



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™ 9520 Mobile Phone for the Iridium® system.

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

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

Enjoy your new Satellite Series™ 9520 Mobile Phone!





MOTOROLA



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TTY (outside the United States): +1-847-523-1841
Monday through Friday 7AM to 7PM (CST)

+ designates international dialing access code

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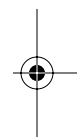
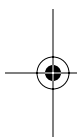
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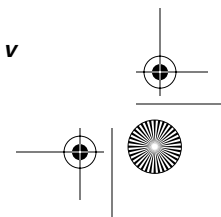
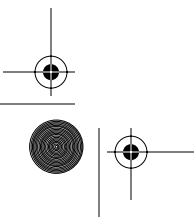
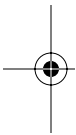


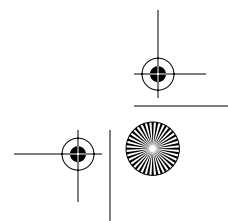
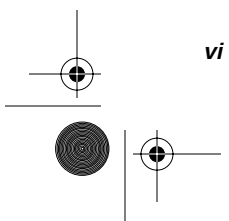
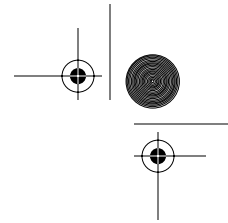
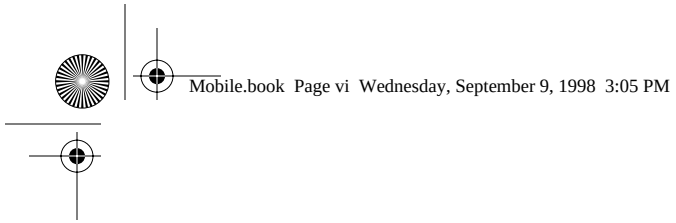
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Safety Information

Exposure to Radio Frequency Signals

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

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 normally.

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 detente. 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. Also, if using your phone while driving, please:

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

Electronic Devices

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

Pacemakers

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

Persons with pacemakers:

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

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 they are 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 radios.
- Obey all signs and instructions.

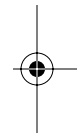
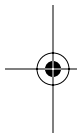
Potentially Explosive Atmospheres

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'll Learn

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

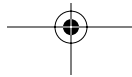




Guide Overview

As you explore your 9520 Mobile Phone, use this guide to see what key to press and what happens when you press it. Here is what you'll learn in each chapter:

Chapter	Description
Using Your Phone	How do you make your first phone call? We'll answer this and more in this section. Go to "Using Your Phone" on page 19 for more information.
Using the Menus	Turn to page 39 to learn about how to use the menu system. This chapter teaches you how to navigate the menu system.
Managing the Phone Book	Turn to page 45 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, turn to page 69 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? Turn to page 83.
Customizing Phone Features	Learn how to customize your phone's features in this chapter. Go to page 93.





Chapter	Description
Accessing the Network	Turn to page 111 to learn how to register with the satellite network.
Setting Up Your Accessories	Turn to page 125 to learn how to set up features that make driving a little easier.
Timing Your Calls	View the time of your last call or set your phone to remind you after you've been talking for a certain amount of time. Go to page 115.
Customizing Menus	Once you are familiar with the features in your menus, you can then begin to customize your menus to more closely fit your needs. See page 133.

Understanding the Guide

Key Presses

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



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

Prompts and Messages

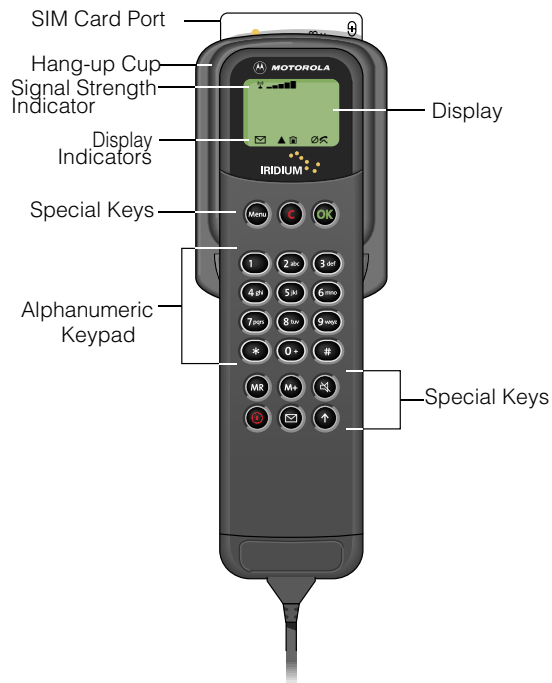
Your phone responds to key presses by displaying either a prompt that guides you to the next action or a message confirming that your action is complete. Prompts and messages are represented in this guide in LCD style, for example: Enter PIN or Completed.

Tips

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



Phone Overview



Volume Keys

The Volume keys are on the side of the phone. They adjust earpiece and ringer volume. For information on adjusting your volume, see page 30.

SIM Card Port

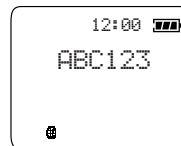
The SIM card is inserted in the slot in your hang-up cup.

Special Keys

Key	Function
	turns the phone's power on and off
	displays messages
	selects menu settings or options, or initiates and answers calls
	stores numbers in the phone book
	recalls numbers from the phone book
	enters the Quick Access Menu
	enters the Options Menu and scrolls forward through menu features
	clears characters from the screen or exits the Options Menu
	mutes the handset when you are in a call
 * or #	scrolls through the menu features

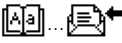
The Display

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



The 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.

Display Indicators

Indicator	Description
	Signal Strength Indicator indicates the strength of the signal from the network. The more segments displayed in the bar graph, the stronger the signal. You can also check the strength of the signal at any time through the menu. See page 76.
	Message Indicator appears when you receive a new message. It flashes when the SIM card is full. See "Accessing Messages" on page 90.
	Home System Indicator appears when the phone has successfully registered with the Iridium satellite system.
	No Service Indicator appears when your phone is not capable of placing or receiving calls.
	In Use Indicator appears when a call is in progress.
	Scroll Bar appears on the right of the display when you are in a menu. The button on the scroll bar indicates where you are in the list.
	Check Mark indicates a menu item is currently selected.
	Quick Access Menu Icons allow you to easily identify Quick Access features as you scroll through the Quick Access Menu.

Original Satellite Series Accessories

Product appearance and specifications are subject to change without notice.

Mobile Magnetic or Mobile Permanent Mount Antenna

A versatile, larger antenna that delivers improved reception over the Portable Auxiliary Antenna and offers dual mounting options for more permanent installations.

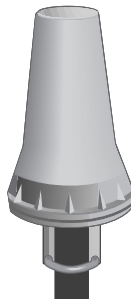


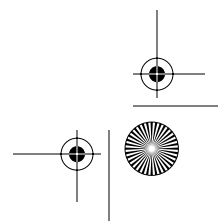
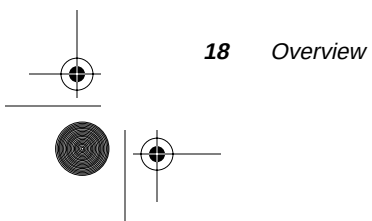
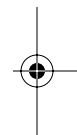
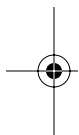
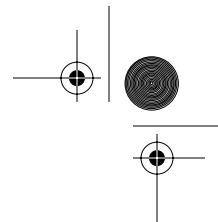
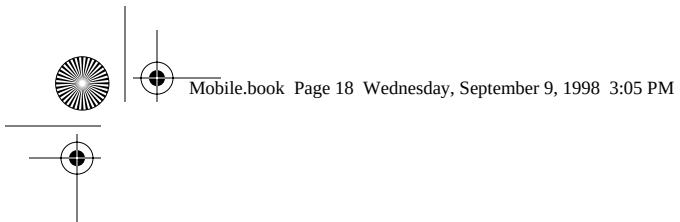
- Use either magnetic mount or permanent mount option
- Attaches to Motorola Satellite Series 9520 Mobile Phone, 9500 Portable Phone, or 9570 Portable Dock for in-vehicle communication
- Attached 5-meter cable

Fixed Mast Antenna

Attaches to Motorola Satellite Series 9520 Mobile Phone, or 9570 Portable Dock to deliver exceptional reception performance for permanent in-building or marine applications.

