

calls

Missed

Menu 1.3

Your phone keeps a list of 10 calls placed to your phone that you did not answer. The phone indicates missed calls by displaying a text notification on the screen.

To...	Press...
Select an entry	 or 
Dial the selected entry	
View the details on the call	

When you press , you can view the date/time stamp for the selected entry. If there is a Phone Book match, the name displays.

Press  to access the Options. For further details, refer to the options in "Outgoing" on page xx.

Erase Logs

Menu 1.4

You can erase the entries stored in each of the three Call Logs or all three logs at once.

Outgoing: The calls you made are erased.

Incoming: The calls you received are erased.

Missed: The calls you missed are erased.

All: All calls you made, received and missed are erased.

 When a confirming message displays, press .

calls

Air Time

Menu 1.5

Your phone records the amount of airtime (or talk time) used. Using this option, you can view the number of the calls to or from your phone, and the airtime for all calls. You can easily erase the airtime measurement at any time.

Last: shows length of the last call.

Total: shows total duration of all calls made to or from your phone since the call time counter was lastly set to zero by using the **Erase Total** option.

Erase Total: erases the "Total" airtime measurement and resets the call time counter.

Lifetime: shows total length of all calls made to or from your phone since the phone was shipped from the factory.

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WirelessWeb

The WirelessWeb menu allows you to maintain your incoming or outgoing messages and to set your phone to receive data or fax calls. You can also launch the web browser to access the wireless web or view the browser messages.

Messages

Menu 2.1

Note: You can quickly access this menu by pressing  in Standby mode.

InBox

Your phone receives numeric pages and text messages.

When the phone receives a message in Standby mode, the ringer sounds, and a text notification displays with the New Message icon . The icon remains on the screen until you read the your messages.

If your phone receive incoming messages in Talk mode, the Call Waiting tone sound and a message header displays (this is to avoid ringing in your ear while you are trying to talk). You can easily review the new message by pressing . Your call will not be disconnected, and you just ask the other party to wait while you review your message. If your are using the optional hands free headset, then you can read the message while on the call.

WirelessWeb

Incoming messages are received even when your phone is locked. The display will show the time and date of the message, but you cannot access the message. To access the message, you must unlock the phone.

Your phone can store up to 100 messages, depending on the length of the messages. If the memory is full, the phone rejects additional incoming messages until you erase the stored messages.

Text/Page

An indexed list of page or text messages you received. An exclamation point next to an entry indicates an urgent message. A check mark next to an entry indicates that you have read and stored the message.

Select the message to review, then press .

After reviewing the message, press  to access the following options.

Talk: makes a call to the sender of the message.

Save: allows you to save the sender's phone number into your Phone Book if there is no Phone Book match.

Erase: erases the message.

Next Msg: reviews the next message.

Prev Msg: reviews the previous message.

Note: If the message you are reviewing contains a phone number that is already stored in the Phone Book, the **Save** option does not display, and the available menu options will be: **Talk, Erase, Next Msg, Prev Msg.**

WirelessWeb

OutBox

The OutBox allows you to write and send a new message, and to page the remote phone. It also stores the transmitted messages.

Write New

To write and send a new message:

The OutBox function is not available in the current phone. This section will be inserted or updated when the software is fixed.

WirelessWeb

Old Message

An indexed list of text messages you have transmitted.

Select the message to review, then press .

After reviewing the message, press  to access the following options.

Talk: makes a call to the sender of the message.

Save: allows you to save the recipient's phone number into your Phone Book if there is no Phone Book match.

Erase: erases the message.

Next Msg: reviews the next message.

Prev Msg: reviews the previous message.

Note: If the message you are reviewing contains a phone number that is already stored in the Phone Book, the **Save** option does not display, and the available menu options will be: **Talk, Erase, Next Msg, Prev Msg.**

WirelessWeb

Paging Phone

To page a phone:

1. Enter the number of the destination and press .
2. Enter the number which the paged person will call back.

Note: The display shows your phone number by default.

3. Press , and the phone begins paging.

Send Speed

You can set the transmission speed of your message.

Select the desired type of the message and press .
The available types are **Normal**, **Emergency** and **Urgent**.

Erase Messages

This menu allows you to erase the transmitted messages stored in Outbox.

When a confirmation message displays, press .

WirelessWeb

Web Alert

Menu 2.2

Selecting this menu launches the web browser. After connected to network, an indexed list of browser messages displays. An exclamation point next to an entry indicates an urgent message. A check mark next to an entry indicates that you have read and stored the message.

Select the message to review, then press .

After reviewing the message, press  to access the options. For further details, refer to the options in "Text/Page" on page xx. (????)

Launch Browser

Menu 2.3

The web browser allows you to access certain information such as stock quotes and weather via the Internet. Browsing the web via the phone is not like using your home computer. Site providers have selected only the critical aspects of their site to present to wireless phone users, and have removed most graphics.

Each time you start the web browser, the phone will connect to the PCS Nationwide Network as necessary, and the service indicator icon () will appear on the display. Any time the service indicator icon is visible on the display, your phone is connected to the PCS Nationwide Network and you will be billed accordingly. Rates will vary according to your billing plan.



WirelessWeb

The web browser will end the connection after a certain period of network inactivity and will automatically re-connect as necessary. For this reason, you may find that you are billed for several network connections within a single web browser session. This is normal and is designed to minimize your bill.



