mode).
 - scroll to When Roaming, All Calls, or Off, and then press  to select (GSM cellular mode).

You will see Enter Password.

3. Enter your bar password, and then press . You will see Completed.
4. Press and hold  to exit the menu.

Tip: Your service provider gives you a bar password.

Change Bar Password

When you subscribe to Call Barring, your service provider gives you a four-digit bar password. Use this feature to change it to something easy to remember.

1. **Follow the steps in the “Getting to...” box** to get to **Change Bar Password**, and then **press**  to select. You will see **Enter Password**.
2. **Enter bar password**, and then **press** . You will see **Enter New Password**.
3. **Enter the new bar password**, and then **press** .
4. **Enter the new bar password** again to confirm, and then **press** .
5. **Press and hold**  to exit the menu.

Tip: If you are changing the password for the first time, use the password supplied by your service provider.



Using Message Services

Did you know that you can receive voicemail and fax notification messages and numeric and text messages through your Personal Mailbox service—wherever in the world you may be? Wherever you are, you'll have instant reference to all your communication.

Keep in Mind: Message Services are only available in Iridium satellite mode and GSM cellular mode (unless otherwise indicated by the .

What You'll Learn

- checking your voicemail messages
- reading, saving and deleting messages

Keep in Mind: If you see the  symbol next to a feature, your phone must be in Iridium satellite mode to access it.

Entering the Menu

To enter the Messages menu:

1. Press  to access the Message submenu directly, and then go on to **step 4**.

or

Press  to access the Options Menu and then go on to **step 2**.

2. Press  to scroll forward.

or

Press  to scroll backward or forward.

3. Press  when you see:



4. Press  to scroll through the submenu.

or

Press  to scroll backward or forward through the submenu.

What's on the Menu?

Messages Menu

- Call Voicemail¹
- Received Messages
 - Go to Next Message
 - Delete Message
 - Return Call
- Message Settings¹
 - Voicemail Number

¹ This feature is accessed from Iridium Satellite Mode.

Feature Overview

The feature selection in the Messages menu varies depending on the mode you are in. The table below shows the features available in each mode. See “Selecting a Mode” on page 145 for more information.

Feature	Iridium	GSM	Non-GSM
Check Voice Mail	•		
Store Voice Mail Number	•		
Message Notification	•	•	
Read A New Message	•	•	
Read A Stored Message	•	•	
Go to Next Message	•	•	
Delete a Message	•	•	
Call a Number Embedded in the Message	•		

1-2: Getting to Message Features...

1. Press  to enter the Messages menu.
2. Press  to scroll to one of the features described below. You will see the feature name, along with Select?.

Checking Your Voicemail

Quick Access

Press  , and then continue with step 4.

This feature makes checking your voicemail simple.

1. Follow the steps in the “Getting to...” box to get to Call Voicemail.
2. Press  to select. You will see +18475551234 Calling.

If you have not previously stored a Voicemail Number, then the message No Number Available is displayed. See page 109 to enter a number.

Storing Your Voicemail Number

To store a voicemail number:

1. **Follow the steps in the “Getting to...” box** to get to **Message Settings**, and then **press**  to select
2. **Press**  to select **Voicemail Number**. You will see **Enter Voicemail Number** followed by your current voicemail number. If this is the first time you have stored a number, go on to **step 4**.
3. **Press**  to clear one digit at a time, **or press and hold**  to erase the entire number.
4. **Enter the new number**, and then **press** . You will see **Completed**.
5. **Press and hold**  to exit the menu.

Tip: Use **Pause Dialing** to store your PIN and voicemail access numbers together. See “Using **Pauses in Numbers**” on page 74.

Managing Your Messages

How Your Phone Notifies You of Messages

If your phone is powered on, it notifies you of received messages in the following ways:

- **An alert sounds and/or the phone vibrates.**
Your phone beeps and/or vibrates three times to inform you of an incoming message. See page 119 to set your phone's alert.
- **The message icon () is displayed.**
- **The message is displayed immediately** if the message is a fax or voicemail notification message. The message remains on the display for several seconds.

or

Message Read Now? is displayed if the message is a 160-character alphanumeric, text message. For more information see "Read a New Message" on page 112.

How Messages Are Stored

Your phone stores all messages on your SIM card. The total number of messages that you can store depends on your service provider.

If the message indicator is flashing, your SIM card is full. See "Delete Messages" on page 114 to make room for the new message.

What Messages Contain

You can receive short text or numeric messages in your Personal Mailbox. Text messages may contain up to 160 characters. Numeric messages—typically phone numbers—may contain up to 20 digits.

Your Personal Mailbox works along with Call Forwarding. For more information, refer to “Personal Mailbox” on page 48.

Messages contain multiple screens with the following information:

- the message
- the date and time the message was sent
- the phone number (if available) from which the message was sent

1-2-3: Accessing Your Messages...

1. Press  to access the Messages menu.
2. Press  until you see Received Messages, and then press  to select.
3. Press  to scroll to one of the features described below.

Accessing Messages

Read a New Message

Keep in Mind: If you are in cellular mode and you remove your GSM Cellular Cassette you are not able to access your messages. Either switch to Iridium satellite mode or reinsert your GSM Cellular Cassette.

Notification Messages

When you receive an incoming fax or voicemail notification message, it automatically scrolls across your screen. You can:

Press  to store the message on your SIM card.

or

Press  to delete the message.

Text Messages

When you receive a new alphanumeric message, you will see Message Read Now? To read the message:

1. Press  and go on to **step 2**.

or

Press  to read the message later. See "Read a Stored Message."

2. Press  or  to move forward through a message one screen at a time.
3. Press  to access options for that entry, then proceed to page 114.

Read a Stored Message

To read a stored message:

1. **Follow the steps in the “Getting to...” box** to enter the message center. If you have messages you will see the number of messages stored. If you do not have any messages, you will see **No Messages**.
2. **Press**  or  to move forward through a message one screen at a time.
3. **Press**  to access options for that entry, and then proceed to page 114.

or

Press and hold  to exit the menu.

Quick Access

Press  , and then continue with step 2.

Go to the Next Message

1. **Follow the steps** in “Read a Stored Message” on page 113.
2. **Press**  until you see **Go To Next Message** and then **press** .
- You will see the next message. If you are at the end of your message list you will see the first message again.
3. **Press**  or  to move forward through a message one screen at a time.
4. **Repeat steps 2 to 3** until all your messages have been read.
5. **Press and hold**  to exit the menu.

Delete Messages

Use this option to make room for new messages:

1. **Follow the steps** in “Go to the Next Message” above until you see the message you want to delete, and then **press** .
2. **Press**  until you see **Delete Message**, and then **press** . You will see **Message Deleted**.
3. **Press and hold**  to exit the menu.

Return a Call

A callback number appears in quotes within the message. If one is enclosed, you can instantly place a call to that number.

1. **Follow the steps** in “Go to the Next Message” on page 114 to display the desired message, and then **press** .
2. **Press**  until you see **Return Call**, and then **press** . You will see **+18475551212 Call?**.
3. **Press**  to place a call to that number. You will see **+18475551212 Calling**.

Tip: If no callback number is included, your phone selects the first number in the message.

Customizing Phone Features

Once you're comfortable with the basic features of your new phone, use this chapter to set your phone up the way you like it.

What You'll Learn

- adjusting your phone's ringer volume
- choosing from ten different ringer styles
- choosing your phone's keypad tones
- locking and unlocking your phone
- changing and setting codes for security
- setting home and away time and date
- resetting or clearing your phone's settings
- selecting the language displayed by your phone

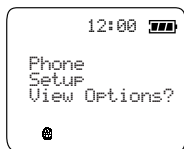
Keep in Mind: If you see the  symbol next to a feature, your phone must be in Iridium satellite mode to access it.

Entering the Menu

To enter the Phone Setup menu (Iridium satellite mode and non-GSM cellular mode only):

1. Press  to open the Options Menu.
2. Press  to scroll forward.

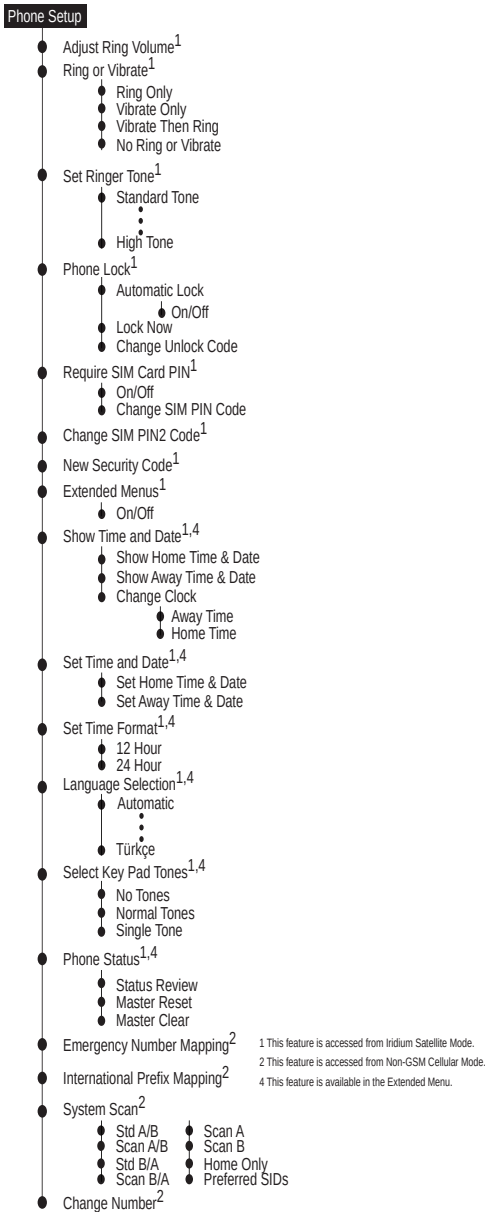
or
Press  to scroll backward or forward.
3. Press  when you see:



4. Press  to scroll through the submenu.

or
Press  to scroll backward or forward through the submenu.

