APPLICANT: MOTOROLA, INC. FCC ID: IHDT6NF1

INSTRUCTION MANUAL

The following is a preliminary draft copy of the instruction manual.

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 9505 Portable 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 are 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 9505 Portable Phone!

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Safety Information

Important: Read this information before using your wireless mobile phone.

Exposure to Radio Frequency Signals

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

International agencies have set standards and recommendations for the protection of public exposure to RF electromagnetic energy.

- International Commission on Non-Ionizing Radiation Protection (ICNIRP)1996
- Verband Deutscher Elektrotechniker (VDE) DIN-0848
- United States Federal Commission, Radio Frequency Exposure Guidelines (1996)
- National Radiological Protection Board of the United Kingdom, GS 11,1988
- American National Standards Institute (ANSI) IEEE. C95. 1-1992
- National Council on Radiation Protection and Measurements (NCRP). Report 86
- Department of Health and Welfare Canada. Safety Code 6

These standards are based on extensive scientific review. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the updated ANSI standard.

The design of your phone complies with these standards when used as described under "Phone Operation."

Antenna Care

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

Phone Operation

NORMAL POSITION: Hold the phone as you would any other telephone. Make sure the antenna is extended fully and rotated to either the left or right detent. The antenna should be vertical to the ground and have a clear view of the sky.

TIPS ON EFFICIENT OPERATION: For your phone to operate most efficiently:

- Extend and rotate your antenna fully.
- Make sure the antenna has a clear view of the sky.
- 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 otherwise 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. Observe the following guidelines when using your phone while driving.

- Give full attention to driving—driving safely is your first responsibility.
- Use hands-free phone 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 equipment may not be shielded against the RF signals from your wireless phone.

Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six inches (6") 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
- should turn the phone OFF immediately if you have any reason to suspect that interference is taking place

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.

Other 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

Airline regulations prohibit using your phone while in the air.

Switch OFF your phone before boarding an aircraft.

Blasting Areas

To avoid interfering with blasting operations, turn your phone 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 and do not remove your battery when you are in any area with a potentially explosive atmosphere. Obey all signs and instructions. Sparks from your battery 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, but are not limited to: fueling areas such as gasoline stations; below deck on boats; fuel or chemical transfer or storage facilities; areas where fuel odors are present (for example, if a gas/propane leak occurs in a car or home); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you normally would be advised to turn off your vehicle engine.

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.

Overview

This chapter provides an overview of your new satellite phone.

What You Will Learn

- overview of the user's guide
- overview of the satellite phone
- overview of the phone's indicators
- overview of original Satellite Series accessories

Guide Overview

Understanding the Guide

Modes

Throughout this guide there are features that apply only to satellite mode and features that apply only to cellular mode (when you have an optional Cellular Cassette installed). For information on switching modes, see "Selecting a Mode" on page 173.

These conventions alert you to these features.

— This symbol next to a feature name indicates that your phone must be in satellite mode to access it.

— This symbol next to a feature name indicates that your phone must be in cellular mode to access it

In addition, look for the labels "Satellite Mode" or "Cellular Mode" in the margins for information related to each mode.

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.

Tips

In the margins of your guide are useful hints and ways to improve your phone's performance.

What's in the Guide

As you explore your 9505 Portable Phone, use this guide to see what key to press and what happens when you press it. Here is what you will learn in each chapter:

Chapter	Description
Getting Started	In this chapter, you will learn how to install and charge your battery. See "Getting Started" on page 27 for more information.
Using Your Phone	How do you make your first phone call? This question and many others are answered in this chapter. See "Using Your Phone" on page 43 for more information.
Using the Menus	This chapter teaches you how to navigate the menu system. See "Using the Menus" on page 69 for more information.
Managing the Phone Book	See "Managing the Phone Book" on page 75 to learn how to make the most of your phone's built-in Phone Book.
Using Calling Features	If you subscribe to Call Barring or Call Forwarding, see "Using Calling Features" on page 103 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? See "Using Message Services" on page 123 for more information.

Chapter	Description
Customizing Phone Features	See "Customizing Phone Features" on page 135 to learn how to customize your phone's features.
Accessing the Network	See "Accessing the Network" on page 163 to learn how to register with the satellite network.
Switching Modes	If you have a Cellular Cassette installed in your Portable phone, you can switch between cellular mode and satellite mode. See "Selecting a Mode" on page 173 for more information.
Timing Your Calls	View the time of your last call or set your phone to remind you after you have been talking for a certain period of time. See "+Timing Your Calls" on page 181 for more information.
Customizing the Menu System	Once you are familiar with the features in your menus, you can customize the menus to more closely fit your needs. See "+ Customizing the Menu System" on page 191 for more information.

Phone Overview



Special Keys

Key	Function
0	Turns the phone's power on and off
OK	Selects menu settings or options, or initiates and answers calls
(2)	Calls voicemail and displays messages
M+	Stores numbers in the phone book
MR	Recalls numbers from the phone book
•	Enters the Quick Access menu
MENU	Enters the Options menu and scrolls forward through menu features
•	Clears characters from the screen or exits the Options menu
•	Scrolls through the menu features

Volume Keys

The Volume keys are on the side of the phone. They adjust earpiece and ringer volume. See "Adjusting Earpiece Volume" on page 58 for more information.

Satellite Antenna

When you are in satellite mode, to answer calls, make calls, and access satellite services, make sure the antenna is rotated up to either the left or right detente 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 view of the sky.

When you are in cellular mode you do not need to extend or rotate the satellite antenna.

Satellite 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 attach the Auxiliary Antenna. You may also want to remove the antenna if you spend a lot of time in cellular mode.

Cellular Cassette Connector

Insert an optional Cellular Cassette onto the back of the phone. The Cellular Cassette connector is located underneath the battery compartment cover next to the battery. The Cellular Cassette interfaces with your 9505 Portable Phone so that you can use it on the local cellular network.

Display

Your phone's Liquid Crystal Display (LCD) displays as many as four rows of 16 characters.

ARC123

The LCD 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.

Indicators

Current State of Service Indicator

The current state of service indicator is located at the top of your phone. This LED status indicator provides information on your phone's current state of service depending on your current mode.

If the LED is	Then in satellite mode	Then in cellular mode
Alternating red and green	A call is incoming.	A call is incoming.
Flashing green	You are receiving a signal from the Iridium satellite network. You can place and receive calls.	You are receiving a signal from the cellular network. You can place and receive calls.
Flashing yellow	Your phone was not successful in registering with the satellite network and cannot receive incoming calls. Try again in a few minutes.	You are roaming.
Flashing yellow and red	Your SIM chip may be inserted incorrectly, may not be inserted, or you may be in a restricted area.	You will not see this indicator in cellular mode.
Flashing red	Service is not available.	This means that service is not available, your SIM chip is inserted incorrectly or not at all, or you may be in a restricted area.

Display Indicators

Indicator	Description
[©] ± [®] — ■ ■ ■	Signal Strength Indicator indicates the strength of the signal from the network. The signal strength indicator appears continuously in the top left hand corner of the display. The more segments displayed in the bar graph, the stronger the signal. Five bars indicate full signal strength. No bars indicate a weak signal.
(888)	Battery Charge Indicator indicates the strength of the battery charge. The more segments displayed, the greater the battery charge. When you are in satellite mode, you can also check the strength of the charge at any time through the menu. See "+ Showing the Battery Meter" on page 115 for more information.
12:00	Real Time Clock Indicator displays the time in either 12-hour or 24-hour format when you are in satellite mode. See "+ Change the Time Displayed" on page 151 for more information.
	Message Indicator appears when you receive a new message. It flashes when the SIM chip is full. See "Accessing Messages" on page 132 for additional information.
	Satellite Mode Indicator appears when your phone is in satellite mode. See "Selecting a Mode" on page 173 for more information.

Indicator	Description
â	Home System Indicator appears 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 satellite mode.
Ø	No Service Indicator appears when your phone is not capable of placing or receiving calls.
K	In Use Indicator appears when a call is in progress.
i	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.
A3f \	Quick Access Menu Icons allow you to easily identify Quick Access features as you scroll through the Quick Access menu when you are in satellite mode.

Original Satellite Series Accessories

Product appearance and specifications are subject to change without notice.



Note: For maximum performance use only Motorola original accessories.

AC Travel Charger with International Plug Kit

The AC Travel Charger with International Plug Kit provides rapid charge for optimal performance and can be used to power the phone when the battery is depleted.







Australia, India, and the United Kingdom

- May be used with both 9505 Portable Phone and Desktop Charger
- Allows use of 9505 Portable Phone while recharging the battery
- Convenient self-storing cord
- Charges StarTAC[™] wireless phone when used with optional StarTAC Adapter

Desktop Charger



The versatile, user-friendly Desktop Charger features two charger pockets to provide multiple rapid charging options.

- Front pocket charges 9505 Portable Phone or StarTAC wireless phone with batteries attached (with included plastic insert)
- Back pocket charges any Motorola Satellite Series or StarTAC wireless phone battery
- Rapid 3-hour charge time for standard battery
- At-a-glance LED indicator lights show current charging status for each charging pocket
- Requires AC Travel Charger or Auto Accessory Adapter

Solar Charger



Efficient, easy-to-use Solar Charger helps keep you in communication even in remote areas or locations with limited, erratic, or no power service.

- Uses solar power to recharge batteries or extend talk time
- Convenient, built-in stand allows angle adjustment
- Easy-to-read LCD metering system indicates optimal positioning of charging module for best performance

- Controller provides proper voltage by regulating energy flow between Solar Charger and phone
- Convenient, self-storing cable connector

Auto Accessory Adapter

Restores full battery power for 9505 Portable Phone operation or Desktop Charger functions from any operating vehicle (using standard 12-volt accessory port).



- Make and receive phone calls using the Auto Accessory Adapter for direct power when batteries are depleted
- Recharge battery while using Desktop Charger or attached to 9505 Portable Phone
- Charges StarTAC wireless phone with optional StarTAC Adapter

Batteries

Standard Capacity Lithium Ion Battery



- Provides up to 2 hours of talk time or 16 hours of standby time*
- Weighs 2.3 ounces/66 grams

High Capacity Lithium Ion Battery



- Provides up to 3.2 hours of talk time or 24 hours of standby time*
 - Weighs 3.4 ounces/98 grams

Ultra High Capacity Lithium Ion Battery



- Provides up to 5.5 hours of talk time or 48 hours of standby time*
- Weighs 7 ounces/200 grams
- All talk and standby times are approximate and depend on network configuration, signal strength and the features selected.

StarTAC Adapter



Extend your communication options using the StarTAC Adapter to charge StarTAC wireless phones via the Auto Accessory Adapter or the AC Travel Adapter.

Portable Auxiliary Antenna

From one car to another, this compact pocket-sized antenna with convenient magnetic mount goes in every vehicle you do to provide improved reception.



- use with the 9505 Portable Phone
- reliable magnetic mount, ceramic patch antenna
- attached 1.5-meter cable

Antenna Adapter

This adapter provides the required external antenna connection to use your 9505 Portable Phone with the Portable Auxiliary Antenna.



Carry Accessories

Lanyard Wrist Strap

The lanyard wrist strap is made of nylon. It provides a convenient way to carry your phone.



Cellular Cassettes



Cellular Cassettes are modules that attach to the 9505 Portable Phone and provide support for various terrestrial or land-based cellular systems. With an attached Cellular Cassette, you can make and receive calls in various cellular

modes, assuming service subscription and coverage are available.

Cellular Cassettes create an innovative blend of cellular and satellite technology in one phone.

- When attached to the back of the 9505
 Portable Phone, Cellular Cassettes enable
 dual mode satellite and cellular operation.
- Cellular Cassettes are designed to give you one flexible product that enables communication compatibility in areas that support cellular service in conjunction with satellite service.
- Cellular Cassettes enable flexible usage of cellular technologies and provide call delivery compatibility in areas that support cellular service.

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 Will Learn

- attaching the antenna
- installing and charging your battery
- installing and using your SIM chip
- installing your optional Cellular Cassette

Note: If you see a mext to a feature, the phone must be in satellite mode. If you see a mext to a feature, the phone must be in cellular mode. See "Selecting a Mode" on page 173 to change modes.