- Marine rated with mast mount capability
- Attached 10-meter cable





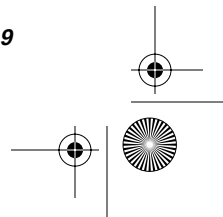
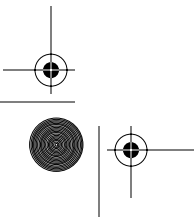
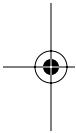


Using Your Phone

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

What You'll Learn

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



Installing the SIM Card

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

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

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

Insert the SIM Card

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

1. **Turn your phone off** by pressing and holding the  key.
2. **Insert the SIM card** into the slot in the hang-up cup.



Remove the SIM Card

1. **Turn your phone off** by pressing and holding the  key.
2. **Pull the SIM card** out of the slot in the hang-up cup.

Powering Up the Phone

Turn the Power On and Off

To turn your phone's power on:

1. **Insert your SIM card.** (See "Installing the SIM Card" on page 20.)
2. **Press and hold**  to turn the phone on and off.

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

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

Power-On Messages

Once your phone is powered on, you may see:

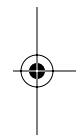
Message	Description
Searching...	The phone is attempting to establish communications with the satellite network. See "Accessing the Network" on page 111 for more information.
Registering	Your phone is registering with the network. When the process is complete, you will see Registered . See "Accessing the Network" on page 111 for more information.
Enter Phone Unlock Code	Your phone was locked after the last use. Enter your four-digit unlock code and press OK to proceed. See "Locking and Unlocking Your Phone" on page 100 for more information.
Enter PIN	Enter the four- to eight-digit SIM card PIN provided by your service provider and press OK to proceed. See "Protecting the SIM Card" on page 102 for more information.



Message	Description
Insert Card	Power off your phone; make sure your SIM card is inserted completely; and then power your phone on again.
Check Card	This message indicates that the SIM card is damaged or inserted the wrong way.
Blocked	If the SIM card PIN code or PIN2 code is incorrectly entered three times in a row, your phone becomes blocked. See page 103 for information on unblocking it.
Bad Card See Supplier	Your SIM card 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 haven't pressed a key for a several seconds. The light reappears the next time you press a key.



Placing Calls

To place a call, your phone must be powered on, have a SIM card inserted, be unlocked, and be in contact with the satellite network. See "Accessing the Network" on page 111 for network information.

Dial a Number

1. **Enter the number** using the digit keys. As soon as you begin entering digits, you will see *Call?*.

You must enter the phone number in international format: [international access code or +] [country code] [phone number]

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

2. **Press **OK****. You will see *Calling* +18475551212.

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* will appear on the display for a few seconds, followed by *End Call?*. If the call does not connect, you may see one of the following messages:

Message	Description
Call Failed System Busy Restricted Area Weak Signal	The phone is unable to access the network. Try again in a few minutes.
Redial?	See "Automatic Redial" page 24.

International Dialing

To make an international phone call:

1. **Press and hold** **0+**.

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

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

Automatic Redial

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

Press **OK** to redial the number automatically.

Keep in Mind: 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.

Redial Last Number Called

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

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

Dial Special Characters

You can insert special characters in your numbers:

To enter...	Then...
☐	Press 0+
*	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

Refer to "Using Pauses in Numbers" on page 54 for information on dialing numbers with pauses.

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

Refer to "Managing the Phone Book" on page 45.

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:

Dial 1 1 2

You will see **Emergency Calling**

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

Call a Number in a Message

Details on how to call a number embedded in a message are in "Using Message Services" on page 83.





Ending a Call

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

- Press **OK**.
- **Replace the handset** in the hang-up cup.
- Press **C**.





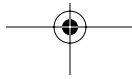
What's My SIM Card Phone Number?

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

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

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

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



Receiving Calls

Tip: See page 97 to set your phone's alert.

Receive a Phone Call

To receive a call, your phone must be powered on, have a SIM card inserted, be unlocked, and be in contact with the satellite network. See "Accessing the Network" on page 111 for network information.

When you receive a call:

- Your phone rings and/or vibrates.
- The phone displays **Call**, followed by **Answer?** on the next line.

To answer the call:

Remove the handset from the hang-up cup by pressing in the release buttons on the side of the hang-up cup.



Release Buttons

or

Press **OK** or any digit key (**1-9**, *****, or **#**)

You will see **Connected**.

If the call does not connect properly, you may see **Call Failed**. This message indicates that the antenna is not properly adjusted or the network signal is not strong enough.



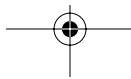
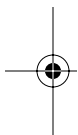
Unanswered Calls

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

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, 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 90.





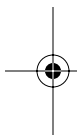
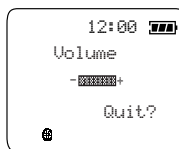
Adjusting Earpiece Volume

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.





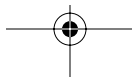
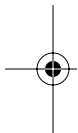
Adjusting Ringer Volume

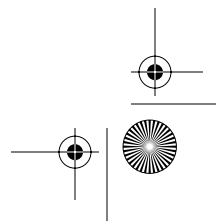
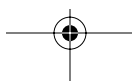
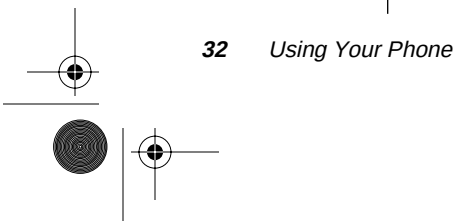
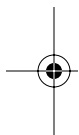
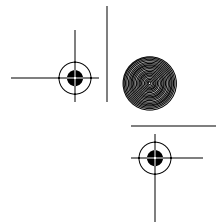
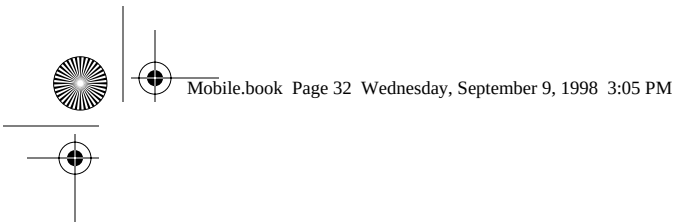
Use this feature to adjust the volume of the ringer. The phone sounds the new volume level as you adjust it.

To adjust the ringer volume in satellite mode:

1. **Press**  until you see Phone Setup, and then **press** .
2. **Press**  until you see Adjust Ring Volume, and then **press**  to select.
3. **Increase the volume** by pressing the upper volume key.
or
Decrease the volume by pressing the lower volume key.
4. **Press and hold**  to exit the menu.

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





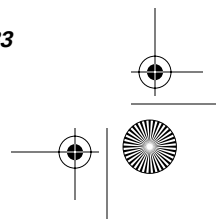
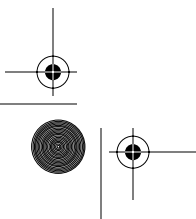


Using In-Call Features

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

What You'll Learn

- Using Call Waiting
- Using Call Holding
- Using Call Muting



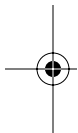


Muting a Call

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.

While in a call:

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





Using Call Waiting

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

If you have subscribed to Call Waiting, you must first activate it through the Options Menu (see page 78). 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 **Call Waiting** followed by **Answer?**.

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

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

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





Placing a Call on Hold



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

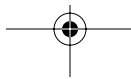
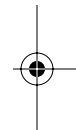
You can place a call on hold to receive a new call or while making a new call. You can only place one call on hold at a time, so some options may not be accessible if you have already placed a call on hold.

To place a call on hold:

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

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

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

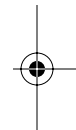


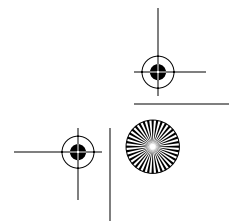
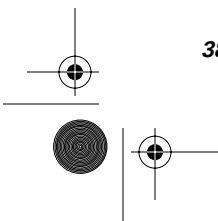
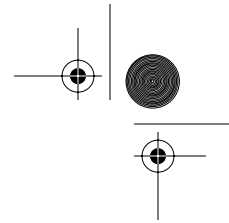
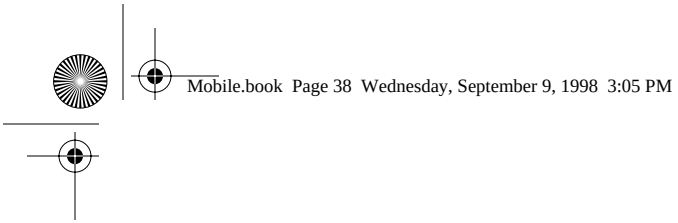


If you want to...	Then...
End Current Call	Press C at any time.
End Call that is on Hold	Press MENU until you will see End Held Call , and then press OK to select. The held call is disconnected, the current call remains connected, and you see End Call? .