Launching the Browser

Selecting the Launch Browser menu starts the web browser.

Note: The first time you use the browser, you will go through a security setup process that takes 3 to 5 minutes. Please follow the on-screen prompts to complete the security setup process. This initial setup process occurs only the first time you access the service.

1. When our phone access the browser network, a reminder of the charge will appear. Answer **YES** or **NO** by using  or .
2. Once connected, the Home page (or the last page visited) will be displayed. To access the Home menu page from any other menu in the browser, press and hold .

WirelessWeb

3. What appears on the display when accessing the browser is dependent on the service provider content. To view additional text, use  or .

Note: You can quickly launch the web browser by pressing and holding  down in Standby mode.

Exiting the Browser

Simply press  to exit the browser. If the **Prompt To End** or **Prompt Both** option is set in the Web Guard menu option (**Menu 2-5** on page xx), you will be prompted whether you want to end the browser call.

Using the Soft keys

At the bottom of the browser display is a solid bar which contains browser commands. "Soft" keys ( or ) below the solid bar are used to execute the commands. These two keys are called soft keys because their function changes depending on where you are in the browser software.

WirelessWeb

Navigating the Browser

The web browser presents on-screen items in one of the following ways:

- Text or numeric input
- Links (embedded in content)
- Numbered options (some options may not be numbered)
- Simple text

When you use the web browser, some keys on your phone operate differently than on a normal phone call. Here's how the keys work in the web browser:



Use to scroll through the browser options. The currently selected option is indicated by "►".



This is left soft key. It is used primarily for selecting the highlighted item, but its function may change depending on what you are doing (see "Using the Soft keys" on page xx).



This is right soft key. It is used to access secondary options, or a menu of secondary options.



Backs you up in the browser. Pressing it once backs you up one page. Pressing and holding it backs you up to the Home page.

Clears out entered text or numbers. When entering numbers or text, press this key to clear the last number, letter, or symbol. Press and hold the key to completely clear the input field.

WirelessWeb



Use to exit the browser and return the phone to Standby mode.



If the items on a page are numbered, you can use these keys to select them.

Entering Text, Numbers or Symbols

When you are prompted to enter text, the current text entry method will appear on the bottom right of the display as **T9(English)**, **Alpha**, **Symbol** or **Number**. To change the input mode, use . For details on entering text, see page xx.

Using the Links

Links have several purposes, including jumping to a different page, jumping to a different site, or even initiating a phone call from some sites. Links are shown inside of brackets ([]), and you can normally press to select a link when it is highlighted.

Initializing a Call from the Browser

You may initiate a phone call from the browser if the site you are using supports this feature (the phone number may be highlighted and the command "Call" will appear). In most cases, you can also use to call the number. The browser connection will be terminated when you initiate the call. After you end the call, your phone will return to the Standby mode.

WirelessWeb**Using Bookmarks**

You can bookmark many individual pages for easy access at a later time. Bookmarks save you time by reducing the number of steps it takes to access a desired page.

To Create a Bookmark

1. Go to the page that you want to mark, and press . A list of the browser menus appears.
2. Press  or  to select **Mark Site**, then press .
3. If the page has a title, it will be automatically used for the name of the bookmark. You can also change the bookmark name. Selecting **Save** will save the name and add the page to your list of bookmarks.
4. A message will appear confirming that the bookmark was added to the list. Select **OK** to return to the screen that you marked to resume navigation within the browser. The new bookmark is added to the bottom of your bookmark list.

To Find a Bookmark

From the home page, select **Bookmarks** and select the bookmark you want by pressing  or .

Or,

From the home page, press and hold the number associated with the bookmark in the bookmark list.

**WirelessWeb****Connection***Menu 2.4*

Your phone is capable of sending and receiving digital data and fax call when connected to a computing device (laptop, desktop, handheld, palmtop, etc.) running Windows 95, Windows 98, or Windows NT. The phone functions just like a typical modem on your PC, enabling you to use wireless data involving a side variety of Windows software applications.

To use digital data or fax services with your phone, you will need to obtain digital data/fax kit from your service provider. This kit will contain the necessary cables, software, and documentation required for your to connect and use your phone with your computing device.

Note: The phone must be on a digital network to receive or send fax and data.

Data/Fax In

Using this menu, you can set the phone to receive data or fax call. The following options are available:

Data/Fax: Your phone receives voice calls only.

Fax Until: Your phone receives fax only. The display shows "**FAX ONLY**" above the greeting.

Modem Until: Your phone receives data only. The display shows "**DATA ONLY**" above the greeting.

Note: When your phone is set to Fax Until or Modem until, no incoming voice calls can be received.



WirelessWeb

Receiving a Fax or Data File

To Receive a fax or data, ensure that your phone is connected to your PC and is powered on and select a **Fax Until** or **Modem Until**.

In communication program on your PC, set up the **Answer** mode and click on **Receive** and select one of the following:

- Automatic Receive (recommended)
- Manual Receive

Now, your phone is ready to receive an incoming fax or data call.

Data/Fax Out

When connected to a computing device, your phone allows wireless fax and data transmissions. Your computing device software initiates the call to the destination phone number. The phone functions as a wireless modem to send the fax or data file to the number designated by your PC software.

