

DUAL BAND GPRS Series SGH-e315 Portable Digital Telephone User Manual

**Please read this manual before operating your phone,
and keep it for future reference.**



ELECTRONICS

Printed in Korea
Code No.: GH68-05533A
English 08/2004 Rev. 1.0

Intellectual property

All Intellectual Property, as defined below, owned by or which is otherwise the property of Samsung or its respective suppliers relating to the SAMSUNG Phone, including but not limited to, accessories, parts, or software relating thereto (the "Phone System"), is proprietary to Samsung and protected under federal laws, state laws, and international treaty provisions. Intellectual Property includes, but is not limited to, inventions (patentable or unpatentable), patents, trade secrets, copyrights, software, computer programs, and related documentation and other works of authorship. You may not infringe or otherwise violate the rights secured by the Intellectual Property. Moreover, you agree that you will not (and will not attempt to) modify, prepare derivative works of, reverse engineer, decompile, disassemble, or otherwise attempt to create source code from the software. No title to or ownership in the Intellectual Property is transferred to you. All applicable rights of the Intellectual Property shall remain with SAMSUNG and its suppliers.

Samsung Telecommunications America, L.P.

U.S. Headquarters:

1301 East Lookout Drive
Richardson, Texas 75082
Tel: 972-761-7000
Fax: 972-761-7001

Customer Care Center:

1601 E. Plano Parkway
Suite 150
Plano, TX 75047
Tel: 888-987-HELP (4357)
Fax: 972-761-7501

Internet Address: <http://www.samsungusa.com/wireless>

©2004 Samsung Telecommunications America. All rights reserved. No reproduction in whole or in part allowed without prior written approval. Samsung is a registered trademark of Samsung Electronics America, Inc. and its related entities.

Table of contents

Unpacking	7
Your phone	9
Phone layout	9
Display	13
Icons	14
Service light	16
Camera	16
Getting started	17
Installing the SIM card	17
Charging a battery	19
Switching your phone on/off.....	21
Call functions	23
Making a call	23
Adjusting the volume.....	25
Answering a call.....	26
Viewing missed calls.....	26
Quickly switching to Silent mode	29
Selecting functions and options	31
Using the soft keys.....	31
Selecting options.....	32
Phone book	33
Storing a number with a name	33
Storing a number using the Phone book menu.....	34
Using Phone book entry options	35
Dialling a number from Phone book.....	37
Speed-dialing	38
Searching for and dialing numbers in Phone book	40
Editing a caller group	42

Deleting all of the Phone book entries.....	43
Checking the memory status.....	44
Setting Your Own Number	44
Entering text	47
Changing the text input mode	48
Using T9 mode	49
Using Alphabet mode	51
Using Number mode	52
Using Symbol mode	52
Options during a call	53
Using the Menu Functions.....	53
Placing a call on hold	53
Muting a call	54
Muting/Sending Key Tones	55
Sending Sequence of DTMF Tones.....	55
Searching for a number in Phone book.....	56
Using the message service (SMS)	56
Call waiting.....	56
Making a multi-party call.....	57
Using the menus	61
Accessing a menu by scrolling.....	61
Using shortcuts.....	62
List of menu functions	62
Voice messages.....	67
Recording and sending voice messages.....	67
Voice message options	68
Call records	69
Missed calls.....	69
Incoming calls.....	69
Outgoing calls.....	70
Delete all	70
Call time	71






Network services	73
Call forwarding	73
Call waiting.....	74
Network selection.....	75
Caller ID	75
IM (Instant message)	77
Starting your IM.....	77
Using the instant messenger options.....	77
Messages	79
Text messages.....	79
Picture messages	87
Browser messages	97
Voice mail	98
Funbox	99
t-zones	99
Games	104
Sounds.....	106
Images	107
Delete all	108
Memory status	108
Organizer	111
Alarm.....	111
Calendar	113
Calculator.....	115
To do list	116
Voice memo	118
Currency exchange.....	120
Camera	121
Take and send	121
My photos	125
Record videos	126
My videos.....	127

My album.....	128
My journal.....	128
Delete all	129
Memory status.....	130
Settings.....	131
Time & Date	131
Phone settings.....	132
Display settings	135
Sound settings.....	137
Security	140
Reset settings.....	143
Solving problems	145
Access codes	149
Phone password.....	149
PIN	150
PUK.....	150
PIN2	151
PUK2.....	151
Important safety precautions.....	153
Health and Safety Information	155
Exposure to Radio Frequency (RF) Signals.....	155
For Body Operation	157
Precautions When Using Batteries.....	157
Road Safety.....	159
Operating Environment	161
Electronic Devices.....	161
Potentially Explosive Environments	163
Emergency Calls	164
Other Important Safety Information	165
Care and Maintenance	165
Acknowledging Special Precautions and FCC and Industry Canada Notice.....	167

Appendix A: Certification Information (SAR)	169
Appendix B: Guide to Safe and Responsible Wireless Phone Use	171
Appendix C: Consumer Update on Wireless Phones.....	177
Standard Limited Warranty	187
Glossary.....	193
Index.....	197

Unpacking

Your package contains the following items:

 Handset	 Travel Adapter
 Battery	 Ear-microphone
 User's Manual	

Your local Samsung dealer can provide you with additional accessories including:

- Standard battery
- Simple hands free car kit
- Cigarette lighter adapter
- Travel adapter/charger
- Data kit
- Ear-microphone
- Car holder
- Battery charger
- Holster




Your phone







Phone layout




The illustrations below show the main features of your phone:





Key(s)	Description
	<p>Use the Up and Down portions of the navigation key to scroll through menus and your Phone book.</p> <p>In Idle mode, pressing Up allows you to quickly access the Camera menu, while pressing Down allows you to access your favorite menus directly. For more information about shortcuts, see page 133.</p>
	<p>Use the left and right portions of the navigation key to select menus. In Menu mode, the Left key returns you to the previous menu level and the Right key selects the current menu.</p> <p>You can also move your cursor to the left and right when entering text, and Idle mode, you can access your favorite menus directly. For more information about shortcuts, see page 133.</p>
	<p>The left and right soft keys allow you to select the menu text on the bottom line of your display.</p>

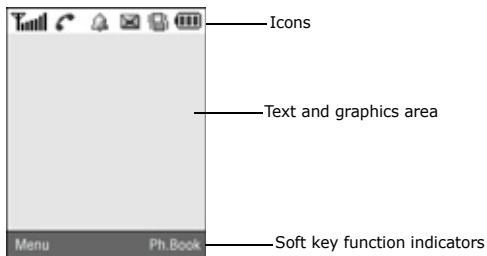
Key(s)	Description
	<p>In Idle mode, use the Browser key to launch the WAP (Wireless Application Protocol) browser, and in menu mode, use this key to select a highlighted option.</p>
	<p>Use the Dial key to make or answer calls.</p> <p>In Idle mode, hold down to review the most recent number dialed or received.</p> <p>In Menu mode, use to select a menu function or stores information that you have entered, such as the name in a Phone book entry.</p>
	<p>Use the Cancel key deletes characters in the display.</p> <p>In Menu mode, use it to return to the previous menu level.</p>
	<p>Use the Menu exit key to end a call or turns your phone on and off.</p> <p>In Menu mode, use it to return to Idle mode.</p>
	<p>In Idle mode, press and hold this key to access your voice mail.</p>
	<p>Use the keypad to enter numbers, letters, and some special characters.</p>

Key(s)	Description
	<p>Enters special characters.</p> <p>Performs various functions.</p>
	<p>Press and hold the Camera key, on the right side of your phone, to turn your camera on. With your camera on, use this key as your shutter button.</p>
	<p>Use the Volume key, on the left side of your phone, to adjust the earpiece volume during a call, or use it to adjust the keypad tone volume with the phone open and in Idle mode.</p> <p>With the phone closed, press and hold to turn on the external display.</p> <p>In Menu mode, use for scrolling through menus.</p>

Display











Display layout


The display has three areas:



Area	Description
Top line	Displays various icons. See page 14.
Text and graphics area	Displays messages, instructions, and any information you enter, such as a phone number you're dialing.
Bottom line	Shows the functions currently assigned to the soft keys.

Icons

Icon	Description
	Indicates the incoming signal strength. The more bars displayed, the stronger the signal.
	Displays when you are on a call.
	Displays if you leave your service area. When displayed, you cannot make or receive a call.
	Displays when the Call Forwarding feature is activated.
	Indicates that an alarm is set to ring at a specified time.
	Displays when a you receive a new text message.
	Displays when you receive a new multimedia message.
	Displays when you receive a new voice mail message.
	Indicates that you have activated the Mute mode.
	Indicates that either Silent mode is active or that you have set your phone to vibrate when you receive a call. For more details on this feature, see Sound Settings on page137.

Icon	Description
	Indicates the charge level of your battery. The more bars you see, the more power remaining.

Back light

When you open your phone or press any key, a back light illuminates the display and the keypad. You can set the amount of time that the back light remains on by changing the setting in the **Back Light** menu (**Menu 9.3.4**). The display turns off after one minute to conserve battery power. For details, see page 136.

External display

Your phone has an external display on the front of the phone. It indicates when you have an incoming call or message. It also alerts you at a specified time when you have set an alarm. The back light turns on and the corresponding icon appears on the external display.

When you close your phone, the display shows the current time on a digital clock. You can select the display color using the **Exterior display** menu (**Menu 9.3.2**). For details, see page 136.

With the phone closed, the external display can be used while taking pictures. If you press and hold the Camera key, the external display becomes the view finder for your camera. See page 121.

Service light

The service light is on the front of the phone, and it flashes to indicate that services are available for your phone.

To activate or deactivate the service light, use the **Service Light** menu (**Menu 9.3.5**). For details, see page 136.



Camera

The camera feature on your phone allows you to take a photo or record a video while on the move. For further details about the Camera feature, see page 121.

Getting started


Installing the SIM card

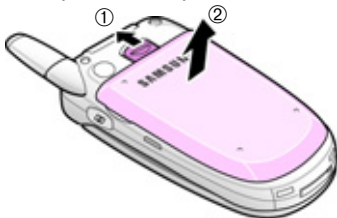
When you subscribe to a cellular network, you are provided with a plug-in SIM card loaded with your subscription details, such as your PIN, any optional services available, and much more.

Important! The plug-in SIM card and its contacts can be easily damaged by scratches or bending, so be careful when handling, inserting, or removing the card.

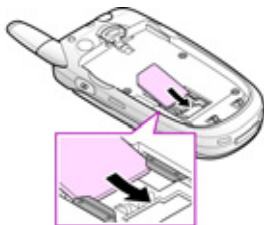
Keep all SIM cards out of the reach of small children.

To install your SIM card, follow these steps:

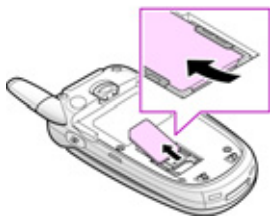
1. If necessary, switch your phone off by holding down the  key until the power-off image displays.
2. Remove the battery. To remove your battery, follow these steps:
 - ① Slide the battery lock towards the top of the phone and hold it in that position.
 - ② Lift away the battery, as shown.



- Slide the SIM card into the SIM card socket so that the card locks into place. Make sure the gold contacts of the card face into the phone.



Note: When you need to remove your SIM card, slide it out of the socket, as shown.



- Replace the battery so the tabs on the end align with the slots at the bottom of the phone.



5. Press the battery until it clicks into place. Make sure that the battery is properly installed before turning your phone on.



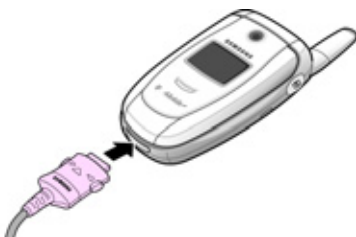
Charging a battery

Your phone is powered by a rechargeable Li-ion battery. A travel adapter comes with your phone for charging the battery. Use only approved batteries and chargers. Ask your local Samsung dealer for details.

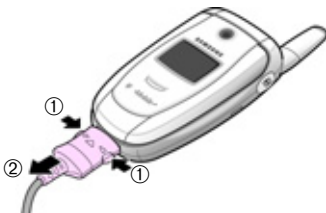
You can use your phone while the battery is charges, but it takes longer for the battery to charge completely.

Note: You must fully charge the battery before using your phone for the first time. A discharged battery fully recharges in about three and half hours (200 minutes).

1. With the battery installed, plug the connector of the travel adapter into the jack at the bottom of the phone.



2. Plug the adapter into a standard AC wall outlet.
3. When charging is finished, unplug the adapter from the power outlet and disconnect it from your phone by pressing the buttons on both sides of the connector and pulling the connector out.






Note: You must unplug the adapter before you remove the battery from the phone during charging; otherwise, the phone could be damaged.

Low battery indicator

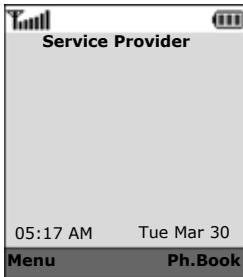
When the battery is weak and only a few minutes of talk time remain, a warning tone sounds and the “Warning Low Battery” message repeats at regular intervals on the display. When this occurs, your phone turns off the backlight to conserve the remaining battery power. When the battery level gets too low, the phone automatically turns off.

Note: Standby and talk times will vary depending on phone usage patterns and conditions. Battery power consumption depends on factors such as network configuration, signal strength, operating temperature, features selected, vibrate mode, backlight settings, browser use, frequency of calls, and voice, data, and other application usage patterns.


Switching your phone on/off

1. Open the phone.
2. Press and hold the  key until the phone switches on.
3. If the phone asks you to enter the phone password, enter the password and press the **OK** soft key or the  key. The password is preset to “00000000” at the factory. For further details, see page 149.
4. If the phone asks for a PIN, enter the PIN and press the **OK** soft key or the  key. For further details, see page 150.

The phone searches for your network and after finding it, the idle screen, illustrated below, appears in the display. Now, you can make or receive calls.




Note: The display language is preset to English at the factory. To change the language, use the **Language** menu (**Menu 9.2.1**). For further details, see page 132.

5. To turn your phone off, press and hold the  key until the power-off image displays.



Call functions

Making a call




When the idle screen displays, enter the area code and phone number, and press the  key.

Note: When you activate the Auto Redial option in the **Extra Settings** menu (**Menu 9.2.5**), the phone will automatically redial up to ten times when the person does not answer the call or is already on the phone. See page 134 for more details.


Making an international call

1. Press and hold the  key. The + character displays.
2. Enter the country code, area code, and phone number and press the  key.

Correcting the number

To clear	Press the
the last digit displayed	 key
any other digit in the number	Left or Right key until the cursor is to the right of the digit you want to delete, then press the  key. You can also insert a missing digit this way.
the whole display	press and hold the  key and hold it for more than one second.



Ending a call


When you want to end your call, briefly press the  key.

Redialing the last number

The phone stores the numbers for calls you've dialed, received, and missed. For more details, see "Call records" on page 69.

To recall any of these numbers:

1. If you have typed characters on the display, press the  key to return to Idle mode.
2. Press the  key to display your recent numbers, listed in the order in which you dialed or received them.
3. Use the Up and Down keys to highlight the number you want, and then choose one of the options below.

To	Press the
dial the number	 key.
edit the number	Options soft key and select Edit . Then change the number, referring to "Correcting the number" on page 23.
delete the number	Options soft key and select Delete .
delete all of the numbers	Options soft key and select Delete all . For details, see page 70.

Making a call from Phone book

You can store phone numbers that you use regularly on the SIM card or in the phone's memory. These entries are collectively called your Phone book.

Once you have stored a number in your Phone book, you can dial it by pressing just a few keys. You can also assign your most frequently-used numbers to number keys using the Speed Dial feature.

For more details about your Phone book, see page 33.

Adjusting the volume

To adjust the earpiece volume during a call, use the Volume keys on the left side of your phone. Press the ▲ key to increase the volume, or press the ▼ key to decrease the volume.






Note: In Idle mode, use the ▲ and ▼ keys to adjust the keypad tone volume.


Answering a call

When you receive a call, your phone rings and displays the incoming call image. If you have stored information about the caller in your Phone book, then this information displays when they call.

Note: You can answer a call while using the Phone book or menu features.

