QUALCOMM Globalstar GSP1610 Single-Mode User Terminal

Globalstar

User Guide

Preliminary Draft

This guide is based on a version of the QUALCOMM Globalstar
GSP1610 Single-Mode User Terminal. Software changes may have
occurred after this printing.

QUALCOMM reserves the right to make changes in technical and
product specifications without prior notice.

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Cautions and Warnings

⚠️ **Caution**

Any changes or modifications not expressly approved in this document could void your warranty for this equipment and void your authority to operate this equipment.

⚠️ **Warning**

Only use the batteries, antennas, and chargers provided by QUALCOMM. The use of any other type may be dangerous.

✋ **Note**

When using the QUALCOMM Globalstar Single-Mode User Terminal close to a television or radio, the user terminal can cause interference. Regulatory agencies in your area, such as the United States Federal Communication Commission (FCC) or Canadian Industry Canada (IC), can require you to stop using the user terminal if such interference cannot be eliminated. If you need assistance, contact your service provider.

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Introduction

Congratulations on your acquisition of a QUALCOMM Globalstar GSP1610 Single-Mode User Terminal! This high-tech satellite user terminal is referred to as a phone throughout this guide.

Your new phone uses the latest digital wireless technology, Code Division Multiple Access (CDMA), to deliver superior performance for your personal communication needs.

Using your phone efficiently

To obtain best results from your phone and maintain satisfactory service, follow these guidelines:

- Speak directly into the mouthpiece.
- Rotate the Globalstar® satellite antenna for optimal performance.
- Do not use the phone while driving a vehicle unless you are using the QUALCOMM Globalstar Hands-Free Car Kit. See "Hands-free car kit" on page 66.

⚠ Caution

Avoid exposing the phone and accessories to rain or other liquids. If the phone gets wet, turn the power off immediately and remove the battery pack. See "Battery Care and Maintenance" on page 55 for more information.

Allow only authorized personnel to install or service the phone and its accessories. Faulty installation or service can be dangerous and can invalidate the warranty.

Using this guide

To properly operate your phone, first read this guide carefully, especially the battery and safety sections. The following conventions or representations are used in this guide:

Key Presses	Press ⒫.	Press key momentarily.
	Press and hold ⒫.	Press key for more than one second.
Smart Keys™	Smart Key™ **menu**.	Press the Smart Key™ under the Smart Key™ option.
Scroll Keys	Scroll to select **yes** or **no**.	Press either the volume buttons or ⊙ and ⊙.

Contacting customer service

Contact your service provider (SP) for your customer service needs.

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Learn about the phone's features and keypad, display
indicators, security module, and antenna in this section.

Phone's features and keypad

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱

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GLOBALSTAR

menu book

Globalstar
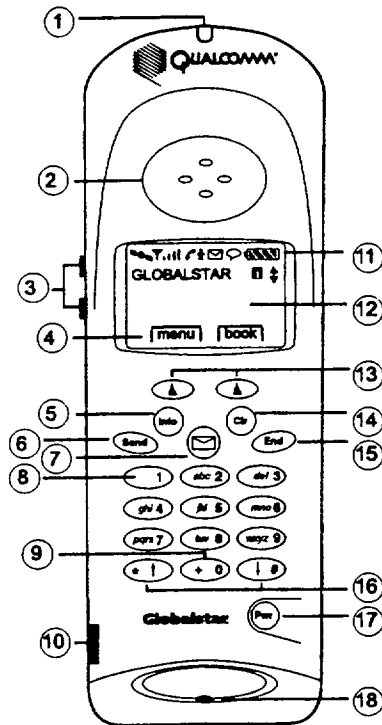
(1)	Light indicator – Power on or incoming call.
(2)	Earpiece
(3)	Volume buttons – Adjust volume levels. Scroll through the menu items if a scroll arrow displays. Move the cursor when editing alphabetic characters or digits.
(4)	SMART KEY™ options – Select using the SMART KEY.
(5)	Information Key – Insert pauses and hyphens. When ▮ displays, get additional help.
(6)	Send Key – Originate or answer a call.
(7)	Message Key – Access text messages and voice mail notifications (VMNs).
(8)	Punctuation Key – Add punctuation or space when entering names to the phone book.
(9)	International Dialing or + Key – Make international calls.
(10)	Security Module – Activate phone (see "Security module" on page 5).
(11)	Display indicators – See "Display indicators" on page 5.
(12)	Screen.
(13)	SMART KEYS – Select the SMART KEY option.
(14)	Clear Key – Clear characters (press to clear one character, or press and hold to quickly clear all characters). Return to previous screen.
(15)	End Key – End a call.
(16)	Scroll Keys – Scroll through menu items if a scroll arrow displays. Move cursor when entering alphabetic characters, but not digits.
(17)	Power Key – Turn the power on and off.
(18)	Microphone.

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Display indicators

The indicators on the screen show you the status of the phone and the battery charge level at a quick glance.

	Phone operating in Globalstar satellite mode.
⊤,ııl	Signal strength ranging from a strong signal (four lines) to an extremely weak signal (one line).
✆	Call in progress.
✆	No service available. The phone beeps once when you try to make a call and service is unavailable.
🕴	Phone roaming outside home area.
✉	Text message received.
♡	Voice mail notification received.
▰	Battery life ranging from four diagonal bars (full charge) to one bar (minimal charge).
ℹ	Help available (press ⓘ).
✓	Designates selected menu option on screen.
↑ ↓ ↕	Indicates you can scroll between screens using the volume buttons or ⊖ and ⊕.
🔒	Indicates text message is locked.
🔓	Indicates text message is unlocked.

Security module

The security module activates your phone and is located on the lower left side of the phone. Your SP installs and maintains the security module. The security module that comes with your phone only works with that phone and is not interchangeable.

⚠ **Caution**
   Do not remove the security module.

The security module must be properly installed to receive or make non-emergency calls. If the security module is not properly installed, you can only make emergency calls. Contact your SP for more information.

Antenna

The phone's performance depends on the strength of the signal it receives. As you rotate the Globalstar satellite antenna, the signal strength indicator shows improved performance. It is important to use the antenna properly for the best performance. Follow these guidelines:

- Do not hold the phone by the antenna.
- Do not use the phone if the antenna is damaged, unless you are using it with the car kit.

Using the Globalstar satellite antenna

1. Rotate the Globalstar satellite antenna until it clicks to either the first or second position:

    a. First position – Sets the antenna vertical to the ground if you hold the phone to your left ear.

    b. Second position – Sets the antenna vertical to the ground if you hold the phone to your right ear.
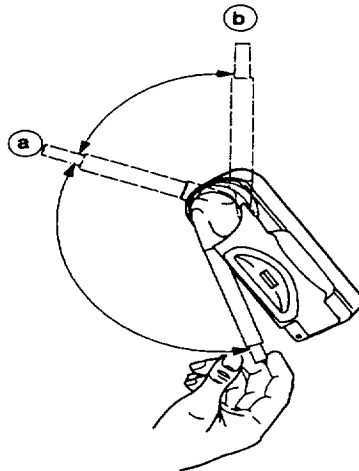
The Globalstar satellite antenna automatically extends to the proper length and automatically retracts when stowed.

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⚠ **Caution**

Never manually push or pull the Globalstar satellite antenna in or out of its protective sleeve.

2. Always hold the phone so that the Globalstar satellite antenna is vertical to the ground.

3. Hold the phone so that the antenna has an unobstructed view of the sky and the horizon.

⚠ **Caution**

The phone is unlikely to work inside a vehicle, in a building, or in an area where a view of the sky and the horizon is obstructed.

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Learn about these topics in this section:

- turning the phone on and off
- operating modes
- making, receiving, muting, and ending calls
- entering alphanumeric characters
- redialing numbers
- SP services (international dialing, call waiting, three-way calling, and caller ID)

Turning the phone on

1. Make sure the battery is charged (see "Battery charging" on page 56).
2. Press and hold (Pwr) until the indicator light illuminates (about one second). The phone is in standby mode (see "Standby mode" on page 10):

```
         📞      🔋
Looking for
Service...

  [menu]   [book]
```
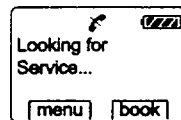
The phone first performs a self-test so you know it is ready to make or receive calls. See "Making calls" on page 11 or "Answering calls" on page 12.

Turning the phone off

1. Press and hold (Pwr) until "Powering Off" displays.
2. Release (Pwr).

Note
If you press (Pwr) for less than one second, the phone does not turn off.

Standby mode

Standby mode means the phone is powered on and looking for
service, as the following screen shows:

```
      📞      ▱▱▱
Looking for
Service...

 ┌menu┐  ┌book┐
```

Service Currently Unavailable mode

If the phone cannot find service, it goes into Service Currently
Unavailable mode, and the following message periodically
flashes:

```
      📞      ▱▱▱
Service Currently
Unavailable...

 ┌menu┐  ┌book┐
```
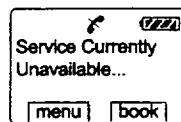
The phone periodically attempts to find service while in this
mode. To return to standby mode, press any key.