To use your phone as a modem, access this menu, then, follow the on-screen instructions.

WirelessWeb

Web Guard

Menu 2.5

Each time you start or end the Web browser, you will view a reminder that you will be billed for the connection time. You have the option to change when this message appears.

The following options are available:

Prompt To Start: The default setting. You will see the prompt when you enter the browser, but not when you exit it.

Prompt Both: You will be prompted when you enter or exit the browser.

Prompt To End: You will see the prompt only when you exit the browser.

Prompt None: You will never see the prompt.

Erase Messages

Menu 2.6

You can erase all messages after reviewing them.

Tex/Page: allows you to erase all page or text messages.

Web Alerts: allows you to erase all browser messages.



Phone Book

The Phone book allows you to store frequently used phone numbers and the associated names in your personal directory to make it easy for you to make a call without having to remember or enter the phone number. You can store up to 230 numbers.

Find Name

Menu 3.1

This option displays the stored names in the Phone Book by alphabetical order.

1. Press  or  to scroll to the desired name.

You can also enter the starting character(s) of the name by pressing the associated alphanumeric key(s). Using this method, the phone searches for the names in the list beginning with that character(s), and then displays the first name in that section of the list.

2. When the desired entry is highlighted, press .
The display shows the name with the number, label and speed dial number.

3. Press  to place a call.

Note: If more than one numbers are stored by the different labels in the selected location, you can see the ◀ and ▶ symbols on both sides of the label. Press  or  to scroll to the desired number.

Phone Book

With an entry selected, if you press , you can access the following options:

Talk: dials the number.

Add Phone#: allows you to add several different kind of numbers into the name, such as work office number or mobile number.

Edit: allows you to edit phone number, name, or entry number. **Set Secret** option prevents a number and name from being displayed. When you have made the number secret, only a person with your phone's lock code can view the number and name. **Set Speed Dial** option allows you set manually the number to be dialed by one touch (or two touch or three touch) of the entry number key(s).

Prepend: prepends the number to add an area code or feature code to the number before dialing.

Erase: erases the number.

Name Ringer: allows you to designate a unique tone to signal an incoming call by the number.

Phone Book**Add New Entry***Menu 3.2*

This menu allows you to store a number with a name in your Phone Book. You can save a person's different kinds of numbers, such as workplace number, mobile number and fax number, into one entry. Using this feature, you can keep one's information together. It also helps you to find numbers easily in Phone Book.

Creating a New Entry

1. Enter a phone number and press .

If you want to enter a hard or two second pause, press , then  or  to enter the desired pause. See page xx for details on pause dialing.

2. You are asked to select a label. The following labels are available: **Home, Work, Mobile, Pager, Fax, and No Label**. After selecting a label using  or , press .
3. The phone prompts for a name. Press  to confirm **<Add new name>**.
4. Enter the desired name, then press . You can enter up to 12 characters for a name. For details on how to enter text, see page xx.
5. The first available location displays. To accept the displayed location, press . To select another location, enter the location number using the numeric keys or press  or  to scroll to the desired location.
6. Press  to save the number.

Phone Book**Adding a Number in an Existing Entry**

You can store more than one numbers in one Phone Book location labeling each of the numbers.

1. Enter a number and press .
2. You are asked to select a label. The following labels are available: **Home, Work, Mobile, Pager, Fax, No Label**. After selecting a label, press .

Note: You can only use each label one time for each stored name. For example, you can only have one number labeled "Work" for a name entry.

3. At the prompt "Name?" press  or  to scroll to the Phone Book entry that you are adding a number to, then press  to store the new number.
4. The number and its information are displayed.

Storing Phone Numbers at Call End

To store a phone number at your call end:

1. Press  to end the call. The call time and the phone number display.
2. To store the phone number, press .
3. To complete storing the number, follow the instructions in "Creating a New Entry."



Phone Book

My Phone Number

Menu 3.3

The phone number of your phone displays every time you turn on your phone. At other times, you can display your phone number using this menu.

Find Entry

Menu 3.4

This option allows you to find an entry by location number.

1. Enter the location by pressing the number keys or press  or  to scroll to the desired location.

2. When the desired entry is highlighted, press .
The display shows the name with the number, label and speed dial number.

3. Press  to place a call.

If you press , you can access the options. For further details, refer to the options in "Find Name" on page xx.

Note: If more than one numbers are stored by the different labels in the selected location, you can see the ◀ and ▶ symbols on both sides of the label. Press  or  to scroll to the desired number.

Phone Book

Services

Menu 3.5

Phone numbers for frequently used services are pre-programmed into your phone.

Account Info: Account information
( + )

Customer Care: Sprint PCS customer care
( + )

Dir Assist : Directory Assistance
( +  + )

Prepaid SVC: Prepaid Calling Service
( +  +  + )

Road Assist: Roadside Assistance
( +  +  +  + )

To make a call for the service, press  when the number is displayed.

Roaming

Your phone allows you to control your phone's roaming ability. Roaming is a feature which is only relevant in areas where there are at least two cellular service providers having valid roaming agreements. Roaming allows you to register your phone on one of the networks, but use the facilities of the other if your own network is not available. This system priority feature allows you to program your phone for optimum operation when within your home service area or when outside your home service area.