1. To answer a call, open your phone and press the  key or press the **Accept** soft key.
 - If **Anykey Answer** in the **Extra Settings** menu (**Menu 9.2.5**) is activated, you can press any key except the  key or **Reject** soft key to answer a call. See page 134.
 - If **Active Folder** in the **Extra Settings** menu (**Menu 9.2.5**) is activated, your call is answered automatically when you open your phone.

Note: To reject an incoming call, press and hold the Volume keys if your phone is closed, or press either the  key or the **Reject** key if your phone is open.



2. To end a call, either close your phone or press the  key.

Viewing missed calls

When you do not answer an incoming call, your phone displays a missed call message on the idle screen, which indicates how many calls you missed.



To review missed calls:


1. Open your phone, if closed.
2. Press the **View** soft key. The number corresponding to the most recent missed call displays. To view other numbers, return a call, or edit the numbers, follow these steps:


To	Press the
scroll through the missed calls	Up or Down key.
call the number displayed	 key.
edit or delete a missed call number	Select soft key or the  key and follow the steps listed in Editing a missed call number below.

Editing a missed call number




Note: When the number corresponding to the missed call is not available, the Edit Number option does not display.


1. With the **Missed Calls** menu displayed (**Menu 2.1**), use the Up and Down keys to highlight the number you want to edit.
2. Press the **Select** soft key or the  key.
3. Press the **Options** soft key or the  key.

4. Highlight **Edit**, and press the **Select** soft key or the  key.
5. Enter the number you want.

To	Press the
call the number	 key
store the number	Save soft key and enter a name and location. For further details, see page 33.

Deleting a missed call


1. With the **Missed Calls** menu displayed (**Menu 2.1**), use the Up and Down keys to highlight the number you want to delete.
2. Press the **Select** soft key or the  key.
3. Press the **Options** soft key or the  key.
4. Highlight **Delete**, and press the **Select** soft key or the  key.

You can press the  key at any time to exit the **Missed Calls** menu.


Note: You can access the Missed Calls feature by selecting the **Missed Calls** menu (**Menu 2.1**) For more details, see page 69.

Quickly switching to Silent mode

Silent mode is convenient when you want to turn your phone's ring tone off, in a theater for example.

In Idle mode, press and hold the **#** key until the **Silent mode** message and the Vibration icon () display.



In Silent mode, instead of sounds, your phone will vibrate, flash its light, or do nothing, depending on the function and the situation.

To exit and reactivate the previous sound settings, press and hold the **#** key again until **Exit silent mode** displays. The Vibration icon () no longer displays.

Notes:

- When you turn off the phone, Silent mode is not deactivated.
- Activating Silent mode does not turn off the camera's shutter sound.

Selecting functions and options

You can customize most of your phone's functions. These functions are arranged in menus and sub-menus and are accessed using the two soft keys  and  on your keypad. Each menu and sub-menu allows you to view and change the settings for a particular function.

Using the soft keys

The roles of the soft keys vary depending on the function you are currently using, and the labels on the bottom line of your display just above each key indicate their current role.








Press the left soft key
for Menu mode.

Press the right soft key
to access the **Phone
book** menu.

Selecting options

To view the various functions and change the options available to you, follow these steps.

1. Select the menu you want.
2. Press the appropriate soft key.

To	Press the
select the: <ul style="list-style-type: none">• function displayed• option highlighted	Select soft key or the  key.
view the next function or highlight the next option on a list	Down key or  key on the left side of the phone.
move back to the previous function or option on a list	Up key or  key on the left side of the phone.
move back up one level in the menu structure	Left key,  soft key or C key.
exit the menu structure without changing the settings	 key.

In some functions, you may need to enter a password or PIN. Enter the code and press the **OK** soft key.

Note: When you access a list of options, your phone highlights the currently active option. If there are only two options, such as **On/Off** or **Enable/Disable**, your phone highlights the option that is not currently active, so that you can select it directly.

Phone book

You can store phone numbers with a callers name in your SIM card or in your phone's memory. These memory location are physically separate but are used as a single entity, called your **Phone book**.

Note: The maximum number of phone numbers that you can store varies depending on your particular SIM card.

Storing a number with a name


There are two ways to store a number:

- Using the **Save** soft key in Idle mode
- Using the **New Entry** option in the Phone book menu.

Storing a number in Idle mode

When you enter a number, **Save** displays above the left soft key so you can store the number in your Phone book.


1. Enter the number you want to store.


Note: If you make a mistake entering a number, correct it using the  key.

2. To save the number, press the **Save** soft key.


3. Select a category for the number. There are three categories available:

- Mobile number
- Work number
- Home number

To select the category, press the Up or Down key and press the **Select** soft key or the  key.



4. Select a memory location, either **SIM** or **Phone**, using the Up or Down key and then pressing the **Select** soft key or the  key.

Note: When you change phones, any numbers stored in your SIM card memory are automatically available with the new phone, whereas any numbers stored in the phone's memory will need to be reentered.



5. Enter a name, and press the **OK** soft key or the  key to store the name and number.

Note: For further details on how to enter characters, see page 47.


After saving the entry, your phone displays the Phone book entry or name you added.

To	Press the
use the entry options	Options soft key or the  key. For further details, see page 35.
return to the idle screen	 key.


Storing a number using the Phone book menu

1. At the idle screen, press the **Ph.Book** soft key.
2. Use the Up or Down key to highlight **New Entry** and press the **Select** soft key or the  key.
3. Highlight the category of the number to be stored, and press the **Select** soft key or the  key.


Note: The E-mail address is available in this step. It allows you to save an E-mail address instead of a phone number.

4. Select a memory location, either **SIM** or **Phone**, using the Up or Down key and then pressing the **Select** soft key or the  key.



Note: When you are saving an e-mail address, SIM Memory is not available.

5. Enter a name and press the **OK** soft key or the  key.


Note: For further details about how to enter characters, see page 47.

6. Enter a number or address you want to store and press the **Save** soft key or the  key.

After saving the entry, your phone displays the Phone book entry or name you added.

To	Press the
use the entry options	Options soft key the  key. For further details, see page 35.
return to the idle screen	 key.

Using Phone book entry options

While accessing any Phone book entry, press the **Options** soft key or the  key to use the options for the entry. The following options are available:

1. **Photo Caller ID:** allows you to assign one of your photos as a caller ID image, which is displayed when you receive a call from the selected number. For details about the Camera feature, see page 121.

Select a photo: allows you to select a photo for the number.

Take a photo: allows you to take a new photo to be used as a caller ID.

View: displays the photo assigned to the number.



Delete caller ID: cancels the photo caller ID setting for the number.

2. **Edit**: allows you to edit the name and number.

Select **One entry** to change the name and/or one number for the selected entry. If you change the name, the number is saved separately with the new name.

Select **All entry** to change only the name of the entry.

3. **Copy**: allows you to copy the number to another location. You can select the memory location, either SIM or Phone, and the location number.
4. **Paste**: allows you to paste the number into the normal dialing mode. Use this option to dial a number similar to one in Phone book, such as a different extension in the same office.

Use the  key to change the number as required; see page 23 for further details. When you are ready to dial, press the  key.

5. **Delete**: allows you to delete the name and number from Phone book. You are asked to confirm that you wish to delete the name and number by pressing the **Yes** soft key.

6. **Caller Group:** allows you to organize your Phone book entry into caller groups so that the phone alerts you in a specific way when a person from one of your groups calls you. Select one of the ten groups available.

To remove an entry from a group, select the **No Group** option. For more information about how to change caller group properties, see page 42.

7. **Add Entry:** allows you to add a new number to the currently selected name.

Dialling a number from Phone book

Once you have stored phone numbers in your Phone book, you can dial them easily and quickly by using the location numbers that you assigned to them.



Note: If you cannot remember a location number, you must go into the **Search** menu in the **Phone book** menu to search for the entry by name. For details, see page 40.

Dialling a number from the SIM card


1. Enter the location number for the phone number you want to dial, press the **#** key.

The list of entries in the SIM card displays.

Note: You can press the Up or Down key to find other numbers on the list.



2. Press the **Dial** soft key, the  key, or the  key when you have selected the number you want.

Dialing a number from the phone's memory

1. In Idle mode, press and hold . A + displays.
2. Enter the location number of the phone number you want and press the # key.

The list of entries in the phone's memory displays.



Note: You can press the Up or Down key to find other numbers on the list.

3. Press the **Dial** soft key, the  key, or the  key when you have selected the number you want.

Speed-dialing






You can assign up to eight phone numbers from your Phone book list that you use most frequently to the number keys (2 to 9), and then dial them easily whenever you want by simply pressing and holding the associated number key.

Setting up speed-dial entries



1. When the idle screen displays, press the **Ph.Book** soft key.
2. Scroll to **Speed Dial** by pressing the Up or Down key and press the **Select** soft key or the  key.
3. Select the key to which you wish to assign the speed-dialing number, from the 2 to 9 keys, and press the **OK** soft key or the  key.

Note: Memory location 1 is reserved for your Voice Mail server number.

If you have already assigned a number to the key, the **Options** soft key replaces the **OK** soft key. Go to step 6.

4. Select an entry from the Phone book list and press the **View** soft key or the  key.
5. If the entry has more than one number, highlight the number you want using Up or Down keys and press the **Select** soft key or the  key.
6. Once you have assigned a number to the selected key, you can use the following options by pressing the **Options** soft key or the  key:
 - **Change**: allows you to assign a different number to the key.
 - **Delete**: allows you to clear the setting so that no number is assigned to the key.
 - **Delete all**: allows you to clear the settings for all keys so that no numbers are assigned to any of the keys.
 - **Number**: allows you to view the number assigned to the key.
7. When you are finished, press the  or  key.


Using speed-dialing

To speed-dial the numbers assigned to keys  to , press and hold the appropriate key.



Searching for and dialing numbers in Phone book

After storing numbers in Phone book, you can search for them either by name or by caller group.


Searching for a number by name

1. When the idle screen displays, press the **Ph.Book** soft key.
2. Highlight **Search** and press the **Select** soft key or the  key.
3. Enter the first few letters of the name of the name you want. The Phone book entries are listed, starting with the entry that matches or is close to what you entered.


To	Press the
view the highlighted entry	View soft key.
select a different entry	Up or Down key until the entry you want highlights.
look for a name starting with a different letter	key labeled with the letter you want.

4. Once you have found the entry, press the  key to dial the number, or press the **Options** soft key or the  key to access the Phone book entry options; for more details, see page 35.


Searching for a number by caller group


1. When the idle screen displays, press the **Ph.Book** soft key.
2. Use the Up or Down keys to highlight **Group Search** and press **Select** soft key or the  key.
3. Enter the first few letters of the group name that you want to find.

The caller groups are listed, starting with the entry that matches or is close to what you entered





4. Use the Up or Down keys to highlight the group you want and press the **View** soft key or the  key.

The Phone book entries in the caller group are listed.

To	Press the
view the highlighted entry	View soft key or the  key.
select a different entry	Up or Down key until the entry you want highlights.



5. Once you have found the entry, press the  key to dial the number, or press the **Options** soft key to access the Phone book entry options; for more details, see page 35.


Editing a caller group


1. When the idle screen displays, press the **Ph.Book** soft key.
2. Use the Up or Down key to highlight **Group Edit** and press **Select** soft key or the  key.
3. Use the Up or Down key to highlight the group you want, then press the **Options** soft key or the  key.
4. Select each option and change the settings, as required. The following options are available:
 - **Call ring tone:** allows you to set the ring tone used when you receive a voice call from a member of that group.
 - **SMS tone:** allows you to set the ring tone used when you receive a text message from a member of that group.
 - **Graphic:** allows you to set the graphic icon displayed when you receive a voice call from a member of that group.
 - **Group name:** allows you to assign a name to the group. For further details about how to enter characters, see page 47.
5. When you are finished, press the  or  key.

Deleting all of the Phone book entries




You can delete all your entries from your phone's memory and your SIM card, if desired.

1. When the idle screen displays, press the **Ph.Book** soft key.
2. Use the Up or Down key to highlight **Delete All** and press the **Select** soft key or the  key.
3. To place a check mark by the memory location you want to clear, **All**, **SIM**, or **Phone**, highlight the location and press the  key.

Note: You can remove the check mark by pressing the  key again.




4. Press the **Delete** soft key to delete the entries in the selected memory location.
5. Enter the phone password and press the **OK** soft key or the  key.

Note: The password is preset to "00000000" at the factory. To change this password, see page 149.

6. When the confirmation message displays, press the **Yes** soft key or the  key. To cancel the deletion, press the **No** soft key.
7. When you are finished, press the  or  key.

Checking the memory status

You can check how many names and numbers are stored in your Phone book, in both the SIM card and the your phone's memory. You can also see the capacity of both memories.


1. When the idle screen displays, press the **Ph.Book** soft key.
2. Use the Up or Down key to highlight **Memory Status** and press the **Select** soft key or the  key.
3. Press the Up or Down key to view the number of the entries you stored and the total number of the entries you can store in the SIM card and the phone's memory.
4. When you are finished, press the  soft key or  key.





Setting Your Own Number

This function is a memory aid, which you can use to check your own phone number if you need to do so.

You can assign a name to each number registered on your SIM card. You can also edit the names and numbers displayed.

Note: Any changes made do not in any affect the actual subscriber numbers on your SIM card.

1. When the idle screen displays, press the **Ph.Book** soft key.
2. Use the Up or Down key to highlight **Own number** and press the **Select** soft key or the  key.

3. Select the **Own number** option by pressing the Up or Down key and press the **Select** soft key or the  key.
4. Select a location and press the **Edit** soft key or the  key.
5. Enter the number you want to save, and press the **OK** soft key or the  key.
6. Enter the name for the number, and press the **OK** soft key or the  key.

Entering text

When using your phone, you will often need to enter text, such as when storing a name in your Phone book, creating your personal greeting or scheduling events on your calendar. You can enter alphanumeric characters by using your phone's keypad.

Your phone has the following text input modes:

- T9 mode

This mode allows you to enter words with only one keystroke per letter. Each key on the keypad has more than one letter; for example, pressing the **5** key can enter J, K, or L. However, the T9 mode automatically compares the series of keystrokes you make with an internal linguistic dictionary to determine the most likely word, so many words require far fewer keystrokes than the traditional Alphabet mode below.

- Alphabet mode

This modes allow you to enter letters by pressing the key labeled with the letter you want. You press the key until the letter or number you want displays.

- Number mode

This mode allows you to enter numbers.

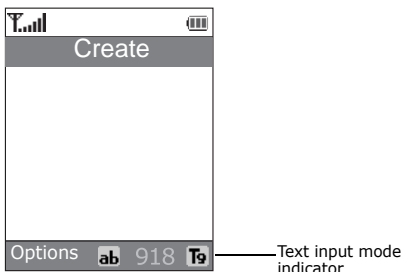
- Symbol mode

This mode allows you to enter symbols, such as punctuation marks.

Changing the text input mode

When you are in a field that allows character entry, you will notice the text input mode indicator on the display.

Example: Writing a text message



To select	Press the right soft key until
T9 mode	T9 displays. See page 49.
Alphabet mode	A displays. See page 51.
Number mode	1 displays. See page 52.
Symbol mode	the symbol list displays. See page 52.

Note: Additional text input modes may be available, depending on your country.

Using T9 mode

T9 is a predictive text input mode that allows you to key in characters using single keystrokes. This text input mode is based on a built-in dictionary.


To enter a word in T9 mode:

1. When you are in T9 mode, start entering a word by pressing keys **2** through **9**. Press each key only once for each letter in a word.

For example, to enter “Hello” in T9 mode, press the following keys: **4**, **3**, **5**, **5**, and **6** keys.

As you type different words may display until enough letters are entered to match the word you want.






2. Enter the whole word before editing or deleting the keystrokes.
3. When the word displays correctly, go to step 4.

If the word doesn't display correctly, press  or use the Up or Down key to display alternative word choices for the keys that you have pressed.

For example, if you type **6**, **3**, your phone displays “of”; however, if you wanted “me” press the Up or Down key to scroll through the other matches until it displays. Your phone displays the most commonly used choice first.


4. Insert a space by pressing the **#** key.


To add a new word into the T9 dictionary:

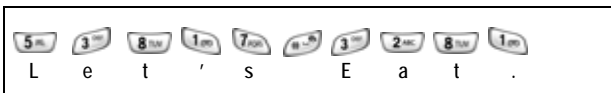
1. After pressing the keys corresponding to the word you want to add, press  or use the Up or Down key to display an alternative words.
2. When you press  or use the Up or Down key at the last alternative word, the display shows **Add** on the bottom line. Press the **Add** soft key or the  key.
3. If necessary, clear the word using the  key and enter the word you want to add using Alphabet mode. See page 51.
4. Press the **OK** soft key or the  key.