Attaching the Satellite Antenna

Attach the Antenna

- 1. Attach the antenna in the down position.
- Press and hold the button at the top of the phone.
- **3.** Push the antenna until it clicks into place and release the button.



Remove the Antenna

You may want to remove the satellite antenna to attach an auxiliary antenna, place the Portable phone in the 9570 Portable Dock, or if you spend the majority of your time in cellular mode.

- 1. Remove the antenna in the down position.
- **2. Press in the button** at the top of the phone.
- 3. Remove the antenna.



What Is a SIM Chip?

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

Note: Your phone has limited functionality without the SIM chip.

GSM SIM Chip Capability

If you already have a GSM SIM chip 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.

Note: If you are using a GSM SIM chip, you may not have access to certain features that are specific to the Iridium satellite system, and vice versa.

SIM Chip Protection

Keep your SIM chip in your wallet or purse when you're not using it. This helps keep your personal information secure and gives you access to your service even if your phone is not available. If you forget your phone, insert your SIM chip into a friend's phone to access your personal service.

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

Installing the SIM Chip

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

Insert the SIM Chip

Tip: (TEXT TO BE WRITTEN!)

(Text to be written!)

Remove the SIM Chip

(Text to be written!)

Removing the Battery Cover

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

 Lower the side opposite the latch into the cover.



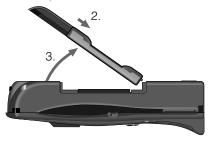
2. Slip the side with the release latch down until it clicks.

Installing the Battery

Insert the Battery

Keep in Mind: 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.

- 1. Remove or rotate the satellite antenna before installing the battery. (See "Attaching the Satellite Antenna" on page 28.)
- 2. Press and hold the release latch at the top of the battery compartment cover.
- Pull the cover upward, and then remove it from the phone.

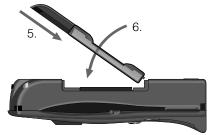


4. Insert the battery, bottom-end first, into the compartment, and then press the battery downward until it clicks into place.



Tip: The battery compartment is located on the back of the phone.

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

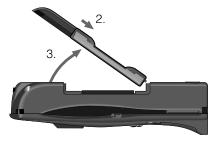


If you have an optional Cellular Cassette, go to "Installing the Cellular Cassette" on page 41.

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Remove the Battery

- 1. Remove or rotate the satellite antenna before removing the battery. (See "Attaching the Satellite Antenna" on page 28.)
- **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.

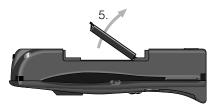


4. Press and hold the release latch at the top of the battery.

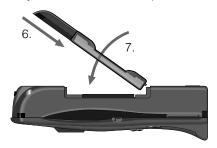


Tip: The battery compartment is located on the back of the phone.

5. Pull the battery upward and out of the phone.



- **6. Insert the bottom end** of the battery compartment cover into the slots at the end of the compartment.
- 7. Snap the cover down into place.



8. Replace the battery cover. See "Attach the Battery Safety Cover" on page 31 for more information.

Charging 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.

Using 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:

- Connect the Travel Charger to the Desktop Charger.
- Plug the Travel Charger into the appropriate power source.
- 3. Insert your phone with a battery attached.
- Insert a spare battery in the rear pocket, if desired.

(Illustration to be created!)

Using 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.

(Illustration to be created!)

2. Plug the Travel Charger or Auto Accessory Adapter into the appropriate power source. The phone beeps, flashes the **Indicator*, and displays Charsins Batters:



3. If the phone is powered on, **press 1** 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 o to exit charge-only mode and return to normal operation.

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

Checking the Battery

Low Battery Warning

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

- Low Battery appears on the display.
- A warning tone (two double beeps) sounds.

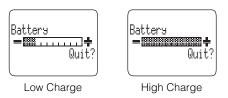
Keep in Mind: To help maintain the best battery and phone performance, recharge your battery as soon as possible after you receive the low battery warning.

Check Battery Power Status

To check your phone's power status:

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

You will see the battery charge level:



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

Satellite Mode

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.
Charsins Batters	The battery is being charged. The indicator flashes.
Fast Charse Completed	The battery has completed charging. The indicator stops flashing.
Invalid Batt.	You have an unapproved battery inserted in your phone. You are able to discharge the battery, but you cannot recharge it.

4. Press and hold to exit.

You can only view the detailed battery meter while you are in satellite mode.

Cellular Mode

Battery Information

Maximizing Battery Life

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

To ensure maximum battery life and use your battery to its fullest capacity, observe the following quidelines.

- 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.
- 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

Disposing of Batteries

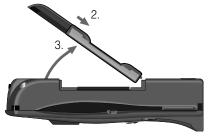
To dispose of batteries, check with your local recycling center for a battery recycler near you. Never dispose of batteries in fire.

Installing the Cellular Cassette

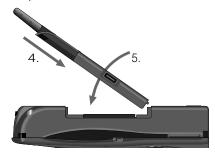
Insert the Cellular Cassette

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

- Remove or rotate the satellite antenna before installing the Cellular Cassette. (See "Attaching the Satellite Antenna" on page 28.)
- 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.



- Insert the cellular cassette, bottom-end first, into the compartment on top of the battery.
- **5. Press the cassette downward** until it clicks into place.

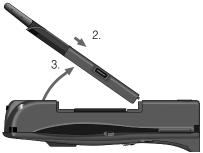


Save the battery compartment cover for future use. Tip: The phone switches between satellite mode and cellular mode based on your preferences. See "Selecting a Mode" on page 173.

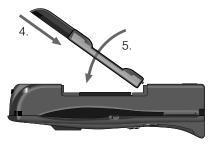
Tip: You cannot use the Ultra High Capacity battery when the Cellular Cassette is installed.

Remove the Cellular Cassette

- 1. Remove or rotate the satellite antenna before removing the Cellular Cassette. (See "Attaching the Satellite Antenna" on page 28.)
- Press and hold the release latch at the top of the cellular cassette.
- **3. Pull the cassette upward**, and then remove it from the phone.



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



If your phone was powered on when you removed 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 Will Learn

- · turning the phone's power on and off
- placing and receiving calls
- using hands-free features
- determining your own phone number

Keep in Mind: If you see a \oplus next to a feature, the phone must be in satellite mode. If you see a '' next to a feature, the phone must be in cellular mode. See "Selecting a Mode" on page 173 to change modes.

Using Your Phone Feature Overview

Your feature selection varies depending on your mode setting. The table below shows the features available in each mode. See "Selecting a Mode" on page 173 for more information on changing modes.

Feature	Satellite	GSM	CDMA/AMPS
Adjust Earpiece and Ringer Volume	•	•	•
Automatic Redial	•		
Call a Number Embedded in a Message	•		
Dial a Number	•	•	•
Dial a Number from the Phone Book	•	•	•
Dial Numbers with Pauses	•	•	•
Dial Special Characters	•	•	•
End a Call	•	•	•
Make an Emergency Call	•	•	•*
Make an International Call	•	•	• *
Multiple Key Answer	•	•	•
Pending Call Drop	•		
Personal Mailbox	•	•	
Power Up the Phone	•	•	•
Receive a Call	•	•	•
Redial Last Number Called	•	•	•
Set to Ring or Vibrate	•		
Standby Mode	•	•	•
Unanswered Call Message	•		
What's My Phone Number	•	•	•
* You must set this feature up first in the Phone Setup Menu.			

Powering Up the Phone

Turn the Power On and Off

To turn your phone's power on:

- 1. Insert your SIM chip if necessary. (See "Insert the SIM Chip" on page 30.)
- Press and hold to turn the phone on and off.

When you turn your phone's power on, you will either hear the wakeup tone or feel a vibration and see the wakeup screen. You may see a number of other power-on messages (see below).

When the \bigcirc (no service) indicator disappears and the \bigcirc (home system) indicator appears, you are ready to start calling.

Power-On Messages

Once your phone is powered on, you may see:

Message	Description
Searchins	The phone is attempting to establish communications with the satellite or cellular network. See "Accessing the Network" on page 163 for more information.
Rotate and Extend Antenna	You also hear a tone when you see this message. Make sure the antenna is rotated upward and fully extended and has a clear unobstructed view of the sky.
Rotate Antenna Resisterins	Your phone is registering with the network. When the process is complete, you will see Registered. See "Accessing the Network" on page 163 for more information.

Message	Description
Check Signal	Your phone is unable to locate or establish registration with the satellite network. Move to a location with a clearer view of the sky.
Invalid Account	Contact your service provider.
Enter Phone Unlock Code	Your phone was locked after the last use. Enter your four-digit unlock code and press of to proceed. See "Locking and Unlocking Your Phone" on page 144 for more information.
Enter PIN	Enter the four- to eight-digit SIM chip PIN code provided by your service provider and press to proceed. See "Protecting the SIM chip" on page 146 for more information.
Insert Card	Power off your phone, make sure your SIM chip is inserted completely, and then power your phone on again.
Check Card	This message indicates that the SIM chip is damaged or inserted the wrong way.
Blocked	If the SIM chip PIN code is incorrectly entered three times in a row, your phone becomes blocked. See "Unblock the PIN Code" on page 147 for instructions on how to unblock it.
⊈ Blocked	If the SIM chip PIN2 code is incorrectly entered three times in a row, your phone becomes blocked. See "+ Unblock the PIN2 Code" on page 149 for instructions on how to unblock it.
Bad Card See Supplier	Your SIM chip has been damaged or incorrectly issued. Contact your service provider for information.

Standby

To conserve energy, your phone may turn off its backlight when you have not pressed a key for several seconds. The light reappears the next time you press a key.

Holding the Phone

1. Extend the antenna by pulling out on the end of it in the down position.



2. Rotate the antenna to either the left or right detent (the antenna will stop here).



When talking on the phone, the antenna should be vertical to the ground.

3. Make sure the antenna has a clear view of the sky.

Placing a Call

To place a call, your phone must be powered on, have a SIM chip inserted, be unlocked, and be in contact with the satellite or cellular network (depending on your mode). See "Accessing the Network" on page 163 for network information.

You can enter a phone number up to a maximum length of 20 digits. The digits are displayed in two rows, 16 digits in the top line and four digits in the next line.

Dial a Number

- First, rotate and fully extend the satellite antenna if you are in satellite mode. See "Holding the Phone" on page 48
- Enter the number using the digit keys. As you begin entering digits, you will see Call?.

When you are in satellite mode, you must enter the phone number in international format: [international access code, 00, or +] [country code or Iridium country code] [phone number]

Note: If you are calling another Iridium satellite subscriber, use the Iridium code instead of the country code.

3. Press . You will see Calling followed by the number you dialed.

You will see either the flashing message Calling or the flashing messages Calling, Registering..., and the phone will play a series of setup tones.

If the call connects and is answered, Connected appears 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:

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

Message	Description
Rotate and Extend Antenna	Make sure the antenna is rotated upward and fully extended and has a clear unobstructed view of the sky.
Buss Trs Later Please Trs Later	The phone is unable to access the network. Try again in a few minutes.
Restricted Area	The phone is unable to access the network. Move to an area where calls are allowed.
Redial?	Press to redial the number automatically. See "Automatic Redial" on page 51 for more information.

International Dialing

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.

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

Note: If you are in CDMA/AMPS cellular mode, you must set up international prefix mapping in order for this feature to work. See "r Set Up an International Prefix" on page 159 for more information.

Automatic Redial

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

Press or to redial the number automatically.

Note: The maximum number of redial attempts is set by your service provider. If the call cannot be connected within this maximum, you will see the message Redial Failed.

This feature is only available in satellite mode.

Redial Last Number Called

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

- 1. Press v 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
0	Press O+.
*	Press *
† (for international calls)	Press and hold 0+.
(for pause dialing)	Press and hold *.
supplementary service numbers, PINs, and unblocking	Press #, *.

Dial a Number With Pauses

See "Using Pauses in Numbers" on page 85 for information on dialing numbers with pauses.