Entering alphanumeric characters

When the phone is in standby mode, you can only enter digits.
You enter names when you save a phone number in the Phone
Book (see "Saving entries" on page 19).

To enter digits

1. From standby mode, enter the digits.
2. Do one of the following:
    ■ Press (Send) to place the call.
    ■ SMART KEY **save** to save the number in the Phone
       Book.

To enter letters

1. Press a key repeatedly to display the letters in uppercase,
    then lowercase, and finally the number. For example, if
    you repeatedly press (def3), the following characters
    display:

    D   E   F   d   e   f   3

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2.   Do one of the following:

 ■   Enter another letter if the cursor automatically advances.

 ■   Move the cursor by pressing a down scroll key.

3.   SMART KEY **ok** after you enter the name.

To enter spaces

●   Press ⬭ or the down volume button.

To enter punctuation or space

●   Press ⬭ repeatedly and the punctuation or space displays in the following order:

   –   <space> @ & ( ) : . ' # * , 1

To edit letters and digits

 ■   For letters, move the cursor by pressing ⬭ or ⬭ or by pressing the volume buttons.

 ■   For digits, move the cursor by pressing the volume buttons.

Note

You cannot use ⬭ or ⬭ to move the cursor when entering digits because you can use these keys to enter # or * for dialing.

To delete letters and digits

 ■   Press ⬭ to delete one previous character at a time.

 ■   Press and hold ⬭ to quickly delete previous multiple characters.

Making calls

To make a call

1.   Press and hold ⬭ to turn the phone on.

2.   Rotate the Globalstar satellite antenna.

3.   Enter the phone number you want to call.

4.   Press ⬭. A message displays if the phone is locked, the phone number is restricted, or there is another problem.

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Note

Do not remove the security module while on a call, or the call will be dropped.

Making emergency calls

Locking or restricting the phone does not prevent you from placing a call to emergency numbers.

You can program up to three emergency numbers, and your SP can program additional emergency numbers. For more information, see "Security Menu" on page 37.

To make an emergency call

1. Enter the emergency number (for example, 911).

2. Press (Send).

Redialing a call

You can redial the last outgoing number automatically.

To redial the last outgoing number

■ Press (Send).

Answering calls

When you receive a call while the phone is in standby mode, the phone rings, the indicator light flashes, and "Incoming Call" flashes on the screen until you answer the call.

To answer a call

■ Do one of the following:

□ Press (Send).

□ From standby mode, if Any Key Answer is on, press any key except (Pwr) or (End) (see "Any Key Answer" on page 48).

Note

Do not remove the security module while on a call, or the call will be dropped.

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To silence the ringer when receiving an incoming call

- Press (End).

Muting a call

While you are on a call, you can mute the microphone so that the caller cannot hear you.

To turn mute on

1. SMART KEY **mute**. The word "Mute" replaces the word "Time" on the screen and displays until you access the menus or end the call.

```
┌─────────────────┐
│ Y.ıl ʃ    ▨▨▨   │
│ Mute  1:06      │
│                 │
│ ┌ menu ┐ ┌ mute ┐│
└─────────────────┘
```
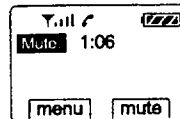
To turn mute off

1. SMART KEY **mute**. The word "Time" replaces the word "Mute" on the screen.

Ending calls

To end a call

- Press (End). The total time of the call displays.

Displaying the phone's phone number

To display the phone's phone number

- Turn the phone on, and the number briefly displays.
- From standby mode, press (Info).

International dialing

You can make international calls using the plus key (+ 0).

To make international calls

1. Press and hold (+ 0) until a plus (+) displays on the screen.
2. Enter the country code and the phone number. For example, if you enter country code 011, the area code 987,

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and the number 654-3210, the following displays on the screen:

```
 ㄱ.ıl          (▨)

              +0-11
       9-876-543210
    [ save ]  [ find ]
```
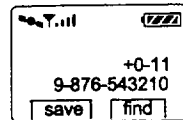
Note

You can either manually enter hyphens or set AutoHyphen to on for automatic insertion of hyphens. See "Auto Hyphen" on page 45.

3.   Press (Send).

If international dialing is supported in your network, contact your SP for more information.

Call waiting

For instructions on how to use call waiting, contact your SP.

Three-way calling

For instructions on how to use three-way calling, contact your SP.

Caller ID

When you receive an incoming call, the caller's phone number displays on the screen. If the phone number of the caller is stored in your phone book, the name displays instead of the phone number.

For more information on caller ID, contact your SP.

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Learn how to navigate through the phone's menus in this section. The following road map shows the various menus.

```
⓪ Phone Book ·········· | view |  ············ | find |
                           |                     ⋮
                        | options |              ⋮
                                                 ⋮
                        ⓪ Edit          ⓪ Name
                        ⓑ Erase         ⓑ Phone #
                        ⓔ Secret        ⓔ Location
                        ⓤ View Number
                        ⓕ Prepend
                        ⓖ Play Tones

⓫ Call Hist ················ | view |

⓬ Messages ············· | text |        | voice |

⓭ Features················ ⓪ Key Guard
                           ⓑ Scratchpad

⓮ Call Info ················ ⓪ Last Call
                           ⓑ Home Calls
                           ⓔ Roam Calls
                           ⓤ Recent Calls
                           ⓕ All Calls

⓯ Security ─────── ⓪ Lock Phone
                   ⓑ Restrict Phone
                   ⓔ Enter New Code
                   ⓤ Emergency Number Editing
                   ⓕ Erase Call History
                   ⓖ Erase Phone Book
                   ⓗ Erase SMS
                   ⓘ Reset Preferences

⓰ Preference ─────── ⓪ Sounds ─────── ⓪ Ringer Type
                                       ⓑ Ringer Volume
                                       ⓔ Earpiece Volume
                                       ⓤ Key Beep Sound
                                       ⓕ Key Beep Volume
                                       ⓖ Key Beep Length

                     ⓑ Display ─────── ⓪ Backlight
                                       ⓑ Banner
                                       ⓔ Show Time
                                       ⓤ Auto Hyphen

                     ⓔ Alerts ─────── ⓪ Fade
                                       ⓑ Minute
                                       ⓔ Service Change

                     ⓤ Calling ─────── ⓪ Auto Answer
                                       ⓑ Auto Retry
                                       ⓔ One-Touch Dial
                                       ⓤ Any Key Answer
```

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```
☐ System ─────────── ☐ Status
            ─────────── ☐ Force System
                            Reacquisitions
         ·············· ☐ Version
         ·············· ☐ Service ─────── ☐ Known List
                         Provider       ☐ Preferred List
                         Select         ☐ Prohibited List
         ·············· ☐ Service Provider
         ·············· ☐ Territory
```

Navigating the menus

The phone's menus are designed like computer menus, and you can easily navigate through them.

To access the main menu

1. Turn the phone on. The phone is now on standby mode. See "Standby mode" on page 10.

```
┌─────────────────┐
│      ✂    ▨▨▨   │
│ Looking for     │
│ Service...      │
│                 │
│ ┌────┐  ┌────┐  │
│ │menu│  │book│  │
└─────────────────┘
```

2. SMART KEY **menu** and the first three main menu items display. If there are scroll arrows on the screen, you can scroll between screens to access additional menu options.

   Each main menu item is explained in sequential order in a separate section of this user guide.

```
┌─────────────────┐
│ ▰▰T.ıl    ▨▨▨   │
│ Main Menu    ↓  │        page 19
│ ☐ Phone Book    │        page 25
│ ☐ Call Hist     │        page 27
│ ☐ Messages      │
└─────────────────┘
```
page 19
page 25
page 27

```
┌─────────────────┐
│ ▰▰T.ıl    ▨▨▨   │
│ Main Menu    ↕  │
│ ☐ Features      │        page 31
│ ☐ Call Info     │        page 33
│ ☐ Security      │        page 37
└─────────────────┘
```
page 31
page 33
page 37