The word is added to the T9 dictionary and becomes the first word for the associated keypress series.



Note: This feature may not be available for some languages.

- To enter periods, hyphens, or apostrophes, press the  key. T9 mode applies grammar rules to ensure that correct punctuation is used.

For example, the  key is used twice to display two punctuation marks below:



- To shift case in T9 mode, use the  key. There are three cases: Initial capital (**Ab**), Capital lock (**AB**), and Lower case (**ab**).

- Move the cursor with the Left and Right keys. To delete letters, press the  key. To clear the display, press and hold  key.

Using Alphabet mode

Use your keypad keys  through  to enter text.

1. Press the key with the letter you want:



- Once for the first letter
- Twice for the second letter, and so on

2. Select the other letters in the same way.

Note: The cursor moves to the right when you press a different key. When entering the same letter twice or a different letter on the same key, pause briefly and the cursor to move to the right automatically, then select the next letter.

See the table below for more information about available characters:

Key	Characters in the Order Displayed	
	Upper Case	Lower Case
1	. @ , - ? ! : () / 1	. @ , - ? ! : () / 1
2	A B C 2 Ä Å Æ Ç Γ	a b c 2 à á â ã æ γ
3	D E F 3 É Δ Φ	d e f 3 è é φ
4	G H I 4 Θ Ψ	g h i 4 ì ψ
5	J K L 5 Λ	j k l 5 λ
6	M N O 6 Ñ Ø Ö ö	m n o 6 ñ ø ö ö
7	P Q R S 7 Π Σ Ξ	p q r s 7 β Σ Ξ
8	T U V 8 Û Ü	t u v 8 ù ü
9	W X Y Z 9 Ω	w x y z 9 Ω
0	+ = < > € £ \$ % & ¥ □ 0	



- To insert a space, press the **#** key.
- To shift case in Alphabet mode, use the **✖** key. There are three cases: Capital lock (**AB**), Lower case (**ab**), and Initial capital (**Ab**).
- Move the cursor with the Left and Right keys. To delete letters, press the  key. To clear the display, press and hold  key.

Using Number mode

Number mode enables you to enter numbers into a text message. Press the keys corresponding to the number you want.

Using Symbol mode

Symbol mode enables you to insert symbols into a text message.


To	Press the
select a symbol	corresponding number key.
display more symbols	Up or Down key.
clear the symbol(s)	 key. When the input field is empty, this key returns the display to the previous mode.
insert the symbol(s) into your message	OK soft key.
cancel your input and return to the previous mode	 soft key.

Options during a call


Your phone provides a number of control functions that you can use during a call.

Using the Menu Functions

During a call, you can access the main menu functions.

1. Press the **Options** soft key. The **Options** sub menu displays and **Menu** is highlighted.
2. Press the **OK** soft key or the  key to display your phone's main menus.
3. Use the navigation key to scroll through the menu list.

Note: You cannot use some menus during a call. They are deactivated on this list.

4. When the menu you want highlights, press the **Select** soft key or the  key.
5. If the selected menu has sub-options, repeat steps 3 and 4.


For further details about the menu functions available, see the list on page 62.

Placing a call on hold

You can place the current call on hold or make another call while you have a call in progress if your network supports this service.

To place a call on hold, simply press the **Hold** soft key. You can return to the call by pressing the **Resume** soft key.


To make a call while you have a call in progress:

1. Enter the phone number that you wish to dial or look it up in your Phone book.
2. Press the  key to dial the second call. The first call is automatically placed on hold.

Note: You can also place your current caller on hold by pressing the **Hold** soft key and then making your second call in the normal way.

Swaping calls


When you are on a call and have another call on hold, you may switch between the two calls by pressing the **Swap** soft key.

Your current call is placed on hold and the call on hold is activated again. To end either call, press the  key when you're finished.


Muting a call

You can temporarily switch your phone's microphone off, so that the person you're talking with cannot hear you. For example, you want to talk with someone while on a call, but do not want the caller to hear you.

To switch the microphone off temporarily:

1. Press the **Options** soft key.
2. If necessary, press the Down key to highlight **Mute**.
3. Press the **OK** soft key or the  key. The other person can no longer hear you.

To turn the microphone back on:

1. Press the **Options** soft key.
2. If necessary, press the Down key to highlight the **Unmute** option.
3. Press the **OK** soft key or the  key. The other person can hear you again.

Muting/Sending Key Tones

These options allow you to turn the key tones off and on. If the **Mute Keys** option is selected, your phone does not transmit the **DTMF (Dual Tone Multi-Frequency)** tones of the associated with each key on your keypad.

Note: To communicate with answering machines or computerized telephone systems, the **Send keys** option must be selected.


Sending Sequence of DTMF Tones

This option allows you to send the correct type of tones if you need to enter a password or account number when calling an automated system, such as a bank. To send tones:

1. Press the **Options** soft key.
2. Highlight the **Send DTMF** option.
3. Press the **OK** soft key.
4. Enter the required number and press the **OK** soft key.

Searching for a number in Phone book

You can search for a number in your Phone book during a call.


1. Press the **Options** soft key.
2. Press the Down key to highlight the **Phonebook** option.
3. Press the **OK** soft key or the  key. Your Phone book entries are listed.
4. Enter the name that you want to find.

If you enter the first few letters of the name, the Phone book entries are listed starting with the first entry matching your input.

5. To view the highlighted entry, press the **View** soft key.

For further details about the Phone book features, see page 33.

Using the message service (SMS)




If you receive an SMS (Short Message Service) message during a call, the Message icon () flashes on the display. The SMS Service option enables you to read the message or send a new message. For further details about the Message feature, see page 79.

Call waiting

You can answer an incoming call while you have a call in progress, if this service is supported by the network and you have the **Call waiting** menu (**Menu 3.2**) set to **Activate**. See page 74 for more information.

You are notified of an incoming call by a call waiting tone.

To answer the call:



1. Press the  key to answer the incoming call. The first call is automatically put on hold.
2. To switch between the two calls, press the **Swap** soft key.
3. To end a call on hold, press the **Options** soft key or the  key, then select the **End Held Call** option.
4. To end the current call, press the  key.



Making a multi-party call


A multi-party call is a network service that allows up to six people to take part simultaneously in a multi-party or conference call.

For further details about subscribing to this service, contact your service provider.






Setting up a multi-party call

1. Call the first participant in the normal way.
2. Call the second participant in the normal way. The first call is automatically put on hold.
3. To join the first participant to the multi-party call, press the **Options** soft key or the  key, then select **Join**.
4. Press the **OK** soft key or the  key.



5. To add a new person to the multi-party call, call the new person in the normal way and then press the **Options** soft key or the  key.
6. Select the **Conference** option and press the **OK** soft key or the  key.

You can add incoming callers by answering a call and pressing the **Options** soft key or the  key, and selecting **Conference**. Repeat as required.

Private conversation with only one participant






1. Press the **Options** soft key or the  key and choose the **Select One** option.
2. Press the **OK** soft key or the  key. The list of call participants displays.
3. Highlight a person by pressing the Up or Down key, and press the **Select** soft key, the  key, or the  key.
4. Highlight **Private**, then press the **OK** soft key or the  key.

Now you can talk privately to the person you selected, while the other participants continue to talk with each other.


5. To return to the multi-party call, press the **Options** soft key or the  key, then select **Conference**.
6. Press the **OK** soft key or the  key.

All of the multi-party call participants will now hear each other.

Dropping one participant

1. Press the **Options** soft key or the  key, then choose the **Select One** option.
2. Press the **OK** soft key or the  key. The list of call participants displays.
3. Highlight a person by pressing the Up or Down key, and press the **Select** soft key, the  key, or the  key.
4. Press the Down key to highlight **Remove** and press the **OK** soft key or the  key.




The call with that person ends, but you can continue to talk to the other callers.






5. When you want to end the multi-party call, close the phone or press the  key.

Using the menus



You can tailor your phone's range of functions to your needs using menus and sub-menus. The menus and sub-menus on your phone can be accessed by scrolling, using the Navigation keys, or by using shortcuts.

Accessing a menu by scrolling


1. In Idle mode, press the **Menu** soft key.
2. Highlight a main menu using the navigation key, like **Settings (Menu 9)**, then press the **Select** soft key or the  key.
3. Scroll using the Up and Down keys to highlight other menus, and press the **Select** soft key or the  key.
4. If a menu contains an option you want, highlight it using the Up and Down keys, then press the **Select** soft key or the  key. Repeat these steps, if necessary.

To	Press the
scroll through the menu	Up or Down key or use the  and  keys.
confirm the chosen setting	Select soft key or the  key.
return to the previous menu level	 soft key or the Left key.
exit the menu without changing the settings	 key.




Using shortcuts

The menus, sub-menus, and options are numbered and can be accessed quickly by using their shortcut numbers. For the main menus, press the number keys ( to ) corresponding to their location on the screen.

Notes:

- The numbers assigned to each menu are indicated on the list on page 62.
- For menu number 10, use the  key.

For example, to access the **Language** menu.

1. Press the **Menu** soft key.
2. Press the  key for **Settings**.
3. Press the  key for **Phone Settings**.
4. Press the  key for **Language**. The languages available display.

List of menu functions

The following list shows the menu structure and indicates the number assigned to each option and the page where you can find a description of each feature.

1. **Voice messages** (see page 67)

2. **Call records** (see page 69)

- 2.1 Missed calls
- 2.2 Incoming calls
- 2.3 Outgoing calls
- 2.4 Delete all

- 2.5 Call time
 - 2.5.1 Last call
 - 2.5.2 Total outgoing
 - 2.5.3 Total incoming
 - 2.5.4 Reset timers

3. Network services (see page 73)

- 3.1 Call forwarding
 - 3.1.1 Forward always
 - 3.1.2 Busy
 - 3.1.3 No reply
 - 3.1.4 Unreachable
 - 3.1.5 Cancel all
- 3.2 Call waiting
 - 3.2.1 Voice calls
 - 3.2.2 Data calls
 - 3.2.3 Cancel all
- 3.3 Network Selection
 - 3.3.1 Automatic
 - 3.3.2 Manual
- 3.4 Caller ID
 - 3.4.1 Default
 - 3.4.2 Hide number
 - 3.4.3 Send number

4. Instant Message (see page 77)

5. Messages (see page 79)

- 5.1 Text Messages
 - 5.1.1 Create
 - 5.1.2 Inbox
 - 5.1.3 Outbox
 - 5.1.4 Templates

- 5.1.5 Settings
 - 5.1.5.1 T-Mobile
 - 5.1.5.2 Setting 2
 - 5.1.5.3 Setting 3
 - 5.1.5.4 Setting 4
 - 5.1.5.5 Common setting
- 5.1.6 Delete all
- 5.1.7 Memory status
- 5.2 Picture messages
 - 5.2.1 Create
 - 5.2.2 Inbox
 - 5.2.3 Outbox
 - 5.2.4 Draft
 - 5.2.5 Templates
 - 5.2.6 Delete all
 - 5.2.7 Memory status
- 5.3 Browser messages
 - 5.3.1 Inbox
 - 5.3.2 Receive
 - 5.3.3 Delete all
- 5.4 Voice mail
 - 5.4.1 Call voice mail
 - 5.4.2 Voice server number

6. Funbox (see page 99)

- 6.1 t-zones
 - 6.1.1 Home
 - 6.1.2 Favorite
 - 6.1.3 Go to URL
 - 6.1.4 Clear cache
- 6.2 Games
- 6.3 Sounds
- 6.4 Images
- 6.5 Delete all
- 6.6 Memory status

7. Organizer (see page 111)

7.1 Alarm

- 7.1.1 Once alarm
- 7.1.2 Daily alarm
- 7.1.3 Morning call
- 7.1.4 Remove alarm
- 7.1.5 Autopower

7.2 Calendar

7.3 Calculator

7.4 To do list

7.5 Voice memo

- 7.5.1 Record voice
- 7.5.2 Voice list
- 7.5.3 Delete all
- 7.5.4 Memory status

7.6 Currency Exchange

8. Camera (see page 121)

8.1 Take and send

8.2 Record videos

8.3 My photos

8.4 My videos

8.5 My album

8.6 My journal

8.7 Delete all

8.8 Memory status

9. Settings (see page 131)

9.1 Time & date

- 9.1.1 Set time
- 9.1.2 Set date
- 9.1.3 World time
- 9.1.4 Time format
- 9.1.5 Auto update

- 9.2 Phone settings
 - 9.2.1 Language
 - 9.2.2 Greeting message
 - 9.2.3 Short cut
 - 9.2.4 TTY setting
 - 9.2.5 Extra settings
- 9.3 Display settings
 - 9.3.1 Interior display
 - 9.3.2 Exterior display
 - 9.3.3 Menu style
 - 9.3.4 Back light
 - 9.3.5 Service light
 - 9.3.6 Graphic logo
- 9.4 Sound settings
 - 9.4.1 Ring tone
 - 9.4.2 Ring volume
 - 9.4.3 Alert type
 - 9.4.4 Keypad tone
 - 9.4.5 Message tone
 - 9.4.6 Folder tone
 - 9.4.7 Power on/off
 - 9.4.8 Alerts on call
 - 9.4.9 Extra tones
- 9.5 Security
 - 9.5.1 PIN check
 - 9.5.2 Change PIN
 - 9.5.3 Phone lock
 - 9.5.4 Change password
 - 9.5.5 Privacy
 - 9.5.6 FDN Mode*
 - 9.5.7 Change PIN2*
- 9.6 Reset settings

*. Shows only if supported by your SIM card.

Voice messages

Using this menu, you can record a voice memo of up to 30 seconds and then immediately send it by a MMS (Multimedia Message Service) message.


Recording and sending voice messages

1. To record a voice message, select the **Voice messages** menu (**Menu 1**).
2. Press the **Record** soft key to start recording.
3. Record your memo by speaking into the microphone.

Note: When you press **Record**, the display shows both the elapsed time and the remaining time.



4. When you are finished, press the **Stop** soft key. The **Dest. target** screen displays.


Note: If the recording time reaches 30 seconds, your phone displays the **Dest. target** screen automatically.


5. Choose one of the following options and press the **Select** soft key or the  key.
 - **Recent log:** allows you to select a number or an address from the last 10 destinations used for voice messages.
 - **Phone number:** allows you to enter a phone number for your message destination.
 - **E-Mail address:** allows you to enter the e-mail address as your message destination.

- **Phone book:** allows you to retrieve a number from your Phone book for your message destination.

Note: Press the **Options** soft key to access the Voice message options. See page 68 for more information about these options.

6. Enter a number or an e-mail address, or select a destination from the Phone book or Recent log list.
7. When the number of address you want is displayed, press the **Select** soft key or the  key.
8. To add a destination, select **Add destination**, and press the **Select** soft key or the  key. Repeat steps 5 through 7 until up to 10 destinations are added.

To edit a destination, highlight the destination and press the **Select** soft key or the  key. You can change or delete the destination.

9. When you finish entering destinations, highlight **Send message** and press the **Select** soft key or the  key. Your phone sends the message and saves a copy in the **Picture messages Outbox** (Menu5.2.3).

Voice message options

After recording a voice message, press the **Options** soft key to access the following options:

Replay: plays back your voice message.

Re-record: discards the voice message and allows you to record another one.


Send: allows you to send the voice message.

Call records

In this menu, you can view the:


- calls you missed, received, or dialed
- length of your calls.

Notes:


You can access the numbers in the three call records by pressing the  key in Idle mode.

The number of call records the phone can store may vary, depending on your SIM card.


Missed calls

The **Missed calls** menu (**Menu 2.1**) allows you to view the 20 most recent missed calls. The number or name, if available, displays together with the time and date the call was missed. If you select the **Options** soft key or the  key, you can:


- edit the number and save it in your Phone book.
- delete the call from the list.

To dial a number on the Missed call list, highlight the number you want to call and press the  key.


Incoming calls

The **Incoming calls** menu (**Menu 2.2**) allows to view the 20 most recent calls you have received. The number or name, if available, displays together with the time and date the call was received. If you select the **Options** soft key or the  key, you can:


- edit the number and save it in your Phone book.
- delete the call from the list.

To dial a number on the Incoming calls menu, highlight the number you want to call and press the  key.