What's on the Menu?



Feature Overview

The Phone Setup feature selection (available in the Phone Setup menu as well as through keystrokes) vary depending on the mode you are in. The table below shows the features available in each mode. See “Selecting a Mode” on page 145 for more information.

Feature	Iridium	GSM	Non-GSM
Adjust Ringer**/Earpiece Volume*	•	•	•
Set Phone to Ring or Vibrate	•		
Set Ringer Tone	•		
Lock the Phone	•		
Unlock the Phone*	•	•	•
Change Unlock Code	•		
Activate/Deactivate PIN Code	•		
Change PIN Code	•		
Unblock PIN Code*	•	•	•
Change/Unblock PIN2 Code*	•		
Activate Extended Menus	•		
View/Set Time and Date	•		
Change Clock Display	•		
Set Time and Date Format	•		
Select Display Language	•		
Select Keypad Tones	•		
Review Phone Settings	•		
Master Clear/Master Reset	•		
Emergency Number Mapping			•
International Prefix Mapping			•
Switch Between Numbers			•
Select System Mode			•
* These features are not accessed through the menu system			
** This feature is not available through the menu in Cellular mode.			

1-2: Getting to Tone Adjustments...

1. Press  until you see Phone Setup, and then press .
2. Press  to scroll to one of the features described below. You will see the feature name, along with Select?.

Adjusting Your Phone's Tones

Quick Access

This feature can be added to the Quick Access menu.

Tip: In both modes, you can press , and then the up or down volume key.

Tip: The volume keys are located on the side of the phone.

Adjust the Ringer Volume

Use this feature to adjust the volume of the ringer. The phone sounds the new volume level as you adjust it.

Note: See the “tip” in the margin for information on changing ringer volume in cellular mode.

1. Follow the steps in the “Getting to...” box to get to Adjust Ring Volume, and then press  to select.
2. **Increase the volume** by pressing the upper volume key.
or
Decrease the volume by pressing the lower volume key.
3. Press and hold  to exit the menu.

Adjust the Earpiece Volume

To adjust earpiece volume:

- **Increase the volume** by pressing the upper volume key.
- **Decrease the volume** by pressing the lower volume key.

As you press the keys, the phone's speaker demonstrates the new volume level. The bar graph in the display represents the volume level. The higher the graph, the louder the volume is.

Set the Phone to Ring or Vibrate

This feature is ideal for situations where a ringing phone is inappropriate or in noisy places.

1. **Follow the steps in the “Getting to...” box** to get to Ring or Vibrate, and then **press**  to select.
2. **Press**  to scroll to Ring Only, Vibrate Only, Vibrate then Ring, or No Ring or Vibrate, and then **press**  to select the displayed option. You will see Completed.
3. **Press and hold**  to exit the menu.

Set the Ringer Tone

Select your favorite tone and you'll recognize your phone's ring immediately—even in a crowd.

1. **Follow the steps in the “Getting to...” box** to get to Set Ringer Tone, and then **press**  to select.
2. **Press**  to scroll through the options Standard Tone, Single Ring Tone, British Tone, French Tone, German Tone, Bravo Tone, Three Ring Tone, Siren Tone, Quick Tone, or High Tone.

You hear a one ring cycle demonstration.

3. **Press**  to select the desired option.
4. **Press and hold**  to exit the menu.

Set the Keypad Tones

Choose the sounds your phone makes when its keys are pressed.

1. **Follow the steps in the “Getting to...” box** to get to Select Keypad Tones, and then **press**  to select.
2. **Press**  to choose Normal Tones, Single Tone, or No Tones, and then **press** .
3. **Press and hold**  to exit the menu.

 **Quick Access**
Press  .

Tip: If you select Vibrate then Ring, your phone vibrates for two cycles, and then rings.

1-2-3: Getting to Phone Lock...

1. Press  until you see Phone Setup, and then press .
2. Press  until you see Phone Lock, and then press .
3. Press  to scroll to one of the features described below.

Locking and Unlocking Your Phone

These features can help you prevent unwanted use of your phone.

Lock the Phone Automatically

Use this feature to set your phone to lock itself every time it is powered on.

1. Follow the steps in the “Getting to...” box to get to Automatic Lock, and then press  to select.
2. Press  to choose On or Off, and then press  to select. You will see Completed.
3. Press and hold  to exit the menu.

Lock the Phone Instantly

Use this feature to lock your phone immediately.

Follow the steps in the “Getting to...” box to get to Lock Now, and then press  to select. You will see: Locked.

Keep in Mind: Once you unlock your phone, it remains unlocked until you lock it again.

Unlock the Phone

1. **Enter unlock code.** Enter your four-digit phone unlock code.
2. Press .

Quick Access

Press , , and then press  to select.

Tip: The factory set unlock code is 1234.

Change the Unlock Code

The lock code is originally set to 1234. You should change it as soon as possible.

1. **Follow the steps in the “Getting to...” box** to get to *Change Unlock Code*, and then **press**  to select. You will see *Enter Security Code*.
2. **Enter security code.** Enter your six-digit security code. You will see your current lock code and *Enter Phone Unlock Code*.
3. **Press**  to clear one digit at a time, **or press and hold**  to clear all the digits.
4. **Enter new code.** Enter a new four-digit unlock code, and then **press** . You will see *Phone Lock* and the new lock code.
5. **Press and hold**  to exit the menu.

Tip: The factory default security code is 000000.

1-2-3: Getting to Require SIM Card PIN...

1. Press  until you see Phone Setup, and then press .
2. Press  until you see Require SIM Card PIN, and then press .
3. Press  to scroll to one of the features described below. You will see the feature name followed by View Options?.

Protecting the SIM Card

Tip: The PIN code protects your SIM card even when your SIM card is inserted into another phone.

You can use a PIN code to protect the usage on your SIM card even when it is inserted into someone else's phone.

Activate and Deactivate the SIM Card PIN

When you activate the SIM code, your phone requests the code whenever the phone is powered on. To change this setting, you need to enter the PIN that your service provider gave you.

1. Follow the steps in the “Getting to...” box above.
2. Press  to scroll On or Off, and then press . You will see Enter PIN.
3. Enter PIN code. Enter the 4- to 8-digit code your service provider gave you, and then press . You will see Completed.
4. Press and hold  to exit the menu.

Change the SIM PIN Code

To choose your own PIN code:

1. **Follow the steps in the “Getting to...” box** to get to Change SIM Card PIN, and then **press**  to select. You will see Enter Old PIN.
2. **Enter the current PIN code**, and then **press** . You will see Enter New PIN.
3. **Enter a new PIN code**, and then **press** . You will see Repeat New PIN.
4. **Re-enter the new code**, and then **press**  again. You will see Completed.
5. **Press and hold**  to exit the menu.

Unblock the PIN Code

If your PIN number is entered incorrectly three times in a row, Blocked appears in the display. You need to enter a PIN unblocking key (PUK), which you can obtain from your service provider. Use the following key sequence to unblock your phone:

1. **Press** , , , , .
2. **Enter unblocking key.** Enter the 8-digit unblocking key, and then **press** .
3. **Enter a new PIN code**, and then **press** .
4. **Re-enter the new PIN code**, and then **press** .

1-2: Getting to Security Features...

1. Press  until you see Phone Setup, and then press .
2. Press  to scroll to one of the features described below. You will see the feature name, along with Select?.

Managing Other Security Settings

Your phone includes other security features:

- a SIM PIN2 code for accessing Fixed Dialing settings and other subscription-dependent features
- a security code controls access to security and other menu options

Change the SIM PIN2 Code

Your SIM PIN2 code is used to access Fixed Dialing settings. This four- to eight-digit code is issued to you when you subscribe to the feature. Use this feature to choose a new code.