You should always check your phone's display because it will let you know when you're outside the Sprint PCS Network and whether your phone is operating in analog cellular or digital mode.

- Spring PCS Network : No icons display
- Other CDMA Networks: The  icon displays.
- Analog Cellular Networks: The  icon and  icon display.

Note: Always dial using 11 digits (area code + number) when calling from outside your Sprint PCS Home Service Area.

Roaming

Set mode

Menu 4.1

This menu allows you to set the desired service mode. The three roaming mode are available:

Automatic: The phone will search for digital service first. If digital service is not available, it will search for analog service automatically.

Sprint PCS: The phone will not roam out side of your home service area.

Analog: The phone operates and roams in Analog mode only. The  icon displays.

Call Guard

Menu 4.2

Using this menu, you can set the phone display a message when a roam call is about to be placed or received. This is helpful if you want to avoid roaming charges.

Selecting **Yes** turns this feature on. Extra steps will be required to make or take roam calls.

Selecting **No** turns this feature off.

Calendar

The Calendar feature enables you to:

- Write down today's event
- View the calendar and organize your schedule
- Create a list of things to do
- Set and count D-Day
- Set an alarm clock
- Set the current date and time

Today

Menu 5.1

You can schedule up to 9 events for the current day indicating each event's start and end time. You can even have your phone's calendar alert you before an event is to start. Events scheduled for future dates automatically appear on your Today events schedule on that day.

Scheduling an Event

1. If there is no event, you are asked to write a new event. Enter an event, then press . For details on entering text, refer to page xx.
2. Enter the start time and date of the event, then press .

Notes:

- Press labeled with "P" to switch to PM and labeled with "A" to switch to AM.
- If you make a mistake while entering, press or to move to the wrong digit and enter the correct digit.

Calendar

3. Enter the end time and date of the event, then press .
4. Select when you are alarmed using or . You are provided several time options; **10 minutes Before. On time. 1 hour Before. 30 minutes Before.** Selecting **No Alarm** does not set the alarm.
5. After selecting an option, press to save the event. The display shows the entered information. To view the overflowed text, press .

Adding, Editing, or Deleting an Event

When a stored event is displayed, press to access the following **Options**.

Notes: If there are more than one items defined in the menu, scroll to the desired item by pressing or , and press .

Now Event: allows you to add an event on today.

Edit Event: allows you to edit the today's event.

Erase Event: allows you to delete the event.

Exit: allows you to exit the Options.

After you select an option by pressing or , press the key. Then follow the screen prompt.

Calendar**View Month***Menu 5.2*

This option allows you to view in calendar format the current month, or a past or future month. In this option, the current date is highlighted on the calendar. Days with the scheduled events are underlined.

Selecting a Day

- To go to next or previous year, press  or .
- To go to next or previous month, press  or .
- You can move up or down by one week by pressing  or . (You can also use  or .)
- You can move right or left by one day by pressing  or .

For details on scheduling a new event and editing, or deleting a event, see "Today" on page xx.

Jump To Date*Menu 5.3*

This menu allows you to specify the calendar date you want to view.

When you enter a date and press , the calendar is displayed and the date you entered is highlighted. Then you can consult the calendar and view the date's event to edit or erase it, if any, or create a new event.

For details on scheduling a new event and editing, or deleting a event, see "Today" on page xx.

**Calendar****To Do List***Menu 5.4*

This feature allows you to draw up a list of tasks to be done and assign a priority and deadline to each task.

Creating a New Task

1. Enter a task, then press .
You can enter up to 32 characters. For further details on how to enter characters, see page xx.
2. Enter a desired date and time by when the task has to be done, then press .

Notes:

- Press  labeled with "P" to switch to PM and  labeled with "A" to switch to AM.
- If you make a mistake while entering, press  or  to move to the wrong digit and enter the correct digit.

3. Set the priority for the task by pressing  or . You can select **High** or **Low**.
4. Press  to save the task. The display shows the entered information.



Calendar

Adding, Editing and Erasing a Task

When a stored task is displayed, press  to access the following **Options**.

Notes: If there are more than one items defined in the menu, scroll to the desired item by pressing  or , and press .

The following options are available.

New Event: allows you to create a new task.

Edit Event: allows you to edit the task.

Erase Event: allows you to delete the task.

Exit: allows you to exit the Options.

Select an option, and press . Then follow the screen prompt.

Countdown

Menu 5.5

This menu help you know how much time it takes you to do something, or how many months, days, hours and minutes until a specific day. You can create up to 5 Countdown timers using this menu.

Creating a Countdown timer item

1. Enter a title for the Countdown item and press .
You can enter up to 12 characters for details on entering text, see page xx.

Calendar

2. Enter the date and time that you want to count down from.

Notes:

- Press  labeled with "P" to switch to PM and  labeled with "A" to switch to AM.
- You can enter for year between 1990 and 2099.

3. Press  to save the item. The phone counts down the day and time from the defined day and displays the result.

Adding, Editing and Erasing a Countdown Item

When you select this menu, the defined Countdown item is displayed. Then press  to access the **Options**.

Note: If there are more than one items defined in the menu, scroll to the desired item by pressing  or , and press .

The following options are available.

New Item: allows you to create a new item.

Edit Item: allows you to edit the item.