Outgoing calls


The **Outgoing calls** menu (**Menu 2.3**) allows you to view the last 20 calls you dialed. The number or name displays together with the time and date the call was made. If you select the **Options** soft key or the  key, you can:


- edit the number and save it in your Phone bPhone bookook.
- delete the call from the list.

To dial a number on the Outgoing calls menu, highlight the number you want to call and press the  key.

Delete all

To clear all of your call records, select the **Delete all** menu (**Menu 2.4**). You can also delete your call records one at one time.

To	Press the
select a call record to clear	Up or Down key. To delete all of your call records, select All calls .
place or remove a check mark	 key.
delete the marked records	Delete soft key.

When a confirmation message displays, press the **Yes** soft key or the  key to confirm.

Call time

Your phone has timers for calls you make and receive. To view these timers, select the **Call time** menu (**Menu 2.5**). Highlight the timer you want to display its current setting.


Note: The actual time invoiced for calls by your service provider may vary, depending on network features, such as rounding-off for billing purposes.

The following options are available:

Last call: shows the length of the last call.

Total outgoing: shows the total length of all calls you have made since the timer was last reset.

Total incoming: shows the total length of all calls you have received since the timer was last reset.

Reset timers: allows you to reset your call timers. You must first enter the phone password and then press the **OK** soft key or the  key.

Note: The password is preset to "00000000." To change this password, see page 142.


Network services

These menu functions are network services. Please contact your service provider to check their availability, if you want to subscribe to them.


Call forwarding

Call forwarding (Menu 3.1) enables incoming calls to be rerouted to the number that you specify. For example, you may want to forward your business calls to a colleague while you are on holiday.

To set your call forwarding options:


1. Select a call forwarding option by pressing the Up or Down key and then press the **Select** soft key or the  key.

The following options are available:

- **Forward always:** all calls are forwarded.
 - **Busy:** calls are forwarded when you are already on another call.
 - **No reply:** calls are forwarded when you do not answer the phone.
 - **Unreachable:** calls are forwarded when you are not in an area covered by your service provider or when your phone is switched off.
 - **Cancel all:** all call forwarding options are canceled.
2. Select the type of calls, voice or data, by pressing the Up or Down key, and then press the **Select** soft key or the  key.

3. The current status displays. If the option is set, the number that your calls are forwarded to displays.

To	Press the
activate call forwarding	Activate soft key. Go to step 4.
change the number to be called	Change soft key. Go to step 4.
deactivate call forwarding	Remove soft key.

4. Enter the number to which the calls are to be forwarded and press the **OK** soft key or the  key.


Note: If you are setting options for **No reply**, you will have to set the amount of time the network waits before forwarding a call.

The phone sends your settings to the network and the network's acknowledgement displays.

Call waiting

Call Waiting (Menu 3.2) informs you when someone is trying to call you during another call. You can specify individual call waiting options for voice calls and/or data calls.

To set your call waiting options:

1. Select the type of calls, voice or data, that call waiting option is active for by pressing the Up or Down key and pressing the **Select** soft key or the  key.
2. You can activate or deactivate the call waiting feature using the **Activate** or **deactivate** soft key respectively.



To return to the previous screen, press the **Exit** soft key.

Network selection

This feature (**Menu 3.3**) enables you to automatically or manually select the network used when you're roaming.

Note: You can select a network other than your home network only if a valid roaming agreement exists between the carriers.

To indicate to automatically or manually select the network to be used when roaming:

1. Press the Up or Down key until the appropriate option highlights, then press the **OK** soft key or the  key.
If you select **Automatic**, you are connected to the first available network when roaming.
If you select **Manual**, go to the next step.
2. Press the Up or Down key until the network you want is highlighted, then press the **OK** soft key or the  key.
The phone connects to the network selected.

Caller ID

The **Caller ID** feature (**Menu 3.4**) allows you to prevent your phone number from being displayed when you make a call.

Note: Some networks do not allow you to change this setting.

The following options are available:

Default: the default setting provided by the network is used.


Hide number: your number does not display on the other person's phone.


Send number: your number is sent when you make a call.

IM (Instant message)

Instant Message (IM) is a way of sending short, simple messages that are delivered immediately to online users. Before using this feature, you need to subscribe to a messenger service. For more details, contact your service provider.

Starting your IM

1. Select a messenger you subscribed to using the Left or Right key and press the **Select** soft key or the  key.
2. Enter your screen name to be displayed other phones or PCs.
3. Press the Down key and enter your password to connect to the service.

Note: Use the Down key to choose the Save Password option, and press the  key to place a check in the box. Your password will be remembered when you sign on/connect again.

4. Press the **Sign on/Connect** soft key to connect to your messenger service.

Using the instant messenger options

On the sign on screen of the messenger, press the **Menu** soft key to use the following options:

Saved Conversations: allows you to review a list of saved conversations stored in your phone.

Exit: exits the current screen.

IM (Instant message)


Messages

Using the **Messages** menu, you can use various message features, such as:

- text messages
- picture messages
- browser messages
- voice mail

Text messages

SMS (**Menu 5.1**), which is the Short Message Service, allows you to send and receive short text messages to other GSM mobile phones. In addition, your phone supports EMS, the Enhanced Messaging Service, which enables you to include simple pictures, melodies, and animated images in your messages. To use this feature, you must subscribe to your service provider's message service.

When the Message icon () displays, you have received new text messages. When the memory is full, an error message displays and you cannot receive any new messages. Use the **Delete** option in each message box to delete obsolete messages.

Create text messages

The **Create** menu (**Menu 5.1.1**) allows you to write and send a text message.

Note: When you add media items to a message, the number of characters you can enter decreases.

Creating a simple text message

1. Enter your message.

Note: For more information about entering characters, see page 47.

2. When you finish, press the **Options** soft key or the key. The following options are available:

- **Send only:** allows you to send the message. The message is deleted after sending.
- **Save and send:** allows you to save a copy of the message to the Outbox and then send the message.
- **Save only:** allows you to save the message in the Outbox so that it can be sent later.
- For more information about the **Text formatting**, **Add content**, **Add templates**, **Add from phonebook**, **Add from bookmark**, and **Language** options, see page 81.

3. Select **Send only** or **Save and send**, and press the **Select** soft key or the key.



If you only want to save the message, select **Save only**. After saving the message, the phone returns to the **Text messages** menu.

4. If you select a save option, select a location and press the **OK** soft key or the key.

5. Enter a destination number and press the **OK** soft key or the key. The message is sent.

Note: When the phone fails to send the message, it asks you if you want to retry. Press the **OK** soft key to confirm. Otherwise, press the **Exit** soft key to return to the message screen.

Creating a message using options

1. Create your message.
2. Press the **Options** soft key or the  key.
3. Select one of the following options using the Up and Down keys and pressing the **Select** soft key or the  key.

- **Text formatting:** allows you to format the style of the text.

Note: For the Size attribute, Normal, Large, and Small sizes are available. For the Bold, Italic, Underline, and Strike through attributes, select On or Off. The attributes can be combined.


- **Add content:** allows you to add a sound, melody, picture, or animated image to your message. Select the category of the item you want to add. In each category, you can select from the various factory-set items or choose an item received from other sources, such as the Internet or other phones.
- **Add templates:** allows you to apply one of the preset message templates to the text. Select one of the 10 items stored in the **Templates** menu (**Menu 5.1.4**). For more details, see page 84.
- **Add from phonebook:** allows you to add a Phone book entry to your message. Select one from the list.
- **Add from favorite:** allows you to add a web page's address stored in your Favorite list (**Menu 6.1.2**). Select one from the list.
- **Language:** allows you to change the language to be used in T9 input mode. Select the language to be used.

4. Complete the message and send or save it by following the procedure from step 2 on page 80.

Inbox

The **Inbox (Menu 5.1.2)** is used to store messages that you have received. When you select this menu, the list of messages in your inbox displays with the senders' phone numbers or names, if they are available in your Phone book.

1. Select a message from the list and press the **View** soft key to read the message contents.
2. To scroll through the contents, press the Up or Down key.
3. To scroll to the previous or next message, press the ✕ or # key.

While reading a message, you can choose the following options by pressing the **Options** soft key or the  key:

Text reply: allows you to send a reply to the sender.

Forward: allows you to send/resend a message. For more information about how to send a message, see page 80.

Delete: allows you to delete a message.

Call back: allows you to call the sender.

Save address: allows you to extract the sender's number and URL, e-mail addresses, or phone numbers from the message text, so that you can save them in your phone's memory.


Move to phone: allows you to move the message from the SIM card to the phone's memory. This option is only available for messages stored in the SIM card.


Move to SIM: allows you to move the message from the phone's memory to the SIM card. This option is only available for messages stored in the phone's memory.

Select content: allows you to save media items, such as sounds or images, from the message into your phone's memory. You can then use the items when writing a message. For details, see page 81.

Outbox

The **Outbox (Menu 5.1.3)** is used to store messages that you have sent or will send. When you enter this menu, the list of messages in your outbox displays with the recipients' phone numbers or names, if they are available in your Phone book.

1. Select a message from the list and press the **View** soft key or the  key to read the message contents.
2. To scroll through the contents, press the Up or Down key.
3. To scroll to the previous or next message, press the **✕** or **#** key.

While reading a message, you can choose the following options by pressing the **Options** soft key or the  key:

Delete: allows you to delete a message.

Send: allows you to send/resend a message. For more information about how to send a message, see page 80.


Save address: allows you to extract the destination number and URL, e-mail addresses, or phone numbers from the message text, so that you can save them in your phone's memory.

Move to phone: allows you to move the message from the SIM card to the phone's memory. This option is only available for messages stored in the SIM card.

Move to SIM: allows you to move the message from the phone's memory to the SIM card. This option is only available for messages stored in the phone's memory.

Select content: allows you to save the media items, such as sounds or images, from the message into your phone's memory. You can then use the items when writing a message. For details, see page 81.

Templates

The **Templates** menu (**Menu 5.1.4**) allows you to use one of the preset messages when you create your message. Select a message template you want and press the **Select** soft key or the  key.

The following options are available:

Edit: allows you to write a new message template or edit an existing message template.

Send message: allows you to retrieve the message template. Once you have completed the message, you can send, save and send, or simply save it. For details about how to send a message, see page 79.

Delete: allows you to delete the message template. You are asked to confirm the deletion by pressing the **Yes** soft key.

Settings

In the **Settings** menu (**Menu 5.1.5**), you can set up default message information. A setting group is a collection of settings required to send messages. The number of setting groups available depends on the capacity of your SIM card.

Note: The last setting you accessed is automatically activated for sending subsequent messages.

T-Mobile/Setting 2 to 4: each group has its the following options:

Setting name: allows you to give a name to the setting group currently being defined.

Service center: allows you to store or change the number of your message center, which is required when sending messages. You must obtain this number from your service provider.

Default destination: allows you to store a default destination number. The number automatically displays on the Destination screen when you create a message.

Default type: allows you to set the default message type to **Text**, **Fax**, **Email**, or **Paging**. The network can convert the messages into the selected format.

Default validity: allows you to set the length of time your text messages are stored at the message center while attempts are made to deliver them.

Common setting: the following options are available:

Reply path: allows the recipient of your message to send you a reply message using your message center, if your network supports this service.

Delivery reports: allows you to activate or deactivate the report function. When this function is activated, the network informs you whether or not your message has been delivered.


Bearer selection: allows you to choose either **GSM** or **GPRS**, depending on your network.

Character support: allows you to choose a character type from **GSM-alphabet**, **Uni-code**, or **Automatic**. If you select Uni-Code and your recipient's phone does not support it, your recipient may not be able to read your message.


Delete all

The **Delete all** menu (**Menu 5.1.6**) allows you to delete all of the text messages in each message box. You can also delete all of your messages one at a time.

1. Select the message folders you want to clear.

To	Press the
select a message box to clear	Up or Down key. To delete all of your messages, select All messages .
place or remove a check mark	 key.
delete the marked objects	Delete soft key.

2. Press the **Delete** soft key to delete the boxes you marked.

3. When the “**Delete all?**” confirmation displays, press the Yes soft key or the  key. Your phone displays, “**Are You Sure?**”
4. To delete the messages you selected, press the **Yes** soft key.

Memory status

You can check how many messages are stored in the SIM and phone memory using **Memory status (Menu 5.1.7)**. Press the Up or Down key to view the number of messages you have stored and the total number of messages you can store in the SIM or phone memory.

Picture messages

The **Picture Messages** menu (**Menu 5.2**) allows you to use the Multimedia Message Service (MMS), which is a messaging service similar to SMS. It provides automatic and immediate delivery of personal multimedia messages from phone to phone or from phone to e-mail.



In addition to text messages, multimedia messages can contain images, graphics, voice, and audio clips, so your MMS messages are really multimedia presentations in single files and not just a text files with attachments.

MMS is available only if it is supported by your service provider and only on phones that offer multimedia messaging features.



Create picture messages


The **Create** menu (**Menu 5.2.1**) allows you to create a new multimedia message and send it to one or more destinations.

Creating and sending a multimedia message


1. When **Add subject** is highlighted, press the **Select** soft key or the  key.
2. Enter the subject of your message, and press the **OK** soft key or the  key.

Note: For more information about entering characters, see page 47.

3. When **Add content** is highlighted, press the **Select** soft key or the  key.
 - **Add text:** allows you to add a message text.
 - **Add my photo:** allows you to add a photo. You can take a new photo or select a saved photo. For more details about using the camera, see page 121.
 - **Add my video:** allows you to add a video. You can record a new video or select a saved video.
 - **Add picture:** allows you to add an image. You can add downloaded images if they are in the correct format and your service provider supports them.
 - **Add sound:** allows you to add a sound. You can record a new voice memo or select a saved voice memo.
4. After adding text, photo, video, a picture, or a sound, press the **OK** soft key or the  key.








5. To add more contents, press the **Options** soft key or the  key when **Add here** is highlighted. Repeat step 3 and 4.


Note: You can add text, an image, and a sound only once for each page.


6. To change the text or replace an image or sound with another one, select the item and press the **Options** soft key or the  key.

You can access the following options:

- **Send in message:** allows you to send the message. Use this option when you finish creating your message.
- **Send to My album:** allows you to send the message to your online album provided by your service provider. For more details about My Album, contact your service provider.
- **Send to My journal:** allows you to send the message to your online provided by your service provider. For further details about My Journal, contact your service provider.
- **Add content:** allows you to add text, a photo, video, a picture, or sound with another one.
- **Add subject:** allows you to change the message subject
- **Save:** saves the message in the **Draft (Menu 5.2.4)** or **Templates (Menu 5.2.6)** box for later use.
- **Settings:** allows you to change the message settings. For further details about each setting option, see “Using message setting options” on page 91.

- **Add destination:** allows you to enter destination numbers or addresses. Select a destination type (To, Cc, or Bcc), then press the **Select** soft key or the  key. Follow steps 8 through 10, and after adding the destinations, press the  or  key to return to the options screen.
 - **Preview:** shows the message you created.
7. When you have finished creating the message, choose **Send in message** under **Options**, and press the **Select** soft key or the  key.
 8. Choose the one of the following options and press the **Select** soft key or the  key:
 - Recent log: allows you to select a number or an address from the 10 last destinations you used for picture messages.
 - Phone number: allows you to enter a phone number you want.
 - E-mail address: allows you to enter the e-mail address of the recipient.
 - Phone book: allows you to retrieve a number from your Phone book.
 9. Enter a number or an e-mail address, or select a number from Phone book.
 10. When the correct number or address displays, press the **OK** soft key or the  key.
 11. To add a destination, press the **Select** soft key or the  key when **Add destination** highlights. Repeat from step 8 through 10.

If you want to edit the destinations, select one and press the **Select** soft key or the  key. You can change or delete it.

12. When you have finished entering the destinations, select Send message and press the **Select** soft key or the  key. Your phone sends the message.

Using message setting options

When you select **Settings** from the message options, the following options are available:

Delivery report: when enabled, the network informs you whether or not your message has been delivered.

Read reply: when enabled, your phone sends a request for a reply along with your message to the recipient.


Expiry date: you can select the time your messages are stored in the message center after they are sent.


Delivery time: you can set a delay time before your phone sends your messages.

Priority: you can select the priority level of your messages.




Inbox

Viewing a message when received

When you receive a new multimedia message, your phone's display shows the MMS Message icon () , a text notification, and the sender's number.