Satellite Mode

Cellular Mode

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
- · an entry from a location
- · an entry of a name
- one of the last ten numbers called

See "Managing the Phone Book" on page 75 for information on how to store and retrieve names and numbers from the phone book.

Make an Emergency Call

You can make an emergency call virtually 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.

To make an emergency call:



You will see the message Emergency Calling.

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

Call a Number in a Message

Satellite Mode

Cellular Mode Details on how to call a number embedded in a message are described in the "Using Message Services" section on page 134.

This feature is only available in satellite mode.

Ending a Call

To end a call, perform one of the following tasks:

- Press 🐷
- Press 😈.

What's My SIM Chip Phone Number?

Tip: Pressing

| also
| brings up your
| phone's
| number.

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

- 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 t** to exit the menu.

Note: If you do not see your phone number, the number has not been programmed onto your SIM chip. You can program your phone number onto your SIM chip by following the steps described in "+ Modify Your Phone Numbers" on page 100.

Receiving a Call

Receive a Phone Call

To receive a call, your phone must be powered on, have a SIM chip inserted, be unlocked, and be in contact with the satellite or cellular network (depending on your mode). See "Accessing the Network" on page 163 for network information.

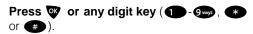
There are two scenarios for receiving calls in satellite mode, depending on the antenna position: (1) antenna raised and fully extended, or (2) antenna stowed or in the down position.

Antenna Raised and Fully Extended

When you receive a call:

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

To answer the call:



You will see Connected.

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

Message	Description
Orient Antenna Call Attempt	You need to fully extend the antenna upwards with a clear unobstructed view of the sky.
Call Failed	The antenna is not properly adjusted or the network signal is not strong enough.

Tip: See page 141 to set your phone's alert.

Antenna Stowed or in the Down Position

When you receive a call:

- The phone chirps up to three times to alert you of an incoming call.
- The phone displays Rotate Antenna, followed by Call Attempt on the next line.

You must rotate and extend the antenna as quickly as possible to receive the call.

Rotate and fully extend the antenna as described in "Placing a Call" on page 49.

You will see: Iridium Call Attempt. Do not attempt to answer until the phone rings or vibrates.

After several seconds, your phone will ring and display [all followed by Answer? on the next line.

To answer the call:

Press or any digit key (- • , • or).

You will see Connected.

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

Message	Description
Orient Antenna Call Attempt Rotate Antenna Call Attempt	You need to fully extend the antenna upwards with a clear unobstructed view of the sky.
Call Failed	The antenna is not properly adjusted or the network signal is not strong enough.

Ending a Call

To end a call, perform one of the following tasks:

- Press .
- Press 💽.

Note: If you rotate the satellite antenna down and you are in satellite mode, your call will be dropped.

Unanswered Calls

If you are away from your phone or choose not to answer a call, your phone displays the message linenswered [al]

This feature is only available in satellite mode.

Personal Mailbox

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

For information on retrieving messages, see "Accessing Messages" on page 132.

This feature is not available in CDMA/AMPS cellular mode.

Satellite Mode

Cellular Mode

Satellite Mode/ Cellular Mode (GSM)

Cellular Mode (CDMA/ AMPS)

Adjusting Earpiece Volume

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

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.



Note: You can also use the volume keys to scroll through Phone Book entries.

Adjusting Ringer Volume

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

Note: This feature behaves differently based on the mode you are in. Check your mode settings before using this feature. See "Selecting a Mode" on page 173 for more information.

To adjust the ringer volume in satellite mode:

- 1. Press until you see Phone Setup, and then press .
- 2. Press until you see Adjust Rins Volume, and then press of to select.
- 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.

Note: The adjustments you make here apply to cellular mode as well.

To adjust the ringer volume in cellular mode:

Press • and then the up or down volume kev.

Note: The adjustments you make here apply to satellite mode as well.

Satellite Mode

Tip: You can also press and then the up or down volume key to adjust ringer volume.

Cellular Mode

Using In-Call Features

Read this section to learn how to use In-Call menu features. The In-Call menu is displayed when you press during a call. See "Using The In-Call Menu" on page 74 for more information.

What You Will Learn

- · using call waiting
- · using call holding
- · using call muting

Keep in Mind: If you see a

next to a feature, the phone must be in satellite mode. If you see a

next to a feature, the phone must be in cellular mode. See "Selecting a Mode" on page 173 to change modes.

In-Call Feature Overview

The feature selection varies depending on your mode setting. The table below shows the features available in each mode. See "Selecting a Mode" on page 173 for more information on changing modes.

Feature	Satellite	GSM	CDMA/AMPS
Call Waiting	•		Service Provider*
Call Holding	•		Service Provider*
Call Muting	•		
Phone Flash			•

Your service provider may have similar or additional features.

Muting a Call

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

Satellite Mode

While in a call:

- 1. Press until you see Turn Mute on or off.
- 2. Press v to select. You will see Mute.

To unmute a call:

Press again to resume your conversation.

or

- 1. Press until you see Turn Mute on or off.
- 2. Press or to select.

This feature is only available in satellite mode.

Cellular Mode

Using Call Waiting

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

Note: This feature behaves differently based your mode. Check your mode settings before using this feature. See "Selecting a Mode" on page 173.

Satellite Mode

If you have subscribed to Call Waiting, you must first activate it through the Options menu (see "+ Activating Call Waiting" on page 118). After you activate it, 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 [all 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	1. Press .You will see End Active Call
answering the waiting call	2. Press . Your phone rings and can now be answered normally.

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

Message	Description
Treine	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.
Buse Tre Later	Your phone is working on a previous command. Wait a short time before repeating the new command.

CDMA/AMPS 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 (see "Sending a Flash" on page 68 for more information) 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.

To send a phone flash:

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

or

Press of to cancel the flash.

This feature is not available in GSM cellular mode.

Cellular Mode (CDMA/ AMPS)

Cellular Mode (GSM)

Placing a Call on Hold

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

Note: This feature behaves differently based on the mode you are in. Check your mode settings before using this feature. See "Selecting a Mode" on page 173.

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 see Hold Call.
- Press Y. Your current call is put on hold and you will see Call Holding followed by Reconnect?.

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

If you want to	Then
make a new call	 Press until you see Make New Call, and then press to select. 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 both calls	Press until you see End Active & Held Call, and then press to select. Both calls are disconnected, and the display returns to standby.
end current call	Press of at any time.

If you want to	Then
end call that is on hold	Press until you see End Held Call, and then press to select. The held call is disconnected, the current call remains connected, and you see End Call?.

You may see one of the following messages:

Message	Description
Treine	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.
Buse Tre Later	Your phone is working on a previous command. Wait a short time before repeating the new command.

To place a call on hold, you must send a phone flash (see "Sending a Flash" on page 68 for more information) along with the appropriate feature code provided by your service provider. To return to your initial call, you must send another phone flash. To send a phone flash, see page 68.

This feature is not available in GSM cellular mode.

Cellular Mode (CDMA/ AMPS)

Cellular Mode (GSM)

🖞 Sending a Flash

Satellite Mode

Cellular Mode (CDMA/ AMPS)

This feature only applies to CDMA/AMPS cellular users.

Many CDMA/AMPS network features (for example, Call Waiting, Call Holding, Call Forwarding) require you to send a "flash" over the air during a call to access them. This is similar to when you press the switch hook on your conventional phone in your home or office to switch between calls. The flash alerts the network that you want to use a particular network feature. Your service provider will provide you with 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 or to send the flash.

or

Press to cancel the flash.

Cellular Mode (GSM)

This feature only applies to CDMA/AMPS cellular users.

Using the Menus

Many of your phone's features are organized into lists of options called *menus*. There are three menus: 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 menus. Once you become familiar with these menus and their features, go to "+ Customizing the Menu System" on page 191 for instructions on how you can personalize your menus.

What You Will Learn

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

Using the Options Menus

The Options menu gives you access to the features and options included with your phone. The submenus that appear under the Options Menu vary depending on your mode setting. See "Selecting a Mode" on page 173.

Menu	Satellite	GSM	CDMA/AMPS
Phone Book	•	•	•
Call Related Features	•	•	•
Messages	•	•	
Phone Setup	•		•
Network Selection	•	•	
Mode Selection	•	•	•
Call Meters	•		

Navigate the Options Menus

Learning how to use just a few keys enables you to move freely through the entire menu system.

If you want to	Then	
enter the Options menu	Press to access the Options menu. You will see the first available submenu.	
scroll through the Options menu	Press to scroll forward. Press to scroll backward or forward.	
select options and submenus	Press of to select a menu option or submenu when that option or submenu name is displayed.	
exit features and menus	 Press of to exit the feature or submenu. Press and hold of to exit the Options menu. 	

Note: If you press and during a call, you will see the In-Call menu which is described on page 74.

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	Then
View Options?	Press to enter the submenu.
Select?	Press to select the displayed feature.
Quit?	Press v to exit the feature.

Display Messages and Icons

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 .
☐ Buse Tre Later	You may have requested information while your phone was completing another task.
Î	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 "+ Move Menu Features" on page 192.

You can only customize the menus in satellite mode.

Satellite Mode

Cellular Mode

Using the Quick Access Menu

Satellite Mode

The Quick Access menu is a way to keep your favorite menu options readily accessible. Each digit key, to we have a Quick Access feature assigned to it. See the chart on page 73 for the default setup.

If you know the number of the feature, activating that option takes only two button presses! If you do not 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 (a), and then **press** the digit key of the feature.

Scroll to the Feature

To scroll to the feature:

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

Default Quick Access Settings

The following features (and associated icons) are the default settings for the Quick Access menu.

Key	lcon	Quick Access Feature
	A	Find Name searches your Phone Book by the full name.
2 abc	('))	Check Signal checks the strength of the signal from the satellite network.
3 def	EZ"	Call Voicemail calls your Voicemail number to check your Voicemail.
4 ghi	-⊠11+	Battery Meter displays a fuel gauge indicating charge. The more bars, the greater the charge.
5 jki	₽	Lock Now locks your phone immediately.
6mno	≅ ₫≋	Vibrate On/off activates or deactivates VibreCall™ depending on the current setting
7 pqrs	₽ +	Read Messages displays the newest message received
8 tuv	f	Register Now initiates a systematic manual search for a network on which to register. You must wait three minutes between registration attempts.
9 wayz	ď	Forward On/Off activates or deactivates unconditional call forwarding depending on the current setting.

Customize the Quick Access Menu

See "+ Personalizing the Quick Access Menu" on page 194 for instructions on how to customize the menu.

The Quick Access menu is not available in Cellular Mode.

Using The In-Call Menu

This menu lets you access specific features while you are in a call. The In-Call menu is only available when you are 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.

Satellite Mode

The following options appear in satellite mode.

Type of call	Options
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 Waitins 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 Waitins End Held Call?

Cellular Mode

When you are in CDMA/AMPS cellular mode and you press during a call, you will see Flash Options followed by Select?.

There is not an in-call menu in GSM cellular mode.

Managing the Phone Book

Your satellite phone can store up to 100 names and numbers, and your SIM chip 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 Will 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

Entering the Phone Book Menu

To enter the Phone Book menu:

- 1. Press to open the Options menu.
- 2. Press (IN) to scroll forward.

or

Press to scroll backward or forward.

3. Press when you see:

Phone Book View Options?

4. Press to scroll through the submenu.

or

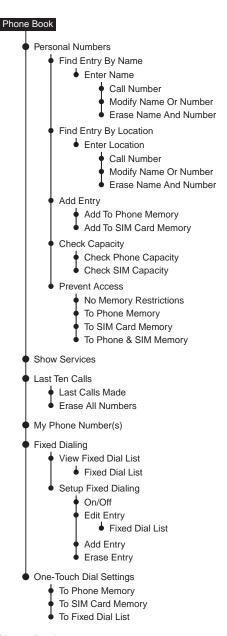
Press • to scroll backward or forward through the submenu.

What's on the Phone Book Menu?