Erase Item: allows you to delete the item.

Exit: allows you to exit the Options.

Select an option, and press . Then follow the screen prompt.



Alarm Clock

Menu 5.6

You can set an alarm to sound at a specific time. You set three alarms. Each alarm can be set to go off one time or to go off daily at a time that you have programmed. Keep in mind that if your phone is off at the alarm set time, the alarm will not sound.

Note: In order for the alarm to work, the phone must be on, and you must be in a service area or another provider's service area where the time service is available.

Setting an Alarm

1. Select a desired memory location for the alarm using  or , and press .
2. Choose the alarm frequency option, and press .

Daily: the alarm rings every day at the same time.

No Repeat: the alarm rings only once and is then deactivated.

3. Enter the required time and date (if applicable); the date setting is unavailable only for a Daily alarm.

Note: Press  labeled with "P" to switch to PM and  labeled with "A" to switch to AM.

4. Press  to save the setting.

At a specified time, you are alarmed by a message and alarm ring. To stop the alarm when it rings, simply open the flip cover or press .



Adding, Editing and Erasing an Item

If you select the memory location where an alarm has already been set and press , the following **Options** are displayed:

Edit: allows you to edit the alarm.

Erase: allows you to release the alarm.

Exit: allows you to exit the **Alarm Clock** menu.

Select an option, and press . Then follow the screen prompt.

World Clock

Menu 5.7

This menu tells you what time it is in 24 different time zones around the world.

Use  or  to find the current time in one of the following 24 time zones. Time zones are identified by one or more major cities, states, regions or countries in a time zone.

- | | |
|----------------------|--------------------|
| • San Francisco | • Denver, Arizona |
| • Chicago, Mexico | • New York, D.C. |
| • Caracas | • Buenos Aires |
| • Mid Atlantic | • Cape Verde |
| • London, Madrid | • Paris, Berlin |
| • Athens, Helsinki | • Moscow |
| • Abu Dhabi | • Tashkent |
| • Alma-ata | • Bangkok, Jakarta |
| • Hong Kong, Beijing | • Seoul, Tokyo |
| • Guam, Sydney | • Oshotsk |
| • Wellington | • Samoa, Midway |
| • Honolulu, Hawaii | • Alaska |



Calculator**Calculator***Menu 5.8*

Using this feature, you can use the phone as a calculator. You can perform calculations including addition, subtraction, multiplication and division on your phone.

Using the Calculator

1. Enter the first number using the numeric keys.
2. Press  or  to set the operator for your calculation until the required arithmetic symbol appears: + (addition), - (subtraction), x (multiplication), / (division).
3. Enter the second number.
4. To perform calculation and see the result, press .
5. Repeat steps 1 to 4 as many times as required.

Each time you change the operator, the previous calculation is performed and the result is displayed as the top number in the display.

Notes:

- To erase any mistakes and clear the display, press .
- Use  to enter a decimal point and  to change the sign of a number to a negative (-).

Calendar**Set Time***Menu 5.9*

The option enables you to set the current date and time. Enter the date and time using the numeric keys.

The current time, if set, displays. The month, day, hour and minute must be entered with 2 digits. The year requires all four digits. If you do not input the time or you input the wrong time, **INVALID TIME** displays and the phone prompts you to enter again.

Notes:

- Press  labeled with P to switch to PM and  labeled with A to switch to AM.
- If you make a mistake while entering, press  or  to move to the wrong digit and enter the correct digit.

Voice Dial

When your phone is in digital mode, you can call up to 20 stored entries by speaking the name into the microphone. Using the Voice dialing option requires that you first record the name of the person you are calling so your phone recognizes it.

Record

Menu 6-1

This option allows you to record names and register numbers for subsequent voice dialing. The phone provides voice prompts and screen displays to guide you through the recording process.

1. Say the name you want to program at the prompt. The phone stores the name as a first sample, and then prompts for the name again.
2. Respond to the prompt by repeating the name after the beep. The phone stores the name as a second sample, and then requests the phone number.
3. Enter the phone number by pressing the numeric keys.
4. To store the phone number, press . The name (if matched up to Phone Book) and number display, along with the notification **Recorded**.

Tips on Recording Name

- Avoid recording similar names phonetically. If you record a similar name to the one already in memory, the phone requests another name.
- Speak clearly and naturally.
- The person who will use the phone should record the name. The phone does not recognize the name if the voice sounds differently.
- Avoid too long or too short name. Names with two to five syllables are recommended.
- If this feature does not work properly, erase the name, and record with another name.
- It is recommended to practice several times to obtain best result.
- You can record up to 20(????) names. If you try to record more than 20(????), the phone announces 'Memory is full'.

Review

Menu 7-2

This option allows you to check or erase an individual voice dial entry. A list of entries displays.

Press the numeric key to select the desired entry, or press  or  to scroll to the entry and press .

When you select the desired entry, the recorded name plays, and if you do nothing, your entire voice dial list is scrolled and each entry played. When the last entry is played, the phone returns to Standby mode.

Voice Mail

Erase All

Menu 7-3

This option allows you to delete all voice dialing entries.

Press  to confirm the deletion. Otherwise, press  or  to exit this menu without deleting the voice dialing entries.

Note: If you want to erase an individual voice dialing entry, press  while reviewing the entry.