You may see one of these messages:

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







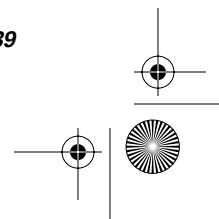
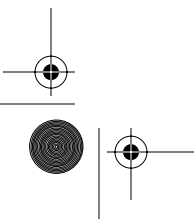
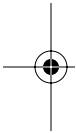
Using the Menus

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 page 133 to personalize your menus.

What You'll 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.

Navigate the Options Menus

Learning how to use just a few buttons 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  or  to scroll backward or forward.
Select Options and Submenus	Press  to select a menu option or submenu when that option or submenu name is displayed.
Exit Features and Menus	• Press  to exit the feature or submenu. • Press and hold  to exit the Options Menu.

Keep in Mind: If you press  during a call, you will see the In-Call Menu which is described on page 44.

How the Phone Responds

As you scroll through the Options Menu, you will see one of three questions on the bottom line of the display. If your phone asks:

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

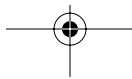
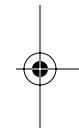


Display Icons Chart

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

Customize the Options Menu

To personalize the Options Menu—to hide and move features—see page 134.





Using the Quick Access Menu

The Quick Access Menu is a way to keep your favorite menu options readily accessible. Each digit key, **1** to **9**, has a Quick Access feature assigned to it. See the chart on page 43 for the default setup. If you know the number of the feature, activating that option takes only two button pushes! If you don't know the number or want to review your options, just scroll through the icon menu and read the tag attached to each option.

Activate the Feature Directly

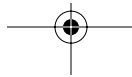
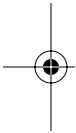
To access the feature directly:

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

Scroll to the Feature

To scroll to the feature:

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



Default Quick Access Settings

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

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

Customize the Quick Access Menu

See page 136 to learn how to customize the menu.



Using The In-Call Menu



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

Entering the In-Call Menu

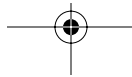
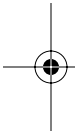
While you are in a call:

Press  to view the In-Call Menu features.

In-Call Menu Features

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

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





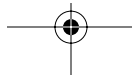
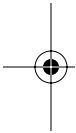
Managing the Phone Book

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

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

What You'll Learn

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



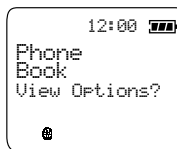


Entering the Phone Book Menu

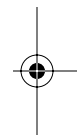
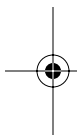


To enter the Phone Book menu:

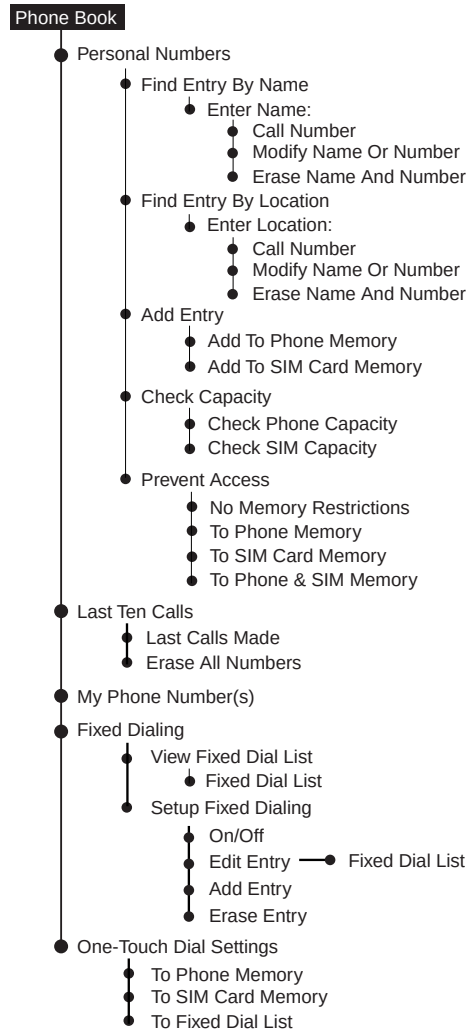
1. Press  to scroll forward.
2. Press  when you see:



3. Press  to scroll through the submenu.



What's on the Phone Book Menu?





Organizing Your Phone Book

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

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

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

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

Which numbers do I call most?

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





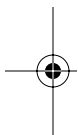
When do I use these numbers?

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

Which numbers do I need to keep secure?

Use your SIM card to store the numbers you need to keep secure, like the numbers of friends and family members. Because your SIM card is the size of a credit card, you can easily keep it securely in your wallet when you aren't using it. If you wish, you can even require a PIN code every time your SIM card is inserted into *any* phone. (To deactivate your PIN code, see page 102.) Store more public numbers, like business associates and travel agents in your phone's memory.

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



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

1. Press **MENU** until you see Phone Book, and then press **OK**.
2. Press **MENU** to scroll to Personal Numbers, and then press **OK**.
3. Press **MENU** 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 "1-2-3: Getting to Personal Numbers..." to get to Add Entry, and then press **OK**.
2. Press **MENU** to scroll to Add to Phone Memory or Add to SIM Memory.
3. Press **OK** to select. You will see Enter Number.
4. Enter a number, and then press **OK**. You will see Enter Name.
5. Enter a name (see "Entering Names" on page 52), and then press **OK**. You will see Enter Location.
6. Enter a location number, 1-100 for phone memory or 101-255 for SIM memory, and then press **OK**. You will see Stored XXX.
or
Press **OK** to select the next available location. You will see Stored XXX.
7. Press and hold **C** to exit the menu.

Tip: Numbers must be entered in international format.

Use the Dedicated Keys

1. **Enter the phone number** you want to store.
 2. **Press** **OK** to begin storing.
 3. **Press** **MENU** to scroll to the desired memory type Add to SIM Card Memory or Add to Phone Memory, and then **press** **OK**. You will see Enter Number, followed by the number you entered.
 4. **Press** **OK** to accept the number. You will see Enter Name.
 5. **Enter a name** (see "Entering Names" on page 52), and then **press** **OK**. You will see Enter Location.
 6. **Enter a three-digit location number**, and then **press** **OK**. You will see Stored XXX.
- or

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

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.

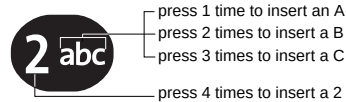
Adding Entry Messages

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

Message	Description
Stored XXX	You have stored the entry.
Range XXX-XX	You have chosen a memory location outside the appropriate range. Enter a new number within the range listed on the display.
Overwrite?	You have chosen an occupied location. Press OK 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 **2 abc** to enter the letters A, B, or C, as shown:



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

Enter Characters

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

Correct an Entry

To make a change:

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



Available Characters

Use this chart as a guide for producing characters:

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

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





Using Pauses in Numbers

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

When you call automated systems, a recorded message prompts you for numbers such as PIN numbers and account numbers. You can store these numbers in the same memory location as the automated system's access number. Separate the numbers with "pauses"—special characters that tell your phone to wait 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 pause character (▢) inserted into the number entry.
3. **Enter the next group of numbers.** For example, enter your PIN number. If the automated system requires a * or #, enter those symbols, too.
4. **Repeat steps 2 to 3** as many times as necessary.
5. **To store the entry** follow the procedures in "Add an Entry" on page 50.

Dial Numbers With Pauses

To dial a number with pauses:

1. **Recall the entry.** (See "Recalling Entries" on page 56.)
2. **Press OK** 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.





Using Phone Number Prefixes

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

Store a prefix in your Phone Book just as you would any other number. See “Storing Names and Numbers” on page 50.

Use a Stored Prefix

To use a stored prefix:

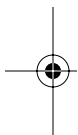
1. **Recall the prefix** from your Phone Book.
(See “Recalling Entries” on page 56.)
2. **Add** the finishing numbers.
3. **Press** **OK** to place the call.

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

Change a Similar Entry

To change an entry to a similar number:

1. **Recall the number** from your Phone Book.
(See “Recalling Entries” on page 56.)
2. **Press** **C** to delete the unwanted digits.
3. **Enter** the replacement digits.
4. **Press** **OK** to place the call.



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

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

Recalling Entries

Find an Entry by Name

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

Keep in Mind: If you have restricted access to either SIM card or phone memory, those entries won't be available. For more information, see page 60.