1. Follow the steps in the “Getting to...” box to get to Change SIM Card PIN2 Code, and then press  to select. You will see Enter Old PIN2.
2. Enter the current PIN2 code, and then press . You will see Enter New PIN2.
3. Enter new PIN2 code, and then press . You will see Repeat New PIN.
4. Re-enter the new PIN2 code, and then press  again. You will see Completed.
5. Press and hold  to exit the menu.

Unlock the PIN2 Code

If your old PIN2 number is entered incorrectly three times in a row, **Blocked** appears in the display. You need to enter a PIN unblocking key (PUK), which you can obtain from your service provider.

1. **Press** , , , , , .
2. **Enter unblocking key.** Enter the 8-digit unblocking code, and then **press** . Your service provider supplies this code.
3. **Enter a new PIN2 code**, and then **press** .
4. **Re-enter the new PIN2 code**, and then **press** .

Change the Security Code

The security code is your phone's primary security number. You use it to do such activities as resetting your phone to its default settings and preventing access to your phone book. It is originally set at 000000, but you should change this right away to something easy to remember.

1. **Follow the steps in the “Getting to...” box** to get to **New Security Code**, and then **press**  to select. You will see **Enter Security Code**.
2. **Enter the current security code**, and then **press** . You will see **Enter New Security Code**.
3. **Enter a new security code**, and then **press** . You will see **Secur. Code** and the six-digit number selected.
4. **Press and hold**  to exit the menu.

1-2: Getting to Other Setup Features...

1. Press  until you see Phone Setup, and then press .
2. Press  to scroll to one of the features described below. You will see the feature name, along with Select?.

Managing Time and Date Settings

View the Time and Date

Use this feature to view the current time and date in one of two time zones.

1. Follow the steps in the “Getting to...” box to get to Show Time and Date, and then press  to select.
2. Press  to choose Show Home Time and Date or Show Away Time and Date, and then press . You will see the current time and date for the location selected in display.
3. Press any key to clear the time and date from the display and return to the menu.
4. Press and hold  to exit the menu.

Change the Time Displayed

Use this feature to determine which time is displayed on your real time clock indicator.

1. Follow the steps in the “Getting to...” box to get to Show Time and Date, and then press  to select.
2. Press  to scroll to Change Clock, and then press .
3. Press  to scroll to either Home Time or Away Time, and then press .
4. Press and hold  to exit the menu.

Set the Time and Date

To make it easy to check the local time when you travel, your phone can save the current time and date for two different time zones.

1. **Follow the steps in the “Getting to...” box** to get to **Set Time and Date**, and then **press**  to select.
2. **Press**  to choose **Set Home Time & Date** or **Set Away Time & Date**, and then **press** . You will see **Enter Time** and the time currently set.
3. **Press**  to accept the displayed time.
or
Enter the time in 24-hour format, and then **press** . You will see **Enter Date** and the date currently set.
4. **Press**  to accept the displayed date. You will see **Completed**.
or
Enter the date in day(dd)-month(mm)-year(yy) form and then **press** . You will see **Completed**.
5. **Press and hold**  to exit the menu.

Set the Time Format

You can choose a 12-hour or 24-hour time format.

1. **Follow the steps in the “Getting to...” box** to get to **Set Time Format**, and then **press** .
2. **Press**  to choose either 12-hour or 24-hour, and then **press**  to select.
3. **Press and hold**  to exit the menu.

Tip: The time displayed (home or away) on the real time clock indicator is the one you selected on page 126.

1-2: Getting to Other Setup Features...

1. Press  until you see Phone Setup, and then press .
2. Press  to scroll to one of the features described below. You will see the feature name, along with Select?.



Activating Extended Menus

Tip: Press and hold  to activate the extended menus temporarily. The extended menus are deactivated when you exit the Options Menu.

This feature activates and deactivates the Extended Menus. See page 162 to learn how Extended Menus can make your phone even simpler to use.

1. Follow the steps in the “Getting to...” box to get to Extended Menus, and then press  to select.
2. Press  to choose On or Off, and then press . You will see Completed.
3. Press and hold  to exit the menu.



Selecting the Display Language

Use this feature to select the language in which your phone displays messages.

1. **Follow the steps in the “Getting to...” box** to get to **Language Selection**, and then **press**  to select.
2. **Press**  to scroll through the choices, and then **press**  to select the displayed option.
3. **Press and hold**  to exit the menu.

Tip: If you accidentally change the language of your phone's display message, press    to return to the language selection menu.

1-2-3: Getting to Phone Status...

1. Press  until you see Phone Setup, and then press .
2. Press  until you see Phone Status, and then press .
3. Press  to scroll to one of the features described below.

Managing Your Phone's Settings

View all your phone's settings that have changed from their defaults, and reset them to their original settings if you like.

Review the Phone's Settings

Use this feature to review but not change your phone's settings.

Keep in Mind: This feature does not show you the settings for your cellular mode-specific features.

1. Follow the steps in the "Getting to..." box to get to Status Review, and then press .
2. Press  to scroll through the list of all the menu items you have changed.
3. Press and hold  to exit the menu.

Reset Options to Factory Defaults

Use the Master Reset option to reset all settings to their original default settings. It:

- resets audible call timers, the in-call display meter, and the automatic lock
- reset Extended Menus to default setting and return language selection to original
- restores keypad tones to normal, ringer tones to standard, and the volume level to the middle of its range
- resets Non-GSM cellular mode emergency number and international prefix mappings
- resets mode selection (this may cause the phone to switch modes)

To reset all settings:

1. **Follow the steps in the “Getting to...” box** to get to Master Reset, and then **press**  to select. You will see Enter Security Code.
2. **Enter your six-digit security code.** You will see Reset Complete.
3. **Press and hold**  to exit the menu.

Tip: The factory default security code is 000000.

Clear All Stored Information

The Master Clear option resets the same items as Master Reset, plus the following:

- clear phone book entries from phone memory (not from SIM memory)
- clear last calls made list
- reset resettable call timers

Master Clear does not clear the:

- fixed dial list
- my number(s) list
- received messages list

To clear the settings:

1. **Follow the steps in the “Getting to...” box** to get to Master Clear, and then **press**  to select. You will see Enter Security Code.
2. **Enter your six-digit security code.** You will see Reset Complete.
3. **Press and hold**  to exit the menu.

Tip: The factory default security code is 000000.

1-2: Getting to Cellular Mode Features...

1. Press  until you see Phone Setup, and then press .
2. Press  to scroll to one of the features below. You will see the feature name, along with Select?.

Non-GSM Cellular Mode Settings

Tip: These features are only available for non-GSM cellular users.

If you are in a non-GSM cellular mode, you have these additional phone setup features.

Set Up Emergency Number Mapping

This feature allows you to dial 112 to make an emergency call even if your local emergency number is not 112. The default mapping is 911.

1. **Follow the steps in the “Getting to...” box** to get to Emergency Mapping, and then press  to select. You will see Enter Number?
2. **Enter number.** Enter your local emergency number and then press .
3. **Press and hold**  to exit the menu.

Set Up International Prefix Mapping

With this feature allows you to use to the  (international prefix +) to make an international call without entering the access code for the country no matter what mode you are in. The default mapping is 001.

1. **Follow the steps in the “Getting to...” box** to get to Intl. Dialing Prefix, and then press  to select. You will see Enter Number?
2. **Enter number.** Enter the international access code for the country you are in, and then press .
3. **Press and hold**  to exit the menu.

System Scan

The System Scan feature lets you select the type of cellular system your phone accesses. This feature is configured by your cellular service provider.

System Scan Setting

Tip: This feature is only available for non-GSM cellular users.

Standard Mode	Your phone first seeks a home type system, then a non-home type. • If home system is non-wireline (type A), you will see <i>Std A/B</i>. • If home system is wireline (type B), you will see <i>Std B/A</i>.
Reversed Preference Mode	Your phone first seeks a non-home type system, then a home type system. (This mode may be useful in fringe areas or certain roaming situations.) • If home system is non-wireline (type A), you will see <i>Scan B/A</i>. • If home system is wireline (type B), you will see <i>Scan A/B</i>.
Home Only Mode	Your phone does not operate outside its home system. You see <i>Will Home Only</i> .
Scan A Mode	You phone operates only within non-wireline (A) systems. You will see <i>Scan A</i> .
Scan B Mode	Your phone operates only within wireline (B) systems. You will see <i>Scan B</i> .
Enhanced Preferred Scanning Mode	Your phone scans for home or programmed preferred System ID numbers (SIDs) first. This mode requires entry of the SIDs for the systems in which you wish to operate. Contact your cellular service provider for SID information. If you have selected two system operation, the phone seeks cellular service according to the system type mode selected for each phone number. You will see <i>Preferred SIDs</i> .

1-2: Getting to Cellular Mode Setup...

1. Press  until you see Phone Setup, and then press .
2. Press  to scroll to one of the features below. You will see the feature name along with Select?.

Tip: Your system ID is shown on your Idle display when you are registered with the system. An "A" indicates you are registered with an analog system and a "D" indicates you are registered with a digital system.