Phone Book Personal Numbers Find Entry By Name Enter Name Call Number Modify Name Or Number Erase Name And Number Find Entry By Location Call Number Modify Name Or Number Erase Name And Number Add Entry ♠ Add To Phone Memory Add To SIM Card Memory **Check Capacity** Check Phone Capacity Check SIM Capacity Prevent Access No Memory Restrictions To Phone Memory To SIM Card Memory To Phone & SIM Memory **Show Services** Last Ten Calls Last Calls Made Erase All Numbers My Phone Number(s) Fixed Dialing View Fixed Dial List Setup Fixed Dialing On/Off Edit Entry Add Entry Erase Entry One-Touch Dial Settings To Phone Memory To SIM Card Memory

To Fixed Dial List

Satellite Mode



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 chip memory.

	Phone Memory	SIM Chip 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 chip capacity varies depending upon the card issued by your service provider.

Your phone's memory can seem overwhelming if you do not 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 will 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 (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 chip'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?

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

Use your SIM chip to store the numbers you need to keep secure, like the numbers of friends and family members. Because your SIM chip is the size of a credit card, you can easily keep it securely in your wallet when you are not using it. If you wish, you can even require a PIN code every time your SIM chip is inserted into *any* phone. (To deactivate your PIN code, see "+ Activate and Deactivate the SIM chip PIN" on page 146.) Store more public numbers, like business associates and travel agents in your phone's memory.

^{*} SIM memory is dependent on your SIM chip.

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

Add an Entry

Use the Options Menu

- 1. Follow the steps in "Getting to Personal Numbers..." to get to Add Entry, and then press ..."
- Press to scroll to Add To Phone Memory or Add To SIM Card Memory.
- 3. Press v to select. You will see Enter Number.
- 4. Enter a number, and then press . You will see Enter Name.
- Enter a name (see "Entering Names" on page 83), 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 of to select the next available location. You will see Stored XXX.

7. Press and hold to exit the menu.

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

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.

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 Phone Memory or Add To SIM Card Memory, and then press . You will see Enter Number, followed by the number you entered.
- Press to accept the number. You will see Enter Name.
- Enter a name (see "Entering Names" on page 83), and then press . You will see Enter Location
- Enter a three-digit location number, and then press . You will see Stored XXX.

or

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

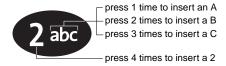
Adding Entry Messages

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.	
Ranse XXX-XX	You have chosen a memory location outside the appropriate range. Enter a new number within the range listed on the display.	
Overwrite?	You have chosen an occupied location. Press to overwrite the location or press any other key to try another location.	

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:



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.

Tip: Press and hold any numeric key to toggle between uppercase and lowercase characters.

Available Characters

Use this chart as a guide for producing characters:

```
Space . 1 ? ! , @ _ & : " ( ) ' ¿ ; % £ $
Space . 1 ? ! , @ _ & : " ( ) ' ; ; % £ $
авс 2 Ä Å à Æ В Ç
abc2äåàæβç
DEF3\DeltaÉè\Phi
def3\Deltaéè\Phi
GHI4Γì
ghi4Γì
JKL5 \Lambda
j k 1 5 Λ
миобйо́оо̀ О
mno6ñöøò\Omega
PQRS7\Pi$\Sigma
pqrs7ΠßΣ
τυν 8 Θ ΰ ὰ
tuv8Θüù
wxyz9\Xi\Psi
wхуг 9 ΞΨ
+ - 0 \times * / = > < #
+ - 0 x * / = > < #
```

The upper line for each key shows the uppercase characters. The lower line for each key shows the lowercase characters.

Using Pauses in Numbers

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 a few 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 propagation (pause) character inserted into the number entry.
- Enter the next group of numbers. For example, enter your PIN number. If the automated system requires a * or #, enter those symbols, too.
- Repeat steps 2 to 3 as many times as necessary.
- 5. To store the entry follow the procedures in "Add an Entry" on page 81.

Tip: You can store 32 characters in a phone memory location, or 20 characters in a SIM chip memory location. A pause is equal to one character.

Satellite Mode/ Cellular Mode (GSM)

Tip: Your phone displays up to 32 digits (two rows of 16 digits) when you enter a number with pauses.

Cellular Mode (CDMA/ AMPS)

Dial Numbers With Pauses

To dial a number with pauses in satellite mode or in GSM cellular mode:

- 1. Recall the entry. (See "Locating Entries" on page 88.)
- 2. Press or to place the call.

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

To dial a number with pauses in CDMA/AMPS cellular mode:

- **1. Recall the entry**. (See "Locating Entries" on page 88.)
- 2. Press v to place the call.

The first pause in the number waits until the call is answered.

The phone then waits for you to send the next set of numbers, You will see Send Disits?.

- **3. Press** w to send the next set of digits.
- Repeat step 3 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 "postscripting." 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 81.

Use a Stored Prefix

To use a stored prefix:

- Recall the prefix from your Phone Book. (See "Locating Entries" on page 88.)
- 2. Add the remaining numbers.
- 3. Press or to place the call.

Change Entry to a Similar Number

To change an entry to a similar number:

- **1. Recall the number** from your Phone Book. (See "Locating Entries" on page 88.)
- 2. Press To delete the unwanted digits.
- 3. Enter the replacement digits.
- 4. Press or to place the call.

This feature is not available in cellular mode.

Satellite Mode

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

Getting to Personal Numbers...

- 1. Press on 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.

Locating Entries

Find an Entry by Name

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

Note: If you have restricted access to either SIM chip or phone memory and you are in satellite mode, those entries will not be available. For more information, see "+ Preventing Access to the Phone Book" on page 92.

- 1. Follow the steps in "Getting to Personal Numbers..." to get to Find Entry By Name, and then press to select. You will see Enter Name.
- 2. Enter one to three characters of the entry, and then press . If necessary, scroll to the entry you are looking for.
- **3. Press** to access options for that entry, and then proceed to "Calling, Modifying, or Erasing an Entry" on page 90.

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

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 "Getting to Personal Numbers..." to get to Find Entry By Location, and then press to select. You will see Enter Location.
- Enter the location number, and then pressYou will see the entry displayed.

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 access options for that entry, and then proceed to "Calling, Modifying, or Erasing an Entry" on page 90.

Use the Dedicated Keys

- 1. Press . You will see Enter Location.
- 2. Enter the one-, two-, or 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.

 Press to call the displayed entry. You will see the number followed by Callins.

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 "Locating Entries" on page 88.
- 2. Press until you see Call Number, and then press y. You will see Calling followed by the number you dialed.

Modify a Name or Number

- **1. Find an entry**, and then **press** See "Locating Entries" on page 88.
- 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.
- 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 "Locating Entries" on page 88.
- 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 83.

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.

Checking Phone Book Capacity

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

Satellite Mode

- 1. Follow the steps in "Getting to Personal Numbers..." to get to Check Capacity, and then press of to select.
- Press until you see Check Phone Capacity or Check SIM Capacity, and then press . You will see XXX Unused Locations.
- **3. Press and hold t** to exit the menu.

This feature is only available in satellite mode.

Getting to Personal Numbers...

- 1. Press on 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

Satellite Mode

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.

Caution: If you switch to cellular mode these restrictions will not apply.

- Follow the steps in "Getting to Personal Numbers..." 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 will see Enter Security Code.
- **4. Enter security code**. Enter your six-digit security code. You will see Completed.
- **5. Press and hold t**o exit the menu.

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

Tip: The factory default security code is: 000000.

Cellular Mode

This feature is not available in cellular mode. When you switch to cellular mode, the restrictions you set in satellite mode will not apply.

Getting to Fixed Dialing...

- 1. Press 📾 until you see Phone Book, and then press 🕸.
- 2. Press to scroll to Fixed Dialins, and then press .
- **3. Press** to scroll to one of the features described below.

Restricting Phone Use

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

Activate Fixed Dialing

Use this option to activate fixed dialing. For instructions on how to store entries in the fixed dial list, see "Add an Entry" on page 94.

Note: The fixed dialing feature restricts access to your SIM memory.

- Follow the steps in "Getting to Fixed Dialing..." to get to Setur Fixed Dialing, and then press to select. You will see Enter PIN2
- 2. Enter code. Enter your SIM chip PIN2 code, and then press .
- 3. Press until you see On or Off, and then press . You will see Completed.
- **4. Press and hold** to exit the menu.

This feature is not available in cellular mode. You must deactivate this feature from satellite mode in order to make an receive calls in cellular mode.

Satellite Mode

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

Getting to Fixed Dialing...

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

Satellite Mode

Tip: Phone numbers must be in international format.

Tip: See "Entering Names" on page 83 for help entering letters.

Cellular Mode

Add an Entry

To add an entry to the fixed dial list:

- 1. Follow the steps in "Getting to Fixed Dialing..." to get to Setup Fixed Dialins, and then press of to select. You will see Enter PIN2.
- 2. Enter code. Enter your SIM chip PIN2 code, and then press .
- 3. Press until you see Add Entry, and then press V. You will see Enter Number.
- Enter the number, and then press . You will see Enter Name.
- Enter the name, and then press . You will see Enter Location.
- **6. Enter a location number**, and then **press or** . You will see Completed.
- **7. Press and hold** to exit the menu.

This feature is not available in cellular mode. You must deactivate this feature from satellite mode in order to make and receive calls in cellular mode.

Erase an Entry

To erase an entry:

- Follow the steps in "Getting to Fixed Dialing..." to get to Setur Fixed Dialins, and then press to select. You will see Enter PIN2.
- Enter code. Enter your SIM chip PIN2 code, and then press .
- 3. Press until you see Erase Entry, and then press to select. You will see the first entry in your fixed dial list.
- 4. Press to scroll to the number you wish to erase. You will see Erase?.
- 5. Press or to confirm. You will see Completed.
- **6.** Press and hold **o** to exit the menu.

This feature is not available in cellular mode. You must deactivate this feature from satellite mode in order to make and receive calls in cellular mode.

Satellite Mode

Getting to Fixed Dialing...

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

Satellite Mode

Edit an Entry

To edit an entry:

- Follow the steps in "Getting to Fixed Dialing..." to get to Setup Fixed Dialins, and then press to select. You will see Enter PIN2.
- 2. Enter code. Enter your SIM chip PIN2 code, and then press .
- 3. Press until you see Edit Entry, and then press to select. You will see the first entry in your fixed dial list.
- **4. Press** to scroll to the entry you want to change, and then **press** You will see the current number for that location.
- Enter changes to the number, and then press . You will see the current name for that location.
- **6. Enter changes** to the name, and then **press S**. You will see the current location.
- Enter a new location, and then press
 You will see Completed.
- **8. Press and hold** to exit the menu.

Cellular Mode

This feature is not available in cellular mode. You must deactivate this feature from satellite mode in order to make and receive calls in cellular mode.

Wiew Your Fixed Dialing List

This feature enables you to review, but not change, your fixed dial list.

- 1. Follow the steps in "Getting to Fixed Dialing..." to get to View Fixed Dial List, and then press or to select. You will see the first number on your fixed dial list.
- Press to scroll through the numbers on your fixed dial list.
- **3. Press and hold t** to exit the menu.

This feature is not available in cellular mode. You must deactivate this feature from satellite mode in order to make and receive calls in cellular mode.

Satellite Mode

Getting to Phone Book Features...

- 1. Press on 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, followed by 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 "Getting to Phone Book Features..." to get to Last Ten Calls, and then press v to select.
- 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 will 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 81.

Viewing and Modifying Your Phone Numbers

View Your SIM Phone Number(s)

You can program fax, data, and other types of phone numbers onto your SIM chip in addition to your voice phone number. Use this feature to view your phone number(s). You can have up to five phone numbers.

- 1. Follow the steps in "Getting to Phone Book Features..." to get to My Phone Number(s).
- 2. Press to select. You will see your phone's voice phone number followed by Modify?.
- **3. Press to scroll through your numbers.**
- **4. Press and hold 7** to exit the menu.

Note: If you do not see your phone number(s), they have not been programmed onto your SIM chip. You can program your voice phone number and other phone numbers onto your SIM chip by following the steps described in "Modify Your Phone Numbers" on page 100.

Tip: Pressing

also
brings up your
phone number.

Modify Your Phone Numbers

Satellite Mode Use this feature to modify or program your voice phone number onto your SIM chip. You can also program fax, data, and other types of phone numbers onto your SIM chip. You can have up to five phone numbers.