```
┌─────────────────┐
│ ▰▰T.ıl    ▨▨▨   │
│ Main Menu    ↑  │
│ ☐ Preference    │        page 41
│ ☐ System        │        page 49
│                 │
└─────────────────┘
```
page 41
page 49

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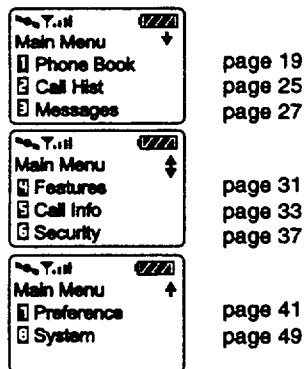
To navigate the menus

■ To access additional menu items when a scroll arrow displays on the screen, press the scroll keys.

■ To select a menu item, press the corresponding number.

To save changes or a setting

■ SMART KEY ok.

To return to previous screen without saving changes

■ Press (Clr).

To return to main menu if *not* on a call without saving changes

■ Press (End).
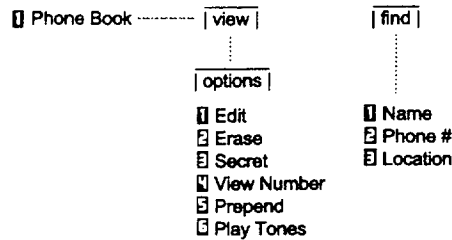
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0 Phone Book ------- | view | | find |

| options |
0 Edit   0 Name
0 Erase   0 Phone #
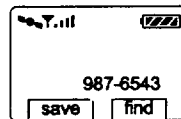0 Secret   0 Location
0 View Number
0 Prepend
0 Play Tones

Learn about speed dialing and one-touch dialing in this section.

Saving entries

The phone saves up to 99 entries. Each entry contains a name (up to 12 characters) and phone number (up to 32 digits) stored in location numbers 1 through 99. See "Entering alphanumeric characters" on page 10.

To save entries

1. Do one of the following:
   - Enter a phone number from standby mode.
   - Select a number from the scratchpad.
   - Select a number on the call history list.
   - Select a number on the screen, such as Caller ID.

   ```
   ┌──────────────────┐
   │ ꞏꞏ.T.ıl      ▨▨▨ │
   │                  │
   │                  │
   │       987-6543   │
   │ ┌──────┐ ┌──────┐│
   │ │ save │ │ find ││
   └──────────────────┘
   ```

2. SMART KEY **save**.
3. Enter a name and SMART KEY **ok**.
4. Enter a location number:
   - If the phone book is *not* full:
     □ SMART KEY **ok** to automatically accept the next empty location.
     □ SMART KEY **next** to select a specific location.

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■ If the phone book is full, enter a location number that you want to reuse.

Making entries secret

To prevent a phone number from displaying on the screen, you can make the entry "Secret."

To make an entry secret or non-secret

1. From standby mode, SMART KEY **book**.
2. Select the entry you want to make secret.
3. SMART KEY **view**.
4. SMART KEY **options**.
5. Press ⬭ and scroll to select:
    ■ yes – makes the entry secret
    ■ no – makes the entry non-secret
6. SMART KEY **ok**.

Finding entries

You can find entries either by name, phone number, or location number. You can also scroll through the phone book to view the entries.

To find an entry

1. From standby mode, SMART KEY **book**.
2. SMART KEY **find**.
3. Press:
    ■ ⬭ for Name.
    ■ ⬭ for Phone #.
    ■ ⬭ for Location.
4. Enter one or more characters.

Note
Searches ignore differences between upper- and lowercase letters.

5. SMART KEY **find** and scroll through the entries if necessary.

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6. SMART KEY **view**.

7. Press (Send) to call the number.

Editing entries

To edit entries

1. From standby mode, SMART KEY **book**.

2. Select the entry and SMART KEY **view**.

3. SMART KEY **options**.

4. Press (1) to Edit.

5. Press:

    - (1) for Name.

    - (abc 2) for Number.

    - (def 3) for Location.

6. Edit the name or phone number, or edit a location number by doing one of the following:

    - Enter a new location number.

    - SMART KEY **next** to scroll to a new location number.

7. SMART KEY **ok**.

Erasing entries

To erase entries

1. From standby mode, SMART KEY **book**.

2. Select the entry and SMART KEY **view**.

3. SMART KEY **options**.

4. Press (abc 2) to Erase.

5. SMART KEY **ok**.

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Viewing numbers

You can view an entry's entire phone number. You can also prepend digits, or add digits at the beginning of the phone number, when viewing a number.

To view numbers

1. From standby mode, SMART KEY **book**.
2. Select the entry and SMART KEY **view**.
3. SMART KEY **options**.
4. Press ⟨9h 4⟩ for View #.
5. Do one of the following:
   - SMART KEY **ok** to return to the previous menu.
   - Press ⟨End⟩ to return to standby mode.

Prepending numbers

You can permanently prepend numbers, or add numbers at the beginning of the phone number, to an existing phone book entry such as an area code or country code.

To prepend numbers

1. From standby mode, SMART KEY **book**.
2. Select the entry and SMART KEY **view**.
3. SMART KEY **options**.
4. Press ⟨* 5⟩ for Prepend. The phone number displays.
5. Enter the numbers.
6. SMART KEY **save**.

Playing tones

You can play DTMF (Dual Tone Multi-Frequency) tones over the air using the keypad when using automated phone services, such as voice mail or online banking.

Note

The key beep length affects the DTMF tones, the sound you hear when pressing the keys. For more information, see "Key Beep Length" on page 43.

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To play tones

1. While on a call, SMART KEY **book**.
2. Select the entry and SMART KEY **view**.
3. SMART KEY **options**.
4. Press (mno 6) for Play Tones. The tones are sent over the air.

Speed dialing

You can speed dial a phone number if you know the location number of the phone book entry. You can speed dial any of the 99 location numbers unless the phone is restricted. If you restrict the phone, then only the emergency numbers (both yours and the SP's) and the first 9 phone book locations are available for speed dial.

To speed dial a phone number

1. Enter the location number.
2. Press (Send).

One-touch dialing

If you set one-touch dial to on, you can dial any of the 99 location numbers without pressing (Send). To set one-touch dial, see "One-Touch Dial" on page 48

To one-touch dial a phone number

1. Set one-touch dial (see "To set one-touch dial" on page 48).
2. Press and hold the last digit of the location number. For example:
   - Press and hold (def 3) for location number 3.
   - Press (def 3) and then press and hold (abc 2) for location number 32.

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You can access a call history list of the last 10 calls (incoming or outgoing), as well as view details about each call.

■ Called By   Incoming calls, if caller ID is available (see "Caller ID" on page 14)

■ Call To   Outgoing calls

■ Added   Scratchpad entries (see "Scratchpad" on page 31)

■ Missed   Unanswered calls, if caller ID is available

■ Caller ID   Caller ID information received

■ Call Waiting   Call-waiting information received during a call

The most recent call displays at the top of the list and the oldest call at the bottom (separated by a line). When the list is full, a new call replaces the oldest call in the list.

Names display in the call history list when the caller's phone number is identified as stored in the phone book.

Reviewing call history

To review the call history list

1. From standby mode, SMART KEY **menu**.
2. Press ⬭ for Call Hist.
3. Press the scroll keys to review the last 10 calls.
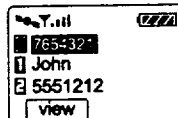
4. Scroll down to select a call from the most recent to the oldest calls, or scroll up to select a call from the oldest to the most recent. The most recent call and the oldest call are separated by a dashed line.
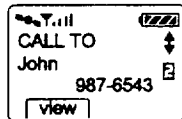
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5. Do one of the following:

    ■ To call the number, press (Send).

    ■ To save the number in your Phone Book, SMART KEY **view** and SMART KEY **save**. (See "Saving entries" on page 19.)

    ■ To exit Call History without calling or storing a number, press (Clr) or (End).

Viewing call history details

To view details about a call

1. Scroll to select a call on the list.

2. SMART KEY **view**.