Select a System Scan Method

1. Follow the steps in the "Getting to..." box to get to System Scan, and then press  to select.
2. Press  to scroll to Std A/B, Scan A/B, Std B/A, Scan B/A, Scan A, Scan B, Home Only, or Preferred SIDs, and then press  to select.

See the table on the previous page for a detailed description of these settings.
3. Press and hold  to exit the menu.

Switching Between Phone Numbers

Your phone can operate on four different home systems depending on your cellular cassette. If you travel often, you can have your phone programmed with four cellular numbers to reduce roaming. The Change Number feature lets you change your active number to the one appropriate for your current area.

All the phone numbers are designated as your home system, but only one number can be active at any given time. Calls are placed and received by the currently active number only.

To change the active phone number:

1. **Follow the steps in the “Getting to...” box** above to get to Change Number, and then **press**  to select.

You will see your active number with a ✓ next to it.

2. **Press**  to scroll through your phone numbers and **press**  to switch to that phone number.

Note: Contact your service provider to add additional numbers to this list.

3. **Press**  to confirm the new setting. You will see Set.
4. **Press and hold**  to exit the menu.

Tip: This feature is only available for non-GSM cellular users.



Accessing the Network

This section shows you how to register with the network.

What You'll Learn

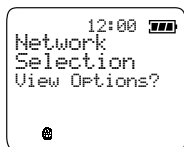
- accessing the Iridium satellite network
- setting up cellular mode network selection

Keep in Mind: If you see the  symbol next to a feature, your phone must be in Iridium satellite mode to access it.

Entering the Menu

To enter the Network Selection menu:

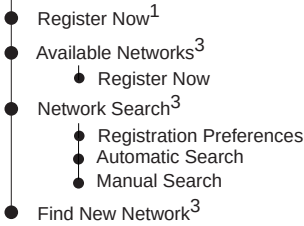
1. Press  to open the Options Menu.
2. Press  to scroll forward.
or
Press  to scroll backward or forward.
3. Press  when you see:



4. Press  to scroll through the submenu.
or
Press  to scroll backward or forward through the submenu.

What's on the Menu?

Network Selection



1 This feature is accessed from Iridium Satellite Mode.

3 This feature is accessed from GSM Cellular Mode.

Feature Overview

The feature selection in the Network menu varies depending on the mode you are in. The table below shows the features available in each mode. See “Selecting a Mode” on page 145 for more information.

Feature	Iridium	GSM	Non-GSM
Register Now	•	•	
Available Networks		•	
Network Search		•	
Find New Network		•	

1-2: Getting to Network Selection...

1. Press  until you see Network Selection, and then press .
2. Press  to scroll to one of the features described below. You will see the feature name, along with Select?.

Registering With the Satellite Network

If you know your phone is outside the range of your local service, use this feature to access Iridium satellite service.

Your phone searches for the Iridium satellite network.

Quick Access

Press  , and then continue with step 3.

1. Rotate the antenna upward.
2. Follow the steps in the “Getting to...” box to get to Register Now.
3. Press  to select. You will see Registering.... This may take a few seconds.

If the phone finds the signal, you will see Registered and the signal strength indicator:



The  indicator also appears.

If the phone is unsuccessful you may see one of these messages: Rotate Antenna, Orient Antenna, System Busy, Restricted Area or Weak Signal

GSM Cellular Mode Network Settings

These network selection features are available in GSM cellular mode only. For information on switching to cellular mode, see “Selecting a Mode” on page 145.

Scan for Available Networks

This option scans to see which networks are operating in your current location.

1. **Follow the steps in the “Getting to...” box** to get to Available Networks, and then **press** . You will see Scanning and then a list of the available networks.
2. **Press**  to scroll to the network you want to register with, and then **press** . You will see Register Now?
3. **Press**  to register with that network. You will see Searching.

When your phone has completed registering with the network, you will see the name of the network and either the  or  indicator.

Tip: This feature is only available for GSM cellular users.

1-2: Getting to Network Selection...

1. Press  until you see Network Selection, and then press .
2. Press  to scroll to one of the features described below. You will see the feature name, along with Select?.

Tip: This feature is only available for GSM cellular users.

Set Network Search Method

When your phone needs to register with a network, it generates a sorted list of networks. The network list is sorted in the following order:

- the home network
- networks from a preferred list
- random list of other networks found above a certain signal strength
- remaining networks in descending order of signal strength

Any forbidden networks, stored in the SIM card, are not included in the sorted list.

This feature allows you to determine how the phone tries to register with a system.

You can select one of the following methods:

Automatic Search	The phone tries to register with the first network in the sorted list that satisfies the GSM network search rules (described above). If this is successful your phone displays the network name.
Manual Search	The phone presents you with a sorted list of networks within range. You select the network you want to register with. You will see <i>Search Network</i> followed by <i>Search?</i> 1. Press  to generate the sorted list. 2. Press  to select the network you want to register with, and then press . You will see <i>Register Now?</i> 3. Press  to register with that network. When your phone has completed registering with the network, you will see the name of the network and the  or  indicator.

To set your network search method:

1. **Follow steps 1-2** to get to *Network Search*, and then **press** . You will see *Registration Preferences*.
2. **Press** .
3. **Press**  to scroll to *Automatic Search* or *Manual Search*, and then **press** . You will see *Completed*.
4. **Press and hold**  to exit the menu.

1-2: Getting to Network Selection...

1. Press  until you see `Network Selection`, and then press .
2. Press  to scroll to one of the features described below. You will see the feature name, along with `Select?`.

Tip: This feature is only available for GSM cellular users.

Find a New Network

The phone tries to register with a network in the normal manner, with one exception. When the registration attempt is made, your current network is excluded from the search. If the attempt fails, your phone then attempts to reregister with the previous network.

1. Follow the steps in the “Getting to...” box to get to `Find New Network`, and then press .

If you are using the automatic method, you will see `Searching` and then the name of the network.

If you are using the manual method go on to **step 2**.

2. Press  to scroll to the network you want to register with, and then press . You will see `Searching` and then the name of the network.

Selecting a Mode

If you have a cellular cassette installed in your satellite phone, you can also access the cellular network as well as the satellite network.

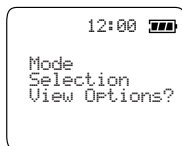
What You'll Learn

- selecting automatic modes
- selecting manual modes

Entering the Menu

To enter the Mode Selection menu:

1. **Press**  to open the Options menu.
2. **Press**  to scroll forward.
or
Press  to scroll backward or forward.
3. **Press**  when you see:



4. **Press**  to scroll through the submenu.
or
Press  to scroll backward or forward through the submenu.

What's on the Menu?

Mode Selection

- Cellular Preferred
- Cellular Always
- Satellite Preferred
- Satellite Always

Feature Overview

The feature selection in the Mode Selection menu varies depending on the mode you are in. The table below shows the features available in each mode.

Feature	Iridium	GSM	Non-GSM
Cellular Preferred	•	•	•
Cellular Always	•	•	•
Satellite Preferred	•	•*	•
Satellite Always	•	•	•
* This feature may not be available for some GSM Cellular Cassette users. Check with your service provider.			

1-2: Getting to Mode Selection Features...

1. Press  until you see *Mode Selection*, and then press .
2. Press  to scroll to one of the features described below.

Selecting Automatic Modes

When you select a “preferred” mode, your phone looks for that type of service first. If it cannot find your preferred service, after about five minutes, it switches automatically to your non-preferred service. If the phone does switch to a non-preferred service, it checks at regular intervals (every 30 minutes) to see if your preferred service has become available. The exact intervals that your phone switches modes and checks for preferred service varies depending on your SIM card. Check with your service provider.

Keep in Mind: The phone postpones a switch between modes while you are in a call or are actively using one of the phone’s features.

Select Cellular Preferred Mode

This is the default selection. When this mode is active, your phone uses your cellular service if possible. If you are out of range, your phone switches to Iridium satellite mode. If this happens, you will see the  indicator in the lower left corner of your display.

Tip: You must have a cellular cassette installed in your phone for this feature to work properly.

1. Follow the steps in the “Getting to...” box to get to *Cellular Preferred*.
2. Press  to select.

If you see the message *Check Cassette* or *Insert Cassette* make sure your Cellular Cassette is installed properly. If you see *Bad Cassette See Supplier*, contact your service provider.
3. Press and hold  to exit the menu.

Select Satellite Preferred Mode

If you select this feature, your phone uses your Iridium satellite service if possible. When you are in Iridium satellite mode, you will see the  indicator in the lower left corner of your display.

If you are out of range and are unable to access a satellite your phone switches automatically to cellular mode. If this happens, you no longer will see the  indicator in the lower left corner of your display.

1. **Follow the steps in the “Getting to...” box** to get to Satellite Preferred.

2. **Press**  to select.

If you see the message Check Cassette or Insert Cassette make sure your cassette is installed and is installed properly. If you see Bad Cassette See Supplier, contact your service provider.