Set Active

Menu 7-4

Voice Dialing is always active once you have recorded a name and have entered the associated phone number.

To place a call using the Voice Dialing feature, simply press and hold  in Standby mode and then say the name into the phone after you hear the prompt.

You can also initiate a Voice Dialing call just by opening the flip, when you select this option.

Talk only: Enables Voice Dialing only by pressing and holding down .

Talk / Flip: Enables Voice Dialing by pressing and holding down  or by opening the flip.

Voice Mail

This menu allows you to listen to the voice mail messages and reset the counter for the voice mail messages, if desired.

If you have new voice mail message(s), the screen displays "**New Voice mail**", the time, date and the number of new messages.

Note: Contact your serve provider for information on setting up your voice mail service.

Listen

Menu 6-1

You can listen to the voice mail messages.

Note: You can quickly access to your voice mail box by pressing and holding down  in Standby mode.

Reset

Menu 6-2

The voice mail system should automatically clear the New Message icon  after you have listened to all new voice mail messages. If the icon is not automatically cleared (that is, reset), you can clear the icon manually using this option.

Sounds

You are provided a variety of ringer options in the Sounds menu. These ringer options allow you to customize your ring and volume settings so that you can easily recognize when a certain type of call is coming in.

Ringer Volume

Menu 8.1

This option allows you to adjust the ringer volumes of calls, messages and alarm. You can set each volume to **HIGH**, **MED**, or **LOW**.

Selecting **OFF** does not sound the ring volume.
Selecting **VIBRATE** switches the phone to vibration mode. In vibration mode, an incoming call vibrates the phone.
Selecting **1-BEEP** sounds a beep.

Ringer Type

Menu 8.2

This option enables you to set a unique ringer type for voice calls, messages, data/fax or alarms.

Voice Calls: allows you to set a unique ring type for incoming voice calls. Also, by selecting different tones, incoming voice calls which have caller ID can be distinguished from those that do not.

Sounds

Messages: allows you to have distinct ring types for voicemail notifications, text messages, numeric pages, and browser messages.

Alarms: allows you to have distinct ring types for alarms.

Data/Fax In: allows you to have distinct ring types for incoming data or fax call.

Key Beep

Menu 8.3

This option allows you to select the tone volume that the keypad generates each time you press a key. You can select off, **LOW**, **MED** or **HIGH** for the volume.

Tone Length

Menu 8.4

The tone length setting enables you to select **short** or **long** DTMF (dual-tone multi-frequency) tones. DTMF tones are what is sent by your phone to access teleservices (such as a bank account). The system used by the bank or other service determines if you need short or long DTMF. If the service is digital (which most are these days), short DTMF will almost always work. However, some new systems and almost all older (analog) systems require you to use long DTMF tones.

Sounds

Alerts

Menu 8.5

You can turn the alert tones on or off.

Minute Beep: With this menu option set to **ON**, the phone sounds an alert 10 seconds before each elapsed minute to remind you of the length of the current call.

Service: With this menu option set to **ON**, the phone beeps when the phone experiences a dropped call or a failed call or when the phone leaves or enters a service area.

Roam Ringer

Menu 8.6

This option enables you to select a unique ring type for incoming roaming calls.

Press  or  to choose **Distinctive** or **Normal**. Each ring melody sounds as you scan the options.

Setup/Tool

Many different features of your phone can be customized to suit your preferences.

Display

Menu 9.1

Backlight

When the phone is attached to the optional Hands-Free Car Kit, the backlight remains on (when the phone is on). At other times, you can select backlight options, but remember that backlight use drains your battery faster.

The following options are available:

30 SECONDS: The backlight comes on when you press a key or receive a call and switches off 30 seconds after the last key is pressed.

10 SECONDS: The backlight comes on when you press a key or receive a call and switches off 8 seconds after the last key is pressed.

always off: The backlight is not used.

always on: Once you switch the phone on, the backlight always comes on.

Setup/Tool**Greeting**

You can create and display a 12-character personal greeting that displays in the Standby mode.

1. Press and hold  to erase the existing greeting.
2. Enter your personal greeting by pressing the alphanumeric keys on the keypad. For more details on entering text, see page xx.
3. When entering is done, press . You can see your own greeting on the display.

Contrast

The menu allows you to adjust the contrast of the LCD screen. You can set the contrast to **Lowest**, **Low**, **Med**, **High**, or **Highest**. Each time you scan the setting pressing  or , you can see the status of the LCD changing according to each of the settings.

Version

The menu allows you to view the software and hardware versions of your phone. This feature is helpful if you need to call the customer care.

Setup/Tool**Security***Menu 9.2*

Your phone provides many security options, including a user-programmable lock code, call restriction, and phone resetting features. When you are accessing this menu, your phone requires the four digital lock code. The lock code is preset to 0000.

Lock Phone

This menu allows you to lock the phone. Locking the phone limits all outgoing calls except calls to the three hard coded emergency numbers (911, *911 and #911) and the three user-programmable special number.

Unlocked: The phone remains unlocked.

Lock Now: The phone locks immediately and stays locked until the lock code is entered.

On Power-Up: The phone locks automatically the next time your phone is powered on and stays locked until the lock code is entered.