```
 ╔═══════════════╗
 ║ ▀▄Y.ıl    ▐▨▨▌ ║
 ║ CALL TO     ↕ ║
 ║ John          ║
 ║    987-6543 ▣ ║
 ║ ┌──────┐      ║
 ║ │ view │      ║
 ╚═══════════════╝
```

3. Do one of the following:

    ■ Scroll up or down to view other calls.

    ■ To call the number, press (Send)

    ■ To save the number in your Phone Book, SMART KEY **view** and SMART KEY **save**. (See "Saving entries" on page 19.)

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Learn about retrieving text and voice mail notifications
(VMNs) in this section. If the message feature is not available,
contact your SP.

You can retrieve text and VMNs from your phone. When the
phone is turned on and you receive a text message or VMN, the
phone alerts you by sounding a beep and the text message ✉
or VMN ⌕ indicators display on the screen until you read all
the messages.

You always access new messages before accessing old
messages. If the message contains a call back number saved in
your phone book, the corresponding name displays in place of
the number.

Voice Messages

You retrieve actual voice messages from your SP's voice mail
system. You receive VMNs and possibly more detail from your
SP through the phone.

If you have more than one voice mail system, the total number
of messages received by those systems displays on the screen,
not the total number of VMNs. If new VMNs are received, the
total number of messages received by all the voice mail systems
is updated.

To access voice mail notifications

1.   Press ✉. The total number of voice mail messages
      received displays under "old."

2.   SMART KEY **voice**. The VMN displays either a call back
      number or a name in your phone book associated with the
      call back number.

3.   Do one of the following:

      ■   SMART KEY **next** to read the next VMN.

      ■   SMART KEY **view** to display more detail if available.
           It automatically scrolls on the screen and pauses so
           you can read it. Press a scroll key to manually scroll.

To call your voice mail system

1.   Press ✉.

2. SMART KEY **voice**.

3. SMART KEY **next** to find the VMN you want.

4. SMART KEY **view**.

5. Press ⟨**Send**⟩.

6. If necessary, prepend digits to, or add digits to the beginning of, the voice mail number if a call back number is received. If not, the message "No Voice Mail # received" displays. For example, if you are out of the area of the voice mail number, enter the area code or country code.

7. Press ⟨**Send**⟩ again.

8. Follow the voice mail system's instructions to retrieve your messages.

To erase voice message notifications

1. Press ✉.

2. SMART KEY **voice**.

3. SMART KEY **next** to find the VMN you want.

4. SMART KEY **view**.

5. SMART KEY **eras** to erase the message.

6. SMART KEY **ok**.

Text Messages

Text messages can include call back numbers, messages, urgency stamps, time and date stamps, and possibly names if the call back number matches one in the phone book. The phone stores as many text messages as available memory allows. For more information on managing phone memory, see "Text message storage" on page 30.

To access text messages

1. Press ✉. The number of old and new text messages displays.

2. SMART KEY **text**. The newest unread message displays first followed by the newest read message, if any.

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3. Do one of the following:

   ■ SMART KEY **next** to read the next message.

   ■ SMART KEY **view** to display more detail if available. It automatically scrolls on the screen and pauses so you can read it. Press a scroll key to manually scroll.

To call back numbers in text messages

1. Press ✉.
2. SMART KEY **text**.
3. SMART KEY **next** to find the message you want.
4. SMART KEY **view**.
5. Press ⬭Send⬭.
6. Prepend digits to, or add digits to the beginning of, the call back number if necessary. For example, if you are out of the area of the phone number, enter the area code or country code.
7. Press ⬭Send⬭ again.

To erase text messages

1. Press ✉.
2. SMART KEY **text**. The messages displays the text message.
3. SMART KEY **view** to display more detail if available. It automatically scrolls on the screen and pauses so you can read it. Press a scroll key to manually scroll.
4. Scroll to the bottom of the message and SMART KEY **opts**.
5. Press ⬭1⬭ for Erase.
6. SMART KEY **ok** to erase the message.

To lock or unlock text messages

1. Press ✉.
2. SMART KEY **text**. The newest text message displays.
3. SMART KEY **view** to display more detail if available. It automatically scrolls on the screen and pauses so you can read it. Press a scroll key to manually scroll.
4. Scroll to the bottom of the message and SMART KEY **opts**.

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5. Press:

- ■ (abc 2) for Lock. The lock 🔒 indicator displays to the left of the SMART KEYS.

- ■ (def 3) for Unlock. The unlock 🔓 indicator displays to the left of the SMART KEYS.

Text message storage

Text messages are saved until you erase them or until the phone memory is full. The oldest unlocked messages are deleted to allow for receipt of new messages when the phone runs out of memory.

To prevent messages from being deleted, you can lock them. However, if all messages are locked when the phone runs out of memory, the new message is lost. The network may try to deliver it later.

To find out the percentage of used memory

1. Press 📧 and a message displays:

```
┌─────────────────────┐
│ ↖↖Y.ıl        ▨▨▨ │
│ WARNING! Mem        │
│ is almost           │
│ full (__%).         │
│    ┌────┐           │
│    │ ok │           │
│    └────┘           │
└─────────────────────┘
```
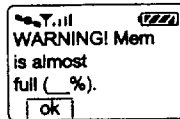
To avoid running out of memory

- • Erase locked or unlocked messages that you no longer need. When the phone runs out of memory with all of the text messages locked, it no longer accepts new messages and this message displays:

```
┌─────────────────────┐
│ ↖↖Y.ıl        ▨▨▨ │
│ Message Lost        │
│ Insufficient        │
│ Memory!!            │
│    ┌────┐           │
│    │ ok │           │
│    └────┘           │
└─────────────────────┘
```
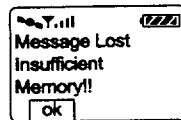
The network may try to deliver lost messages later.

Preliminary Draft

□ Features ················· [] Key Guard
B Scratchpad

Key Guard

The key guard locks the phone keys to prevent accidental use.

To turn the key guard on

• *Shortcut*: From standby mode, press and hold ⟨End⟩. The lock 🔒 indicator and "KeyGuard On" displays.

To turn the key guard off

• Press ⟨ 1 ⟩ ⟨abc 2⟩ ⟨def 3⟩ .

Scratchpad

While on a call, you can enter numbers to add to call history, save to your phone book, or play tones over the network, such as PINs (personal identification numbers) when banking online.

To access the scratchpad

1. From standby mode, SMART KEY **menu**.
2. Press ⟨ghi 4⟩ for Features.
3. Press ⟨abc 2⟩ for Scratchpad.
4. Enter numbers.
5. SMART KEY **options**.
6. Press:

   ■ ⟨ 1 ⟩ to AddToHist, and the number is added to call history.

   ■ ⟨abc 2⟩ to Save to your phone book. See "Saving entries" on page 19.

   ■ ⟨def 3⟩ to Play Tones, and the tones are immediately sent over the network.

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🗀 Call Info ················ 🗋 Last Call
                       🗋 Home Calls
                       🗋 Roam Calls
                       🗋 Recent Calls
                       🗋 All Calls

The Call Info menu contains counters that allow you to track the number of calls and airtime for billing purposes.

Last Call

Last Call displays the duration of the last call in minutes and seconds. If Call History is empty, "None" displays.

To display last call information

1. From standby mode, SMART KEY **menu**.
2. Press ⬭ for Call Info.
3. Press ⬭ for Last Call.
4. SMART KEY **ok**.

Home Calls

Home Calls displays the number and duration of all incoming and outgoing calls made in your home service area. You can reset this counter to zero.

To display home calls information

1. From standby mode, SMART KEY **menu**.
2. Press ⬭ for Call Info.
3. Press ⬭ for Home Calls.
4. SMART KEY **ok**.

To reset the counter to zero

1. SMART KEY **zero**.
2. SMART KEY **ok**.

To undo the counter reset

- SMART KEY **undo**.

Note

After you SMART KEY **ok**, you cannot undo the counter reset.

Roam Calls

Roam Calls displays the number and duration of roam calls. You can reset this counter to zero.

To display roam calls information

1. From standby mode, SMART KEY **menu**.
2. Press ⬭ for Call Info.
3. Press ⬭ for Roam Calls.
4. SMART KEY **ok**.

To reset the counter to zero

1. SMART KEY **zero**.
2. SMART KEY **ok**.

To undo the resetting of the counter

- SMART KEY **undo**.

Note

After you SMART KEY **ok**, you cannot undo the counter reset.

Recent Call

Recent Call displays the number and duration of calls made or received since resetting the counter. You can reset this counter to zero.

To display recent calls information

1. From standby mode, SMART KEY **menu**.
2. Press ⬭ for Call Info.

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3. Press ⊙ for Recent Call.
4. SMART KEY **ok** to return to standby mode.

To reset the counter to zero

1. SMART KEY **zero**.
2. SMART KEY **ok**.

To undo the resetting of the counter

• SMART KEY **undo**.

Note

After you SMART KEY **ok**, you cannot undo the
counter reset.

All Calls

All Calls displays the number and duration of all calls for the
lifetime of your phone. You cannot reset this counter.

To display all calls information

1. From standby mode, SMART KEY **menu**.
2. Press ⊙ for Call Info.
3. Press ⊙ for All Calls.
4. SMART KEY **ok**.

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⬚ Security ················· ⬚ Lock Phone
⬚ Restrict Phone
⬚ Enter New Code
⬚ Emergency Number Editing
⬚ Erase Call History
⬚ Erase Phone Book
⬚ Erase SMS
⬚ Reset Preferences

When you access the Security menu, enter the code supplied by your SP. Change the code immediately after receiving the phone from your SP. See "Entering a new code" on page 38.

Subsequently, each time you access the Security menu, you are prompted for your new code. If you forget your code, contact your SP.

Locking the phone

You can lock the phone so you can receive calls, but you can only dial emergency numbers. To dial emergency numbers, use manual dial, speed dial, one-touch dial, or last number redial.

To lock the phone

1. From standby mode, SMART KEY **menu**.
2. Press ⬭ for Security and enter code.
3. Press ⬭ for Lock Phone.
4. Scroll to select one of these options:
    ■ never – Never locks the phone.
    ■ now – Immediately locks the phone. This resets to Never the next time you use your lock code to unlock the phone.
    ■ on power up – Locks the phone when turned on.

Restricting the phone

You can restrict outgoing calls only to emergency numbers or phone book locations 1 to 9.

To restrict the phone

1. From standby mode, SMART KEY **menu**.
2. Press ⬭ for Security and enter code.
3. Press ⬭ for Restricted.
4. Scroll to select one of these options:
    ■ yes – Make calls only to emergency numbers and phone book locations 1 to 9.
    ■ no – Make calls to any number.

Entering a new code

You can change your code to access the Security menus.

To enter a new code

1. From standby mode, SMART KEY **menu**.
2. Press ⬭ for Security and enter current code.
3. Press ⬭ for New Code.
4. Enter a new code consisting of four digits.
5. SMART KEY **save**. The new code displays momentarily on the screen.

Editing emergency numbers

You can program up to three emergency numbers, and your SP can program additional emergency numbers. You can call emergency numbers when the phone is locked or restricted. You can also view the entire emergency number (up to 32 digits).

To edit an emergency number

1. From standby mode, SMART KEY **menu**.
2. Press ⬭ for Security and enter code.
3. Press ⬭ for Emergency.
4. Scroll to Emergency1, Emergency2, or Emergency3.

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5.   SMART KEY **edit**.

6.   Enter the emergency number.

7.   SMART KEY **ok**.

Erasing call history

To erase the call history list

1.   From standby mode, SMART KEY **menu**.

2.   Press ⬭ (mno 6) for Security and enter code.

3.   Press ⬭ (jkl 5) for Erase Call.

4.   SMART KEY **ok**.

5.   SMART KEY **ok** when prompted to erase the call history list.

Erasing phone book

To erase all phone book entries

1.   From standby mode, SMART KEY **menu**.

2.   Press ⬭ (mno 6) for Security and enter code.

3.   Press ⬭ (mno 6) for Erase Book.

4.   SMART KEY **ok**.

5.   SMART KEY **ok** when prompted to erase the phone book.

Erasing SMS

You can erase all SMS (Short Message Service) messages, which include all text and VMN messages.

To erase all messages

1.   From standby mode, SMART KEY **menu**.

2.   Press ⬭ (mno 6) for Security and enter code.

3.   Press ⬭ (pqrs 7) for Erase SMS.

4.   SMART KEY **ok**.

5.   SMART KEY **ok** when prompted to erase all messages.

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Resetting Preferences

You can reset all preferences to the original defaults set by your SP. This option also deletes the SP Preferred and Prohibited Lists (see "Service Provider Select" on page 50).

However, this option does not erase the phone book, call history, SMS messages, or banner, and does not reset the security code.

To reset preferences

1. From standby mode, SMART KEY **menu**.
2. Press ⬭mno6 for Security and enter code.
3. Press ⬭tuv 8 for Reset Prefs.
4. SMART KEY **ok**.
5. SMART KEY **ok** when prompted to erase all preferences.

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🔲 Preference ·········· 🔲 Sounds ·········· 🔲 Ringer Type
 🔲 Ringer Volume
 🔲 Earpiece Volume
 🔲 Key Beep Sound
 🔲 Key Beep Volume
 🔲 Key Beep Length

 ·········· 🔲 Display ——— 🔲 Backlight
 🔲 Banner
 🔲 Show Time
 🔲 Auto Hyphen

 ·········· 🔲 Alerts ——— 🔲 Fade
 🔲 Minute
 🔲 Service Change

 ·········· 🔲 Calling ·········· 🔲 Auto Answer
 🔲 Auto Retry
 🔲 One-Touch Dial
 🔲 Any Key Answer

Sound

You can set the ringer type, ringer volume, earpiece volume, key beep sound, key beep volume, and key beep length.

Ringer Type

You can change the ringer for incoming calls to one of eight different rings or songs.

To set the ringer type

1.   From standby mode, SMART KEY **menu**.
2.   Press ⬭ for Preferences.
3.   Press ⬭ for Sounds.
4.   Press ⬭ for Ringer Type.
5.   Scroll to select the ringer type.
6.   SMART KEY **ok**.

Ringer Volume

To adjust the ringer volume

- Do one of the following from standby mode:
    - Press the volume buttons.
    - SMART KEY **menu**.
        - Press (pqr 7) for Preferences.
        - Press (1) for Sounds.
        - Press (abc 2) for Ringer Vol.
        - Select the volume level from 1 (lowest) to 9 (highest) or Silent to turn the ringer off (while on standby mode, "-Ringer Off-" displays in place of the date).
        - SMART KEY **ok**.

Earpiece Volume

You can adjust the earpiece volume to one that is comfortable for you. You can adjust volume while on a call or from standby mode.

To adjust the earpiece volume

- Do one of the following:
    - Press the volume buttons while on a call.
    - From standby mode, SMART KEY **menu**.
        - Press (pqr 7) for Preferences.
        - Press (1) for Sounds.
        - Press (def 3) for EarpiecVol.
        - Select the volume level from 1 (lowest) to 9 (highest).
        - SMART KEY **ok**.

Key Beep Sound

You can set the key beep, the sound you hear when pressing the keys, to either a tone or a click.

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To adjust the key beep sound

1. From standby mode, SMART KEY **menu**.
2. Press ⊙ for Preferences.
3. Press ⊙ for Sounds.
4. Press ⊙ for KeyBeepSound.
5. Scroll to select tone or click.
6. SMART KEY **ok**.

Key Beep Volume

You can adjust the volume of the key beep, the sound you hear when pressing the keys.

To adjust the key beep volume

1. From standby mode, SMART KEY **menu**.
2. Press ⊙ for Preferences.
3. Press ⊙ for Sounds.
4. Press ⊙ for KeyBeepVol.
5. Select the volume level from 1 (lowest) to 9 (highest) or Silent to turn the key beep off.
6. SMART KEY **ok**.

Key Beep Length

You can set the length of the key beep, the sound you hear when pressing the keys.

Note

The key beep length affects the DTMF tones used for playing tones over the network for automated phone services, such as voice mail or online banking. For more information, see "Playing tones" on page 22.

To set the key beep length

1. From standby mode, SMART KEY **menu**.
2. Press ⊙ for Preferences.
3. Press ⊙ for Sounds.
4. Press ⊙ for KeyBeepLen.

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5. Scroll to select one of the following:
   - normal – key beep is short and fixed in length
   - long – key beep sounds as long as you press a key
6. SMART KEY **ok**.

Display

You can set the backlight, edit the banner, display the time, and set Auto Hyphen.

Backlight

You can set the screen and keypad backlighting with this feature.

To set the backlight

1. From standby mode, SMART KEY **menu**.
2. Press ⌾⁊ for Preferences.
3. Press ⌾₂ for Display.
4. Press ⌾₁ for Backlight.
5. Scroll to select one of the following:
   - Always Off – The backlight is always off, which significantly *increases* battery life.
   - 7 Seconds – Turns the backlight off 7 seconds after the last key press.
   - 15 Seconds – Turns the backlight off 15 seconds after the last key press.
   - 30 Seconds – Turns the backlight off 30 seconds after the last key press.
   - Always On – The backlight is always on, which significantly *decreases* battery life.
6. SMART KEY **ok**.

Banner

You can enter a banner or personal greeting, such as a company name or a personal reminder, that displays when you turn the phone on. There is a 12-character maximum.

To edit the banner

1. From standby mode, SMART KEY **menu**.

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2. Press ⊂ʳˢ⁷⊃ for Preferences.
3. Press ⊂ᵃᵇᶜ²⊃ for Display.
4. Press ⊂ᵃᵇᶜ²⊃ for Banner.
5. SMART KEY **edit**. See "Entering alphanumeric characters" on page 10.
6. SMART KEY **ok** to confirm banner changes.
7. Do one of the following:
   - SMART KEY **ok** to return to the previous menu.
   - SMART KEY **edit** to change the banner.

Show Time

You can set the time format display using this feature.

To show the time

1. From standby mode, SMART KEY **menu**.
2. Press ⊂ʳˢ⁷⊃ for Preferences.
3. Press ⊂ᵃᵇᶜ²⊃ for Display.
4. Press ⊂ᵈᵉᶠ³⊃ for Show Time.
5. Scroll to select one of the following:
   - 12 hour – time displays in 12-hour format
   - 24 hour – time displays in 24-hour format
   - off – time does not display
6. SMART KEY **ok**.

Auto Hyphen

You can use this feature to automatically insert hyphens when you enter phone numbers.

To set auto hyphen

1. From standby mode, SMART KEY **menu**.
2. Press ⊂ʳˢ⁷⊃ for Preferences.
3. Press ⊂ᵃᵇᶜ²⊃ for Display.
4. Press ⊂ᵍʰⁱ⁴⊃ for AutoHyphen.
5. Scroll to select yes or no.
6. SMART KEY **ok**.

Alerts

You can set alerts that display messages on the screen when the network drops a call (fade), 10 seconds before the end of a call (minute), or when SP coverage changes.

Fade

The fade alert tells you when the network drops a call.

To set the fade alert

1. From standby mode, SMART KEY **menu**.
2. Press ⬭ for Preferences.
3. Press ⬭ for Alerts.
4. Press ⬭ for Fade.
5. Scroll to select on or off.
6. SMART KEY **ok**.

Minute

The minute alert displays on the screen 10 seconds before the end of a call.

To set the minute alert

1. From standby mode, SMART KEY **menu**.
2. Press ⬭ for Preferences.
3. Press ⬭ for Alerts.
4. Press ⬭ for Minute.
5. Scroll to select on or off.
6. SMART KEY **ok**.

Service Change

The service change alert displays a message when SP coverage changes.

To set the service change alert

1. From standby mode, SMART KEY **menu**.
2. Press ⬭ for Preferences.
3. Press ⬭ for Alerts.
4. Press ⬭ for Service.

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5. Scroll to select on or off.

6. SMART KEY **ok**.

Calling

You can set the Calling features to automatically answer the phone or redial a busy number. You can also set one-touch dial or any key answer.

Auto Answer

You can set the number of times the phone rings before it automatically answers a call.

To set auto answer

1. From standby mode, SMART KEY **menu**.

2. Press ⬭ for Preferences.

3. Press ⬭ for Calling.

4. Press ⬭ for AutoAnswer.

5. Scroll to select one of the following:
   - off – phone does not automatically answer
   - after 1 ring – phone automatically answers after 1 ring
   - after 3 rings – phone automatically answers after 3 rings
   - after 5 rings – phone automatically answers after 5 rings
   - when in car kit – phone automatically answers when installed in the car kit

6. SMART KEY **ok**. If you select an option other than "off," while on standby mode "-Auto Answer-" displays in place of the time.

Auto Retry

You can use this feature to automatically redial a busy number. The phone redials 5 times. If you change or lose service, Auto Retry resets to off.

To set auto retry

1. From standby mode, SMART KEY **menu**.

2. Press ⬭ for Preferences.

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3. Press ⟨gh4⟩ for Calling.
4. Press ⟨abc2⟩ for Auto Retry.
5. Scroll to select one of the following:
   ▪ off
   ▪ every 10 seconds
   ▪ every 30 seconds
   ▪ every 60 seconds
6. SMART KEY **ok**.

One-Touch Dial

If you set one-touch dial to on, you can dial any of the 99 location numbers without pressing ⟨Send⟩.

To set one-touch dial

1. From standby mode, SMART KEY **menu**.
2. Press ⟨pqrs7⟩ for Preferences.
3. Press ⟨gh4⟩ for Calling.
4. Press ⟨def3⟩ for One-Touch Dial.
5. Scroll to select yes or no.
6. SMART KEY **ok**.

See "One-touch dialing" on page 23 for more information on one-touch dial.

Any Key Answer

With this feature, you can press any key to answer an incoming call while in standby mode, except ⟨Pwr⟩ or ⟨End⟩ .

To set any key answer

1. From standby mode, SMART KEY **menu**.
2. Press ⟨pqrs7⟩ for Preferences.
3. Press ⟨gh4⟩ for Calling.
4. Press ⟨gh4⟩ for AnyKeyAnsw.
5. Scroll to select yes or no.
6. SMART KEY **ok**.

To silence the ringer when receiving an incoming call

• Press ⟨End⟩.

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```
⬚ System ·············· ⬚ Status
              ············· ⬚ Force System
                              Reacquisitions
       ············· ⬚ Version
       ············· ⬚ Service ——— ⬚ Known List
                     Provider      ⬚ Preferred List
                     Select        ⬚ Prohibited List
       ············· ⬚ Service Provider
       ············· ⬚ Territory
```