1. Press the **Select** soft key or the  key to view a summary about the message, such as the sender's number, the message size and its subject.




To save the message so you can view it later, press the **Exit** soft key.


2. To scroll through the message information, press the Up or Down key.
3. Press the **Options** soft key or the  key to use the following options:
 - **Retrieve**: retrieves the message from the MMS server.
 - **Delete**: deletes the message.
 - **Properties**: shows you detailed information about the message.
4. To read the message, press the **Select** soft key or the  key when **Retrieve** is highlighted. Your phone retrieves the message and displays it.
5. To scroll through the message, press the Up or Down key.
6. When you are finished, press the  key.

Viewing a message in the Inbox




When you access the **Inbox** menu (**Menu 5.2.2**), a list of multimedia messages you received is displayed. The icons below indicate the status of your messages:

- : MMS notifications that have been opened.
- : MMS notifications that have not been opened.
- : You have sent an enquiry to the MMS server requesting the message be sent to your phone.
- : The MMS server is processing your request.

- : The MMS server is unable to send the message to your phone.
- : Messages that have been opened.
- : Messages that have not been opened.

1. Select a message on the list and press the **Select** soft key or the  key.

The message displays and scrolls to additional pages, if necessary.

2. Press the **OK** soft key or the  key to go to the message view screen.
3. Use the Up or Down key to scroll through the message. If the message has more than one page, use the Left and Right keys to scroll through all the pages.
4. To scroll to the previous or next message, press the  or  key.

When viewing messages retrieved from the MMS server, these options are available by pressing the **Options** soft key:

Reply: allows you to reply to the sender by sending a text or multimedia message.

Save content: allows you to save media items, such as pictures, videos, or sounds from the message into your phone's memory.

Delete: deletes the message.

Call back: allows you to call the sender.

Forward: allows you to forward the message to another person.

Save address: allows you to extract the sender's number or e-mail address and URL, other e-mail addresses or phone numbers from the message text.






Save Picture: allows you to save an image from the message into your phone. Images are stored in the Images folder (**Menu 6.4**).


Save Sound: allows you to save a sound from the message into the Sounds folder (**Menu 6.3**).

Properties: shows you information about the message, such as the subject, sender's e-mail address or phone number, message size, recipient's e-mail address or phone number, its priority, and the time and date the message was received.



Outbox


The **Outbox** menu (**Menu 5.2.3**) lists the multimedia messages you have sent or saved. The icons below indicate the status of your messages:

- : Messages currently being sent
- : Messages sent
- : Messages your phone couldn't send
- : Messages to be sent
- : Messages deferred

1. Select a message on the list and press the **Select** soft key or the  key.

The message displays and scrolls to additional pages, if necessary.

2. Press the **OK** soft key to go to the message view screen.
3. Use the Up or Down key to scroll through the message. If the message has more than one page, use the Left and Right keys to scroll through all the pages.
4. To scroll to the previous or next message, press the  or  key.

When viewing messages, you can choose these options by pressing the **Options** soft key or the  key:

Delete: deletes the message.

Save address: allows you to extract the destination numbers or e-mail addresses and URL, e-mail addresses or phone numbers from the message text.

Send: allows you to send/resend the message.

Edit: allows you to change the message contents, sound, photo, or text.



Properties: shows you information about the message, such as the status, subject, sender's e-mail address or phone number, message size, transaction ID, MMS version, and the time and date the message was sent.

Draft

After creating a multimedia message, you can store it in the **Draft** message box (**Menu 5.2.4**) so that you can send it at a later time. For more details about viewing a message, see “Outbox” on page 94.

Templates


The **Templates** menu (**Menu 5.2.5**) allows you to save messages to be used as templates for other message you compose.


1. Scroll through the template list using the Up and Down keys.
2. Highlight the message template you want, and press the **Select** soft key or the  key.
3. Press the **OK** soft key to select from the following options:
 - **Edit**: allows you to send a message using the template. For more details about how to send a message, see page 88.
 - **Delete**: allows you to delete the message template. If selected, press the **Yes** soft key to confirm your choice.
4. Press the  key to return to Idle mode.

Delete all

Delete all (Menu 5.2.6) allows you to delete all of the multimedia messages at one time, or allows you to delete all the messages in each message box one at a time.

To	Press the
select a message box to clear	Up or Down key. To delete all of your messages, select All messages .

To	Press the
place or remove a check mark	 key.
delete the marked messages	Delete soft key.

When the confirmation message displays, press the **Yes** soft key or the  key to confirm the deletion of your messages.

Memory status

Using **Memory Status (Menu 5.2.7)** you can check the memory used and the memory remaining for multimedia messages. The display shows the total space, including the used and free space. You can also view how much space is currently occupied by each message box.

Browser messages

The **Browser messages** menu (**Menu 5.3**) allows you to receive web messages from the server or set your phone not to receive these messages.

The following options are available:

Inbox: allows you to read the messages received from the web server.


Receive: allows you to set whether or not your phone receives web messages.

Delete all: allows you to delete all of the web messages.

Voice mail

The **Voice mail** menu (**Menu 5.4**) is used to specify the way your phone access you voice mailbox, or to edit the number used for accessing voice mail.

The following options are available:

Call voice mail: to use the Voice Mail feature, you must enter the voice server number from your service provider. You can then select this option and press the **OK** soft key or the  key to listen to your messages.

Voice server number: allows you to change the voice mail server number, if necessary.

Note: Voice mail is a network feature. Please contact your service provider for additional details.


Funbox

The Funbox menu contains many enjoyable options.

t-zones



Your phone is equipped with a WAP (Wireless Application Protocol) browser so you can access and navigate the Wireless Web. The **t-zones** menu (**Menu 6.1**) lists the options available for your phone's browser.

Home



The **Home** menu (**Menu 6.1.1**) connects your phone to the network and loads your Wireless Web service provider's homepage. You can also press the  key in Idle mode to launch the browser. The content of the WAP Browser startup homepage depends on your service provider. To scroll through the screen, use the Up and Down keys.

Note: To go to the startup homepage from any other screen in the WAP Browser, use the **Home** option. For more information on the WAP Browser menus, see page 101.

Exiting the WAP browser

To exit the browser, simply press the  key or press and hold the  key.

Navigating the WAP browser

To	Press the
scroll through browser items	Up or Down keys.
select browser items	Options soft key, then choose Select .
select a numbered item	corresponding numeric key.
return to the previous page	 soft key or the  key.
return to the startup homepage	Options soft key, then choose the Home menu. For more details about this option, see page 101.

Entering text in the WAP browser

When you are prompted to enter text, the active text input mode is indicated on the screen.




The following modes are available:

Upper-case character mode (A): allows you to enter upper-case English characters.

Lower-case character mode (a): allows you to enter lower-case English characters.



Note: You can enter symbols in upper or lower-case character mode by pressing the **1** key.

Number mode (1): allows you to enter numbers.

To change the text input mode	Press the  key one or more times.
To enter a space	Press the  key.
To edit text	<ol style="list-style-type: none"> ① Set the cursor to the right of the character(s) to be corrected. ② Press the  key as required. ③ Enter the correct character(s).

Selecting and using menu options

Various menus are available when using the WAP Browser to navigate the Wireless Web. To access a menu option:

1. Press the **Options** soft key. A pop-up menu displays.
2. Highlight a menu by pressing the Up and Down keys.
3. Select an option by pressing the **Select** soft key or the  key.
4. If necessary, select a secondary option using the Up and Down keys, and press the **Select** soft key or the  key to confirm.

Note: The menus may vary, depending on your version of the WAP Browser.

The following options are available:


Favorite: displays a list of your favorite web addresses.

Reload: reloads the current page.

Home: takes you back to the homepage of your Wireless Web service provider.

Goto URL: allows you to manually enter the URL address of a Web page. After entering an address, press the **OK** soft key to visit the site.

Show URL: displays the URL address of the site your are visiting. It also enables you to declare the current site as the startup homepage.

To	Press the
declare the current page as your startup homepage	Option soft key, select the Save To Home option and press the Select soft key.
set a bookmark for the current page	Option soft key, select the Save To Bookmark option and press the Select soft key.
cancel your setting	 soft key.

Clear cache: clears your phones temporary memory used to store recently accessed Web pages.

Security info: displays the current data transmission mode and allows you to choose either Secure or Non-secure modes.

Inbox: allows you to display Web messages you have received from the server.




Show images: allows you to display image files you have downloaded or received from the server.


Favorites

The **Favorite** menu (**Menu 6.1.2**) allows you to store up to 10 Web addresses, called URLs.

Note: Even though default sites have been entered by your provider, all Favorite locations can be changed.

To store a URL address:

1. Select an empty location and press the **Options** soft key or the  key.
2. Enter the URL and press the **Enter** soft key or the  key.
3. Enter a name for the favorite item and press the **Enter** soft key or the  key.

After saving favorite items, you can use the following options by pressing the **Options** soft key or the  key:

Goto URL: takes you to the site.

Edit: allows you to edit the address.

Delete: deletes the address.

Go to URL

This menu (**Menu 6.1.3**) allows you to manually enter the URL address of a web site that you wish to access.

Note: For more information about entering characters, see page 47.

Clear cache

To clear the information stored in cache, which is the phone's temporary memory for most recently accessed Web pages, select the **Clear cache** menu (**Menu 6.1.4**) option. Press the **Yes** soft key to clear the memory, or press **No** to cancel.

Games

The **Games** menu (**Menu 6.2**) allows you to MIDlets (Java applications that run on mobile phones) from various sources using the WAP Browser and then store them in your phone.

When you access the **Games** menu, the list of default games displays. Once you download a game, it is added to the list.


Note: Java services may not be available, depending on your service provider.


Downloading a new game



You can download more games from the web site preset by your service provider using the **New games** option.

Launching a MIDlet



Note: The procedure explained below is for the default games. For downloaded games, the procedure may be different.

1. Highlight the MIDlet you want on the **Games** list and press the **Launch** soft key or the  key.
2. On the startup screen, use your Up and Down keys to select from one of the following options:
 - **Start Game:** starts a new game.
 - **Continue:** allows you to continue the last game you played.
 - **High Score:** shows the high score table. This option may not be available for some games.

- **How to Play:** shows how to play the game and the key functions for the game.
 - **Option:** allows you to switch the game sound on or off.
3. Press the  key to confirm your selection.

While playing a game, to	Press the
adjust the sound volume	Volume keys.
stop the game and return to the startup screen	 key.
exit the game	 key.

Viewing MIDlet information

1. Scroll to the **MIDlet** you want and press the **Info** soft key.
The display shows information about the **MIDlet**, such as the file size, application version, and its vendor.
2. To scroll to other **MIDlet** information, press the Navigation keys.
3. If you want to delete **MIDlet**, press the **Delete** soft key and then press the **Yes** soft key to confirm the deletion.
Note: When you select default games from the list, the **Delete** option is not available.
4. To exit and return to the Games list, press the  soft key or the  key.


Entering text during play


If you need to enter text while using a MIDlet, you can use the following input modes:


Upper-case character mode (A): allows you to enter upper-case English characters.

Lower-case character mode (a): allows you to enter lower-case English characters.

Number mode (1): allows you to enter numbers.

Symbol mode: allows you to enter symbols. After highlighting a symbol by pressing the Navigation keys, press the  key to insert it.


T9 mode (T9): allows you to enter English characters by pressing one key per letter. In this mode, you can change the case by pressing the  key.


To change the text input mode, press the  key until the appropriate indicator appears on the soft key area of the display.

Sounds

The **Sounds** menu (**Menu 6.3**) lists the sounds that have been downloaded from the web server or received in multimedia messages. You can select a sound on this menu to be current ring tone or you can send them to other phones.

Note: When the memory is full, a warning message displays and you cannot store new sounds until you free-up memory by deleting some of your saved sound files.

Scroll to the sound you want to listen and press the Play(bold) soft key or the  key.

Press the **Options** soft key or the  key to use these options:

Rename: allows you to change the name of the sound.

Delete: allows you to delete the sound.


Set as ring tone: sets the sound as your ring tone.


Using the **New MegaTones** option on the sounds list, you can access the web site preset by your service provider and download new sounds.

Images

Use the **Images** menu (**Menu 6.4**) to list the pictures downloaded from the web server or received in messages. You can select an image for your current background or send them it to other phones. If you set a photo as your wallpaper, it is designated as **My Photo** on the list.

Note: When memory is full, a warning message displays and you cannot store new images until you free-up memory by deleting some of your saved image files.

Scroll to the image you want to view and press the View(**bold**) soft key or the  key.

Press the **Options** soft key or the  key to use these options:

Rename: allows you to change the name of the image.


Delete: allows you to delete the image.


Set as wallpaper: sets the image as your wallpaper for the idle screen.

Using the **New wallpapers** option on the images list, you can access the web site preset by your service provider and download new images.

Delete all

This menu allows you to delete all of the downloaded items in the Games, Sounds and Images folders at one time or delete all the items in each of these folders separately.

To	Press the
select a folder to clear	Up or Down keys. To delete all of your items, select All .
place or remove a check mark	 key.
delete the marked items	Delete soft key.

When a confirmation message displays, press the **Yes** soft key or the  key to delete the items you selected.

Memory status

You can check the amount of memory used and the memory remaining for games or sounds and images (**Menu 6.6**).

Games

When you select this menu, the total memory available, the memory used, and free memory left displays. You also see the number of games downloaded.

Sounds & Images

When you select this menu, the total memory available, the memory used, and free memory left displays. You also see the how much memory has been used for the sounds and for the images downloaded.

Organizer

The Organizer feature enables you to:

- set the alarm so that your phone rings at a specific time, for example, to remind you of an appointment
- view the calendar and organize your schedule
- define a list of things to do
- use the phone as a calculator for basic mathematical equations or currency exchange operations
- record voice memos.

Alarm

The alarm feature (**Menu 7.1**) allows you to:

- set an alarm to ring at a specific time
- set the phone to ring an alarm even if it's switched off.

Alarm Types


The following types of alarms are available:

Once alarm: the alarm rings only once and is then deactivated.

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

Morning call: the alarm rings to wake you up in the morning.




To set an alarm:




1. Choose the type of alarm you want to set, and press the **Select** soft key or the  key.
2. Enter the time for the alarm to sound.

Note: Your phone is preset to a 12-hour format. To change this, see page 132.


If you want to use the alarm options, press the **Options** soft key. The following options are available:

- **Remove alarm:** deactivates the current alarm.
- **Alarm sound set:** allows you to select an alarm melody.

3. Press the **OK** soft key or the  key
4. If applicable, select **AM** or **PM** and press the **Select** soft key or the  key.
5. If you're setting a **Morning call** alarm, choose the repeat option, **Monday to friday** or **Monday to saturday**, and press the **Select** soft key or the  key.

To stop the alarm when it rings, open your phone and press the **Exit** soft key, Volume keys,  key,  key, or  key.

Remove alarms

The remove alarm option deactivates all alarm settings. When this option is available, you have alarm times set and have activated one or more types of alarms. To deactivate all alarms, highlight this option and press **Select**, then press the **Yes** soft key or the  key when the confirmation message displays.

Autopower

When Autopower is enabled, the alarm rings at the specified time, even if the phone is switched off. After the alarm sounds, your phone turns off automatically.

If the option is disabled, alarms will not sound when your phone is turned off.

Calendar

With the Calendar feature, you can:

- consult the calendar and check your memos
- write memos to keep track of your schedule
- set an alarm to act as a reminder.

Reviewing your calendar

When you select the **Calendar** menu (**Menu 7.2**), your calendar displays with the current date highlighted. The following options are available when you press the **Options** soft key:

Search all: displays all memos in your calendar, starting with the oldest. Use the Up and Down keys to highlight a specific memo.

Delete all: allows you to delete all of the memos in your calendar. You are asked to confirm your action.

Go to date: allows you to jump to a specific date.


Exit: exits the Calendar feature and returns to Idle mode.



Writing calendar memos

To write or edit a memo for a specific date:

1. Select a date on the calendar, using the Navigation keys.




Note: To skip to the previous or next month, press the Volume keys on the left side of the phone.

2. Press the  key. A memo screen displays to allow you to write your memo.

3. Enter your memo and then press the **OK** soft key or the  key. You are asked if you want to set an alarm.
4. If you want the alarm to ring on the chosen day, press the **Yes** soft key or the  key, then set the time for the alarm and press the **OK** soft key.

Note: Your phone is preset to a 12-hour format. To change the time format, see page 132.