To unlock the phone:

When the phone is locked, you can see "MENU:Unlock" on the display. Press  and when the phone prompts to enter the lock code, enter the four digits lock code.

Setup/Tool

Change Lock

The default lock code for your phone is 0000. You can enter a personal lock code, and then change the lock code as often as you like.

Note: Your phone does not allow viewing of the lock code unless you know the lock code (this is for obvious security reasons). So, if you change the lock code, be sure to write down the new code and keep it for your reference.

1. Enter a new code.
2. Enter the new code once again. The phone automatically returns to Standby mode.

Special Number

Your phone provides the option of storing special numbers. Each special numbers can be up to ten digits long. All three special numbers can be manually dialed at any time even when your phone is locked. This can be a useful feature for controlling what numbers can be dialed from your phone.

1. Select a location for the special number, then press .
2. Enter the desired number, then press  to save the number.

To make an emergency call in lock mode, enter the special number by dialing it as you normally would use the digit keys. Then press  to call.



Setup/Tool

Erase Phonebook

This menu allows you to erase all numbers in the Phone Book memory.

When a confirmation displays explaining that you will erase the entire Phone Book entries, press  to confirm.

Reset Phone

Resetting the phone erases all incoming messages, call logs, special numbers, and returns all user-selectable options to the default settings.

When a confirmation displays explaining that you will reset the phone, press  to reset the phone. The phone reboots (turns itself off then on), then returns to Standby mode.

Call Answer

Menu 9.3

This menu allows you to select how you answer when an incoming call comes. Your phone is preset to answer when you press .

The following options are available:

Flip Open: You can simply open the flip cover to answer the call.

Any key: You can press any key except  to answer the call.

TALK key: You should press  to answer the call.



Setup/Tool

Auto Answer

Menu 9.4

Your phone has an automatic answer feature for use with the optional Hands-Free Car Kit. If your phone is installed in the Hands-Free Car Kit cradle, and this menu is turned on, then an incoming call will be answered automatically.

Car kit Only Yes: Select to turn this feature on. When an incoming call comes in, the phone receives the call automatically after ringing two times.

Car kit Only No: Select to turn this feature off. When an incoming call comes in, your phone does not answer the call until you receive the call.

Language

Menu 9.5

Your phone can display all menus and messages in **English, Portuguese or Spanish**. All verbal prompts will also be spoken by the phone in the selected language.

When the desired language displays, press  to

Reference Information

Accessories

Batteries

Two types of Li-ion batteries are available for use with your phone:

- STANDARD Battery
- EXTENDED Battery

Desktop Charger

Desktop charger allows you to recharge your battery with the phone and also an extra battery, if any, simultaneously.

Cigarette Lighter Adapter

The Cigarette Lighter Adapter charges your phone in a vehicle while you drive and enables you to operate the phone from a vehicle cigarette lighter socket.

Hands-Free Car Kit

The Hands-Free Car Kit provides safety, freedom and convenience in your vehicle. (Kit includes Cradle and Microphone.)

Ear-Microphone

The Ear-Microphone includes both the earpiece and microphone in a convenient, lightweight unit.

RS-232C Cable

The RS-232C Cable connects your SCH-N170 to your computer port, allowing you to use Internet or other communication programs.

Reference Information

Using the Batteries

Your phone is powered by a rechargeable Li-ion standard battery.

Additional batteries are also available (ask your SAMSUNG dealer for further details):

Precautions When Using Batteries

- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the phone near the network's base station, it uses less power; talk and standby times are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging times depend on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.

Reference Information

- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and life-time of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).
- Do not short-circuit the battery. Accidental short circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the back of the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuit.
- Dispose of used batteries in accordance with local regulations. Always recycle. Do not dispose of batteries in a fire.

Reference Information

Safety Information

Road Safety

- Remember, road safety always comes first!
- Do not use a hand-held phone while driving a vehicle. Always park the vehicle before having a conversation.
- Make sure that the phone is stored safely and will not fall or be broken in the event of a collision or emergency stop.
- The use of an alert device to operate a vehicle's lights or horn on public roads is not permitted.
- Only qualified personnel should install or service the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the unit.
- Electronic fuel injection, anti-skid braking, electronic cruise control or any other electronic systems may malfunction due to the lack of protection from radio signals. Check regularly that all cellular phone equipment in your vehicle is mounted and operating correctly.

Operating Environment

- Remember to follow any special regulations in force in any area and always switch off your phone whenever it is forbidden to use it, or when it may cause interference or danger (in a hospital for example).

Reference Information

- Operation of any radio transmitting equipment, including cellular phones, may interfere with inadequately protected medical devices. Consult a physician or the manufacturer of the medical device if you have any questions. Other electronic equipment may also be subject to interference.
- As with other mobile radio transmitting equipment, you are advised that for satisfactory operations and personal safety, the equipment should only be used in the normal operating position.
- Always switch off the phone when at a refuelling point (service station). You are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.
- Switch off your cellular phone when in an aircraft. The use of cellular phones in an aircraft is illegal and may be dangerous to the operation of the aircraft or disrupt the cellular network. Failure to observe these instructions may lead to the suspension or denial of cellular telephone services to the offender, legal action or both.



Reference Information

Care and Maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you fulfill the warranty obligations and enjoy this product for many years.