Status

This feature provides status for the state of the phone's Globalstar satellite antenna, security module, battery, memory, lock, and self-test:

- ☺ indicates a good condition or ready-for-use
- ☹ indicates a faulty condition or not-ready-for-use

To access status information

1. From standby mode, SMART KEY **menu.**
2. Press ⬭ for System.
3. Press ⬭ for Status:
   - Antenna Up – Properly rotated Globalstar satellite antenna.
   - Security – Valid security module properly inserted
   - Battery – Battery properly installed
   - Memory – Enough available memory
   - Unlocked – SP lock (if ☹ displays, contact your SP)
   - Self-test – phone self-test (if ☹ displays, contaet your SP)
4. Press ⬭ or ⬭.

Force System Reacquisition

This feature forces the phone to reacquire service.

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To force the phone to reacquire service

- Do one of the following:
    - *Shortcut*: Press and hold ⊙ .
    - From standby mode, SMART KEY **menu**.
        - Press ⓣⓥⓑ for System.
        - Press ⓐⓑⓒⓩ for ReAcquire.
        - SMART KEY **ok** to initiate system acquisition.

Version

This feature displays the software version number on your phone.

To display the software version number

1. From standby mode, SMART KEY **menu**.
2. Press ⓣⓥⓑ for System.
3. Press ⓓⓔⓕⓩ for Version.
4. Scroll to read the information.
5. Press ⓒⓛⓡ or ⓔⓝⓓ .

Service Provider Select

This feature allows you to select SPs, view SP and territory information, and force SP selection:

- Known List – Shows all known available SPs for selection to the lists.You cannot use a SP appearing on both the Preferred List and the Prohibited List until that SP is removed from the Prohibited List.
- Preferred List – Shows order of priority for SPs, and always shows the home SP first highlighted on the screen. The number to the left of the SP name identifies the order of priority.
- Prohibited List – Shows preference for SPs in alphabetical order that you choose *not* to use. You cannot add the home SP to this list.

Changes to the lists do not affect registration until the phone attempts to reregister (when you turn it on). However, if you place the current registered SP on the Prohibited List, the phone will reregister.

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To access the Known List

1. From standby mode, SMART KEY **menu**.
2. Press ⬭ for System.
3. Press ⬭ for SP Select.
4. Press ⬭ for Known List. The Known List displays entries as follows:

    ■ SPs on the Preferred List are highlighted.

    ■ SPs on the Prohibited List are crossed out.

    ■ SPs on both the Preferred and Prohibited Lists are highlighted and crossed out.

    The first entry and last entry are separated by a line.

To view the Known, Preferred, or Prohibited Lists

1. From standby mode, SMART KEY **menu**.
2. Press ⬭ for System.
3. Press ⬭ for SP Select.
4. Press:

    ■ ⬭ for Known List.

    ■ ⬭ for Prefr List.

    ■ ⬭ for Prohb List.

5. SMART KEY **view** for the SP's MCC (Mobile Country Code) and MNC (Mobile Network Code). If the SP is on:

    ■ the Preferred List, the preferred location number displays (Pref Loc).

    ■ the Prohibited List, "yes" displays (Prohib).

    ■ both the Preferred List and the Prohibited List, the preferred location number and "yes" displays.

6. SMART KEY **ok**.

To add to the Preferred or Prohibited Lists

1. From standby mode, SMART KEY **menu**.
2. Press ⬭ for System.
3. Press ⬭ for SP Select.
4. Press ⬭ for Known List.
5. Scroll to select an SP.
6. SMART KEY **edit**.

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7. Press:
   - ⬛ ⓵ for Preferred.
   - ⬛ (abc 2) for Prohibited.
8. SMART KEY **ok**.

To edit the Preferred List

1. From standby mode, SMART KEY **menu**.
2. Press (tuv 8) for System.
3. Press (ghi 4) for SP Select.
4. Press (abc 2) for Prefr List.
5. Scroll to select an SP.
6. SMART KEY **edit**.
7. Press:
   - ⬛ ⓵ for Reorder and scroll to move SPs.
   - ⬛ (abc 2) for Delete.
8. SMART KEY **ok**.

To erase from the Preferred or Prohibited List

1. From standby mode, SMART KEY **menu**.
2. Press (tuv 8) for System.
3. Press (ghi 4) for SP Select.
4. Press:
   - ⬛ (abc 2) for Prefr List.
   - ⬛ (def 3) for Prohb List.
5. Scroll to select a SP.
6. SMART KEY **erase**.
7. SMART KEY **ok**.

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Service Provider

This feature displays the current SP's name, MNC (Mobile Network Code), and MCC (Mobile Country Code).

To access the SP information

1. From standby mode, SMART KEY **menu**.
2. Press (tuv 8) for System.
3. Press (jkl 5) for SrvcPrvder.
4. Press (Clr) or (End).

Territory

This feature displays the current SP's MCC (Mobile Country Code) and MNC (Mobile Network Code).

To access the territory information

1. From standby mode, SMART KEY **menu**.
2. Press (tuv 8) for System.
3. Press (mno 6) for Territory.
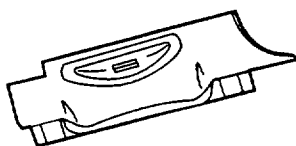4. Press (Clr) or (End).

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Battery Care and Maintenance

Learn about battery care, battery charging, and battery removal in this section.

Batteries

The phone comes with a standard rechargeable battery.

An extended rechargeable battery is also available. See "Extended battery" on page 63. (When you first open the phone's box, you may notice an empty tray, which is for the extended battery.)

The following is typical battery performance:

Battery	Service Type	Talk Time	Standby Time
Standard	Globalstar satellite	1 hour	5 hours
	cellular CDMA	3 hours	25 hours
	cellular AMPS	1 hour	7 hours
Extended	Globalstar satellite	1.7 hours	8.5 hours
	cellular CDMA	5.1 hours	42.5 hours
	cellular AMPS	1.7 hours	11.9 hours

Battery care

Charge the battery immediately after purchasing the phone to maximize the talk and standby times. The battery can be recharged hundreds of times before you will need to replace it. See "Low battery" on page 57 for more information.