Otherwise, press the **No** soft key. The memo is saved and the display returns to the calendar.

5. If you pressed the **Yes** soft key or the  key, set the time for the alarm and press the **OK** soft key or the  key.
6. If applicable, select **AM** or **PM** and press the **Select** soft key or the  key.


The color of the date on the calendar changes to green to indicate that a memo exists for that date.

Viewing a memo

To view a memo you have previously stored, follow these steps:

1. Display your Calendar and select the day you want to review.

Note: If more than one memo exists, the last memo entered displays.

2. Use the up or down key to scroll to the previous or next memo, then press the **Options** soft key or the  key for these options:

New: allows you to add a new memo for the day.

Edit: allows you to change the memo text.

Alarm: allows you to set the alarm to ring at the specified time to remind you of the memo. If you have already set an alarm for that memo, you can change or delete the alarm.

Delete: deletes the memo.

Copy to: allows you to copy the memo to another date or time.

Move to: allows you to change the time or date of the memo.

Calculator


The **Calculator** function (**Menu 7.3**) allows you to use your phone as a calculator. The calculator provides basic arithmetic functions, such as addition, subtraction, multiplication, and division.

1. Enter the first number using your numeric keys.

Note: To include a decimal point or a bracket, press the left soft key until the symbol you want displays.

2. Enter the operation for your calculation by pressing the Navigation keys, according to the illustration on the display.

3. Enter the second number.

4. To view the result, press the  key.




5. Repeat steps 1 to 4 as many times as required.

To do list

This feature allows you to create task lists for a particular day, and then use helpful options that allow you to set priorities and sort your lists once complete. The **To Do List** menu (**Menu 7.4**) allows you to:

- enter a list of tasks to be done
- assign a priority and a deadline to each task
- sort tasks by priority and status.

Creating the To do list


1. Press the **New** soft key.
2. Enter the task, and press the **OK** soft key or the  key.
3. Select a priority level for the task. Choose high, normal, or low priority using the Up or Down keys, then press the **Select** soft key or the  key.
4. Enter your deadline and press the **OK** soft key or the  key.

Note: If you do not want to set a deadline, press the **Skip** soft key.

Editing the To do list


When you select the **To do list** menu, the tasks you have entered display together with a status box and a priority symbol. To change a task's status, highlight it and press the **✕** key to either mark or unmark the task as complete.

The priority was set when you entered the task, so you will see one of the following indicators:

 for **High**

 for **Normal**

 for **Low**.

To view the options for each task, press the **Options** soft key or the  key and select one of the following:

New: allows you to create a new task.

Mark: allows you to change the status of the current task to either **Done** or **Undo**.

Edit: allows you to change the text, priority, and the deadline for the current task.

Sort: allows you to sort existing tasks by their priority status. Select the sort criteria, **High**, **Low**, **Done**, or **Undo**.

Copy: makes a copy of the current task.

Copy to calendar: allows you to copy the current task as a calendar memo. You can change the text and deadline for the task, and set an alarm.

Delete: deletes the current task.

Delete all: allows you to delete all of your tasks.





Exit: returns you to the idle screen.




Voice memo

You can record a **Voice memo (Menu 7.5)** and send them to others using MMS (Multimedia Message Service).


Record voice

This menu allows you to record a new voice memo. When you select this option, the display shows a 30-second timer.

1. To start recording, press the **Record** soft key or the  key.
2. Record a memo by speaking into the microphone.
3. When you press the **Stop** soft key or the  key, or if the recording time expires, the following options display:
 - **Replay**: plays back your memo.
 - **Re-record**: discards the memo and enables you to record another one.
 - **Save**: allows you to save the memo.
 - **Quit**: cancels your recording and exits the **Record voice** menu.
4. To save the memo, choose **Save** and press the **Select** soft key or the  key.
5. Press the  key to clear the default name, if necessary, and enter a name for the memo.

6. Press the **OK** soft key or the  key. The memo is saved and then the display shows the memo information.
7. Press the **Options** soft key to use the following memo options:
 - **Send**: allows you to send the memo to other people by using the MMS feature. For details about sending a multimedia message, see page 88.
 - **Rename**: allows you to change the memo's name.
 - **Delete**: allows you to delete the memo.
8. To exit, press the  soft key or  key.

Voice list

This menu shows a list of saved voice memos. Scroll to a memo and press the **Options** soft key or the  key. The following options are available:

Play: plays the memo.

Send: allows you to send the memo to other people by using the MMS feature. See page 88 for further details about sending a message.

Rename: allows you to change the memo's name.

Information: displays information about the memo, such as the name, the date when the memo was made, recording duration, and memory size.

Delete: allows you to delete the memo.

Delete all

Using this menu, you can delete all of your voice memos. When the confirmation message displays, press the **Yes** soft key. To cancel the deletion, press the **No** soft key.



Memory status

You can check the amount of memory being used and the memory remaining for voice memos.

The display shows you the total, free, and used memory, including the number of memos you stored and the total number of memos you can store.

Currency exchange

Using the **Currency Exchange** menu (**Menu 7.6**), you can easily determine many currency conversions.

1. Enter the current Exchange Rate for your base currency and press the **OK** soft key or the  key.
You can insert a decimal point by pressing the **#** key.
2. Enter the amount of Local Currency that you want to convert and press the **OK** soft key or the  key.

The Exchange Rate, Local Currency amount, and the Foreign Currency amount display.

3. Press the **Exit** soft key to quit the exchange calculator.

Camera

Using the camera module in your phone, you can take photos of people or events while on the move.

Additionally, you can send photos to other people in a multimedia message or set one as wallpaper or a caller ID image for a Phone book entry.

You can also record videos using your phone as a camcorder.

Note: You can quickly access the **Camera** menu by pressing the Up key in Idle mode.

CAUTION:

- Do not take photos of people without their permission.
- Do not take photos in a place where cameras are not allowed.
- Do not take photos in a place where you may interfere with another person's privacy.

Take and send

The **Take and send** menu (**Menu 8.1**) allows you to take photos. Your camera produces JPEG photos.


You can take photos with the phone open or closed. When the phone is closed, you can use the external display.


Note: When you take a photo in direct sunlight or in bright conditions, shadows may appear on the photo.

Taking a photo with the phone open

1. Accessing the **Take and send** menu turns the camera on or you can press and hold the Up key in Idle mode. The image to be captured appears on the display.
2. Adjust the image by aiming the camera at the subject. When you press the left soft key, you can use the camera options. For details, see page 123.


Note: You can change the image settings switch to other modes by using the keypad. For details, see page 122.

3. Press the  key to take the photo.
4. Press the **Save** soft key. To discard the photo, press the **Cancel** soft key.

To	Press the
use the photo options	Next soft key. See "Using the camera options" on page 123.
return to Capture mode	New Photo soft key.
return to Idle mode	 key.

Using the keypad in Capture mode

You can use the number keys to customize your camera settings when you are in Capture mode. The following table lists the functions for each key.

Key	Function
1	switches to Record Videos mode. See page 126.
2	changes the image size.
4	Switches to Multi shot mode.
5	changes the color tone or apply a special effect to the photo.
6	clears white lines on the image
7	selects a decorated frame.
8	sets the timer.
9	switches to the My Photos menu. See page 125.
Up/Down	zooms in or out.
Left/Right	adjusts the brightness of the image.
	flips the image vertically or horizontally.

Using the camera options

In Capture mode, you can access various options for the camera by pressing the left soft key. The following options are available:


Effects: allows you to change the color tone or apply a special effect to the photo.

Frames: allows you to use a decorated frame. Select a frame from the list using the Navigation keys.

Mode: allows you to take a photo in various modes. Once you change the mode, an indicator appears at the top left of the display.

Normal shot: allows you to take a photo in the normal mode.

Multi shot: allows you to take a series of action stills.

Choose the capture speed, High speed or Normal speed, then select the the number of photos for the camera to take. When you press **Camera** key on the right side of the phone or the  key, the camera takes the photos successively.

Note: After taking photos, press the **Save All** soft key to save all of them or the **Save** soft key to save a selected one.

Night shot: allows you to take a photo of the best quality when it is dark.

Rotation: allows you to rotate the photo. You can see its mirror image, flip the photo vertically, or do both at the same time.



Self Timer: allows you to set a delay time before the camera takes the photo. Select the length of delay you want. When you press the Camera key or the  key, the camera takes the photo after the specified time.



Photo size: sets the image size to either VGA(640x480), QVGA(320x240), QQVGA(160x120), or Mobile(128x120). The selected image size displays on the capture screen.

Taking a photo with the phone closed

Note: If the external display turns off, you first need to turn it on by pressing and holding one of the Volume keys.

1. When the phone is closed, press and hold the Camera () key on the right side of the phone.


The image to be captured appears on the external display as a mirror image.


2. Adjust the image by aiming the camera at the subject.
 - To adjust the brightness of the image, press the  key.
 - To zoom in or out the image, press the  key.
3. Press the Camera key to take the photo.


Your phone automatically saves the photo and returns to Capture mode.

My photos

Use **My photos (Menu 8.3)** to review your photos. When you select this menu, your phone displays the photos in Thumbnail mode, so that you can quickly scroll through them. Use the Navigation keys to scroll through the photos.

To view the photos on the full screen, press the  key.

To go back to Thumbnail mode, press the  soft key.

Press the **Options** soft key or the  key to use the following options:

Send: allows you to send the photo as a multimedia message. For further details, see page 88.

Set as Wallpaper: allows you to set the photo as your wallpaper for the idle screen.

Set as Caller ID: allows you to set the photo as a caller ID image for a Phone book entry.

Protection: allows you to protect the photo from being deleted.


Delete: allows you to delete the photo.

Rename: allows you to change the name of the photo.


Properties: shows the properties of the photos, such as the file name, the time and date it was recorded, photo size, file size, file format, protection status, and photo quality.

Record videos

Use the **Record Videos** menu (**Menu 8.2**) to record a video using your phone as a camcorder.


1. When the camera feature turns on, adjust the image by aiming the camera at the subject.
 - Press the Up or Down key to zoom in or out the image. You can also use the Volume keys.
 - Press the Left or Right key to adjust the image brightness.
 - Press the  key to switch to Capture mode.
2. Press the **Record** soft key to start recording.
3. When you are finished, press the **Stop** soft key to stop recording.

Note: The phone automatically stops when the recording time expires.

4. Press the **Save** soft key or the  key.

Note: To return to **Record** mode, press the **Discard** soft key.


5. After saving your video, you can select one of these options.

To	Press the
use the video options	Next soft key. For more details, see Option under “My Videos” on page 127.
return to record mode	New Video soft key.
return to Idle mode	 key.


My videos

The **My videos** menu (**Menu 8.4**) displays a list of videos you have recorded.

To play a video:

1. Select the video you want to view using the Up or Down key.
2. Press the **Select** soft or the  key to start playing the video.

Note: To replay your video, press the **Resume** soft key.

While playing a video press the **Next** soft key or the  key to access the following **options**:

Send: allows you to send a video file as a part of a multimedia message. For details, see page page 88.

Replay: plays back a video file.

Rename: allows you to change the file name.

Delete: allows you to delete the current video file.

Protection: allows you to protect the video from being deleted.

Properties: shows the properties of the video, such as the file name, the time and date it was recorded, file size, and protection status.

My album

My album (Menu 8.5) provides you with the ability to store your photos using the t-zone browser.

When you take a photo and select the **Save** soft key, your phone prompts you with option to select **Next** or **NewPhoto**. Use the following steps to send a photo to your album:

1. Select **Next** to go to the **Photo Menu**.
2. Select **Send** and then press the **OK** soft key.
3. Select **Send to my album**. The **Picture Messages** displays, and your photo is stored in the **Picture Outbox**, then sent to your album.

My journal

My journal (Menu 8.6) provides you the ability to store your photos using the t-zone browser. When you take a photo and select **Save**, your phone prompts you with option to select **Next** or **NewPhoto**.


Use the following steps to send a photo to your journal:



1. Select **Next** to go to the **Photo Menu**.
2. Select **Send** and then press the **OK** soft key.
3. Select **Send to my journal**. The **Picture Messages** displays, and your photo is stored in the **Picture Outbox**, then sent to your journal.

Delete all

The **Delete all** menu (**Menu 8.7**) allows you to delete your photos or videos.

1. You can delete all of the items at once or delete the items in individual folders.

To	Press the
select a folder to clear	Up or Down key. To delete all of your items, select All .
place or remove a check mark	 key.

2. Press the **Delete** soft key to delete the marked items.
3. When a confirmation message displays, press the **Yes** soft key or the  key.
4. When the phone asks for confirmation again, press the **Yes** soft key or the  key to confirm.

Memory status

To check the amount of memory used and the memory remaining for your camera, select the **Memory Status** menu (**Menu 8.8**).

You can view the Total, Used, and Free memory for your Camera.

Settings

In this menu, you can customize your phone's various settings, such as:

- time and date
- phone settings
- display settings
- sound settings
- security
- reset settings

Time & Date

The **Time & Date** menu (**Menu 9.1**) is used to set the current time and date, view time in other parts of the world, change the format for how time is displayed on your phone, or to set the time to be automatically updated.

The following options are available:

Set time: allows you to enter the current time.

Note: Before setting the time, you must specify your time zone in the **World time** menu (**Menu 9.1.3**).


Set date: allows you to enter the month, day, and year.

World time: allows you to view the time it is another part of world, using the Left and Right keys.

The screen shows:

- the selected city time and the time difference between your city and the city you want to view
- current time and date in the selected city
- city selected as your time zone
- current time and date in your city.

To select your time zone:

1. Select the city corresponding to your time zone by pressing the Left or Right key. The local date and time display.
2. Press the **Set** soft key or the  key.

Time format: allows you to change the time format to 12 hours or 24 hours.

Auto update: allows you to receive time information from your service provider's network.

Off: you set the time and date according to the current time zone using the Set time menu.

On: your phone automatically updates the time and date according to the network's time zone.

Confirm First: the phone asks for a confirmation before the update.

Note: Automatic updates of time and date does not change the time you have set for alarm settings or calendar memos.

Phone settings

Many different features of your phone can be customized to suit your preferences using the **Phone settings** menu (**Menu 9.2**). The following features are available.

Language

You can select a display language. When the language option is set to **Automatic**, the language is automatically selected according to the language of the SIM card used.

Note: Depending on your country, service provider, or the software version of the phone, the **Automatic** option may not display.


Greeting message

This menu allows you to set a greeting to be displayed briefly when the phone is switched on. For details about entering characters, see page 47.


Short cut

The Key Down, Left, and Right keys can be used as shortcut keys. In Idle mode, they allow you to access specific menus directly.

To assign a shortcut to a key:

1. Select the key you want to use as a shortcut key by pressing the Up or Down keys, and press the **Select** soft key or the  key.
2. Select the menu to be assigned to the key by pressing the Up or Down key.

Note: To deactivate a shortcut key, select the **None** option.

3. Press the **Select** soft key or the  key to save the selection.

TTY setting

TTY is a telecommunications device that allows people who are hearing impaired, or who have speech or language disabilities, to communicate by telephone. In this menu, you can enable your phone's TTY feature.



The following options are available:

Disable: does not allow you to communicate with other TTY users.

Enable: allows you to communicate with other TTY users. You can communicate with other TTY users by connecting certain portable TTY terminal models to your phone using an optional adapter.

Extra settings

This menu allows you to turn on the automatic redialing or answering features of your phone.


To turn a feature	Press the
on	Mark soft key or the  key. A check mark displays in front of the option.
off	Unmark soft key or the  key. The check mark no longer displays.


The following options are available:

Auto redial: when checked your phone makes up to ten attempts to redial a phone number after an unsuccessful call.

Note: The interval between call attempts varies.

Active folder: when checked, you can simply open the phone to answer a call. When it is unchecked, you must open the phone and press a key to answer a call, depending on the setting of the **Anykey answer** option below.

Anykey answer: when checked, you can answer an incoming call by pressing any key, except the  key or the **Reject** soft key because these keys are used to reject a call.

When this option is unchecked, you must press the  key or **Accept** soft key to answer a call.

Display settings

The **Display settings** menu (**Menu 9.3**) allows you to change various settings for the display or backlight.

Interior display

This menu allows you to change the background image or the color of the text displayed in Idle mode.



The following options are available:

Wallpaper you can select a background image to be displayed on the idle screen.