- 1. Complete the steps in "View Your SIM Phone Number(s)" on page 99 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.
- Enter changes to the name (see "Entering Names" on page 83) and then press . You will see Stored.
- **5. Press and hold t**o exit the menu.

Cellular Mode This feature is not available in cellular mode. However, the modifications you make to your number(s) in satellite mode are available in cellular mode.

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, followed by Select?.

Using One-Touch Dialing

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.

Satellite

Mode

Set Up One-Touch Dialing

- 1. Follow the steps in "Getting to Phone Book Features..." to get to One-Touch Dial Settins, and then press of 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 of 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.

One-touch dialing features are only available from satellite mode.

Tip: You do not need to press to call the number when you are using one-touch dialing.

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, followed by Select?.

Viewing Service Dialing Numbers

The Show Services feature provides a read-only list of service dialing numbers that are pre-programmed by your service provider. This list resides on the SIM chip and allows for call placement only.

- 1. Follow the steps in "Getting to Phone Book Features..." to get to Show Services.
- 2. Press to select. You will see a list of service phone numbers.
- 3. Press to scroll to the number you are looking for.
- Press to place a call to that number.

Press and hold of to exit the menu.

Note: If you do not see any service dialing number(s), they have not been programmed onto your SIM chip. Contact your service provider for more information.

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 Will 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 are not available
- · restricting use of your phone

Keep in Mind: If you see a \oplus next to a feature, the phone must be in satellite mode. If you see a n next to a feature, the phone must be in cellular mode. See "Selecting a Mode" on page 173 to change modes.

Entering the Call Related Features 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:

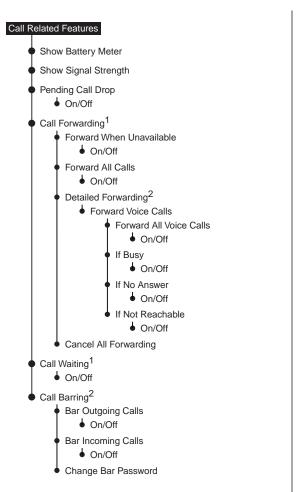
Call Related Features View Options?

4. Press to scroll through the submenu.

or

Press • to scroll backward or forward through the submenu.

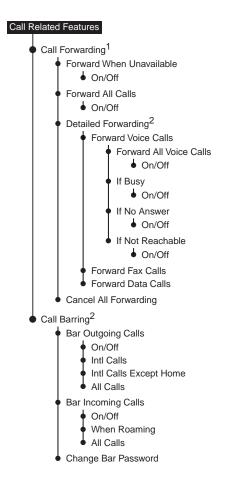
What's on the Call Related Features Menu?



Satellite Mode

- 1 These features are network and subscription dependent.
- 2 These features are network and subscription dependent. They are available only when the extended menu is activated.

Cellular Mode (GSM)



- 1 This feature is network and subscription dependent.
- 2 These features are network and subscription dependent. They are available only when the extended menu is activated.

Cellular This menu is not available in CDMA/AMPS cellular mode.

Mode (CDMA/ AMPS)

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.

Forwarding Calls When Unavailable

Use this feature when you can't answer a call. You must subscribe to this network feature through your service provider(s).

Note: This feature behaves differently based on your mode. Check your mode settings before using this feature. See "Selecting a Mode" on page 173.

To activate this feature in satellite mode:

- Follow the steps in "Getting to Call Forwarding..." to get to Forward When Unavailable, and then press or to select.
- 2. Press to scroll to On or Off, and then press to select.
 - If you select Un, continue with step 3.
 - If you select Off, continue with step 5.
- Press to scroll to Voicemail or Other Number, and then press to select.
 - If you select Voicemail, continue with 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, then you will see Call Forward On.
- **5. Press and hold 7** to exit the menu.

Satellite Mode

Tip: If you have not yet stored a voicemail number, go to page 129 to learn how.

Getting to Call Forwarding...

- 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.

Cellular Mode (GSM)

- 1. Follow the steps in "Getting to Call Forwarding..." to get to Forward When Unavailable, and then press or to select.
- 2. Press to scroll to ûn or ûff, and then press of to select.
 - If you select On, you will see Enter Number. Continue with **step 3**.
 - If you select Off continue with 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, then you will see Call Forward On.
- **4. Press and hold t**o exit the menu.

Cellular Mode (CDMA/ AMPS) To activate Call Forwarding features in CDMA/AMPS cellular mode, you must send a phone flash along with the appropriate feature code provided by your service provider. See "Sending a Flash" on page 68 for more information.

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?
- Enter the access code for the feature you want to access, if necessary, and then press to send the flash.

or

Press of to cancel the flash.

Forwarding All Your Calls

When you select this option, all your calls are forwarded to the number you choose. Your phone does not ring. You must subscribe to this network feature through your service provider(s).

To activate this feature in satellite mode:

- Follow the steps in "Getting to Call Forwarding..." to get to Forward All Calls, and then press to select.
- 2. Press to scroll to either On or Off, and then press of to select.
 - If you select On, continue with step 3.
 - If you select Off, continue with step 5.
- 3. Press to scroll to Voicemail or Other Number, and then press of to select.
 - If you select Voicemail, continue with **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** .

Your phone takes a moment to request the setting from the network, and then you will see [all Forward fin.

5. Press and hold to exit the menu.

Satellite Mode

Tip: If you have not yet stored a voicemail number, go to page 129 to learn how

Getting to Call Forwarding...

- 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.

Cellular Mode (GSM)

To activate this feature in GSM cellular mode:

- 1. Follow the steps in "Getting to Call Forwarding..." to get to Forward All Calls, and then press w to select.
- 2. Press to scroll to either On or Off, and then press to select.
 - If you select On, you will see Enter Number. Continue with **step 3**.
 - If you select Off, continue with step 4.
- **3. Enter the number** you want all your calls forwarded to, and then **press** •.

Your phone takes a moment to request the setting from the network, then you will see Call Forward On.

4. Press and hold to exit the menu.

Cellular Mode (CDMA/ AMPS) To activate this feature in CDMA/AMPS cellular mode, see "Forwarding Calls When Unavailable" on page 107.

Using Detailed Call Forwarding

Detailed Call Forwarding lets you select the specific situations when you want your calls forwarded. The settings you select in Forward When Unavailable and Forward All Calls override the settings you select here.

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

Note: This feature is available only when the extended menus are activated. See "+ Activating Extended Menus" on page 153 for more information.

Voice Calls

To activate this feature in satellite mode:

- Follow the steps in "Getting to Call Forwarding..." to get to Detailed Forwardins, and then press to select.
- 2. Press to scroll to Forward Voice Calls, then press of to select.
- Press to scroll to the option you desire: Forward All Voice Calls, If Buss, If No Answer, or If Not Reachable
- **4. Press** v to select the displayed option.
- Press to scroll to either Voicemail or Other Number, and then press .
 - If you select Voicemail, continue with **step** 7.
 - If you select Other Number, then you will see Enter Number. Continue with **step 6**.
- 6. 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.
- **7. Press and hold** to exit the menu.

Satellite Mode

Tip: For information on retrieving messages, see "Accessing Messages" on page 132.

Tip: If you have not yet stored a voicemail number, go to page 129 to learn how

Getting to Call Forwarding...

- 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.

Cellular Mode (GSM)

To activate this feature in GSM cellular mode:

- 1. Follow the steps in "Getting to Call Forwarding..." to get to Detailed Forwardins, and then press or to select.
- 2. Press to scroll to Forward Voice Calls, then press to select.
- Press to scroll to the option you desire: Forward All Voice Calls, If Buss, If No Answer, or If Not Reachable.
- **4.** Press **ov** 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 select Forward All Voice Calls or If No Answer, 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 **o** to exit the menu.

Cellular Mode (CDMA/ AMPS) To activate this feature in CDMA/AMPS cellular mode, see "Forwarding Calls When Unavailable" on page 107.

Fax and Data Calls

The Forward Fax Calls and Forward Data Calls features are only available in GSM cellular mode.

To forward a fax or data call from GSM Cellular mode:

- Follow the steps in "Getting to Call Forwarding..." 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.
- 3. Press to scroll to On or Off. If you select On continue with step 4, otherwise continue with step 5.
- **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 displays Call Forward On.
- **5. Press and hold t**o exit the menu.

To activate this feature in CDMA/AMPS cellular mode, see "Forwarding Calls When Unavailable" on page 107.

Satellite Mode

Cellular Mode (GSM)

Cellular Mode (CDMA/ AMPS)

Getting to Call Forwarding...

- 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.

Canceling All Forwarding

Use this option to clear all Call Forwarding settings.

Satellite Mode/ Cellular Mode (GSM) To cancel Call Forwarding settings:

1. Follow the steps in "Getting to Call Forwarding..." to get to Cancel All Forwardins, and then press or to select.

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

2. Press and hold of to exit the menu.

Cellular Mode (CDMA/ AMPS) To activate this feature in CDMA/AMPS cellular mode, see "Forwarding Calls When Unavailable" on page 107.

Getting to Call Related Features...

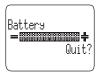
- 1. Press until you see Call Related Features, and then press .
- **2. Press** to scroll to one of the features described below. You will see the feature name, followed by Select?.

Showing the Battery Meter

Use this feature to view the charge on your battery.

- 1. Follow the steps in "Getting to Call Related Features..." to get to Show Batters Meter.
- 2. Press of to select. You will see the battery meter fuel gauge. The more segments filled, the greater your battery's charge:





Low Charge

High Charge

You may also see one of the following messages:

Message	Description
Not Available	The battery meter doesn't appear because a battery is not installed; the phone is operating from external power.
Charsins Batters	The battery is being charged
Fast Charse Completed	The battery has completed charging.

3. Press and hold to clear the display.

This feature is only available from satellite mode.

Cellular

Mode

Satellite Mode

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, followed by Select?.

Showing Signal Strength

Satellite Mode

Use this feature to check the strength of the signal that your phone is receiving from the Iridium satellite network

- 1. Follow the steps in "Getting to Call Related Features..." to get to Show Signal Strength.
- 2. Press to select. You will see Checking Signal....

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

The signal strength indicator is located in the upper left corner of the display:

Signal strength is sampled every four to five seconds; the indicator shows the average strength for the last three samples. The more segments displayed in the bar graph, the stronger the signal. Five bars indicate full signal strength. The indicator shows the tower icon but no bars when the signal is weak.

3. Press and hold to exit the menu.

Cellular Mode This feature is only available from satellite mode.

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.

Satellite Mode

To deactivate the alert tones:

- Follow the steps in the "Getting to Call Related Features..." to get to Pendins Call Drop, and then press to select.
- 2. Press to scroll to either Un or Uff, and then press of to select.
- **3. Press and hold t**o exit the menu.

This feature only applies in satellite mode.

Cellular Mode

Getting to Call Related Features...

- 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, followed by Select?.

Activating Call Waiting

Satellite Mode

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:

- Follow the steps in "Getting to Call Related Features..." to get to Call Waitins, and then press to select.
- 2. Press to scroll to Un or Uff, and then press to select the desired option.
- 3. Press and hold of to exit the menu.

For information on using call waiting, see "Using Call Waiting" on page 64.

Cellular Mode (CDMA/ AMPS)

Cellular Mode (GSM) CDMA/AMPS users do not have to activate Call Waiting through the menu system. For information on using Call Waiting in CDMA/AMPS cellular mode, see "Using Call Waiting" on page 64.

This feature is not available in GSM cellular mode.

Getting to Call Barring...

- Press until you see Call Related Features, and then press
- 2. Press to scroll to Call Barrins, and then press .
- **3. Press** to scroll to one of the features described below. You will see the feature name, followed by Select?.

Restricting Calls with Call Barring

You can use call barring to restrict both incoming and outgoing calls. Call barring is useful if you are 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.

Note: This feature is available only when the extended menus are activated. See "+ Activating Extended Menus" on page 153 for more information.