- Keep the phone and all its parts and accessories out of the reach of children.
- Keep the phone dry. Precipitation, humidity and liquids containing minerals will corrode the electronic circuits.
- Do not use or store the phone in dusty, dirty areas as its components may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up (to its normal temperature), moisture can form inside the phone, which may damage the electronic circuits.
- Do not attempt to open the phone. Non-expert handling of the phone may damage it.
- Do not drop or knock the phone. Rough handling may damage the internal circuits.



Reference Information

- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in mild, soapy water.
- If the phone or any of its accessories are not working properly, take them to your nearest qualified service centre. The personnel there will assist you, and if necessary, arrange for the phone to be repaired.

Emergency Calls

Important! This phone, like any cellular phone, uses radio signals, cellular and landline networks, as well as user-programmed functions that cannot guarantee connection in all conditions. Therefore, you should never rely solely on any cellular phone for essential communications (medical emergencies for example).

Remember, to make or receive any calls, the phone must be switched on and in a service area with adequate cellular signal strength.

Emergency calls may not be possible on all cellular phone networks or when certain network services and/or phone features are in use. Check with local cellular service providers.



Glossary

Airtime - Actual time spent talking on the wireless phone. Most carriers bill customers based on how many minutes of airtime they use each month.

Antenna - A device for transmitting or receiving signals. The size and shape of antennas is determined, in part, by the frequency of the signal they receive. Wireless phones and the base station must have antennas.

Base Station - The fixed radio transmitter/receiver that maintains communications with mobile radio telephones within a given area. (Typically seen as cell or cell site)

CDMA - (Code Division Multiple Access) A spread-spectrum approach to digital transmission. With CDMA, each conversation is digitized and then tagged with a code. The mobile phone deciphers only a particular code to pick the right conversation off the air. The transmitted signal is just above noise level across the available bandwidth.

Channel - Communications signals transmit along paths called channels.

Codec - Compression & Decompression.

Call Waiting - Ability to inform users that they have an incoming call when engaged on another call.

Glossary

Line Identification Services (Caller ID Display) - Services allowing subscribers to view or block the telephone numbers of callers.

Frequency - A measure based on time, as one or more waves per second, in an electrical or light wave information signal. A signal frequency is stated in cycles-per-second or Hertz (Hz).

Hands-Free - A feature that permits a driver to use a wireless phone without lifting or holding the handset - an important safety feature for automobiles, tractors and most other motorized vehicles.

LCD - (Liquid Crystal Display) Commonly used to refer to the screen display on the wireless phone.

LED - (Light Emitting Diode) Commonly used to refer to a small light on the wireless phone or on the Desktop Charger. The LED lights on the phone to indicate an incoming call. The lights on the charger to indicate that battery charging is taking place.

Prepend - The addition of a prefix, such as an area code, to a phone number.

RF - Radio Frequency

Roaming - The ability to use a wireless phone to make and receive calls in places outside of the home service area.

Glossary

Service Charge - The amount paid each month to receive wireless service.

Soft Keys - Two keys  and  in the web browser, the function of which:

- Varies depending on where you are.
- Is indicated on the bottom line of the display just above the corresponding key.

Standby Time - The amount of time a fully charged wireless portable or transportable phone can be on and idle without being in use. (See Talk Time)

Talk Time - The length of time a person can talk on a portable or transportable wireless phone without recharging the battery.

Vocoder - Voice Coder. A device used to convert speech into digital signals.

Voicemail - A computerized answering service that answers a call, plays a greeting and records a message. Depending on the sophistication of the service, it can notify the subscriber, via a pager, of an incoming call or message. (Also called voice messaging)

Wireless - Radio-based Systems that allow transmission of telephone or data signals through the air without a physical connection, such as a metal wire (copper) or fiber optic cable.

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SAMSUNG

SCH-N170 Quick Reference Card

BASIC OPERATION

Make a call	Phone number + TALK
Receive a call	TALK or Open the flip
Adjust speaker volume	(in Talk mode) ▲/▼ repeatedly
Adjust ring volume	(in Standby mode) ▲/▼ repeatedly
Redial last number	TALK twice
Scan the last calls and dial	TALK + Navigation (up or down) + TALK
Activating voice dialing	Press and hold TALK

INTERNAL PHONE BOOK

Store numbers into memory
 Phone number + **OK**
 + Select a label + **OK** + **OK** +
 Enter a name + **OK** + **OK**
 for another location + **OK**

Speed dial

One Touch (001-000): Hold down the third digit.
Two Touch (010-000): Press the second digit, then hold down the third digit.
Three Touch (100-200): Press the first and the second digit, then hold down the third.

Scan memories
Erasing an entry
 MENU + 3 + 1 + ▲/▼ + **OK**
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2 : Wireless/Web	1 : Messages 2 : Video Alerts 3 : Launch Browser 4 : Connection 5 : Web Guard 6 : Erase Messages	6 : Voice Mail 1 : Listen 2 : Reset
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5 : Calendar	1 : Today 2 : View Month 3 : Jump To Date 4 : To Do List	9 : Setup/Tool 1 : Display 2 : Security 3 : Call Answer 4 : Auto Answer 5 : Language

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of the following Patents.
U.S Patent No. 4,901,307 5,056,109 5,099,204
5,101,501 5,103,459 5,107,225
5,108,390