1. **Follow the steps in "1-2-3: Getting to Personal Numbers..."** to get to Find Entry By Name. You will see Find Name?.
2. Press **OK** to select. You will see Enter Name.
3. **Enter 1 to 3 characters** (or as many as needed) of the entry, and then press **OK**. If necessary, scroll to the entry you are looking for.
4. Press **OK** to access options for that entry, and then proceed to "Calling, Modifying, or Erasing an Entry" on page 58.

Tip: Your phone sorts SIM card 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** "1-2-3: Getting to Personal Numbers..." to get to Find Entry By Location, and then **press** **OK** to select. You will see Enter Location.

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

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

3. **Press** **OK** to access options for that entry, and then proceed to "Calling, Modifying, or Erasing an Entry" on page 58.

Use the Dedicated Keys

1. **Press** **MR**.

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

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** **OK** to call the displayed entry. You will see the number followed by Calling.



Calling, Modifying, or Erasing an Entry

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

Call a Selected Entry

1. **Find an entry**, and then **press** . See "Recalling Entries" on page 56.
2. **Press**  until you see **Call Number**, and then **press** . You will see **Calling** followed by the number you dialed.

Modify a Name or Number

1. **Find an entry**, and then **press** . See "Recalling Entries" on page 56.
2. **Press**  until you see **Modify Name or Number**, and then **press** . You will see **Edit Number**, followed by the phone number stored in that entry.
3. **Enter changes** to the number, and then **press** . You will see the name stored in that entry.
4. **Enter changes** to the name, and then **press** . You will see **Modified XXX**.

Erase a Name and Number

1. **Find an entry**, and then **press** . See "Recalling Entries" on page 56.
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 52.

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

1. Press **MENU** until you see Phone Book, and then press **OK**.
2. Press **MENU** to scroll to Personal Numbers, and then press **OK**.
3. Press **MENU** 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 card or phone memory.

1. Follow the steps in "1-2-3: Getting to Personal Numbers..." to get to Check Capacity, and then press **OK** to select.
2. Press **MENU** until you see Check Phone Capacity or Check SIM Capacity, and then press **OK**. You will see XXX Unused Locations.
3. Press and hold **C** to exit the menu.

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

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

Preventing Access to the Phone Book

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

1. Follow the steps in "1-2-3: Getting to Personal Numbers..." to get to Prevent Access, and then press **OK** to select.
2. Press **MENU** 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 **OK** to select the displayed option. You see will Enter Security Code.
4. Enter security code. Enter your six-digit security code. You will see Completed.
5. Press and hold **C** to exit the menu.

Tip: The factory default security code is: 000000.

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

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

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

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

Restricting Phone Use

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

Activate Fixed Dialing

Use this option to set up your Fixed Dial list.

1. Follow the steps in "1-2-3: Getting to Fixed Dialing..." to get to Setup Fixed Dialing, and then press **OK** to select. You will see Enter PIN2.
2. Enter code. Enter your SIM PIN2 code, and then press **OK**.
3. Press **MENU** until you see On or Off, and then press **OK**. You will see Completed.
4. Press and hold **C** to exit the menu.

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

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

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

Add an Entry

To add an entry:

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

Tip: Phone numbers must be in international format.

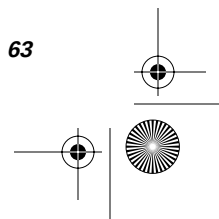
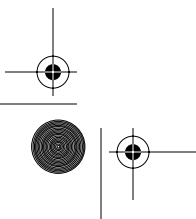
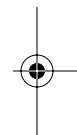
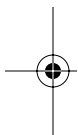
Tip: See "Entering Names" on page 52 for help entering letters.



Erase an Entry

To erase an entry:

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



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

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

Edit an Entry

To edit an entry:

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



View Your Fixed Dial List

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

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



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

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

Viewing the Last Ten Numbers Dialed

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

1. Follow the steps in "1-2: Getting to Phone Book Features..." to get to Last Ten Calls, and then press **OK** to select.
2. Press **MENU** to scroll to Last Calls Made or Erase All Numbers, and then press **OK** to select.
3. If you select Last Calls Made, press **MENU** to scroll to the number you are looking for, and then press **OK** to place a call to that number.
or
If you select Erase All Numbers, you will see Completed.
4. Press and hold **C** to exit the menu.

Tip: If you want to add a number from Last Ten Calls to your Phone Book, press **MR** when the number is displayed, then follow the steps in "Storing Names and Numbers" on page 50.

Viewing and Modifying Phone Numbers

View Your SIM Phone Number(s)

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

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

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

Tip: Pressing **MR** **#** also brings up your phone number

Modify Your Phone Numbers

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

1. **Complete the steps in** "View Your SIM Phone Number(s)" on page 67 to get to the number you want to modify.
2. **Press** **OK** 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** **OK**. You will see Edit Name followed by the name for the entry selected.
4. **Enter changes** to the name (see "Entering Names" on page 52) and then **press** **OK**. You will see Stored.
5. **Press and hold** **C** to exit the menu.

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

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

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.

Set Up One-Touch Dialing

1. Follow the steps in "1-2: Getting to Phone Book Features..." to get to One-Touch Dial Setting, and then press **OK** to select.
2. Press **MENU** to scroll through To Phone Memory, To SIM Card Memory, or To Fixed Dial List, and then press **OK** to select the displayed option. You will see Completed.
3. Press and hold **C** 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 **2^{abc}** to dial the number stored in location 2 of your phone memory, location 2 of your Fixed Dial list, or 102 of your SIM memory, depending on your setting.

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

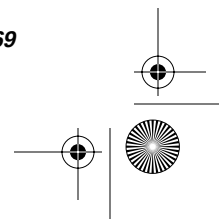
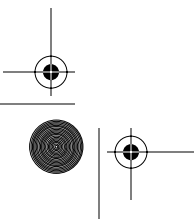
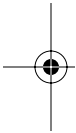


Using Calling Features

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

What You'll Learn

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

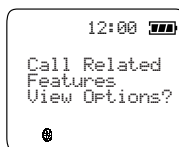




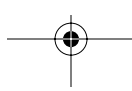
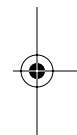
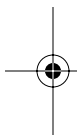
Entering the Call Related Features Menu

To enter the Call Related Features menu:

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



4. Press to scroll through the submenu.



What's on the Call Related Features Menu?

- Call Related Features
 - Show Battery Meter
 - Show Signal Strength
 - Pending Call Drop
 - On/Off
 - Call Forwarding¹
 - Forward When Unavailable
 - On/Off
 - Forward All Calls
 - On/Off
 - Detailed Forwarding
 - Forward Voice Calls
 - Forward All Voice Calls
 - On/Off
 - If Busy
 - On/Off
 - If No Answer
 - On/Off
 - If Not Reachable
 - On/Off
 - Cancel All Forwarding
 - Call Waiting¹
 - Call Barring¹
 - Bar Outgoing Calls
 - On/Off
 - Bar Incoming Calls
 - On/Off
 - Change Bar Password

¹ These features are network and subscription dependent.

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

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

Forward 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).

To activate this feature:

1. Follow the steps in "1-2-3: Getting to Call Forwarding..." to get to Forward When Unavailable, and then press **OK** to select.
2. Press **MENU** to scroll to On or Off, and then press **OK** to select.
 - If you select On, continue with **step 3**.
 - If you select Off, continue with **step 5**.
3. Press **MENU** to scroll to Voicemail or Other Number, and then press **OK** 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 **OK**. Your phone takes a moment to request the setting from the network, and then you will see Call Forward On.
5. Press and hold **C** to exit the menu.

Tip: If you have not yet stored a voicemail number, go to page 87 to learn how.

Forward 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 features through your service provider(s).

To activate this feature:

1. **Follow the steps in "1-2-3: Getting to Call Forwarding..."** to get to **Forward All Calls**, and then **press OK** to select.
2. **Press MENU** to scroll to either **On** or **Off**, and then **press OK** to select.
 - If you select **On**, continue with **step 3**.
 - If you select **Off**, continue with **step 5**.
3. **Press MENU** to scroll to **Vicemail** or **Other Number**, and then **press OK** to select.
 - If you select **Vicemail**, 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 OK**.

Your phone takes a moment to request the setting from the network, and then you will see **Call Forward On**.
5. **Press and hold C** to exit the menu.

Tip: If you have not yet stored a voicemail number, go to page 87 to learn how.

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

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

Detailed Call Forwarding

Tip: Forward When Unavailable and Forward All Calls override these settings.

Tip: For information on retrieving messages, see "Accessing Messages" on page 90.