3. **Press and hold**  to exit the menu.

Keep in Mind: This option may not be available for some GSM Cellular Cassette users. If you power your phone up with a GSM Cellular Cassette inserted, your phone may switch to Cellular Preferred mode.

Tip: You must have a cellular cassette installed in your phone for this feature to work properly.

1-2: Getting to Mode Selection Features...

1. Press  until you see Mode Selection, and then press .
2. Press  to scroll to one of the features described below.

Selecting Manual Modes

Tip: You must have a cellular cassette installed in your phone for this feature to work properly.

If you select an “always” mode, your phone always accesses that type of service. If you become out-of-range in that mode, the phone does not switch to the other type of service. You have to manually switch it to the other mode by changing the settings in this menu.

Select Cellular Always Mode

If you select this feature, your system always accesses the cellular network.

1. Follow the steps in the “Getting to...” box to get to Cellular Always.
2. Press  to select.

If you see the message Check Cassette or Insert Cassette make sure your Cellular Cassette is installed properly. If you see Bad Cassette See Supplier, contact your service provider.

3. Press and hold  to exit the menu.

Select Satellite Always Mode

If you select this feature, your system always accesses the Iridium satellite network. When you are in Iridium satellite mode, you will see the  indicator in the lower left corner of your display.

1. Follow the steps in the “Getting to...” box to get to Satellite Always.
2. Press  to select.
3. Press and hold  to exit the menu.



Timing Your Calls

Your phone's call meters give you a variety of options for tracking the time you spend on the phone. You can monitor the length of individual calls, set a timer to track monthly usage, or have the phone alert you with tones at specific intervals.

What You'll Learn

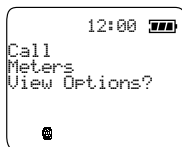
- viewing your phone's call timers to monitor your air-time
- setting your phone's audible alerts to sound at intervals you specify
- activating an in-call display of the elapsed time of your current call
- checking the total airtime of your phone since it was manufactured

Keep in Mind: If you see the  symbol next to a feature, your phone must be in Iridium satellite mode to access it.

Entering the Menu

To enter the Call Meters menu:

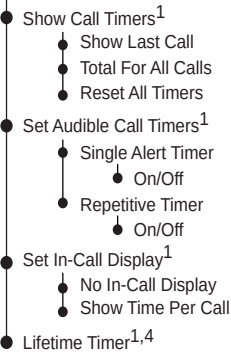
1. Press  to open the Options menu.
2. Press  to scroll forward.
or
Press  to scroll backward or forward.
3. Press  when you see:



4. Press  to scroll through the submenu.
or
Press  to scroll backward or forward through the submenu.

What's on the Menu?

Call Meters



1 This feature is accessed from Iridium Satellite Mode.

4 This feature is available in the Extended Menu.

Feature Overview

The feature selection in the Call Meters menu varies depending on the mode you are in. The table below shows the features available in each mode. See “Selecting a Mode” on page 145 for more information.

Feature	Iridium	GSM	Non-GSM
Show Time of Last Call	•		
Show Total Time of All Calls	•		
Reset All Timers	•		
Set Single Alert Timer	•		
Set Repetitive Alert Timer	•		
View In-call Timer	•		
View Lifetime Timer	•		

1-2-3: Getting to Show Call Timers...

1. Press  until you see Call Meters, and then press .
2. Press  until you see Show Call Timers, and then press .
3. Press  to scroll to one of the features described below.

Showing Call Timers

This submenu helps you track your air-time. Keep a running tab of your monthly usage or view the air-time of your most recent call.

Show the Time of the Last Call

Use this feature to display the elapsed time of your most recent call.

1. Follow the steps in the “Getting to...” box to get to Show Last Call, and then press  to select.

You will see the airtime of the most recent call in hours, minutes, and seconds. After a few seconds, the display returns to Show Last Call.

2. Press and hold  to exit the menu.

Show Total Time for All Calls

Use this feature to display your total air-time since you last reset the Call Timer.

1. **Follow the steps in the “Getting to...” box** to get to **Total For All Calls**, and then **press**  to select.

You will see the airtime accumulated since the timer was last reset. The airtime is displayed in hours, minutes, and seconds. After a few seconds, the display returns to **Total For All Calls**.

2. **Press and hold**  to exit the menu.

Reset All Timers

Reset your timers at the beginning of each billing cycle to keep track of your spending.

1. **Follow the steps in the “Getting to...” box** to get to **Reset All Timers**, and then **press**  to select.

You will see **Completed**. After a few seconds, the display returns to **Reset All Timers**.

2. **Press and hold**  to exit the menu.

Keep in Mind: This does not reset the Lifetime Timer.

1-2-3: Getting to Audible Call Timers...

1. Press  until you see Call Meters, and then press .
2. Press  until you see Set Audible Call Timers, and then press .
3. Press  to scroll to one of the features described below.

Setting Audible Call Timers

Let your phone watch the clock for you. The call timers signal at a set time or interval with beeps only you can hear.

Set the Single Alert Timer

Use this feature to set your phone to alert you after an elapsed time.

1. Follow the steps in the “Getting to...” box to get to Single Alert Timer, and then press  to select.
2. Press  to scroll to On or Off, and then press  to select.
 - If you select On, you will see Enter Seconds. Continue with **step 3**.
 - If you select Off, you will see Completed. Continue with **step 4**.
3. Press  to accept the current setting. You will see Seconds XXX.

or

Enter a number from 11 to 999, and then press . You will see Seconds XXX.

4. Press and hold  to exit the menu.

Set the Repetitive Timer

Use this feature to set your phone to alert you at specific intervals, for example every 45 seconds.

1. **Follow the steps in the “Getting to...” box** to get to Repetitive Timer, and then **press**  to select.
2. **Press**  to scroll to On or Off, then **press**  to select.
 - If you select On, you will see Enter Seconds. Continue with **step 3**.
 - If you select Off, you will see Completed. Continue with **step 4**.
3. **Press**  to accept the current setting. You will see Seconds XXX.

or
Enter a number from 11 to 999, and then **press** . You will see Seconds XXX.
4. **Press and hold**  to exit the menu.

1-2: Getting to Call Meters Features...

1. Press  until you see Call Meters, and then press .
2. Press  to scroll to one of the features described below.



Showing the In-Call Timer

Use this feature to display a running clock of the airtime elapsed while on a call.

1. Follow the steps in the “Getting to...” box to get to Set In-Call Display, and then press  to select.
2. Press  to scroll to Show Time Per Call or No In-Call Display, and then press  to select.
3. Press and hold  to exit the menu.

Show the Lifetime Timer

Use this feature to show the total time of all calls for the life of your phone.

1. **Follow the steps in the “Getting to...” box** above to get to Lifetime Timer, and then **press**  to select.

You will see the total airtime of your phone since it was manufactured, including the airtime spent in cellular mode.

2. **Press and hold**  to exit the menu.

Tip: The Lifetime Meter can't be reset. Reset All Timers has no effect on this timer.





Customizing the Menu System

Do you think there are too many features for everyday use? You can do something about it by hiding the features you don't always need. Is your favorite feature not on the Quick Access menu? It's easy to change the defaults to your favorite features. By customizing your menus your favorite features are always quick and easy to find! This chapter shows you how.

Keep in Mind: The menu systems can only be customized in Iridium satellite mode. See "Selecting a Mode" on page 145 for more information.

What You'll Learn

- personalizing the Options Menu
- personalizing the Quick Access Menu

Keep in Mind: If you see the  symbol next to a feature, your phone must be in Iridium satellite mode to access it.

Personalizing the Options Menu

Move Menu Features

1. **Find the feature** you want to move.
2. **Press and hold** . You will see one of two responses depending on what menu the feature currently is in. If you see:

Remove from Short Menu (the feature is in the Short Menu)	Press  to move the feature to the extended menu. You will see Menu Item Moved. or Press  scroll to Leave in Short Menus, and then press  to select. You will see Move Cancelled.
Add to Short Menu (the feature is in the Extended Menu)	Press  to move the feature to the short menu. You will see Menu Item Moved. or Press  to scroll to Leave in Long Menus, and then press  to select. You will see Move Cancelled.

Keep in Mind: Some features and submenus cannot be moved. You will see Cannot Move Menu Item.

Activate/Deactivate Extended Menu

Use the Options Menu to activate and deactivate Extended Menu. Activate it when you need access to every feature. Deactivate it for everyday use.

Keep in Mind: If you are in cellular mode, you will see all the menu items available regardless of if they are in the extended menu or not.

1. **Press**  until you see Phone Setup, and then **press**  to select.
2. **Press**  until you see Extended Menus, and then **press**  to select.
3. **Press**  to scroll to either On or Off, and then **press**  to select.

If you activate the Extended Menu, you will notice that all the hidden features are now accessible.

Access Hidden Features

If you want access to a feature hidden in the Extended Menu, but don't want to leave the Extended Menu active, you can use this shortcut:

Press and hold  for a few seconds.