Bar Outgoing Calls

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

To activate this feature in satellite mode:

- 1. Follow the steps in "Getting to Call Barring..." to get to Bar Outsoins Calls, and then press or to select.
- 2. Press to scroll to ûn or ûff, and then press to select. You will see Enter
- 3. Enter your bar password, and then press . You will see Completed.
- **4. Press and hold** to exit the menu.

Satellite Mode

Tip: Your service provider gives you a bar password.

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, followed by Select?.

Cellular Mode (GSM)

To activate this feature in GSM cellular mode:

- 1. Follow the steps in "Getting to Call Barring..." to get to Bar Outsoins Calls, and then press voto select.
- 2. Press to scroll to Intl Calls, Intl Calls
 Except Home, All Calls, or Off, and then press
 to select. 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.

Cellular Mode (CDMA/ AMPS) This feature is not available in CDMA/AMPS cellular mode.

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 "Using Detailed Call Forwarding" on page 111.

To activate this feature in satellite mode:

- 1. Follow the steps in "Getting to Call Barring..." to get to Bar Incomins Calls, and then press of to select.
- 2. Press to scroll to ûn or ûff, and then press v to select.

You will see Enter Password.

- 3. Enter your bar password, and then press . You will see Completed.
- **4. Press and hold 7** to exit the menu.

To activate this feature in GSM cellular mode:

- 1. Follow the steps in "Getting to Call Barring..." to get to Bar Incomins Calls, and then press w to select.
- Press to scroll to When Roamins, All Calls, or Off, and then press to select. 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.

This feature is not available in CDMA/AMPS cellular mode.

Satellite Mode

Tip: Your service provider gives you a bar password.

Cellular Mode (GSM)

Tip: Your service provider gives you a bar password.

Cellular Mode (CDMA/ AMPS)

Getting to Call Barring...

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

Satellite Mode/ Cellular Mode (GSM)

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

Cellular Mode (CDMA/ AMPS)

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 "Getting to Call Barring..." to get to Change Bar Password, and then press to select. You will see Enter Password
- 2. Enter your 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.

This feature is not available in CDMA/AMPS cellular mode.

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 satellite mode and GSM cellular mode unless otherwise indicated.

What You Will Learn

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

Keep in Mind: If you see a mext to a feature, the phone must be in satellite mode. If you see a mext to a feature, the phone must be in cellular mode. See "Selecting a Mode" on page 173 to change modes.

Entering the Messages 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.

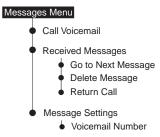
Messages Services Feature Overview

The feature selection in the Messages menu varies depending on your mode setting. The table below shows the features available in each mode. See "Selecting a Mode" on page 173 for more information on changing modes.

Feature	Satellite	GSM	CDMA/AMPS
Call a Number Embedded in the Message	•		
Check Voice Mail	•		
Delete a Message	•	•	
Go to Next Message	•	•	
Message Notification	•	•	
Read A New Message	•	•	
Read A Stored Message	•	•	
Store Voice Mail Number	•		

What's on the Messages Menu?

Satellite Mode



Messages Menu

Received Messages

Go to Next Message

Delete Message

Cellular Mode (GSM)

This menu is not available in CDMA/AMPS cellular mode.

Cellular Mode (CDMA/ AMPS)

1-2: Getting to Message Features...

- 1. Press (a) to enter the Messages menu.
- 2. Press to scroll to one of the features described below. You will see the feature name, followed by Select?.

Checking Your Voicemail

Satellite Mode

This feature makes checking your voicemail simple.

- 1. Follow the steps in "1-2: Getting to Message Features..." to get to Call Voicemail.
- 2. Press or to select. You will see your voicemail number followed by Callins.

If you have not previously stored a Voicemail Number, then you will see No Number Available. See page 129 to enter a number.

Cellular Mode

This feature is not available in cellular mode.

Storing Your Voicemail Number

To store a voicemail number:

- Follow the steps in "1-2: Getting to Message Features..." 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, continue with to step 4.
- Press to clear one digit at a time, or press and hold to erase the entire number.
- Enter the new number, and then press
 You will see Completed
- **5.** Press and hold **t** to exit the menu.

This feature is not available in cellular mode.

Satellite Mode

Tip: Use pause dialing to store your voicemail access and PIN numbers together. See "Using Pauses in Numbers" on page 85.

Cellular Mode

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 141 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

Messase Read Now? is displayed if the message is an alphanumeric, text message of up to 160 characters. For more information see "Read a New Message" on page 132.

How Messages Are Stored

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

If the message indicator is flashing, your SIM chip is full. See "Delete Messages" on page 133 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 57.

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 o to access the Messages menu.
- 2. Press to scroll to Received Messages, and then press to select.
- **3.** Press to scroll to one of the features described below.

Accessing Messages

Satellite Mode/ Cellular Mode (GSM)

Read a New Message

Note: If you are in cellular mode and you remove your GSM Cellular Cassette you are not able to access your messages. Switch to 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 w to store it on your SIM chip.
- **Press** to delete it.

Text Messages

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

1. Press w and continue with step 2.

or

Press to read the message later. See "Read a Stored Message" on page 133."

- 2. Press or to move forward through a message one screen at a time.
- **3. Press** of to access options for that entry, then proceed to page 134.

Cellular Mode (CDMA/ AMPS) This feature is not available in CDMA/AMPS cellular mode.

Read a Stored Message

To read a stored message:

- Follow the steps in "1-2-3: Accessing Your Messages..." 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 of to access options for that entry, and then proceed to page 134.

or

Press and hold to exit the menu.

This feature is not available in CDMA/AMPS cellular mode.

Cellular Mode (CDMA/ AMPS)

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 Messase, and then press . You will see Messase Deleted.
- **3. Press and hold t**o exit the menu.

This feature is not available in CDMA/AMPS cellular mode.

Satellite Mode/ Cellular Mode (GSM)

Cellular Mode (CDMA/ AMPS)

Satellite Mode/ Cellular Mode (GSM)

Satellite Mode/ Cellular Mode (GSM)

Go to the Next Message

To go to the next message:

- **1. Follow the steps** in "Read a Stored Message" on page 133.
- 2. Press until you see Go To Next Message and then press or.

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.
- Repeat steps 2 to 3 until you have read all your messages.
- **5. Press and hold** to exit the menu.

This feature is not available in CDMA/AMPS cellular mode.

Cellular Mode (CDMA/ AMPS)

Satellite Mode

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. If a callback number is not included, your phone selects the first number in the message.

- 1. Follow the steps in "Go to the Next Message" on page 134 to display the desired message, and then press ...
- 2. Press until you see Return Call, and then press . You will see the number followed by Call?.
- 3. Press to place a call to that number. You will see the number followed by Callins.

Cellular Mode

This feature is not available in cellular mode.

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 Will 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

Entering the Phone Setup Menu

To enter the Phone Setup menu (satellite mode and CDMA/AMPS 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.

Phone Setup Feature Overview

The Phone Setup feature selection varies depending on your mode setting. The table below shows the features available in each mode. See "Selecting a Mode" on page 173 for more information on changing modes.

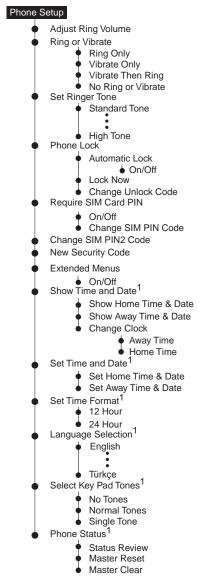
Feature	Satellite	GSM	CDMA/AMPS
Activate Extended Menus	•		
Activate/Deactivate PIN Code	•		
Adjust Ringer Volume**	•	•	•
Change Clock Display	•		
Change PIN Code	•		
Change Unlock Code	•		
Change/Unblock PIN2 Code*	•		
Emergency Number Mapping			•
International Prefix Mapping			•
Lock the Phone	•		
Master Clear/Master Reset	•		
Review Phone Settings	•		
Select Display Language	•		
Select Keypad Tones	•		
Select System Mode			•
Set Phone to Ring or Vibrate	•		
Set Ringer Tone	•		
Set Time and Date Format	•		
Switch Between Numbers			•
Unblock PIN Code*	•	•	•
Unlock the Phone*	•	•	•
View/Set Time and Date	•		
* Those feetures are not account through			1

^{*} These features are not accessed through the menu system

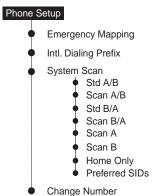
^{**} This feature is not available through the menu in cellular mode.

What's on the Phone Setup Menu?

Satellite Mode



¹ This feature is available when the Extended Menu is active.



Cellular Mode (CDMA/ AMPS)

This menu is not available in GSM cellular mode.

Cellular Mode (GSM)

1-2: Getting to Phone Setup...

- 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, followed by Select?.

Adjusting the Ringer Volume

Satellite Mode

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

- 1. Follow the steps in "1-2: Getting to Phone Setup..." to get to Adjust Ring Volume, and then press voto 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.

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

To adjust the ringer volume in cellular mode:

Press • and then the up or down volume key.

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

Tip: You can also press

, and then

• , and then the up or down volume kev.

Cellular Mode

Setting the Phone to Ring or Vibrate

This feature is ideal for situations where a ringing phone is inappropriate or in noisy places where you might not hear the ringer. The vibrating alert notifies you of incoming calls by discreet vibrations.

- 1. Follow the steps in "1-2: Getting to Phone Setup..." to get to Rins or Vibrate, and then press to select.
- Press to scroll to Rina Onla, Vibrate Onla, Vibrate then Rina, or No Rina or Vibrate, and then press to select the displayed option. You will see Completed.
- **3. Press and hold** of to exit the menu.

You cannot set this feature in cellular mode. You must set this feature from satellite mode. However, the settings you select in satellite mode will apply in cellular mode.

Satellite Mode

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

Cellular Mode

1-2: Getting to Phone Setup...

- 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, followed by Select?.

Setting the Ringer Tone

Satellite Mode

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

- 1. Follow the steps in "1-2: Getting to Phone Setup..." to get to Set Rinser Tone, and then press to select.
- 2. Press to scroll through the options Standard Tone, Sinsle Rins Tone, British Tone, French Tone, German Tone, Bravo Tone, Three Rins Tone, Siren Tone, Quick Tone, or Hish Tone.

You hear a one ring cycle demonstration.

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

Cellular Mode

You cannot set this feature in cellular mode. You must set this feature from satellite mode. However, the settings you select in satellite mode will apply in cellular mode.

Setting the Keypad Tones

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

- 1. Follow the steps in "1-2: Getting to Phone Setup..." to get to Select Keypad Tones, and then press to select.
- 2. Press to choose Normal Tones, Sinale Tone, or No Tones, and then press .
- 3. Press and hold of to exit the menu.

You cannot set this feature in cellular mode. You must set this feature from satellite mode. However, the settings you select in satellite mode will apply in cellular mode.

Satellite Mode

Cellular Mode

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

- 1. Press until you see Phone Setup, and then press .
- 2. Press to scroll to 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

Satellite Mode

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

- 1. Follow the steps in "1-2-3: Getting to Phone Lock..." to get to Automatic Lock, and then press of 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.

Cellular Mode

You cannot set this feature in cellular mode. You must set this feature from satellite mode. However, the settings you select in satellite mode will apply in cellular mode.

Lock the Phone Instantly

Satellite Mode

Use this feature to lock your phone immediately.

- **1. Follow the steps in** "1-2-3: Getting to Phone Lock..." to get to Lock Now.
- 2. Press v to select. You will see: Locked.

Cellular Mode

You cannot set this feature in cellular mode. You must set this feature from satellite mode. However, the settings you select in satellite mode will apply in cellular mode.

Unlock the Phone

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

Change the Unlock Code

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

- Follow the steps in "1-2-3: Getting to Phone Lock..." to get to Chanse Unlock Code, and then press to select. You will see Enter Security Code.
- 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.
- 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 o** to exit the menu.

You cannot change this feature in cellular mode. You must change this feature from satellite mode. However, the changes you select in satellite mode will apply in cellular mode.

Tip: The factory default unlock code is 1234.