Tip: If you have not yet stored a voicemail number, go to page 87 to learn how.

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

1. Follow the steps in "1-2-3: Getting to Call Forwarding..." to get to Detailed Forwarding, and then press **OK** to select.
2. Press **MENU** to scroll to Forward Voice Calls, then press **OK** to select.
3. Press **MENU** to scroll to the option you desire Forward All Voice Calls, If Busy, If No Answer, or If Not Reachable.
4. Press **OK** to select the displayed option.
 - If you select If Busy or If Not Reachable, your calls are automatically forwarded to your Personal Mailbox. Continue with **step 6**.
 - If you select Forward All Voice Calls or If No Answer, continue with **step 5**.
5. Press **MENU** to scroll to either Voicemail or Other Number, and then press **OK**.
 - 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 **OK**. Your phone takes a moment to request the setting from the network, then displays Call Forward On.
7. Press and hold **C** to exit the menu.



Cancel All Forwarding

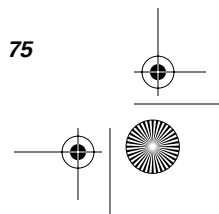
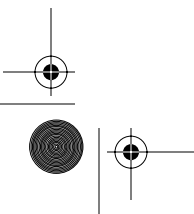
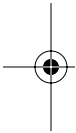
Use this option to clear all Call Forwarding settings.

To cancel Call Forwarding settings:

1. **Follow the steps in** "1-2-3: Getting to Call Forwarding..." to get to **Cancel All Forwarding**, and then **press** **OK** to select.

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

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



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

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

Showing Signal Strength

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 "Deactivating Pending Call Drop Signal" to get to Show Signal Strength.
2. Press **OK** to select. You will see:



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



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

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

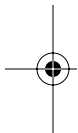


Deactivating Pending Call Drop Signal

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

To deactivate the alert tones:

1. **Follow the steps in the** "Deactivating Pending Call Drop Signal" **to get to Pending Call Drop**, and then **press** **OK** to select.
2. **Press** **MENU** to scroll to either **On** or **Off**, and then **press** **OK** to select.
3. **Press and hold** **C** to exit the menu.



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

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

Activating Call Waiting

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

1. Follow the steps in "Deactivating Pending Call Drop Signal" to get to Call Waiting, and then press **OK** to select.
2. Press **MENU** to scroll to On or Off, and then press **OK** to select the desired option.
3. Press and hold **C** to exit the menu.

For information on using call waiting, see "Using Call Waiting" on page 35.

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

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

Restricting Calls with Call Barring

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

Bar Outgoing Calls

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

To activate this feature:

1. Follow the steps in "1-2-3: Getting to Call Barring..." to get to Bar Outgoing Calls, and then press **OK** to select.
2. Press **MENU** to scroll to On or Off, and then press **OK** to select.
You will see Enter Password.
3. Enter your bar password, and then press **OK**. You will see Completed.
4. Press and hold **C** to exit the menu.

Tip: Your service provider gives you a bar password.

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

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

Bar Incoming Calls

This setting allows you to place calls, but refuses incoming calls. Callers hear a recording telling them you are unavailable. To be sure not to miss a call see "Detailed Call Forwarding" on page 74.

To activate this feature:

1. Follow the steps in "1-2-3: Getting to Call Barring..." to get to Bar Incoming Calls, and then press **OK** to select.
2. Press **MENU** to scroll to On or Off, and then press **OK** to select.
You will see Enter Password.
3. Enter your bar password, and then press **OK**. You will see Completed.
4. Press and hold **C** to exit the menu.

Tip: Your service provider gives you a bar password.

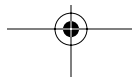
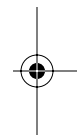
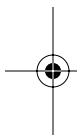


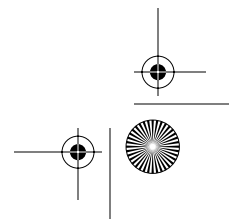
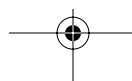
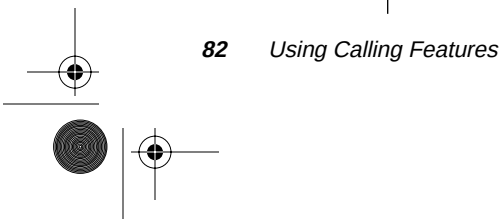
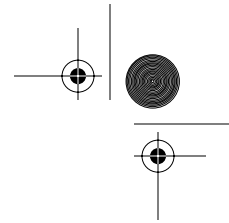
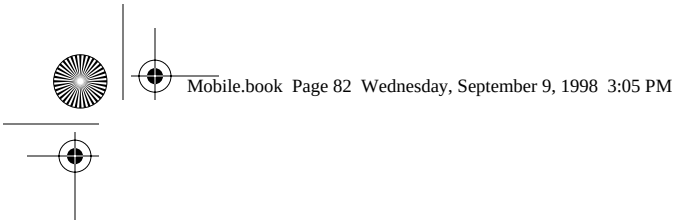
Change Bar Password

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

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

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





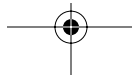
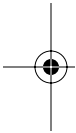


Using Message Services

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

What You'll Learn

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





Entering the Messages Menu



To enter the Messages menu:

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

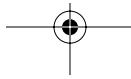
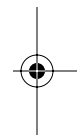
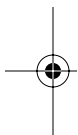
or

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

2. Press  to scroll forward.
3. Press  when you see:



4. Press  to scroll through the submenu.

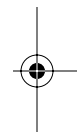




What's on the Messages Menu?

Messages Menu

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





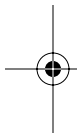
1-2: Getting to Message Features...

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

Checking Your Voicemail

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  to select. You will see your voicemail number followed by Calling.
If you have not previously stored a Voicemail Number, then you will see No Number Available. See page 87 to enter a number.



Storing Your Voicemail Number

To store a voicemail number:

1. **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**.
3. **Press ** to clear one digit at a time, **or press and hold ** to erase the entire number.
4. **Enter the new number**, and then **press **. You will see **Completed**.
5. **Press and hold ** to exit the menu.

Tip: Use pause dialing to store your voicemail access and PIN numbers together. See “Using Pauses in Numbers” on page 54.



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 98 to set your phone's alert.

- **The message icon (✉) is displayed.**
- **The message is displayed immediately** if the message is a fax or voicemail notification message. The message remains on the display for several seconds.

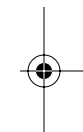
or

Message Read Now? is displayed if the message is an alphanumeric, text message of up to 160 characters. For more information see "Read a New Message" on page 90.

How Messages Are Stored

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

If the message indicator is flashing, your SIM card is full. See "Delete Messages" on page 91 to make room for the new message.





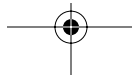
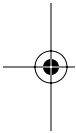
What Messages Contain

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 29.

Messages contain multiple screens with the following information:

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



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

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

Accessing Messages

Read a New Message

Notification Messages

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

- Press  to store it on your SIM card.
- Press  to delete it.

Text Messages

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

1. Press  and continue with **step 2**.
or
Press  to read the message later. See "Read a Stored Message" on page 91."
2. Press  to move forward through a message one screen at a time.
3. Press  to access options for that entry, then proceed to page 92.



Read a Stored Message

To read a stored message:

1. **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**  **to move forward through a message one screen at a time.**
3. **Press**  **to access options for that entry, and then proceed to page 92.**

or

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

Delete Messages

Use this option to make room for new messages:

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



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

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

Go to the Next Message

To go to the next message:

1. Follow the steps in "Read a Stored Message" on page 91.
2. Press  until you see Go To Next Message and then press .
You will see the next message. If you are at the end of your message list you will see the first message again.
3. Press  to move forward through a message one screen at a time.
4. Repeat steps 2 to 3 until you have read all your messages.
5. Press and hold  to exit the menu.

Return a Call

A callback number appears in quotes within the message. If one is enclosed, you can instantly place a call to that number. If one is not included, your phone selects the first number in the message.

1. Follow the steps in "Go to the Next Message" on page 92 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 Calling.



Customizing Phone Features

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

What You'll Learn

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

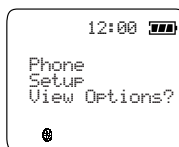




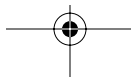
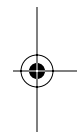
Entering the Phone Setup Menu

To enter the Phone Setup menu:

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



4. Press to scroll through the submenu.



What's on the Phone Setup Menu?