To change the background image:

1. Scroll through the list by pressing the Up or Down key.

Note: You have various preset images available. You can also select any images downloaded for the Internet, WAP browser and optional EasyGPRS program or received in messages.

2. Press the **Select** soft key or the  key when the image you want is highlighted.
3. When the image displays, press the **Select** soft key or the  key to display it on the idle screen.

Text color: you can select the color of the text to be displayed on the idle screen.

Exterior display

This menu allows you to change the color of your external display to meet your preference.

Menu style

This menu allows you to select the menu display style. You can choose either **Grid style**, **Bar style**, or **Page style**.

Back light

You can select the length of time that the backlight stays on. The backlight turns on when you press a key or receive a call or message and remains on for the specified length of time.

Service light

This menu allows you to select whether or not the service light is used. It also allows you to select the color used when the Service Light flashes.

Select one from the seven color combinations. When the phone is ready for use, the service light flashes in the chosen color.

If you do not want to use the service light, select **Off**.

Graphic logo

This menu allows you to display your service provider's logo instead of its name.

Off: the service provider's name displays in Idle mode.

On: the service provider's logo displays in Idle mode. If no logo is stored, the service provider's name displays.

Sound settings

The **Sound settings** menu (**Menu 9.4**) allows you to customize various sound settings.

Ring tone

This menu allows you to select a ring melody. You can choose between many different melodies, or if you have downloaded sounds from the Internet, you can access them with this menu.

Ring volume

This menu allows you to adjust the ring volume to one of five levels. Use the Up and Down keys or the Volume keys on the left side of the phone to increase or decrease the volume.

Alert type

This menu allows you to specify how you are to be informed of incoming calls. The following options are available:

Light only: the service light flashes but the phone doesn't ring or vibrate.

Melody: the phone rings using the ring melody selected in the **Ring tone** menu.

Vibration: the phone vibrates but does not ring.

Vibra+Melody: the phone first vibrates three times and then starts ringing.

Keypad tone

This menu allows you to select the tone your phone sounds when you press a key. To turn the sound off for your keypad, select **Off**.

Message tone

This menu allows you to select how your phone informs you that a new message has been received.

Text message

The following options are available for alerting you to new text messages:

Off: the phone does not use an SMS tone.

Light only: the service light flashes.

Vibration: the phone vibrates.

Single beep: the phone beeps once.

SMS tone x: the phone uses one of several SMS tones.

Picture message

The following options are available for alerting you to new multimedia messages:

Off: the phone does not use an MMS tone.

Light only: the service light flashes.

Vibration: the phone vibrates.

Single beep: the phone beeps once.

MMS tone x: the phone uses one of several MMS tones.

Folder tone

This menu allows you to select the tone that sounds when you open or close your phone. To turn off the sound, select **Off**.

Power on/off tone

This menu allows you to select the melody that the phone sounds when it is switched on and off. To turn off the sound, select **Off**.

Alerts on call

This menu allows you to choose if your phone informs you when you receive a new message or when an alarm occurs during a call.



The following options are available:

Off: the phone doesn't actively alert you to incoming messages or alarms. Your phone displays the corresponding notification for an alarm.

On: the phone alerts you with a beep and displays the corresponding notification.

Extra tones

You can customize additional tones for the phone.

To turn a given tone	Press the
on	On soft key or the  key. A check mark displays in front of the option.
off	Off soft key or the  key. The check mark no longer displays.

The following options are available:

Error tone: sets the phone to inform you when you have made a mistake.

Minute minder: sets the phone to beep every minute during an outgoing call to keep you informed of the length of your call.

Connect tone: sets the phone to beep when your call is connected to the system.

Security

The **Security** menu (**Menu 9.5**) allows you to restrict the use of your phone by the others or to restrict the types of calls. Various codes and passwords are used to protect the features of your phone. See also pages 149-151 for more information.

PIN check

When the **PIN Check** feature is enabled, you must enter your PIN each time you switch on the phone, so any

person who does not have your PIN cannot use your phone.

Note: Before disabling the PIN Check feature, you must enter your PIN.

The following options are available:

Disable: the phone connects directly to the network when you switch it on.

Enable: you must enter the PIN each time the phone is switched on.

Change PIN

This feature allows you to change your current PIN, provided that the PIN Check feature is enabled. You must enter the current PIN before you can specify a new one. After entering a new PIN, you are asked to confirm it by entering it again.

Phone lock

When the Phone Lock feature is enabled, the phone is locked and you must enter the 4 to 8-digit phone password each time the phone is switched on.

Note: The password is preset to "00000000" at the factory. To change the phone password, see the **Change Password** menu.

Once the correct password is entered, you can use the phone until you switch it off.

The following options are available:

Enable: you are required to enter the phone password when you turn your phone on.

Disable: you are not asked to enter the phone password when you turn your phone on.

Change password



The Change Password feature allows you to change your current phone password. You must enter the current password before you can specify a new one.


Note: The password is preset to "00000000" at the factory.

Once you have entered a new password, you are asked to confirm it by entering it again.

Privacy

The Privacy menu allows you to lock your media content, such as picture messages, voice messages, photos, videos, voice memos, images, and sounds. Once you have locked the contents, you must enter the phone's password to access the associated menus.

To	Press the
select an item to lock	Up or Down key to highlight the item you want
lock all of the contents	Up or Down key to highlight All and press the  key.
place or remove a check mark	 key.
lock the marked items	OK soft key.

When the phone asks for the password, enter the password and press the **OK** soft key or the  key.

FDN mode

FDN (Fixed Dial Number) mode, if supported by your SIM card, allows you to restrict your outgoing calls to a limited set of phone numbers.

The following options are available:

Disable: you can call any number.

Enable: you can only call phone numbers stored in Phone book. You must enter your PIN2.


Note: Not all SIM cards have a PIN2. If your SIM card does not, this menu does not display.

Change PIN2

The **Change PIN2** feature allows you to change your current PIN2 to a new one. You must enter the current PIN2 before you can specify a new one. Once you have entered a new PIN2, you are asked to confirm it by entering it again.

Note: Not all SIM cards have a PIN2. If your SIM card does not, this menu does not display.

Reset settings

The **Reset settings** menu (**Menu 9.6**) allows you to easily reset your phone to its default settings. To reset your phone, enter your password and press the **OK** soft key or the  key.

Solving problems

If you are experiencing problems with your phone, perform the following simple checks before contacting a service professional. This may save you the time and expense of an unnecessary service call.

When you switch your phone on, the following messages display

Insert SIM Card

- Check that the SIM card is correctly installed.

Phone Locked Enter Password

- The automatic locking function has been enabled. You must enter the phone's password before you can use the phone.

Enter PIN

- You are using your phone for the first time. You must enter the Personal Identification Number supplied with the SIM card.
- The PIN Check feature is enabled. Every time the phone is switched on, the PIN has to be entered. To disable this feature, use the **PIN Check** menu.

Enter PUK


- The PIN code was entered incorrectly three times in succession and the phone is now blocked. Enter the PUK supplied by your service provider.

"No Service," "Network Failure" or "Not Done" displays


- The network connection was lost. You may be in a weak signal area. Move and try again.

- You are trying to access an option for which you have not taken out a subscription with your service provider. Contact the service provider for more details.

You have entered a number but it was not dialed

- Have you pressed the  key?
- Are you accessing the right cellular network?

Your correspondent cannot reach you

- Is your phone switched on (the  key pressed for more than one second)?
- Are you accessing the right cellular network?




Your correspondent cannot hear you speaking

- Have you switched off the microphone?
- Are you holding the phone close enough to your mouth? The microphone is located at the bottom of the phone.

The phone starts beeping and “Warning** Low Battery” flashes on the display**

- The battery is insufficiently charged. Recharge the battery.

The audio quality of the call is poor

- Check the signal strength indicator on the display (); the number of bars indicates the signal strength from strong () to weak ().
- Try moving the phone slightly or moving closer to a window if you are in a building.

No number is dialed when you recall a Phone book entry

- Check that the number has been stored correctly, by using the Phonebook Search feature.
- Re-store the number, if necessary.



If the above guidelines do not help you to solve the problem, take a note of:

- the model and serial numbers of your phone
- your warranty details
- a clear description of the problem

Then contact your local dealer or Samsung after-sales service.

Access codes

There are several access codes used by your phone and its SIM card. These codes help you protect the phone against unauthorized use.

When requested for any of the codes explained below, enter the appropriate code (displayed as asterisks) and press the **OK** soft key or the  key. If you make a mistake, press the  key until the incorrect digit is cleared and then continue entering the correct code.

The access codes, except for the PUK and PUK2 codes can be changed using the **Security** menu (**Menu 9.5**). See page 140 for more details.

Important! Avoid using access codes resembling emergency numbers, such as 911, to prevent accidental dialing of an emergency number.

Phone password

The Phone Lock feature uses the phone password to protect your phone against unauthorized use. The phone password is supplied with the phone and is preset to “00000000” at the factory.

To	See
activate/deactivate the Phone Lock feature	page 141 (Menu 9.5.3).
change the phone password	page 142 (Menu 9.5.4).

PIN

The Personal Identification Number or PIN (4 to 8 digits) protects your SIM card against unauthorized use. It is usually supplied with the SIM card.




If you enter an incorrect PIN three times in succession, the code is disabled and cannot be used until you re-enable it by entering the PUK. See below.

To	See
activate/deactivate the PIN Check feature	page 140 (Menu 9.5.1).
change the PIN	page 141 (Menu 9.5.2).

PUK

The 8-digit PUK (PIN Unblocking Key) is required to change a disabled PIN. The PUK may be supplied with the SIM card. If not, contact your service provider.

To re-enable your PIN:

1. Enter the PUK and press the **OK** soft key or the  key.
2. Enter a PIN of your choice and press the **OK** soft key or the  key.
3. When the **Confirm New PIN** message displays, enter the same code again and press the **OK** soft key or the  key.

When you enter an incorrect PUK ten times in succession, the SIM card becomes invalid. Contact your service provider for a new card.

PIN2

The PIN2 (4 to 8 digits), supplied with some SIM cards, is required to access specific functions, such as setting the maximum cost of a call. These functions are available if supported by your SIM card.

If you enter an incorrect PIN2 three times in succession, the code is disabled and you cannot access the functions until you re-enable it by entering the PUK2.

To change the PIN2, see page 143.

PUK2

The 8-digit PUK2 (PIN Unblocking Key 2), supplied with some SIM cards, is required to change a disabled PIN2. If you lose the code, contact your service provider.

To re-enable your PIN2:

1. Enter the PUK2 and press the **OK** soft key.
2. Enter a new PIN2 of your choice and press the **OK** soft key.
3. When the **Confirm PIN2** message displays, enter the same code again and press the **OK** soft key.

When you enter an incorrect PUK2 ten times in succession, you are not able to access the functions requiring the PIN2. Contact your service provider for a new card.

Important safety precautions

Read these guidelines before using your wireless phone. Failure to comply with them may be dangerous or illegal.

Road safety at all times

Do not use a hand-held phone while driving; park the vehicle first.

Switching off when refuelling

Do not use the phone at a refuelling point (service station) or near fuels or chemicals.

Switching off in an aircraft

Wireless phones can cause interference. Using them in an aircraft is both illegal and dangerous.

Switching off in hospitals

Switch off your phone near medical equipment. Follow any regulations or rules in force.

Interference

All wireless phones may be subject to interference, which could affect their performance.


Special regulations

Meet 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).

Sensible use

Use only in the normal position (held to the ear). Avoid unnecessary contact with the antenna when the phone is switched on.

Emergency call

Ensure the phone is switched on and in service. Key in the emergency number for your current location, then press the  key. You must deactivate any unnecessary features in use before you can make an emergency call. Give all necessary information as accurately as possible. Do not cut off the call until given permission to do so.

Water resistance

Your phone is not water-resistant. Keep it dry.

Accessories and batteries

Use only Samsung-approved accessories and batteries. Use of any unauthorized accessories could damage your phone and may be dangerous.

Qualified service

Only qualified service personnel may repair your phone. For more detailed safety information, see “Health and Safety Information” on page 155.

Health and Safety Information

Exposure to Radio Frequency (RF) Signals

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on the safety standards that were developed by independent scientific organizations through periodic and through evaluation of scientific studies.

The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless phones employs a unit of measurement known as Specific Absorption Rate (SAR). The SAR limit recommended by the FCC is 1.6W/kg.*

SAR tests are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands.

-
- *. In the U.S. and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output of the phone.

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID printed in the label on the phone.

FCC certification information for this model phone is attached separation paper.

For Body Operation

For body worn operation, this model phone has been tested and meets the FCC RF exposure guidelines when used with a Samsung-supplied or approved accessory designated for this product or when used with and accessory that contains no metal and that positions the handset a minimum from the body.

The minimum distance for this model phone is written in the FCC certification information from the body. None compliance with the above conditions may violate FCC RF exposure guidelines.

For more Information concerning exposure to radio frequency signals, see the following websites:

Federal Communications Commission (FCC)

<http://www.fcc.gov>

Cellular Telecommunications Industry Association (CTIA):

<http://www.wow-com.com>

U.S.Food and Drug Administration (FDA)

<http://www.fda.gov/cdrh/consumer>

World Health Organization (WHO)

<http://www.who.int/peh-emf/en>

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 time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging time depends 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.
- 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 lifetime 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 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-circuiting.
- Dispose of used batteries in accordance with local regulations. Always recycle. Do not dispose of batteries in a fire.

Road Safety

Your wireless phone gives you the powerful ability to communicate by voice, almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When driving a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.
2. When available, use a hands-free device. If possible, add an extra layer of convenience and safety to your wireless phone with one of the many hands-free accessories available today.
3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.
4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.

5. Do not take notes or look up phone numbers while driving. Jotting down a To Do list or flipping through your phonebook takes your attention away from your primary responsibility, driving safely.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Make the people with whom you are talking aware that you are driving and suspend conversations that have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Dial the emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!
9. Use your wireless phone to help others in emergencies. If you see a car accident, crime in progress or other serious emergency where lives are in danger, call the emergency number, as you would want others to do for you.
10. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or any other special non-emergency wireless number.

Operating Environment

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

When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position (held to your ear with the antenna pointing over your shoulder).

Electronic Devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone. Consult the manufacturer to discuss alternatives.

Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research and recommendations of Wireless Technology Research. Persons with pacemakers:

- should always keep the phone more than 15 cm (6 inches) from their pacemaker when the phone is switched on.
- should not carry the phone in a breast pocket.
- should use the ear opposite the pacemaker to minimize potential interference.

If you have any reason to suspect that interference is taking place, switch your phone off immediately.

Hearing Aids

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

Other Medical Devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch your phone off in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle.

You should also consult the manufacturer of any equipment that has been added to your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Switch your phone off in any facility where posted notices require you to do so.

Potentially Explosive Environments

Switch your phone off when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch the phone off while at a refueling point (service station). Users 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.


Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

Emergency Calls

This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user-programmed functions, which cannot guarantee connection in all conditions. Therefore, you should never rely solely on any wireless 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 signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.

To make an emergency call:

1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
3. Press the  key.

If certain features are in use (call barring, for example), you may first need to deactivate those features before you can make an emergency call. Consult this document and your local cellular service provider.

When making an emergency call, remember to give all the necessary information as accurately as possible.

Remember that your phone may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

Other Important Safety Information

- Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.
- Switch your phone off before boarding an aircraft. The use of wireless phones in aircraft is illegal and may be dangerous to the aircraft's operation.
- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

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 any warranty obligations and allow you to enjoy this product for many years

- Keep the phone and all its parts and accessories out of the reach of small children's.
- Keep the phone dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.

- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty areas, as its moving parts 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 operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

Acknowledging Special Precautions and FCC and Industry Canada Notice

Cautions

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Compliance Information

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received.

Including interference that may cause undesired operation.

Information to User

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be

determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

Appendix A: Certification Information (SAR)

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES. Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on safety standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR limit set by the FCC is 1.6 W/kg. SAR Tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR values for this model phone as reported to the FCC are Head: 1.37W/Kg, Body-worn: 0.689W/Kg. Body-worn operations are restricted to Samsung-supplied, approved or none Samsung designated accessories that have no metal and must provide at least 1.5cm separation between the device, including its antenna whether extended or retracted, and the user's body. Non-compliance to the above restrictions may violate FCC RF exposure guidelines.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID A3LSGHE315.

In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

Appendix B: Guide to Safe and Responsible Wireless Phone Use

Cellular Telecommunications & Internet Association
“Safety is the most important call you will ever make.”