For best battery performance, follow these guidelines:

- Only use QUALCOMM batteries and chargers designed for your phone. Do not use any other battery or charger.
- To prevent a significant decrease in battery life, see "Backlight" on page 44 to set the backlight option.
- To prevent damage, do not charge the battery in temperatures less than +32°F (0°C) or greater than +113°F (+45°C). Do not discharge the battery in temperatures less than ??°F (–20°C) or greater than ??°F (+60°C).
- Do not use the battery charger in direct sunlight or in places with excessive humidity, such as the bathroom.
- Never dispose of the battery in a fire.
- Keep the metal contacts at the top end of the battery clean.
- Do not try to disassemble or short circuit the battery.
- Recharge the battery if the phone has not been used for several months.
- Do not store batteries in places where temperatures are below –22°F (–30°C) or above +140°F (+60°C).

Battery charging

Charge the batteries with the AC wall charger, universal travel charger, or cigarette lighter adapter. See "Accessories" on page 63. The universal travel charger allows you to charge the standard or extended batteries while attached to a phone whether the phone is turned on or off. You can also charge another battery at the same time.

After you connect the phone to one of the chargers, check the charging status:

- If the battery is charging, a message displays and [▨▨▨] flashes.
- When charging is complete, a message displays and [▨▨▨] flashes.
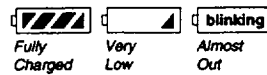- If the battery is not connected, a message displays and [▭] flashes.

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The following is the typical charge time to 90% charge level:

Battery	Cigarette lighter adapter	AC wall charger
Standard	1-1/2 hours	1-1/2 hours
Extended	2-1/2 hours	2-1/2 hours

Low battery

The battery charge level is shown at the top right of the screen.

The phone alerts you when the battery is low:

■ The battery indicator flashes.

■ The phone beeps three times (if you are on a call, the phone continues to beep every minute).

■ The message "Low Battery!" displays on the screen.

If the battery level gets too low, the phone turns off and loses any function in progress. Before turning off, the phone alerts you with five beeps and a message.

Battery removal

1. Turn the power off to avoid losing data.

2. Slide the battery's release button in the direction of the arrow to release it from the phone.

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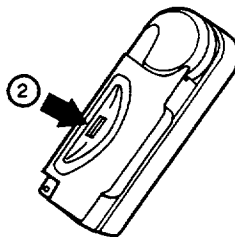
Battery replacement

1. If the battery is installed, turn the power off to prevent losing data and remove it.

2. Insert the side of the battery at a 45° angle away from the Globalstar satellite antenna.

3. Press the side of the battery near the Globalstar satellite antenna until it locks into place.

Preliminary Draft
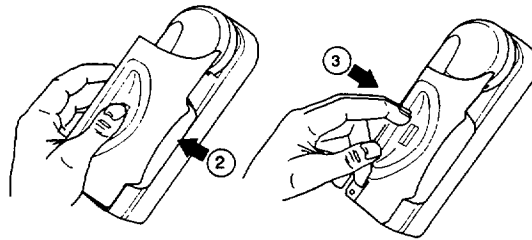
Learn about safety issues involved with using a portable phone and how best to avoid dangerous conditions in this section.

Radio frequency energy

Your phone is a radio transmitter and receiver. When turned on, it receives and sends radio frequency (RF) energy. The system handling your call controls the power level at which your phone transmits. The power level can range from 0.01 watt to 0.40 watt.

The design of the QUALCOMM Globalstar GSP1610 Single-Mode User Terminal complies with the updated (1992) ANSI standard for safe levels of human exposure to RF energy. To reduce RF exposure, you can limit the duration of your calls and operate your phone efficiently.

Driving safety

Talking on the phone while driving is extremely dangerous and is illegal in some places. Remember, safety comes first.

Check the laws and regulations on the use of portable phones in the areas where you drive. Always obey them.

If using the phone in a vehicle:

- Use the QUALCOMM Globalstar Hands-Free Car Kit.
- Secure the phone in your vehicle to prevent damage to the phone and personal injury in the event of an accident.
- Pull off the road and park before using the phone if driving conditions so require.
- Give full attention to driving if you must use the phone.

Effect on other electronic devices

Most modern electronic equipment is shielded from RF energy. However, RF energy from portable telephones can affect improperly installed or inadequately shielded electronic systems in cars (such as electronic fuel injection, electronic cruise control, electronic anti-skid brakes). Likewise, your phone may interfere with the operation of these systems.

To determine whether the electronic systems in your car are properly installed and shielded, check with the automobile manufacturer or the manufacturer of after-market equipment installed in your car.

If you use personal medical devices, such as a pacemaker or hearing aid, consult the manufacturer to determine if the device is adequately shielded from external RF energy.

Turn the phone off when in health care facilities and request permission before using the phone near medical equipment.

Using the phone on airplanes

Follow these regulations regarding aircraft and the phone:

■ To prevent interference with aircraft navigation systems, regulatory agencies in your area, such as the United States Federal Communications Commission (FCC), prohibit the use of your phone while the plane is moving.

■ Regulatory agencies in your area, such as the United States Federal Aviation Administration (FAA), require that you obtain permission from a crew member to use your phone while the plane is stopped at the gate.

⚠ **Warning**

> **Turn the phone completely off before boarding any aircraft (do not leave it in standby mode). Do not use the phone when the plane is in motion.**

Using the phone in blasting areas

Construction crews often use remote control RF devices to set off explosives.

⚠ **Warning**

> **To avoid setting off a charge and causing serious injury to yourself or others, turn off your phone in blasting areas or in areas posted: "Turn off two-way radio."**

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Potentially explosive areas

Turn off your phone in areas with a potentially explosive atmosphere. It is rare, but your phone or its accessories could generate sparks, causing an explosion or fire that results in bodily injury or death.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include:

- Any area where you are advised to turn off your vehicle engine
- Fueling areas such as gas stations and boat docks
- Below deck on boats
- Fuel or chemical transfer or storage facilities
- Areas where the air contains chemicals or particles, such as grain, dust, or metal powders

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

Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this United States standard, contact:

> National Fire Protection Assoc.
> Attn: Publication Sales Division
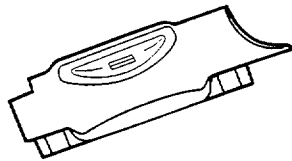> One Batteymarch Park
> Quincy, MA 02269
> U.S.

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The optional accessories described in this section are available from your SP.

Extended battery

An extended rechargeable battery offers approximately twice as much talk and standby time as the standard battery. For more information on batteries, see "Battery Care and Maintenance" on page 55.

AC wall charger

The AC wall charger (110V or 220V) supplies power to the phone and fast charges the battery attached to the phone. A green light indicates that the charger is plugged in properly.

110V   220V
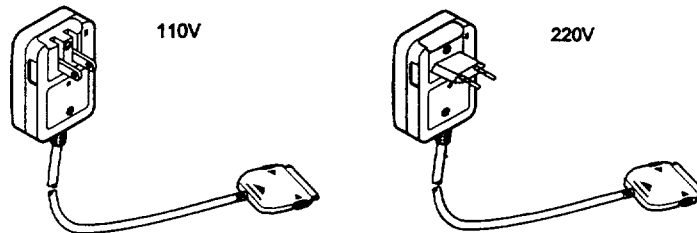
Universal travel charger

The universal travel charger allows you to charge either battery. You can charge a battery attached to the phone and, at the same time, one detached from the phone that is installed in the universal travel charger.
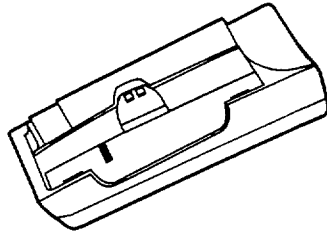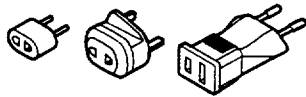

Three optional plugs are available to convert the charger for use in different countries.

Note

Be sure to use the appropriate plug in the area you are using the chargers and phone.

There are two sets of lights on the charger:

- Single green light – charger is plugged in properly.
- The multicolored light indicates as follows:
  - Solid Yellow – charging
  - Flashing Yellow – charging, but momentarily suspended for a short delay
  - Solid Red – no charging due to excessive temperature or undervoltage
  - Flashing Red – no charging due to battery failure
  - Green – charging is complete

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Cigarette lighter adapter

The cigarette lighter adapter supports both U.S. and European vehicles. (For European vehicles, simply insert the adapter into the sleeve.)