- Phone Setup**
- Adjust Ring Volume
 - Ring or Vibrate
 - Ring Only
 - Vibrate Only
 - Vibrate Then Ring
 - No Ring or Vibrate
 - Set Ringer Tone
 - Standard Tone
 -
 -
 -
 - High Tone
 - Phone Lock
 - Automatic Lock
 - On/Off
 - Lock Now
 - Change Unlock Code
 - Require SIM Card PIN
 - On/Off
 - Change SIM PIN Code
 - Change SIM PIN2 Code
 - New Security Code
 - Extended Menus
 - On/Off
 - Language Selection¹
 - Automatic
 -
 -
 - Türkçe
 - Select Key Pad Tones¹
 - No Tones
 - Normal Tones
 - Single Tone
 - Phone Status¹
 - Status Review
 - Master Reset
 - Master Clear

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

1-2: Getting to Phone Setup...

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

Adjusting the Ringer Volume

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 **OK** to select.
2. Increase the volume by pressing the upper volume key.
or
Decrease the volume by pressing the lower volume key.
3. Press and hold **C** to exit the menu.

Tip: You can also press **↑**, and then the up or down volume key.

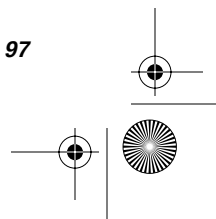
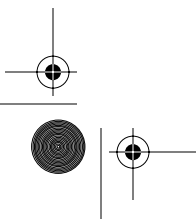


Setting the Phone to Ring or Vibrate

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 Ring or Vibrate, and then press**  **to select.**
2. **Press**  **to scroll to Ring Only, Vibrate Only, Vibrate then Ring, or No Ring or Vibrate, and then press**  **to select the displayed option. You will see Completed.**
3. **Press and hold**  **to exit the menu.**

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



1-2: Getting to Phone Setup...

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

Setting the Ringer Tone

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

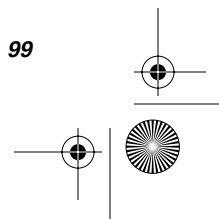
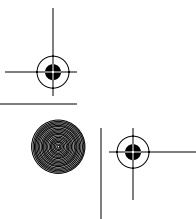
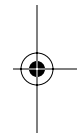
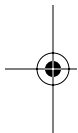
1. Follow the steps in "1-2: Getting to Phone Setup..." to get to Set Ringer Tone, and then press **OK** to select.
2. Press **MENU** to scroll through the options Standard Tone, Single Ring Tone, British Tone, French Tone, German Tone, Bravo Tone, Three Ring Tone, Siren Tone, Quick Tone, or High Tone.
You hear a one ring cycle demonstration.
3. Press **OK** to select the desired option.
4. Press and hold **C** to exit the menu.



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**, **Single Tone**, or **No Tones**, and then **press** .
3. **Press and hold**  to exit the menu.



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

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

Locking and Unlocking Your Phone

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

Lock the Phone Automatically

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

1. Follow the steps in "1-2-3: Getting to Phone Lock..." to get to Automatic Lock, and then press **OK** to select.
2. Press **MENU** to choose On or Off, and then press **OK** to select. You will see Completed.
3. Press and hold **C** to exit the menu.

Lock the Phone Instantly

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 **OK** to select. You will see: Locked.

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



Unlock the Phone

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

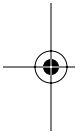
Tip: The factory default unlock code is 1234.

Change the Unlock Code

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

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

Tip: The factory default security code is 000000.



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

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

Protecting the SIM Card

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

Activate and Deactivate the SIM Card PIN

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

1. Follow the steps in "1-2-3: Getting to Require SIM Card PIN..."
2. Press **MENU** to scroll On or Off, and then press **OK**. You will see Enter PIN.
3. Enter PIN code. Enter the 4- to 8-digit code your service provider gave you, and then press **OK**. You will see Completed.
4. Press and hold **C** to exit the menu.

Change the SIM PIN Code

To choose your own PIN code:

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

Unlock 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 * * 0 * 5 * ***.
2. **Enter unblocking key**. Enter the 8-digit unblocking key, and then **press OK**.
3. **Enter a new PIN code**, and then **press OK**.
4. **Re-enter the new PIN code**, and then **press OK**.

1-2: Getting to Phone Setup...

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

Managing Other Security Settings

Your phone includes other security features:

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

Change the SIM PIN2 Code

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

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

Unlock the PIN2 Code

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

1. Press *****, *****, **0+**, **5 jkl**, **2 abc**, *****.
2. **Enter unblocking key.** Enter the 8-digit unblocking code, and then **press OK**. Your service provider supplies this code.
3. **Enter a new PIN2 code**, and then **press OK**.
4. **Re-enter the new PIN2 code**, and then **press OK**.

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 OK** to select. You will see **Enter Security Code**.
2. **Enter the current security code**, and then **press OK**. You will see **Enter New Security Code**.
3. **Enter a new security code**, and then **press OK**. You will see **Secur. Code** and the six-digit number selected.
4. **Press and hold C** to exit the menu.

1-2: Getting to Phone Setup...

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

Activating Extended Menus

This feature activates and deactivates the Extended Menus. See page 134 to learn how Extended Menus can make your phone even simpler to use.

1. Follow the steps in "Selecting the Display Language" to get to Extended Menus, and then press **OK** to select.
2. Press **MENU** to choose On or Off, and then press **OK**.
3. Press and hold **C** to exit the menu.

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

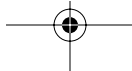


Selecting the Display Language

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

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

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



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

1. Press **MENU** until you see Phone Setup, and then press **OK**.
2. Press **MENU** until you see Phone Status, and then press **OK**.
3. Press **MENU** 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.

1. Follow the steps in "1-2-3: Getting to Phone Status..." to get to Status Review, and then press **OK**.
2. Press **MENU** to scroll through the list of all the menu items you have changed.
3. Press and hold **C** to exit the menu.

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



To reset all settings:

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

Tip: The factory default security code is 000000.

Clear All Stored Information

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

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

Master Clear does not clear the:

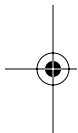
- fixed dial list
- my number(s) list
- received messages list

To clear the settings:

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

Tip: The factory default security code is 000000.





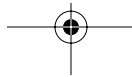
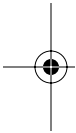


Accessing the Network

This section shows you how to register with the network.

What You'll Learn

- accessing the Iridium satellite network



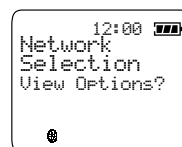


Entering the Network Menu

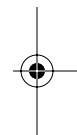
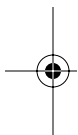


To enter the Network Selection menu:

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



4. Press  to scroll through the submenu.

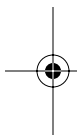




What's on the Network Menu?

Network Selection

- Register Now



1-2: Getting to Network Selection...

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

Registering With the Satellite Network

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

Your phone searches for the Iridium satellite network.

1. **Rotate and extend the antenna** upward. See "Placing Calls" on page 23.
2. **Follow the steps in "1-2: Getting to Network Selection..."** to get to Register Now.
3. Press  to select. You will see Registering.... This may take a few seconds.

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



The  indicator also appears.

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

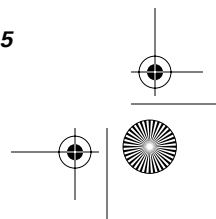
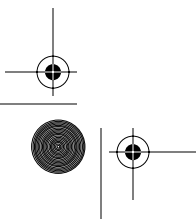
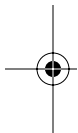


Timing Your Calls

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

What You'll Learn

- viewing your phone's call timers to monitor your airtime
- 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

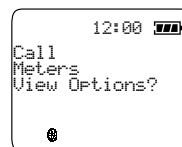




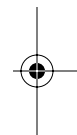
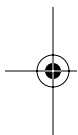
Entering the Call Meters Menu

To enter the Call Meters menu:

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



4. Press to scroll through the submenu.



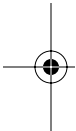


What's on the Call Meters Menu?

Call Meters

- Show Call Timers
 - Show Last Call
 - Total For All Calls
 - Reset All Timers
- Set Audible Call Timers
 - Single Alert Timer
 - On/Off
 - Repetitive Timer
 - On/Off
- Set In-Call Display
 - No In-Call Display
 - Show Time Per Call
- Lifetime Timer¹

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



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

1. Press **MENU** until you see Call Meters, and then press **OK**.
2. Press **MENU** until you see Show Call Timers, and then press **OK**.
3. Press **MENU** 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.

1. Follow the steps in "1-2-3: Getting to Show Call Timers..." to get to Show Last Call, and then press **OK** 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 **C** to exit the menu.