All Extended Menu features are accessible until you exit the Options Menu.



Personalizing the Quick Access Menu



Change Quick Access Features

To change the default quick access features to your favorite feature, first choose the feature you want to replace, and then choose the replacement.

1. **Press** and then **press** to scroll to the feature you wish to change.
2. **Press and hold** to access the list of features available.
3. **Press** to scroll through the list until you find the desired feature.
4. **Press** to store the displayed feature in the new location.

You will see **Completed**.



Custom Quick Access Icons

The following features can be added to your Quick Access Menu, instead of the defaults listed on page 62.

	Find by Location recalls Phone Book entries by memory location numbers.
	Add Entry to Phone stores entered numbers in the next available phone memory location.
	Add Entry to SIM stores entered numbers in the next available SIM card location.
	Phone Mute On/Off mutes the phone.
	Ring Volume displays and sets the incoming call ring tone volume.
	Switch Memory switches One-Touch dialing between the phone and SIM memories depending on the current setting.
	Last Call Timer displays the duration of your last call.



Troubleshooting

This section tells you what to do if you experience one of these problems:

You can't turn the phone's power on.	Check the battery. Is it charged, properly fitted and are the contacts clean and dry?
You can't make calls.	• Check the antenna. Is it fully extended and rotated? Do you have a clear view of the sky? • Did you enter the number in international format? All calls made from the Iridium satellite system must be in international format. (Iridium mode only) • Check the signal strength meter. If the signal is weak, move to an open space or, if you are in a building, move closer to a window. • Check the Network Selection settings. Try Manual Registration or if in GSM cellular mode try Manual Selection, or try another network. • Check your Operator coverage map. • Is Restricted displayed? Check the Call Barring setting. • Has a new SIM card been inserted? Check that no new restrictions have been imposed. • Check to see if you have your Fixed Dialing list enabled. If so you can only make calls to numbers or prefixes that are on the list. If you are in cellular mode you must disable this feature.
You can't receive calls.	• Check to see that your phone is powered on. • Check the antenna. Is it fully extended and rotated? Do you have a clear view of the sky? • Check the signal strength. If the signal is weak, move to an open space or, if you are in a building, move closer to a window. • Check the Call Forwarding and Call Barring settings. • Check the Ringer setting. If it is off, there is no audible ringer. • Check to see if your Fixed Dialing list is enabled. If you are in cellular mode you must disable it.

Your phone won't unlock.	• Have you inserted a new SIM card? Enter the new PIN code. • Do you have a replacement phone? Enter the default phone unlock code —1234. • Have you forgotten the unlock code? Press  to change the unlock code (you need your security code).
Your PIN is blocked.	Enter the PIN unblocking code or contact your service provider.
Your PIN2 is blocked.	Enter the PIN2 unblocking code or contact your service provider.
Your SIM card won't work.	• Is the card inserted the correct way? • Is the gold chip visibly damaged or scratched? Return the card to your service provider. • Check the SIM and phone contacts. If they are dirty, clean them with an antistatic cloth.
The battery won't charge.	• Check the charger. Is it properly connected? Are its contacts clean and dry? • Check the battery contacts. Are they clean and dry? • Check the battery temperature. If it is warm, let it cool before recharging. • Is it an old battery? Battery performance declines after several years use. Replace the battery.
You can't access your messages.	• Are you in Iridium Satellite mode? If you do not have a GSM cellular cassette, you can only access your messages from cellular mode? • Is your GSM cellular cassette inserted? In order to access messages from cellular mode, you must have a GSM cellular cassette inserted.

The battery drains faster than normal.	• Are you in an area of variable coverage? This uses extra battery power. • Is your antenna fully rotated and extended? Do you have a clear view of the sky? This helps use less battery power. • Is it a new battery? A new battery needs two to three charge/discharge cycles to attain normal performance. • Is it an old battery? Battery performance declines after several years use. Replace the battery. • Is it a battery that hasn't been completely discharged? Allow the battery to fully discharge (until the phone turns itself off) and then charge the battery overnight. • Are you using your phone in extreme temperatures? At extreme hot or cold temperatures, battery performance is significantly reduced.
You can't cancel Call Forwarding or Call Barring.	Wait until you are in an area with good network coverage and try again.
The  symbol is flashing.	There is not enough memory available to store another message. Use the Messages menu to delete one or more messages.
You can't make international calls.	• If you are in cellular mode, some service providers automatically bar the ability to make international calls. Contact your service provider. Have you included the relevant codes? Press and hold the  key to display the international dialing prefix (+) and then enter the appropriate country code followed by the phone number. Are you in a non-GSM cellular mode? You must map the international access code in order to use the  key to display the international dialing prefix (+).
You find your phone becoming warm during use.	You may notice this during long calls or during charging. The heat is produced by the electronic components within your phone and is quite normal.

Your phone has your SIM card inside but the display says:	• Check Card or Insert Card. Check that the SIM card has been inserted correctly. The contacts of the SIM card may be dirty. Turn the phone off, remove the SIM card and rub the gold chip on the card with a clean cloth. Replace the card in the phone. • Blocked or Bad Card See Supplier. Please contact your service provider.
Your phone has a Cellular Cassette installed but the display says:	• Check Cassette Check that the Cellular Cassette has been inserted correctly. • Bad Cassette See Supplier. Please contact your service provider.
You do not have a Cellular Cassette and your phone says Insert Cassette	Make sure you have the correct mode settings selected. You are either in Cellular Always mode or a Preferred mode.
You find your phone's prompts in a language other than your own.	Press , , . This routes you directly to the language selection submenu. Press  until you see your preferred language. Press  to select. You must be in Iridium satellite mode to do this.

Glossary

A

accessory connector port A socket on the bottom of the phone where you can attach accessories such as a travel charger, desktop charger, auto accessory adapter or data accessories.

airtime The amount of time you spend using a cellular or satellite system. Especially, the time between successfully placing a call and terminating a call.

AMPS Advanced Mobile Phone Service. An analog network protocol.

antenna The devices on your phone that send and receive satellite or cellular signals.

auto accessory adapter An accessory device that allows you to power your phone and charge any attached batteries from a car's cigarette lighter.

C

CDMA Code Division Multiple Access. A digital technology.

cellular A wireless personal telecommunications system which uses terrestrial base station controllers.

cellular carrier One of the two or more competing organizations in a given geographic area that owns and operates a cellular

system.

Cellular Cassette An optional module that is inserted into the Portable satellite phone and gives it access to the cellular system.

cellular mode When your phone is in this mode it is accessing the cellular system. You must have the appropriate cellular cassette installed.

cellular system The cellular equipment in a given geographic area that relays signals to and from individual cellular telephones and the landline telephone system.

clear-line-of sight In order for your phone to communicate to the satellite network, your antenna must have a clear view of the sky.

D

default A feature's original setting as pre-programmed in the factory.

DTMF See Dual Tone Multi-Frequency tones.

dual mode phone A phone designed to operate on a cellular network and the Iridium satellite network.

Dual Tone Multi-Frequency Tones The tones that your phone transmits when you press a key on the keypad. These

tones are used to access automated calling systems such as voicemail.

E

Emergency Call This feature allows you to make an emergency call even if your phone is locked by dialing 112.

F

fringe area The outermost range of a cellular system or the Iridium satellite system where signals are weak.

G

GSM Global System for Mobile Communications—A digital network protocol.

H

home system The local cellular system or satellite network where you obtain your wireless service.

home type system A cellular/satellite system of the same type as your local system. See also non-home type system, and system type.

I

In-Call Menu The menu that appears when you press  during a call. It allows you to access features like call holding.

indicator A light or icon on your phone that gives you information about your phone's status.

Iridium Satellite Mode When you are in this mode you are accessing the Iridium satellite

system. You see the  indicator.

Iridium System A system of 66 satellites that offer global communication.

L

landline The telephone system used for conventional office and home phones.

lock Use this feature to prevent unauthorized access to your satellite telephone.

lock code A four-digit code used to unlock a locked phone.

M

memory location A space in the internal Phone Book (both Phone Memory and SIM memory) where you can store a telephone number and a name. Each of the Phone's memory locations can hold up to 32 digits and 16 letters. The SIM card memory can hold up to 20 digits and 16 letters.

menu feature Any feature that can be accessed through the menu system.

menu system The hierarchical arrangement of your phone's features that allows for quick, intuitive access.

message A feature that allows the user to view pager-like alphanumeric messages.

N

name directory An alphabetical list of the names and telephone numbers you have stored into your phone's internal Phone Book.

NAMPS Narrow-Band AMPS. An analog technology.

non-GSM A cellular mode that is not GSM based. This includes AMPS/NAMPS, CDMA, and TDMA.

non-home type system A system type different from your home system. See also home type system and system type.

non-wireline A cellular carrier that is not the same company as the conventional telephone company.

O

One-Touch Dialing To use this feature, press and hold a number on the keypad, **1** through **9 wxyz** and your call is placed.