Plug the adapter into your vehicle's cigarette lighter to supply power to the phone (with or without the battery attached). You can also fast charge the battery at the same time. A green light indicates that the adapter is plugged in properly.
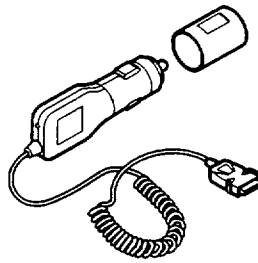
Hands-free car kit

With the QUALCOMM Globalstar Hands-Free Car Kit, you can adapt your phone for hands-free operation in your vehicle. The car kit consists of the following components:
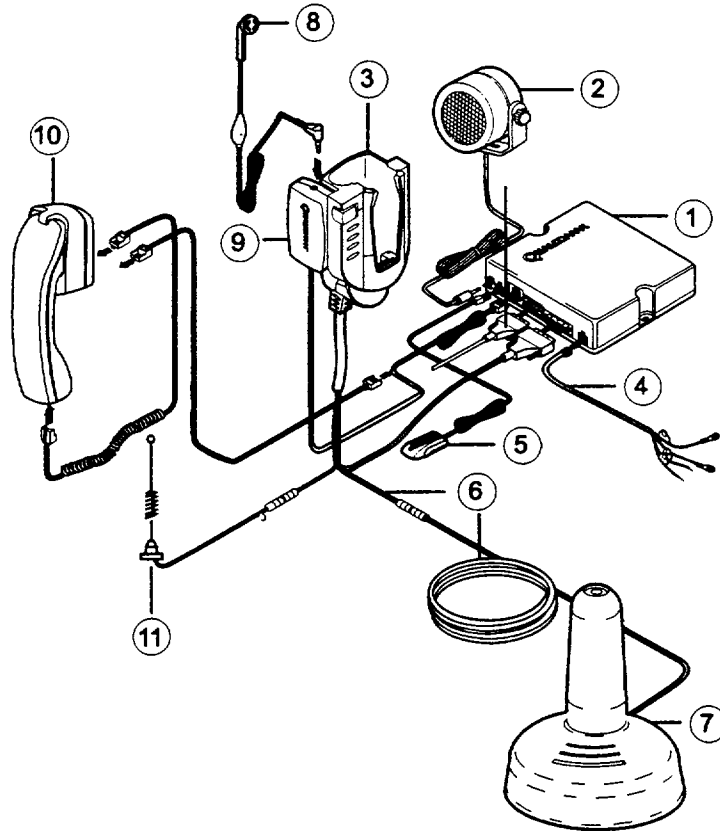

- ■ 1 – Globalstar Electronic Module (GEM)
- ■ 2 – Hands-Free Speaker
- ■ 3 – Hands-Free Car Kit Cradle
- ■ 4 – Car Interface cable
- ■ 5 – Hands-Free Microphone
- ■ 6 – ODU cables
- ■ 7 – Outdoor Unit (ODU)
- ■ 8 – Privacy Headset (optional)
- ■ 9– Privacy Headset Adapter (optional)
- ■ 10 – Privacy Handset (optional)
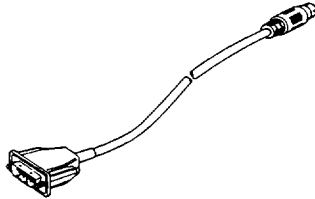- ■ 11 – Cellular antenna (not included)

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For more information, see the *Qualcomm Globalstar Hands-Free Car Kit Installation / User Guide*.

Data cable

A five-foot long data cable allows you to connect your phone directly to IBM PC-compatible computers (RS-232 compatible serial port).
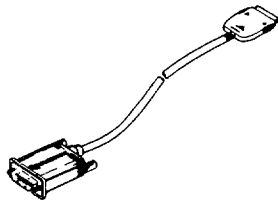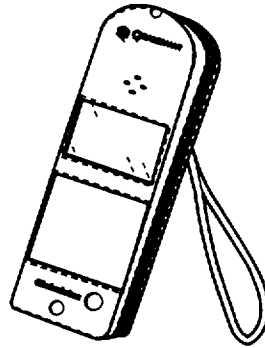

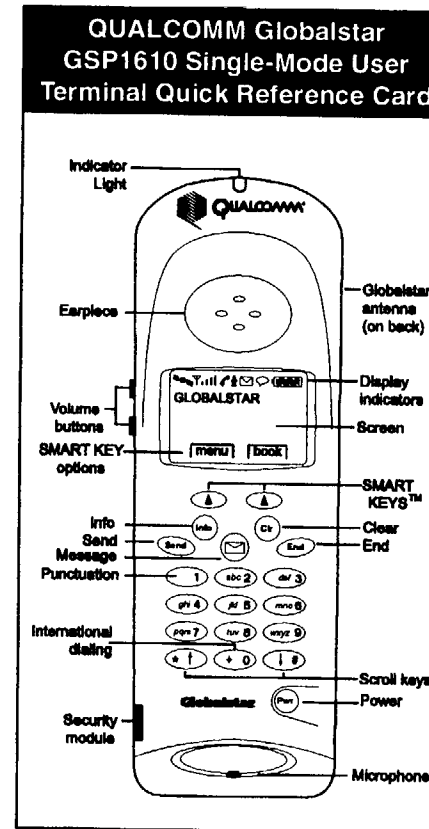An adapter for the RS-232 cable allows you to connect your phone directly to Apple Macintosh computers.

Protective leather case

A protective leather case with a wrist strap protects your phone from scrapes and scratches.

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Main Menu

1 Phone Book	Manage phone book, find entries, play tones, and prepend/add numbers.
2 Call Hist	Access call history list and view call details.
3 Messages	Access and manage voice and text messages.
4 Features	Set key guard and access scratchpad.
5 Call Info	Access call timers: 1 Last Call, 2 Home Calls, 3 Roam Calls, 4 Recent Calls, and 5 All Calls.
6 Security	Lock/restrict phone; change codes and emergency numbers; erase call history, SMS, and phone book; and reset preferences.
7 Preference	Set sounds, display, alerts, and calling preferences.
8 System	Obtain phone status, version and territory, force system reacquisition, and select service provider.

Key Descriptions

Volume Buttons	Adjust volume levels; also use to scroll.
SMART KEYS	Select SMART KEY options.
Info	Insert pauses and hyphens; get help when **i** displays.
Clr	Clear characters; go back one menu.
Send	Send a call.
End	End a call.
Message	Access and manage text and voice messages.
Punctuation	Add punctuation or space.
International Dialing	Make international calls using the + key.
Security Module	Activate phone (see service provider).
Pwr	Turn power on and off.
Scroll Keys	Scroll through menu items in sequence.

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QUALCOMM Globalstar GSP1610 Single-Mode User Terminal Quick Reference Card

Quick Reference

Install Battery	Insert at 45° angle; snap in.
Turn On/Off	Press and hold PWR.
Make Call	Rotate satellite antenna. Enter number. Press SEND.
Answer Call with Any Key	SMART KEY menu. Press 7 Preference. Press 4 Calling. Press 4 Any Key Answer. Select yes or no. Press any key, except PWR or END.
End Call	Press END.
Redial Call	With phone number on screen, press SEND.
Speed Dial	Enter location. Press SEND.
One-Touch Dial	SMART KEY menu. Press 7 Preference. Press 4 Calling. Select yes or no. Press 3 One-Touch. Select yes or no. Press and hold location number.
Lock Phone	SMART KEY menu. Press 6 Security. Enter code. Press 1 Lock Phone. Select yes or no. SMART KEY ok.
Unlock Phone	SMART KEY unlock. Enter code.

Quick Reference

Save Phone Book Entry	Enter phone #. SMART KEY save. Enter name. SMART KEY ok. Enter or accept location number. SMART KEY ok.
Find Phone Book Entry	SMART KEY book. SMART KEY find. Press 1, 2, or 3. Enter number or letters. SMART KEY find. Scroll for name or number. SMART KEY view. Press SEND to call.
Edit Phone Book Entry	Find entry. SMART KEY view. SMART KEY options. Press 1. Press 1, 2, or 3. Edit entry. SMART KEY ok.
Access Call History	SMART KEY menu. Press 2 Call Hist. Select a call. SMART KEY view. To call, press SEND.
View Messages	Press ✉. SMART KEY voice or text. SMART KEY view. To read the next message, SMART KEY next.
Set Key Guard	*On*: Press and hold END. *Off*: Press 1, 2, and 3.

Quick Reference

Restrict Phone	SMART KEY menu. Press 6 Security. Enter code. Press 2 Restricted. Select yes or no.
Change Code	SMART KEY menu. Press 6 Security. Enter code. Press 3 New Code.
Display Phone Number	Displays when you turn phone on, or press Info key from standby mode.
Set Preferences	SMART KEY menu. Press 7 Preference. Press 1 Sounds, press 2 Display, press 3 Alerts, or press 4 Display.
Force System Acquisition	*Shortcut.* From standby mode, press and hold * key. Press 1 AMS.
Select Service Provider	SMART KEY menu. Press 8 System. Press 4 SP Select. Press 1 Known List, 2 Prefr List, or 3 Prohb List.