Satellite Mode

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 to scroll to 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 chip

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

Satellite Mode

Activate and Deactivate the SIM chip 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** "1-2-3: Getting to Require SIM Card PIN..."
- 2. Press to scroll On or Off, and then press

 v. You will see Enter PIN.
- 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.

Cellular Mode

You cannot activate this feature in cellular mode. You must activate this feature from satellite mode. However, once you activate this feature in satellite mode, it will be active in cellular mode as well.

Change the SIM PIN Code

To choose your own PIN code:

- Follow the steps in "1-2-3: Getting to Require SIM Card PIN..." to get to Change SIM PIN Code, and then press to select. You will see Enter Old PIN.
- Enter the current PIN code, and then press
 You will see Enter New PIN.
- 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 t** to exit the menu.

You cannot change this feature in cellular mode. You must change this feature from satellite mode. However, the changes you make in satellite mode will apply in cellular mode.

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 **, **, O+, 5M, **.
- 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 .

Satellite Mode

1-2: Getting to Phone Setup...

- 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, followed by 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

Satellite Mode 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.

- Follow the steps in "1-2: Getting to Phone Setup..." to get to Chanse SIM Card PIN2 Code, and then press to select. You will see Enter 01d PIN2.
- 2. Enter the current PIN2 code, and then press . You will see Enter New PIN2.
- Enter new PIN2 code, and then press
 You will see Repeat New PIN2.
- 4. Re-enter the new PIN2 code, and then press again. You will see Completed.
- **5. Press and hold** to exit the menu.

Cellular Mode You cannot change this feature in cellular mode. You must change this feature from satellite mode. However, the changes you make in satellite mode will apply in cellular mode.

Unblock the PIN2 Code

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

- 1. Press **, **, 0+, 5 kl, 2 abc, **.
- 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 .

You cannot unblock the PIN2 code from cellular mode.

Change the Security Code

The security code is your phone's primary security number. You use it to reset your phone to its default settings and prevent access to your phone book. It is originally set to 000000.

- 1. Follow the steps in the "1-2: Getting to Phone Setup..." to get to New Security Code, and then press or to select. You will see Enter Security Code.
- Enter the current security code, and then press . You will see Enter New Security Code.
- 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.

You cannot change this feature in cellular mode. However, the changes you make to this feature from satellite mode will apply in cellular mode. Satellite Mode

Cellular Mode

Satellite Mode

1-2: Getting to Phone Setup...

- 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, followed by Select?.

Managing Time and Date Settings

Wiew the Time and Date

Satellite Mode

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

- 1. Follow the steps in "1-2: Getting to Phone Setup..." to get to Show Time and Date, and then press v 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.

Cellular Mode

This feature is not available in cellular mode.

Change the Time Displayed

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

- Follow the steps in "1-2: Getting to Phone Setup..." 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 v to select.
- **4. Press and hold** to exit the menu.

This feature is not available in cellular mode.

Cellular Mode

Set the Time Format

You can choose a12-hour or 24-hour time format.

- Follow the steps in "1-2: Getting to Phone Setup..." 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.

This feature is not available in cellular mode.

Satellite Mode

Satellite

Mode

1-2: Getting to Phone Setup...

- 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, followed by Select?.

Satellite Mode

Tip: The time displayed (home or away) on the real time clock indicator is the one you selected on page 151.

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 "1-2: Getting to Phone Setup..." to get to Set Time and Date, and then press of 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 or 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.

Cellular Mode

This feature is not available in cellular mode.

Activating Extended Menus

This feature activates and deactivates the Extended Menus. See page 192 to learn how Extended Menus can make your phone even simpler to use.

Satellite Mode

- Follow the steps in "1-2: Getting to Phone Setup..." 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.

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

This feature is not available in cellular mode. You will see all of the available cellular menu options when you are in cellular mode, regardless of whether this feature is active or not

1-2: Getting to Phone Setup...

- 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, followed by Select?.

Selecting the Display Language

Satellite Mode

Your phone contains 21 languages. These languages are (in alphabetical order): Chinese (Simplified), Chinese (Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish.

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

- Follow the steps in "1-2: Getting to Phone Setup..." to get to Lansuage 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.

If you accidentally change the language of your phone's display, press and hold the key to return to the idle display, then press (key to return directly to the language selection submenu.

Cellular Mode

You cannot select this feature in cellular mode. You must select this feature from satellite mode. However, the selection you make will apply in cellular mode.

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

- 1. Press until you see Phone Setup, and then press .
- 2. Press to scroll to 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.

- Follow the steps in "1-2-3: Getting to Phone Status..." 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.

This feature is not available in cellular mode.

Satellite Mode

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

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

Reset Options to Factory Defaults

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

- resets audible call timers, the in-call display meter, and the automatic lock
- resets 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
- reset cellular mode (CDMA/AMPS) emergency number and international prefix
- resets mode selection (this may cause the phone to switch modes)

To reset all settings:

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

You cannot reset your settings from cellular mode. However, when you reset your setting from satellite mode, you cellular cassette settings are reset as well.

Satellite Mode

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 "1-2-3: Getting to Phone Status..." 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 t**o exit the menu.

You cannot clear your settings from cellular mode. However, when you clear your setting from satellite mode, you cellular cassette settings are cleared as well

Satellite Mode

Tip: The factory default security code is 000000.

1-2: Getting to Phone 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, followed by Select?.

🖞 Cellular Mode Settings

Satellite Mode

Cellular Mode (CDMA/ AMPS)

Cellular Mode (GSM)

Y Set Up the Emergency Number

This feature does not apply to satellite mode. You will not see this menu option in this mode.

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

- 1. Follow the steps in "1-2: Getting to Phone Setup..." to get to Emergency Mapping, and then press v to select. You will see Enter Number?
- Enter number. Enter your local emergency number and then press .
- 3. Press and hold of to exit the menu.

This feature does not apply to GSM cellular mode. You will not see this menu option in this mode.

🖞 Set Up an International Prefix

This feature does not apply to satellite mode. You will not see this menu option in this mode.

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

- 1. Follow the steps in "1-2: Getting to Phone Setup..." to get to Intl. Dialing Prefix, and then press or 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.

This feature does not apply to GSM cellular mode. You will not see this menu option in this mode.

Satellite Mode

Cellular Mode (CDMA/ AMPS)

Cellular Mode (GSM)

1-2: Getting to Phone 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, followed by Select?.

Satellite Mode

Cellular Mode (CDMA/ AMPS)

🖞 System Scan

This feature does not apply to satellite mode. You will not see this menu option in this mode.

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

Select a System Scan Method

Your system ID is shown on your 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.

- Follow the steps in "1-2: Getting to Phone Setup..." 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 page 161 for a detailed description of these settings.

3. Press and hold to exit the menu.

System Scan Settings

Standard Mode	 Your phone first seeks a home type system, then a non-home type system. If home system is non-wireline (type A), you will see Std A/B. If home system is wireline (type B), you will see Std B/A. 		
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 Scan B/A. If home system is wireline (type B), you will see Scan A/B.		
Home Only Mode	Your phone does not operate outside its home system. You see will Home Only.		
Scan A Mode	You phone operates only within non-wireline (A) systems. You will see Scan H.		
Scan B Mode	Your phone operates only within wireline (B) systems. You will see Scan B.		
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 Preferred SIDs.		

This feature does not apply to GSM cellular mode. You will not see this menu option in this mode.

Cellular Mode (GSM)

1-2: Getting to Phone 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, followed by Select?.

Satellite Mode

Cellular Mode (CDMA/ AMPS)

Switching Phone Numbers

This feature does not apply to satellite mode. You will not see this menu option in this mode.

Your phone can operate on four different home systems depending on your Cellular Cassette. 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 "1-2: Getting to Phone Setup..." 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 t** to exit the menu.

This feature does not apply to GSM cellular mode. You will not see this menu option in this mode.

Cellular Mode (GSM)

Accessing the Network

This section shows you how to register with the network.

What You Will Learn

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

Keep in Mind: If you see a mext to a feature, the phone must be in satellite mode. If you see a mext to a feature, the phone must be in cellular mode. See "Selecting a Mode" on page 173 to change modes.

Entering the Network 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:

View Options?

4. Press to scroll through the submenu.

or

Press to scroll backward or forward through the submenu.

Network Feature Overview

The feature selection in the Network menu varies depending on your mode setting. The table below shows the features available in each mode. See "Selecting a Mode" on page 173 for more information on changing modes.

Feature	Satellite	GSM	CDMA/AMPS
Available Networks		•	
Find New Network		•	
Network Search		•	
Register Now	•	•	

What's on the Network Menu?

Satellite Mode



Network Selection

Available Networks

Register Now

Network Search

Registration Preferences

Automatic Search

Manual Search

Find New Network

Cellular Mode (GSM)

This menu is not available in CDMA/AMPS cellular mode.

Cellular Mode (CDMA/ AMPS)

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, followed by Select?.

Registering With the Satellite Network

Satellite Mode

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.

- Rotate and extend the antenna upward. See "Placing a Call" on page 49.
- 2. Follow the steps in "1-2: Getting to Network Selection..." to get to Resister Now.
- 3. Press of to select. You will see Resistering.... This may take a few seconds.

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

('i')___

The indicator also appears.

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

Cellular Mode

This feature does not apply to cellular mode. You will not see this menu option in this mode.

🖞 Cellular Mode (GSM) 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 173.

Scan for Available Networks

This feature does not apply to satellite mode. You will not see this menu option in this mode.

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

- 1. Follow the steps in "1-2: Getting to Network Selection..." 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 Resister Now?.
- **3. Press** w to register with that network. You will see Searchina.

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

This feature does not apply to CDMA/AMPS cellular mode. You will not see this option in this mode.

Satellite Mode

Cellular Mode (GSM)

Cellular Mode (CDMA/ AMPS)

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, followed by Select?.

(1) Set Network Search Method

Satellite Mode

Cellular Mode (GSM)

This feature does not apply to satellite mode. You will not see this menu option in this mode.

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 chip are not included in the sorted list. This feature allows you to determine how the phone tries to register with a system. See the table on page 171 for a description of the available search methods.

To set your network search method:

- 1. Follow the steps in "1-2: Getting to Network Selection..." to get to Network Search, and then press . You will see Registration Preferences
- 2. Press W.
- 3. Press to scroll to Automatic Search or Manual Search, and then **press** . You will see Completed

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 on the previous page). 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 with which you want to register. You will see Search Network followed by Search? 1. Press to generate the sorted list. 2. Press to select the network you want to register with, and then press Y. You will see Register Now?.
	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 for indicator.

This feature does not apply to CDMA/AMPS cellular mode. You will not see this option in this mode.

Cellular Mode (CDMA/ AMPS)

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, followed by Select?.

(1) Find a New Network

Satellite Mode

Cellular Mode (GSM)

This feature does not apply to satellite mode. You will not see this menu option in this mode.

When your phone tries to register with a network, it excludes your current network from the search. If the attempt fails, your phone then attempts to reregister with the previous network.

1. Follow the steps in "1-2: Getting to Network Selection..." 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 continue with 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.

Cellular Mode (CDMA/ AMPS)

This feature does not apply to CDMA/AMPS cellular mode. You will not see this option in this mode.

Selecting a Mode

If you have an optional Cellular Cassette installed in your satellite phone, you can access the cellular network as well as the satellite network.

What You Will Learn

- selecting automatic modes
- · selecting manual modes

Entering the Mode Selection Menu

To enter the Mode Selection menu:

- 1. Press (EN) 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.

Mode Selection Feature Overview

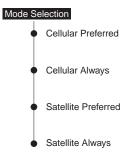
The feature selection in the Mode Selection menu varies depending on your mode setting. The table below shows the features available in each mode. This chapter shows you how to change modes.

Feature	Satellite	GSM	CDMA/AMPS
Cellular Always	•	•	•
Cellular Preferred	•	•	•
Satellite Always	•	•	•
Satellite Preferred	•	•*	•

This feature may not be available for some GSM Cellular Cassette users. Check with your service provider.

What's on the Mode Selection Menu?

All Modes



Selecting a Mode

Preferred or 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 switches 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 chip. 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.

Always or Manual Modes

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.

1-2: Getting to Mode Selection...