Options Menu The first level of the menu system hierarchy, which contains the six main feature menus: Phone Book, Call-Related Features, Messages, Phone Setup, Network Selection, Mode Selection, Call Meters.

P

pause A special character that tells your phone to "pause" or wait for your input before sending a group of numbers stored in memory.

PIN or PIN2 Code Personal Identification Code. A private numeric password that allows you to access your SIM card and some network services.

portable docking station An accessory for the portable phone that converts it to a speaker phone. It runs off either AC power or auxiliary batteries.

prompt A message requesting input.

Q

Quick Access Menu A set of features that is activated by pressing **↑** and a digit key (**1** to **9 wxyz**).

R

roam To use a cellular system outside of your home system, usually when you travel beyond the range of your home system. If you are roaming you see the **▲** indicator (cellular mode only).

S

scroll To move backward or forward through a list; for example: to move backward or forward through the menu system or the name directory.

security code A six-digit code used to access sensitive features.

service provider A company affiliated with a cellular or satellite carrier that provides cellular/satellite service to its customers.

SID See System Identification.

signal The radio waves that carry information between your phone and the satellite or cellular system.

SMS Short Messaging Services.

standby-time The amount of time that your phone is left powered on to receive calls.

status indicator See indicator.

submenu A secondary level of your phone's menu system hierarchy.

System Identification An up to five-digit number that identifies your home cellular system. An even number indicates a wireline system and an odd number indicates a non-wireline system.

system mode A setting that determines the system type that your cellular phone accesses (non-GSM cellular mode).

system type A designation that indicates one of two competing cellular carriers in a given geographic area. The non-wireline carriers operate on "A" block frequencies and the

wireline carriers operate on "B" block frequencies.

T

talk-time The amount of time that you spend talking on the phone.

TDMA Time Division Multiple Access. A digital technology.

toggle To switch between two possible options; for example: on vs. off.

travel charger An accessory device that allows you to power your phone and charge any attached batteries from a wall outlet.

V

volume keys Located on the side of your phone, the upper and lower volume keys are used to adjust ringer and earpiece volume.

W

wireline system A cellular carrier that is the same company as the conventional telephone company.

Index

—This symbol next to a feature name indicates that your phone must be in Iridium satellite mode to access it. To switch to Iridium satellite mode, see “Selecting a Mode” on page 145.

A

- accessing hidden features 163
- accessing the network 137
- accessories 22
- accessory connector 18
 - defined 169
- adapter
 - auto accessory 23
 - travel 22
- adding an entry 71
 - dedicated keys 70
 - menu 70
 - messages 71
- adjusting earpiece volume 55, 118
- adjusting ringer volume 55, 118
- air time
 - defined 169
- AMPS
 - defined 169
- antenna 17
 - auxiliary 23
 - care 7
 - defined 169
 - rotate 41
- attaching battery covers 27
- auto accessory adapter 23
 - defined 169
- automatic modes 148
- automatic redial 45, 55
- auxiliary antenna 23
- available characters 73

B

- batteries
 - battery charge indicator 20
 - battery covers 27
 - battery meter 92
 - caution 7
 - cautions 26
 - charging 30
 - charging tips 26
 - check power status 30
 - desktop charging 33
 - disposing of 26
 - drains too fast 167
 - full charge 30
 - graphic 22
 - inserting 28
 - low battery warning 30
 - low charge 30
 - messages 31, 92
 - removing 29, 38
 - showing the battery meter 92
 - storing 26
 - tips 26
 - using internal charger 32
 - won't charge 166
- battery charge indicator 20
- battery covers 27
 - attaching 27
 - removing 27
- buttons
 - SIM card eject 17

C

- call barring 101
- call forwarding
 - all calls 96
 - cancelling 99
 - selecting when 97
 - when unavailable 95

- call holding 51
 - switching between calls 51
- call meters 151
- Call Meters menu 151
- call muting 53
- call timers
 - audible 156
 - lifetime 159
 - repetitive 157
 - resetting all 155
 - showing all calls 155
 - showing last call 154
 - single alert 156
 - viewing in-call 158
- call waiting
 - activating 100
- calling an entry 78
- calling features 89
- can't make calls 165
- CDMA
 - defined 169
- cellular
 - defined 169
- cellular carrier
 - defined 169
- cellular cassette 145
 - defined 169
 - inserting 37
 - messages 168
 - port 18
 - removing 38
- cellular mode
 - defined 169
- cellular system
 - defined 169
- characters 73
- check mark 21
- checking battery power status 30
- clear key 17
- clearing stored information 131
- clear-line-of-sight 17
 - defined 169
- compatibility 16
- compatibility 34
- connection messages 44

- correcting an entry 72
- current state of service indicator 19
- customizing
 - Options Menu 162
 - phone features 115
 - Quick Access Menu 61, 164

D

- date
 - setting 127
 - viewing 126
- dedicated key 71
- default
 - defined 169
- desktop charger 22
- desktop charging of your battery 33
- dialing a number 43
- dialing numbers with pauses 74
- dialing special characters 45
- Display 18
- disposing of batteries 26
- DTMF
 - defined 169
- dual mode phone
 - defined 169
- Dual Tone Multi-Frequency Tones
 - defined 169

E

- emergency call
 - defined 170
 - placing 46
 - setup 132
- ending a call 49
- entering characters 72
- entering names 72
- entering pauses in numbers 74
- entering the Options Menu 58
- erasing name and number 78
- extended menus 163
 - accessing hidden features 163

activating 128

F

factory defaults 130

features overview 16

finding entry by location

dedicated keys 77

menu 77

finding entry by name 76

fixed dialing

adding an entry 82

editing an entry 83

modifying an entry 83

setting up 81

viewing list 84

fringe area

defined 170

function keys

defined 170

G

getting started 25

global voice communication 16

GSM

defined 170

GSM network selection

find new network 144

scan available networks 141

search method 142

automatic 143

manual 143

guide overview 10

H

hidden features 163

holding 51

home system 20

defined 170

home type system

defined 170

I

icon

Quick Access Menu default

icons 62

icons

display 60

quick access 21

quick access custom icons
164

In Use symbol 21

In-Call Menu 63

call holding 51

call muting 53

defined 170

Iridium Satellite Mode 63

Non-GSM Cellular Mode 63

phone flash 54

in-call timer 158

indicators 170

battery charge 20

check mark 21

current state of service 19

home system 20

In Use symbol 21

Iridium 20

no service 21

quick access 21

real time clock 20

Roam symbol 21

scroll bar 21

short message service sym-
bol 20

signal strength 20

inserting a battery 28

inserting pauses into numbers 46

inserting the cellular cassette 37

inserting the SIM card 35

international calling 44

international plug kit 23

international prefix

mapping 132

Iridium indicator 20

Iridium satellite mode 20, 140,
150

defined 170

Iridium System

defined 170

K

- key presses 10
- keypad cover 18
- keypad tones
 - selecting 119
- keys
 - clear 17
 - memory recall 17
 - memory store 17
 - menu 17
 - message 17
 - power 17
 - quick access key 17
 - scroll 17
 - volume 17, 172

L

- landline
 - defined 170
- language
 - setting 129
- last ten numbers dialed 85
- leather holster 23
- lifetime timer 159
- lock
 - defined 170
- lock code
 - defined 170
- locking phone
 - automatically 120
 - instantly 120
- low battery warning 30

M

- managing messages 110
- manual modes 150
- master clear 131
- master reset 130
- memory
 - phone 68
 - SIM 68
- memory location
 - defined 170
- memory recall key 17

- memory store key 17
- menu
 - Accessing the Network 137
 - Call Meters 151
 - Call Related Features 89
 - Messages 105
 - Network 137
 - Phone Setup 116
 - Selecting a Mode 145
- menu feature
 - defined 170
- menu key 17
- menu system
 - defined 170
- menus 57
 - personalized menus 162
- message
 - defined 170
- message key 17
- messages 105
 - adding an entry 71
 - battery 31, 92
 - connection 44
 - current state of service light 19
 - deleting 114
 - managing 110
 - notification 110
 - power on 41
 - reading 113
 - returning calls 114
 - rotate antenna 41
 - storing 110, 113
 - text 111
 - what's in one 111
- messages and prompts 10
- Messages menu 105
- mode
 - Iridium satellite 140
 - selecting 145
 - standby 41
- mode selection
 - automatic 148
 - cellular always 150
 - cellular preferred 148

- Iridium always 150
- Iridium preferred 149
- manual 150
- Mode Selection menu 145
- modifying name and number 78
- muting 53

N

- name directory
 - defined 171
- NAMPS
 - defined 171
- navigating the Options Menu 58
- Network menu 137
- networks
 - find new network 144
 - scan available 141
 - search method 142
 - automatic 143
 - manual 143
- no service 21
- non-home type system
 - defined 171
- non-wireline
 - defined 171
- notification messages
 - fax 111
 - voicemail 111