Show Total Time for All Calls

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 **OK** to select.

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

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



Reset All Timers

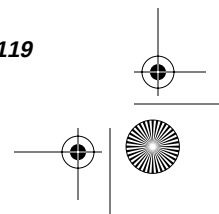
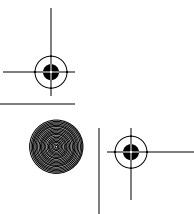
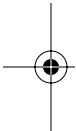
Reset your timers at the beginning of each billing cycle to keep track of your spending.

- 1. Follow the steps in "1-2-3: Getting to Show Call Timers..."** to get to **Reset All Timers**, and then **press** **OK** to select.

You will see **Completed**. The display then returns to **Reset All Timers**.

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

Keep in Mind: This does not reset the Lifetime Timer described on page 123.



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

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

Setting Audible Call Timers

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

Set the Single Alert Timer

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

1. Follow the steps in "1-2-3: Getting to Audible Call Timers..." to get to Single Alert Timer, and then press **OK** to select.
2. Press **MENU** to scroll to On or Off, and then press **OK** to select.
 - If you select On, you will see Enter Seconds. Continue with **step 3**.
 - If you select Off, you will see Completed. Continue with **step 4**.
3. Press **OK** to accept the current setting. You will see Seconds XXX.
or
Enter a number from 11 to 999, and then press **OK**. You will see Seconds XXX.
4. Press and hold **C** to exit the menu.



Set the Repetitive Timer

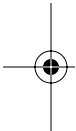
Use this feature to set your phone to alert you at specific intervals, for example every 45 seconds.

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

or

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

4. **Press and hold C** to exit the menu.



1-2: Getting to Call Meters...

1. Press **MENU** until you see Call Meters, and then press **OK**.
2. Press **MENU** 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 **OK** to select.
2. Press **MENU** to scroll to Show Time Per Call or No In-Call Display, and then press **OK** to select.
3. Press and hold **C** to exit the menu.



Show the Lifetime Timer

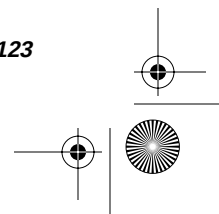
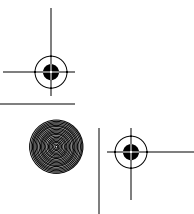
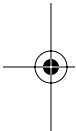
Use this feature to show the total time of all calls for the life of your phone.

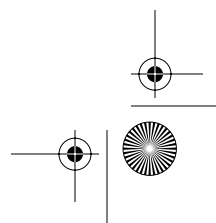
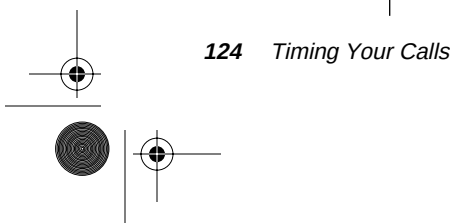
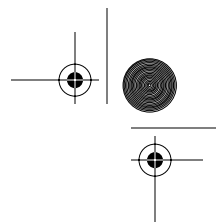
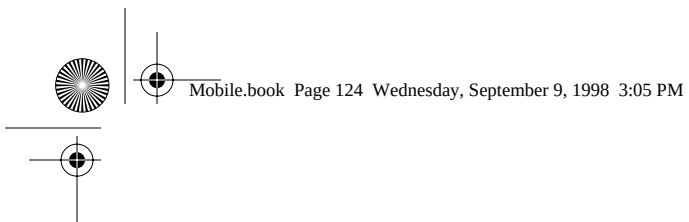
1. **Follow the steps in** "1-2: Getting to Call Meters..." to get to **Lifetime Timer**, and then **press** **OK** to select.

You will see the total airtime of your phone since it was manufactured.

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

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





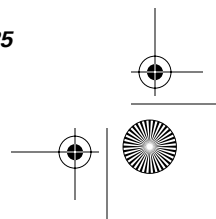
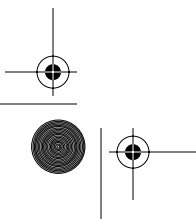


Setting Up Your Accessories

This menu can make using your phone while driving a little easier. You can set your phone to answer automatically after two rings, set a timer to power the phone with the car, automatically mute the radio—even set your car's horn to beep to let you know you're receiving a call when you've stepped away from your car.

What You'll Learn

- muting your car radio automatically when you make or receive a call
- setting your phone to answer automatically after two rings
- powering down your phone at a set time after you turn your ignition off
- setting alerts to notify you of incoming calls when you're away from the car





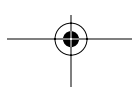
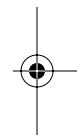
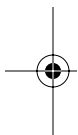
Entering the Accessory Setup Menu

To enter the Accessory Setup Menu...

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



4. Press **MENU** to scroll through the submenu.
5. Press **OK** when prompted View Options?.

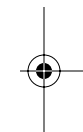




What's on the Accessory Setup Menu?

Accessory Setup

- Mute Car Radio
 - On
 - Off
- Automatic Answer
 - On
 - Off
- Safety Timer
 - On
 - Off
- Auxiliary Alert
 - On
 - Off



1-2: Getting to Accessory Setup...

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

Mute Car Radio

When you activate this option, your car radio is automatically muted when you make or receive a call.

Keep in Mind: This feature works with your car radio's mute feature. It must be enabled by your local dealer. Mute Car Radio won't work if the car kit doesn't support it or if your radio does not have a mute feature.

1. Follow the steps in "1-2: Getting to Accessory Setup..." to get to Mute Car Radio, and then press **OK** to select.
2. Press **MENU** to scroll to On or Off, and then press **OK** to select.
3. Press and hold **C** to exit the menu.

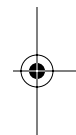


Automatic Answer

Your phone rings twice when a call is incoming, then the call is live. Make sure you activate Automatic Handsfree also.

1. **Follow the steps in** "1-2: Getting to Accessory Setup..." to get to Automatic Answer, and then **press**  to select. You will see Completed.
2. **Press**  to scroll to On or Off, and then **press**  to select.
3. **Press and hold**  to exit the menu.

Tip: If this option is active set the Ring or Vibrate feature be set to Ring Only (see page 97).



1-2: Getting to Accessory Setup...

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

Safety Timer

Tip: This can be useful if you make frequent driving stops—save battery power when you stop longer than expected.

Tip: The Safety Timer is initially set to 60 minutes, but you can choose any length of time between one and 999 minutes.

When your phone is mounted in a car kit, it is powered by your car's battery. Use this feature to keep your phone powered up for a set time after you turn your car's ignition off.

1. Follow the steps in "1-2: Getting to Accessory Setup..." to get to Safety Timer, and then press **OK** to select. You will see Enter Time.
2. Enter the time in minutes, then press **OK**.
3. Press and hold **C** to exit the menu.

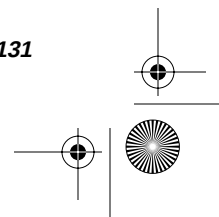
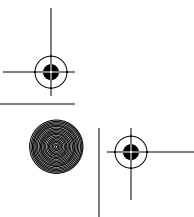
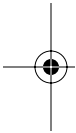
Keep in Mind: If the safety timer is set to zero, the phone connected to the car kit operates only in conjunction with your vehicle's ignition.

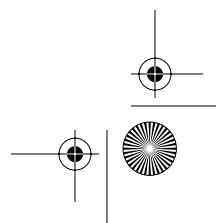
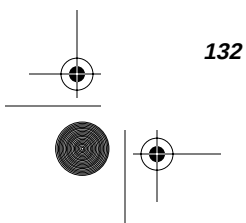
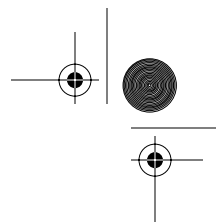
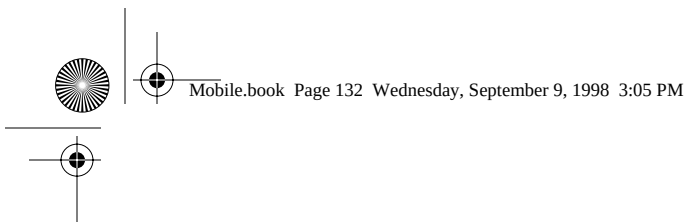


Auxiliary Alert

If you don't want to miss calls when you step away from your car, activate this feature. Your car's horn beeps or lights flash to let you know a call is incoming.