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

Selecting Satellite Mode

Select Satellite Preferred Mode

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

- Follow the steps in "Selecting a Mode" to get to Satellite Preferred.
- 2. Press v to select.

If you see the message Check Cassette or Insert Cassette, make sure your cassette is installed and is installed properly.

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 selection to work properly.

Select Satellite Always Mode

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

- 1. Follow the steps in "1-2: Getting to Mode Selection..." to get to Satellite Always.
- 2. Press or to select.

1-2: Getting to Mode Selection...

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

Selecting Cellular Mode

Select Cellular Preferred Mode

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

- 1. Follow the steps in "Selecting a Mode" to get to Cellular Preferred.
- 2. Press or to select.

If you see the message Check Cassette or Insert Cassette, make sure your Cellular Cassette is installed properly.

Select Cellular Always Mode

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

- 1. Follow the steps in "1-2: Getting to Mode Selection..." to get to Cellular Always.
- 2. Press or to select.

If you see the message Check Cassette or Insert Cassette, make sure your Cellular Cassette is installed properly.

Tip: You must have a Cellular Cassette installed in your phone for these selections to work properly.

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.

The features described in this chapter are only available in satellite mode.

What You Will 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 a ⊕ next to a feature, the phone must be in satellite mode. If you see a next to a feature, the phone must be in cellular mode. See "Selecting a Mode" on page 173 to change modes.

Entering the Call Meters Menu

To enter the Call Meters menu:

- 1. Press (EN) 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.

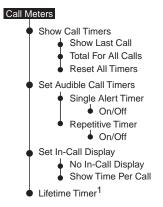
Call Meters Feature Overview

The feature selection in the Call Meters menu varies depending on your mode setting. The table below shows the features available in each mode. See "Selecting a Mode" on page 173 for more information on changing modes.

Feature	Satellite	GSM	CDMA/AMPS
Reset All Timers	•		
Set Repetitive Alert Timer	•		
Set Single Alert Timer	•		
Show Time of Last Call	•		
Show Total Time of All Calls	•		
View In-call Timer	•		
View Lifetime Timer	•		

What's on the Call Meters Menu?

Satellite Mode



1 This feature is availabe when the Extended Menu is active.

Cellular Mode

This menu is not available in cellular mode.

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

- 1. Press on 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 airtime. Keep a running tab of your monthly usage or view the airtime 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.

 Follow the steps in "1-2-3: Getting to Show Call Timers..." 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 several seconds, the display returns to Show Last Call.

2. Press and hold to exit the menu.

This feature is not available in cellular mode.

Satellite Mode

Cellular Mode

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

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

Show Total Time for All Calls

Satellite Mode

Use this feature to display your total airtime since you last reset the Call Timer.

1. Follow the steps in "1-2-3: Getting to Show Call Timers..." to get to Total For All Calls, and then press of to select.

You will see the airtime accumulated (hours, minutes, and seconds) since the timer was last reset. After several seconds, the display returns to Total For All Calls.

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

Cellular Mode

This feature is not available in cellular mode.

Reset All Timers

Satellite Mode

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

- Follow the steps in "1-2-3: Getting to Show Call Timers..." to get to Reset All Timers, and then press to select. You will see Completed. The display then returns to Reset All Timers.
- **2.** Press and hold **t** to exit the menu.

Keep in Mind: This does not reset the Lifetime Timer described on page 190.

Cellular Mode

This feature is not available in cellular mode.

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

- 1. Press until you see Call Meters, and then press .
- 2. Press to scroll to 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.

- Follow the steps in "1-2-3: Getting to Audible Call Timers..." to get to Sinsle 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**.
- 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.

This feature is not available in cellular mode.

Satellite Mode

Cellular Mode

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

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

Set the Repetitive Timer

Satellite Mode

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

- 1. Follow the steps in "1-2-3: Getting to Audible Call Timers..." to get to Repetitive Timer, and then press of 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**.
- 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.

Cellular Mode

This feature is not available in cellular mode.

1-2: Getting to Call Meters...

- 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 "1-2: Getting to Call Meters..." to get to Set In-Call Display, and then press of 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 7** to exit the menu.

This feature is not available in cellular mode.

Satellite Mode

Cellular Mode

1-2: Getting to Call Meters...

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

Show the Lifetime Timer

Satellite Mode

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

Cellular Mode

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

 Follow the steps in "1-2: Getting to Call Meters..." 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.

This feature is not available in cellular mode. However, when you view your lifetime time in satellite mode, the total airtime includes the airtime spent in cellular mode.



Customizing the Menu System

Do you think your 9505 Portable Phone has 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 173 for more information.

What You Will Learn

- personalizing the Options Menu
- personalizing the Quick Access Menu

Keep in Mind: If you see a \oplus next to a feature, the phone must be in satellite mode. If you see a 🖞 next to a feature, the phone must be in cellular mode. See "Selecting a Mode" on page 173 to change modes.

Personalizing the Options Menu

Satellite Mode

You can customize the Options Menu by moving features in and out of the Extended Menu.

Move Menu Features

To move menu features:

- 1. Find the feature you want to move.
- Press and hold . You will see one of two responses depending on where that menu feature currently is. If you see:

Remove From Short Menus (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 Menus (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 Menus

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

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

These features are not available in cellular mode. You will see all of the available cellular menu options when you are in cellular mode, regardless of whether the Extended menu is active or not.

Cellular Mode

Personalizing the Quick Access Menu

Satellite Mode

You can put any of the features listed below in the Quick Access Menu instead of the defaults listed on page 73.

	Find by Leastian recalls Dhone Dook entries
[12]	Find by Location recalls Phone Book entries by memory location numbers.
ď₽	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 chip location.
Ħ	Phone Mute on or off mutes the phone.
(C)	Ring Volume displays and sets the incoming call ring tone volume.
d.º	Switch Memory switches One-Touch dialing between the phone and SIM memories depending on the current setting.
14	Last Call Timer displays the duration of your last call.

To change the default quick access features to one of the features listed above, 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 or to access the list of features available.
- 3. Press to scroll through the list until you find the desired feature.
- **4. Press** v to store the displayed feature in the new location.

You will see Completed.

Cellular Mode

This feature is not available in cellular mode.

Menu Quick Reference

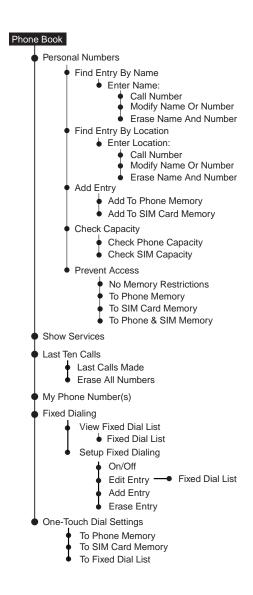
The Options Menu changes depending on the mode you are in. This section provides a quick reference of the menu structure and features for each mode.

What You Will Learn

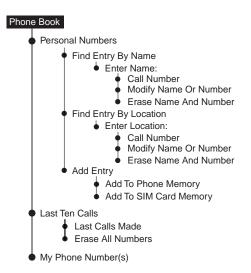
• Menu Quick Reference

Phone Book Menu

Satellite Mode



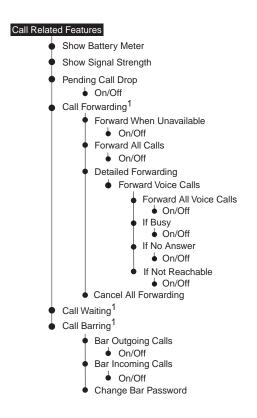
Phone Book Menu



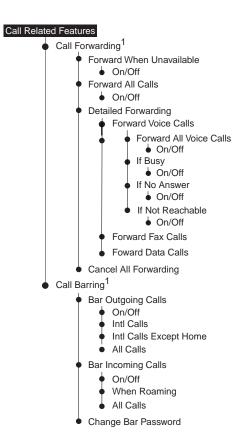
Cellular Mode

Call Related Features Menu

Satellite Mode



Call Related Features Menu



Cellular Mode (GSM)

This menu is not available in CDMA/AMPS cellular mode.

Cellular Mode (CDMA/ AMPS)

Messages Menu

Satellite Mode



Messages Menu

Messages Menu

Received Messages

Go to Next MessageDelete Message

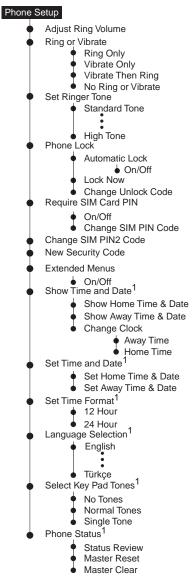
Cellular Mode (GSM)

This menu is not available in CDMA/AMPS cellular mode.

Cellular Mode (CDMA/ AMPS)

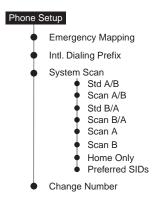
Phone Setup Menu

Satellite Mode



¹ This feature is available when the Extended Menu is active.

Phone Setup Menu



Cellular Mode (CDMA/ AMPS)

This menu is not available in GSM cellular mode.

Cellular Mode (GSM)

Network Selection Menu

Satellite Mode



Network Selection Menu

Network Selection

Available Networks

Register Now

Network Search

Registration Preferences

Automatic Search

Manual Search

Find New Network

Cellular Mode (GSM)

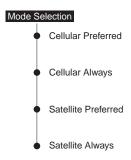
This menu is not available in CDMA/AMPS cellular mode.

Cellular Mode (CDMA/ AMPS)

Mode Selection and Call Meters Menus

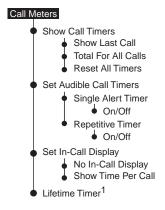
Mode Selection Menu

All Modes



Call Meters Menu

Satellite Mode



1 This feature is availabe when the Extended Menu is active.

Cellular Mode

This menu is not available in cellular mode.

Troubleshooting

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

Problem	Solution	
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 (satellite 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 chip 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 must check and disable the feature from satellite mode. 	
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. You must check and disable the feature from satellite mode. 	

Problem	Solution
You can't make international calls.	 Have you included the relevant codes? Press and hold the tey to display the international dialing prefix (+) and then enter the appropriate country code followed by the phone number. If you are in cellular mode, some service providers automatically bar the ability to make international calls. Contact your service provider. Are you in a CDMA/AMPS cellular mode? You must map the international access code in order to use the key to display the international dialing prefix (+).
Your phone won't unlock.	 Have you inserted a new SIM chip? 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 chip won't work.	 Is the chip inserted the correct way? Is the chip visibly damaged or scratched? Return the chip to your service provider. Check the SIM and phone contacts. If they are dirty, clean them with an antistatic cloth.
You can't access your messages.	Are you in the correct mode? If you do not have a GSM cellular cassette installed, you must be in satellite mode to access your messages. Is your GSM Cellular Cassette inserted? In order to access messages from cellular mode, you must have a GSM Cellular Cassette inserted.
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.

Problem	Solution	
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. Make sure you have a Motorola approved battery installed. If you see Invalid Batt. in the display, you will not be able to charge this battery. 	
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 of 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 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 chip inside but the display says:	Check Card or Insert Card. Check that the SIM chip has been inserted correctly. The contacts of the SIM chip may be dirty. Turn the phone off, remove the SIM chip and rub the gold contacts on the chip with a clean cloth. Replace the chip 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 or Insert Cassette. Check that the Cellular Cassette has been inserted correctly.	

Problem	Solution
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 satellite mode to do this.

Glossary

Α

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 several 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 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.

Ε

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.

Н

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.

ı

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 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 chip 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.

Ν

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-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.

0

One-Touch Dialing To use this feature, press and hold a number on the keypad, through 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.

Ρ

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 Network Code. A private numeric password that allows you to access your SIM chip and some network services.

Portable Dock 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 1 and a digit key (1 to 9).

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

satellite mode When you are in this mode you are accessing the Iridium satellite system. You see the indicator.

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 (CDMA/AMPS 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.

Т

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.

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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
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D270835	D289156	4798975	D315330	5142551	5260988	D360632	5546380
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4550426	4716391	4876552	5029233	5185566	5361400	5487184	5594778
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