O

- one-touch dialing
 - setting up 88
 - using 88
- One-Touch Dialling
 - defined 171
- Options Menu
 - customizing 60, 162
 - defined 171
 - display icons 60
 - entering 58
 - exiting 59
 - extended menus 163
 - moving features 162
 - navigating 58

- phone response 59
- scrolling 58
- selecting options and sub-
menus 59

overview 16

P

- package contents 22
- passwords
 - changing call bar password
103
- pause
 - defined 171
- pause dialing 46, 74
- pending call drop signal
 - deactivating 94
- Personal Mailbox service 48, 97
- Phone Book 46
 - adding an entry 70
 - calling an entry 78
 - checking capacity 79
 - erasing name and number
78
 - find entry by location 77
 - find entry by name 76
 - last ten numbers dialed 85
 - menu 65
 - modifying name and number
78
 - organizing 68
 - preventing access 80
 - storing names and numbers
70
- phone calls
 - automatic redial 45, 55
- phone flash 54
- phone memory 68
- phone number 56, 86
- Phone Setup menu 116
- PIN Code
 - defined 171
- PIN code
 - changing 123
 - unblocking 123

- PIN2 code
 - changing 124
 - unblocking 125
- PIN2 is blocked 166
- placing calls
 - calling a phone book entry 78
 - dialing a number 43
 - dialling a number embedded in a message 114
 - embedded in a message 46
 - emergency calls 46
 - from the phone book 46
 - international 44
 - last ten numbers dialed 85
 - number in a message 46
 - one-touch dialing 88
- plug kit 23
- Portable Docking Station
 - defined 171
- power key 17
- power on messages 41
- powering your phone on 41
- prefixes 75
- preventing access to phone book 80
- preventing incoming calls 102
- preventing outgoing calls 101
- prompt
 - defined 171
- prompts and messages 10
- protecting SIM card with a PIN code 122
- Protecting Your SIM Card with a PIN Code 122

Q

- quick access 11, 17
- quick access icons 21
- quick access key 17
- Quick Access Menu 61
 - activating feature 61
 - changing features 164
 - custom icons 164

- customizing 61, 164
- default icons 62
- defined 171
- scrolling 61

R

- real time clock 20
- recalling entries 76
- receiving calls
 - answering 47
 - indicators 47
- redialing last number called 45
- registering with satellite network 140
- removing a battery 29
- removing battery covers 27
- removing the battery 29
- removing the cellular cassette 38
- removing the SIM card 35
- repetitive timer 157
- resetting options to defaults 130
- restricting calls 101
 - password 103
- restricting incoming calls 102
- restricting outgoing calls 101
- restricting phone use 81
- ringer tone
 - setting 119
- roam
 - defined 171
- Roam symbol 21
- rotate antenna 41

S

- safety covers 27
- safety information 7
- satellite network
 - registering 140
- scroll
 - defined 171
- scroll bar 21
- scroll keys 17
- scrolling 58
 - Quick Access Menu 61

- security code
 - changing 125
 - defined 171
- selecting a mode 145
- self tests 41
- service provider
 - defined 171
- setting phone to ring or vibrate 56, 119
- settings
 - clearing 131
 - reviewing 130
- Short message service symbol 20
- SID. *See* System ID number
- signal
 - defined 172
- signal strength 93
- Signal strength symbol 20
- SIM card 16, 34
 - changing PIN code 123
 - changing PIN2 code 124
 - deactivating PIN code 122
 - dual card capability 34
 - eject button 17
 - inserting 35
 - messages 168
 - protecting 122
 - removing 35
 - unblock PIN2 code 125
 - unblocking PIN code 123
- SIM memory 68
- single alert timer 156
- SMS
 - defined 172
- special characters 45
- special keys 17
- stand by mode 41
- standby time
 - defined 172
- status indicator
 - defined 172
- storing batteries 26
- storing names and numbers 70
- submenus 57
 - defined 172

- switching between numbers 135
- symbols 10
- System ID number
 - defined 133, 172
- system mode 133
 - defined 172
 - selecting 134
- system mode settings 133
- system type
 - defined 172

T

- talk-time
 - defined 172
- TDMA
 - defined 172
- time
 - setting 127
 - setting format 127
 - viewing 126
- timing calls 151
- tips 11
- toggle
 - defined 172
- travel charger 22
 - defined 172
- troubleshooting 165
 - battery drains fast 167
 - battery won't charge 166
 - can't cancel Call Forwarding or Barring 167
 - can't make international call 167
 - can't receive calls 165
 - can't turn power on 165
 - cellular cassette messages 168
 - message symbol is flashing 167
 - phone won't unlock 166
 - PIN is blocked 166
 - SIM card messages 168
 - SIM card won't work 166
 - wrong language in the dis-

- play 168
- your phone is hot 167
- turning the SIM card PIN On or Off 122

U

- unanswered calls 48
- unblocking PIN code 123
- unblocking SIM PIN2 code 125
- Unconditional call forwarding 62
- understanding the guide 10
- unlock code
 - changing 121
- unlocking phone 120
- user interface 16
- using the desktop charger 33
- using the internal charger 32
- using the SIM card 34

- using your phone 41

V

- vibrate 56, 119
- voicemail
 - checking 108
 - storing number 109
- volume
 - earpiece 55, 118
 - ringer 55
 - ringer volume 118
- volume keys 17
 - defined 172

W

- what's my phone number 56, 86
- wireline system
 - defined 172

Patent Information

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4121218	4616314	4741034	D306594	5083304	D337332	D354062	D368696
4138681	4617520	4742562	4912602	D324024	5230007	5384825	5510693
4193036	D286778	D295627	4918732	D324388	5230093	D356084	5511235
4254382	4626309	4746242	4922178	5095503	5233633	5402447	D369162
4302845	4628529	D295973	4945570	D325028	5235492	5406146	5513078
4312074	4629829	D295975	4954796	D325583	5237257	5406562	D369359
4327319	4630304	4751737	4959851	5109536	5239127	D357224	5519303
4329666	4630305	D296187	4963812	D325915	5241545	D357457	5519346
4369516	4633141	4761621	4963843	5113436	5241548	5410741	5524276
4369522	4636593	4764737	4965537	5117450	5241650	D357680	5524278
4378603	4636741	D297734	4972355	5121047	5241693	D357681	D370463
4390963	D288432	D297735	4972432	5122480	5242767	5428836	5530922
D269873	4648125	4777564	4972455	5122722	D339582	D359734	5542116
4398265	4649543	Re.32768	4975808	D327061	5249302	D359735	5544250
4400584	D288683	D299136	4984290	5128834	5251331	D359959	D372481
4400585	4654655	4797929	D314173	D328302	D340710	5432017	5546275
D270835	D289156	4798975	D315330	5142551	5260988	D360632	5546380
D271491	4662691	4800348	D315346	5142696	5261119	5438684	D372896
Re.31470	4667333	4802236	D315543	5146620	5262710	D361070	5551078
4431977	4668917	4809356	D315559	5148471	5263052	5442680	5559471
4434461	4670747	4811377	D315565	5148473	5276707	5446763	D374424
4455534	4672502	4811404	5004992	5148961	5278994	5448763	D374872
4462098	4680787	4827226	D315907	5150359	D343173	5448771	5572193
D275951	4681476	4827507	5008925	5150384	5280637	5453997	5574976
4484153	4683585	4829274	D316417	5152006	D344087	D362840	5577268
4485486	4692726	4837534	D316859	5157693	5287553	5457744	D375732
4486624	4704588	D301476	5017856	5163159	5287555	5459640	D375733
D276809	D292578	4843621	5018188	5164652	5287556	5463646	D375734
4491972	4706036	4845772	5020091	5166596	D344511	5465412	D375932
D277667	D292920	D302015	5020092	5175759	5301365	5469177	D375952
4504834	4710724	4851966	5020093	5175874	5321847	5475752	D376127
D278708	4711361	4868576	5028083	D332261	D348880	D365094	5588041
4523155	4715063	4870686	5028859	5182749	5349588	D365817	5589796
4546329	4716319	D303656	5029044	D332785	5359696	5486843	5590177
4550426	4716391	4876552	5029233	5185566	5361400	5487184	5594778
4551696	4723305	4879533	5031028	5187809	5363071	5488335	5594951
4564821	D294257	D305427	5036532	5193223	5365549	5488649	D377792
D282169	4727306	4896124	5053924	5195106	D352497	D366872	D377934
4571595	4727583	4897873	5057762	5195108	5366826	5493198	5604050
4573017	4730195	D305717	D320780	5201069	D353131	5493714	5606730
4574243	4734635	4904549	5059885	5204977	D353361	5497126	D378366
4585957	4736277	4905288	5060294	5210793	5375143	5497382	5613229
4602218	4737976	4905301	D322783	5214675	5375258	D367640	5613863
D284759	4740794	D306293	D322955	5222104	5379324	5499394	5615233
D285439	4741018	D306441	5081674	5222251	D354055	5506490	5621763

Other patents pending.