3. **Follow the steps in** "1-2: Getting to Accessory Setup..." **to get to Auxiliary Alert, and then press**  **to select.**
4. **Press and hold**  **to exit the menu.**







Customizing the Menu System

Do you think your 9520 Mobile 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.

What You'll Learn

- personalizing the Options Menu
- personalizing the Quick Access Menu





Personalizing the Options Menu



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

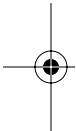
Move Menu Features

To move menu features:

1. **Find the feature** you want to move.
2. **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**  to select.
2. **Press**  until you see Extended Menus, and then **press**  to select.
3. **Press**  to scroll to either On or Off, and then **press**  to select.

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

Access Hidden Features

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

Press and hold  for a few seconds.

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



Personalizing the Quick Access Menu



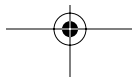
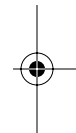
You can put any of the features listed below in the Quick Access Menu instead of the defaults listed on page 43.

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

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**  to access the list of features available.
3. **Press**  to scroll through the list until you find the desired feature.
4. **Press**  to store the displayed feature in the new location.

You will see **Completed**.



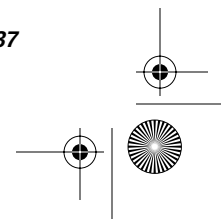
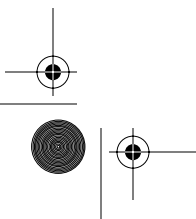
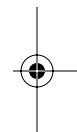


Menu Quick Reference

This section provides a quick reference of the menu structure.

What You'll Learn

- Menu Quick Reference



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
 - Enter 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
- Last Ten Calls
 - Last Calls Made
 - Erase All Numbers
- My Phone Number(s)
- Fixed Dialing
 - View Fixed Dial List
 - Fixed Dial List
 - Setup Fixed Dialing
 - On/Off
 - Edit Entry — Fixed Dial List
 - Add Entry
 - Erase Entry
- One-Touch Dial Settings
 - To Phone Memory
 - To SIM Card Memory
 - To Fixed Dial List

Call Related Features Menu

Call Related Features

- Show Battery Meter
- Show Signal Strength
- Pending Call Drop
 - On/Off
- Call Forwarding¹
 - Forward When Unavailable
 - On/Off
 - Forward All Calls
 - On/Off
 - Detailed Forwarding
 - Forward Voice Calls
 - Forward All Voice Calls
 - On/Off
 - If Busy
 - On/Off
 - If No Answer
 - On/Off
 - If Not Reachable
 - On/Off
 - Cancel All Forwarding
- Call Waiting¹
- Call Barring¹
 - Bar Outgoing Calls
 - On/Off
 - Bar Incoming Calls
 - On/Off
 - Change Bar Password



Messages Menu

Messages Menu

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



Phone Setup Menu

Phone Setup

- Adjust Ring Volume
- Ring or Vibrate
 - Ring Only
 - Vibrate Only
 - Vibrate Then Ring
 - No Ring or Vibrate
- Set Ringer Tone
 - Standard Tone
 - ...
 - High Tone
- Phone Lock
 - Automatic Lock
 - On/Off
 - Lock Now
 - Change Unlock Code
- Require SIM Card PIN
 - On/Off
 - Change SIM PIN Code
- Change SIM PIN2 Code
- New Security Code
- Extended Menus
 - On/Off
- Language Selection¹
 - Automatic
 - ...
 - Türkçe
- Select Key Pad Tones¹
 - No Tones
 - Normal Tones
 - Single Tone
- Phone Status¹
 - Status Review
 - Master Reset
 - Master Clear

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

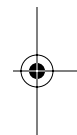
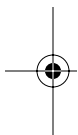


Network Selection Menu



Network Selection

- Register Now

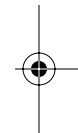
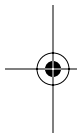




Accessory Setup Menu

Accessory Setup

- Mute Car Radio
 - On
 - Off
- Automatic Answer
 - On
 - Off
- Safety Timer
 - On
 - Off
- Auxiliary Alert
 - On
 - Off





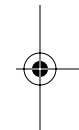
Call Meters Menu



Call Meters

- Show Call Timers
 - Show Last Call
 - Total For All Calls
 - Reset All Timers
- Set Audible Call Timers
 - Single Alert Timer
 - On/Off
 - Repetitive Timer
 - On/Off
- Set In-Call Display
 - No In-Call Display
 - Show Time Per Call
- Lifetime Timer¹

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



Troubleshooting

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

Problem	Solution
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. • 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. • Check your Operator coverage map. • Is Restricted displayed? Check the Call Barring setting. • Has a new SIM card been inserted? Check that no new restrictions have been imposed.
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.
You can't make international calls.	Have you included the relevant codes? Press and hold the 0+ key to display the international dialing prefix (+) and then enter the appropriate country code followed by the phone number.
Your phone won't unlock.	• Have you inserted a new SIM card? Enter the new PIN code. • Do you have a replacement phone? Enter the default phone unlock code —1234. • Have you forgotten the unlock code? Press MENU to change the unlock code (you need your security code).

Problem	Solution
Your PIN is blocked.	Enter the PIN unblocking code or contact your service provider.
Your PIN2 is blocked.	Enter the PIN2 unblocking code or contact your service provider.
Your SIM card won't work.	• Is the card inserted the correct way? • Is the gold chip visibly damaged or scratched? Return the card to your service provider. • Check the SIM and phone contacts. If they are dirty, clean them with an antistatic cloth.
You can't cancel Call Forwarding or Call Barring.	Wait until you are in an area with good network coverage and try again.
The  symbol is flashing.	There is not enough memory available to store another message. Use the Messages menu to delete one or more messages.
You find your phone becoming warm during use.	You may notice this during long calls or during charging. The heat is produced by the electronic components within your phone and is quite normal.
Your phone has your SIM card inside but the display says:	• Check Card or Insert Card. Check that the SIM card has been inserted correctly. The contacts of the SIM card may be dirty. Turn the phone off, remove the SIM card and rub the gold chip on the card with a clean cloth. Replace the card in the phone. • Blocked or Bad Card See Supplier. Please contact your service provider.
You find your phone's prompts in a language other than your own.	Press  , 2  , 6  . This routes you directly to the language selection submenu. Press  until you see your preferred language. Press  to select.

Glossary

A

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.

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

C

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

D

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

DTMF See Dual Tone Multi-Frequency tones.

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

Dual Tone Multi-Frequency Tones The tones that your phone transmits when you press a key on the keypad. These tones are used to access automated calling systems such as voicemail.

E

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

F

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

H

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

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

I

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

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

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

L

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

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

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

M

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

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

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

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

N

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

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

O

One-Touch Dialing To use this feature, press and hold a number on the keypad, **1** through **9** **wayo** 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, Call Meters, Accessory Setup.

P

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

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

prompt A message requesting input.

Q

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



S

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

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

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

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.

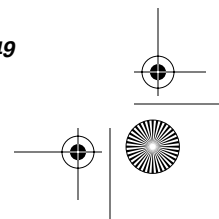
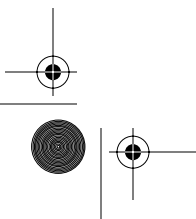
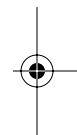
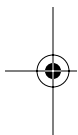
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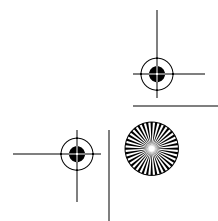
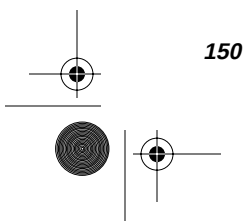
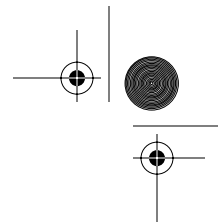
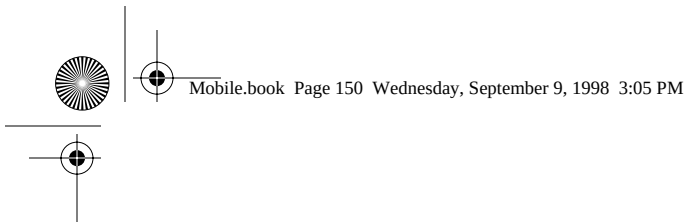
talk-time The amount of time that you spend talking on the phone.

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

V

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





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Patent Information

Manufactured under one or more of the following U.S. patents:

4121218	4616314	4741034	D306594	5083304	D337332	D354062	D368696
4138681	4617520	4742562	4912602	D324024	5230007	5384825	5510693
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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
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Other patents pending.