A Guide to Safe and Responsible Wireless Phone Use

TENS OF MILLIONS OF PEOPLE IN THE U.S. TODAY TAKE ADVANTAGE OF THE UNIQUE COMBINATION OF CONVENIENCE, SAFETY AND VALUE DELIVERED BY THE WIRELESS TELEPHONE. QUITE SIMPLY, THE WIRELESS PHONE GIVES PEOPLE THE POWERFUL ABILITY TO COMMUNICATE BY VOICE-ALMOST ANYWHERE, ANYTIME-WITH THE BOSS, WITH A CLIENT, WITH THE KIDS, WITH EMERGENCY PERSONNEL OR EVEN WITH THE POLICE. EACH YEAR, AMERICANS MAKE BILLIONS OF CALLS FROM THEIR WIRELESS PHONES, AND THE NUMBERS ARE RAPIDLY GROWING.

But an important responsibility accompanies those benefits, one that every wireless phone user must uphold. When driving a car, driving is your first responsibility. A wireless phone can be an invaluable tool, but good judgment must be exercised at all times while driving a motor vehicle-whether on the phone or not.

The basic lessons are ones we all learned as teenagers. Driving requires alertness, caution and courtesy. It requires a heavy dose of basic common sense-keep your head up, keep your eyes on the road, check your mirrors frequently and watch out for other drivers. It requires

obeying all traffic signs and signals and staying within the speed limit.

It means using seat belts and requiring other passengers to do the same.

But with wireless phone use, driving safely means a little more. This brochure is a call to wireless phone users everywhere to make safety their first priority when behind the wheel of a car. Wireless telecommunications is keeping us in touch, simplifying our lives, protecting us in emergencies and providing opportunities to help others in need. When it comes to the use of wireless phones, safety is your most important call.

Wireless Phone “Safety Tips”

Below are safety tips to follow while driving and using a wireless phone which should be easy to remember:

1. Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.
2. When available, use a hands free device. A number of hands free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.

3. Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can grab it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.
4. Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.
5. Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a “to do” list while driving a car, you are not watching where you are going. It’s common sense. Don’t get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip-dial only a few numbers, check the road and your mirrors, then continue.

7. Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix—they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations—with your phone at your side, help is only three numbers away. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!
9. Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a “Good Samaritan” in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special wireless non-emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you still can use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic

signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

Careless, distracted individuals and people driving irresponsibly represent a hazard to everyone on the road. Since 1984, the Cellular Telecommunications Industry Association and the wireless industry have conducted educational outreach to inform wireless phone users of their responsibilities as safe drivers and good citizens. As we approach a new century, more and more of us will take advantage of the benefits of wireless telephones. And, as we take to the roads, we all have a responsibility to drive safely.

“The wireless industry reminds you to use your phone safely when driving.”

Cellular Telecommunications & Internet Association
For more information, please call 1-888-901-SAFE. For updates: <http://www.wow-com.com/consumer/issues/driving/articles.cfm?ID=85>

Appendix C: Consumer Update on Wireless Phones

U.S. Food and Drug Administration

1. What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called cell, mobile, or PCS phones. These types of wireless phones can expose the user to measurable radio frequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC's compliance limits.

2. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can

produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

3. What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radio frequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and

Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

National Institute for Occupational Safety and Health

Environmental Protection Agency

Federal Communications Commission

Occupational Safety and Health Administration

National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the primary subject of the safety questions discussed in this document.

4. What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radio frequency energy (RF).

FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

5. What steps can I take to reduce my exposure to radio frequency energy from my wireless phone?

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

6. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

7. Do hands-free kits for wireless phones reduce risks from exposure to RF emissions?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit.

8. Do wireless phone accessories that claim to shield the head from RF radiation work?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to

believe that accessories that claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone. Studies have shown that these products generally do not work as advertised. Unlike “hand-free” kits, these so-called “shields” may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption. In February 2002, the Federal Trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless phone users from radiation with making false and unsubstantiated claims. According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

9. What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary

standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

10. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

11. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

12. Which other federal agencies have responsibilities related to potential RF health effects?

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations.

FCC RF Safety Program:

<http://www.fcc.gov/oet/rfsafety/>

Environmental Protection Agency (EPA):

<http://www.epa.gov/radiation/>

Occupational Safety and Health Administration's (OSHA):

<http://www.osha-slc.gov/SLTC/radiofrequencyradiation/index.html>

National Institute for Occupational Safety and Health (NIOSH):

<http://www.cdc.gov/niosh/emfpg.html>

World Health Organization (WHO):

<http://www.who.int/peh-emf/>

International Commission on Non-Ionizing Radiation Protection:

<http://www.icnirp.de>

National Radiation Protection Board (UK):

<http://www.nrp.org.uk>

Updated 4/3/2002: US Food and Drug Administration

<http://www.fda.gov/cellphones>

Standard Limited Warranty

What is Covered and For How Long? SAMSUNG TELECOMMUNICATIONS AMERICA, L.P. (“SAMSUNG”) warrants to the original purchaser (“Purchaser”) that SAMSUNG’s Phones and accessories (“Products”) are free from defects in material and workmanship under normal use and service for the period commencing upon the date of purchase and continuing for the following specified period of time after that date:

Phone	1 Year
Batteries	1 Year
Leather Case/ Pouch	90 Days
Holster	90 Days
Other Phone Accessories	1 Year

What is Not Covered? This Limited Warranty is conditioned upon proper use of Product by Purchaser. This Limited Warranty does not cover: (a) defects or damage resulting from accident, misuse, abuse, neglect, unusual physical, electrical or electromechanical stress, or modification of any part of Product, including antenna, or cosmetic damage; (b) equipment that has the serial number removed or made illegible; (c) any plastic surfaces or other externally exposed parts that are scratched or damaged due to normal use; (d) malfunctions resulting from the use of Product in conjunction with accessories, products, or ancillary/peripheral equipment not furnished or approved by SAMSUNG; (e) defects or damage from

improper testing, operation, maintenance, installation, or adjustment; (f) installation, maintenance, and service of Product, or (g) Product used or purchased outside the United States or Canada. This Limited Warranty covers batteries only if battery capacity falls below 80% of rated capacity or the battery leaks, and this Limited Warranty does not cover any battery if (i) the battery has been charged by a battery charger not specified or approved by SAMSUNG for charging the battery, (ii) any of the seals on the battery are broken or show evidence of tampering, or (iii) the battery has been used in equipment other than the SAMSUNG phone for which it is specified.

What are SAMSUNG's Obligations? During the applicable warranty period, SAMSUNG will repair or replace, at SAMSUNG's sole option, without charge to Purchaser, any defective component part of Product. To obtain service under this Limited Warranty, Purchaser must return Product to an authorized phone service facility in an adequate container for shipping, accompanied by Purchaser's sales receipt or comparable substitute proof of sale showing the date of purchase, the serial number of Product and the sellers' name and address. To obtain assistance on where to deliver the Product, call Samsung Customer Care at 1-888-987-4357. Upon receipt, SAMSUNG will promptly repair or replace the defective Product. SAMSUNG may, at SAMSUNG's sole option, use rebuilt, reconditioned, or new parts or components when repairing any Product or replace Product with a rebuilt, reconditioned or new Product. Repaired/replaced leather cases, pouches and holsters will be warranted for a period of ninety (90) days. All other repaired/replaced Product will be warranted for a period equal to the

remainder of the original Limited Warranty on the original Product or for 90 days, whichever is longer. All replaced parts, components, boards and equipment shall become the property of SAMSUNG. If SAMSUNG determines that any Product is not covered by this Limited Warranty, Purchaser must pay all parts, shipping, and labor charges for the repair or return of such Product.

What Are the Limits On SAMSUNG's Liability? EXCEPT AS SET FORTH IN THE EXPRESS WARRANTY CONTAINED HEREIN, PURCHASER TAKES THE PRODUCT "AS IS," AND SAMSUNG MAKES NO WARRANTY OR REPRESENTATION AND THERE ARE NO CONDITIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, OF ANY KIND WHATSOEVER WITH RESPECT TO THE PRODUCT, INCLUDING BUT NOT LIMITED TO:

- THE MERCHANTABILITY OF THE PRODUCT OR ITS FITNESS FOR ANY PARTICULAR PURPOSE OR USE;
- WARRANTIES OF TITLE OR NON-INFRINGEMENT;
- DESIGN, CONDITION, QUALITY, OR PERFORMANCE OF THE PRODUCT;
- THE WORKMANSHIP OF THE PRODUCT OR THE COMPONENTS CONTAINED THEREIN; OR
- COMPLIANCE OF THE PRODUCT WITH THE REQUIREMENTS OF ANY LAW, RULE, SPECIFICATION OR CONTRACT PERTAINING THERETO.

NOTHING CONTAINED IN THE INSTRUCTION MANUAL SHALL BE CONSTRUED TO CREATE AN EXPRESS WARRANTY OF ANY KIND WHATSOEVER WITH RESPECT TO THE PRODUCT. ALL IMPLIED

WARRANTIES AND CONDITIONS THAT MAY ARISE BY OPERATION OF LAW, INCLUDING IF APPLICABLE THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY LIMITED TO THE SAME DURATION OF TIME AS THE EXPRESS WRITTEN WARRANTY STATED HEREIN. SOME STATES/PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. IN ADDITION, SAMSUNG SHALL NOT BE LIABLE FOR ANY DAMAGES OF ANY KIND RESULTING FROM THE PURCHASE, USE, OR MISUSE OF, OR INABILITY TO USE THE PRODUCT OR ARISING DIRECTLY OR INDIRECTLY FROM THE USE OR LOSS OF USE OF THE PRODUCT OR FROM THE BREACH OF THE EXPRESS WARRANTY, INCLUDING INCIDENTAL, SPECIAL, CONSEQUENTIAL OR SIMILAR DAMAGES, OR LOSS OF ANTICIPATED PROFITS OR BENEFITS, OR FOR DAMAGES ARISING FROM ANY TORT (INCLUDING NEGLIGENCE OR GROSS NEGLIGENCE) OR FAULT COMMITTED BY SAMSUNG, ITS AGENTS OR EMPLOYEES, OR FOR ANY BREACH OF CONTRACT OR FOR ANY CLAIM BROUGHT AGAINST PURCHASER BY ANY OTHER PARTY. SOME STATES/PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE/PROVINCE TO

PROVINCE. THIS LIMITED WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THIS PRODUCT AND STATES PURCHASER'S EXCLUSIVE REMEDY. IF ANY PORTION OF THIS LIMITED WARRANTY IS HELD ILLEGAL OR UNENFORCEABLE BY REASON OF ANY LAW, SUCH PARTIAL ILLEGALITY OR UNENFORCEABILITY SHALL NOT AFFECT THE ENFORCEABILITY FOR THE REMAINDER OF THIS LIMITED WARRANTY WHICH PURCHASER ACKNOWLEDGES IS AND WILL ALWAYS BE CONSTRUED TO BE LIMITED BY ITS TERMS OR AS LIMITED AS THE LAW PERMITS.

THE PARTIES UNDERSTAND THAT THE PURCHASER MAY USE THIRD-PARTY SOFTWARE OR EQUIPMENT IN CONJUNCTION WITH THE PRODUCT. SAMSUNG MAKES NO WARRANTIES OR REPRESENTATIONS AND THERE ARE NO CONDITIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, AS TO THE QUALITY, CAPABILITIES, OPERATIONS, PERFORMANCE OR SUITABILITY OF ANY THIRD-PARTY SOFTWARE OR EQUIPMENT, WHETHER SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT IS INCLUDED WITH THE PRODUCT DISTRIBUTED BY SAMSUNG OR OTHERWISE, INCLUDING THE ABILITY TO INTEGRATE ANY SUCH SOFTWARE OR EQUIPMENT WITH THE PRODUCT. THE QUALITY, CAPABILITIES, OPERATIONS, PERFORMANCE AND SUITABILITY OF ANY SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT LIE SOLELY WITH THE PURCHASER AND THE DIRECT VENDOR, OWNER OR

SUPPLIER OF SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT, AS THE CASE MAY BE.

This Limited Warranty allocates risk of Product failure between Purchaser and SAMSUNG, and SAMSUNG's Product pricing reflects this allocation of risk and the limitations of liability contained in this Limited Warranty. The agents, employees, distributors, and dealers of SAMSUNG are not authorized to make modifications to this Limited Warranty, or make additional warranties binding on SAMSUNG. Accordingly, additional statements such as dealer advertising or presentation, whether oral or written, do not constitute warranties by SAMSUNG and should not be relied upon.

Samsung Telecommunications America, L.P.

1301 E. Lookout Drive

Richardson, Texas 75082

Phone: 1-800-SAMSUNG

Phone: 1-888-987-HELP (4357)

©2004 Samsung Telecommunications America. All rights reserved.

No reproduction in whole or in part allowed without prior written approval.

Specifications and availability subject to change without notice. [080802]

Glossary

To help you understand the main technical terms and abbreviations used in this booklet and take full advantage of the features of your mobile phone, here are a few definitions:

Active Folder

Ability to answer a call simply by opening the phone.

Call Forwarding

Ability to reroute calls to another number.

Call Holding

Ability to put one call on standby while answering or making another call; you can then switch between the two calls, as required.

Call Waiting

Informs you that you have an incoming call when you are engaged on another call.

Caller Line Identification Services (Caller ID)

Services allowing subscribers to view or block the telephone numbers of callers.

Dual Band

Ability to operate with both PCS (1900 Mhz) and GSM (900 Mhz) networks. The phone automatically uses the network with the strongest signal and even switches networks during a call within the same operator's network.

EMS (Enhanced Message Service)

An adaptation of the Short Message Service (SMS) that allows you to send and receive ring tones and service provider's logo, as well as combinations of simple media to and from EMS-

compliant handsets. Because EMS is based on SMS, it can use SMS centers the same way that SMS does. EMS works on all Global System for Mobile communications (GSM) networks. EMS senders can use text, melodies, pictures, sounds, and animations to enhance the expressive power of messages that are limited by the display constraints of mobile devices.

GPRS (General Packet Radio Service)

New non-voice value-added service that allows information to be sent and received across a mobile telephone network. GPRS provides continuous connection to the Internet for mobile phone and computer users. It is based on the Global System for Mobile Communication (GSM) circuit-switched cellular phone connections and the Short Message Service (SMS).

GSM (Global System for Mobile Communication)

International standard for cellular communication, guaranteeing compatibility between the various network operators. GSM covers most European countries and many other parts of the world.

Java

Programming language generating applications that can run on all hardware platforms, whether small, medium or large, without modification. It has been promoted for and geared heavily to the Web, both for public Web sites and Intranets. When a Java program runs from a Web page, it is called a *Java applet*. When it is run on a mobile phone or pager, it is called a MIDlet.

MMS (Multimedia Message Service)

A message service for the mobile environment, standardized by the WAP Forum and the 3rd Generation Partnership Program (3GPP). For phone users, MMS is similar to Short Message Service (SMS)-it provides automatic, immediate delivery of user-created content from phone to phone. The message addressing

used is primarily phone numbers, thus the traffic goes from phone to phone. MMS also provides support for e-mail addressing, so that messages can be sent by e-mail. In addition to the text content of SMS, MMS messages can contain still images, voice or audio clips, and also video clips and presentation information.

Multi-party Calling

Ability to establish a conference call involving up to five additional parties.

Phone Password

Security code used to unlock the phone when you have selected the option to lock it automatically each time it switches on.

PIN (Personal Identification Number)

Security code that protects the phone against unauthorized use. The PIN is supplied by the service provider with the SIM card. It may be a four to eight-digit number and can be changed, as required.

Proxy Server

A proxy server resides between a Web client, such as a web browser, and a real Web server and acts as an intermediary between them. When some people browse a web site, their browser is not actually connecting to the web server. The request from their browser goes to a proxy server, and the proxy server makes the request to the web server. A proxy server can improve performance for groups of users because it cache the results of all requests for a certain amount of time. If a user requests a web page that it already loaded for another user, it reloads the page instead of forwarding the request to the Web server, which can be a time-consuming operation.

PUK (PIN Unblocking Key)

Security code used to unlock the phone when an incorrect PIN has been entered three times in succession. The eight-digit number is supplied by the service provider with the SIM card.

Roaming

Use of your phone when you are outside your home area (when traveling for example).



SIM (Subscriber Identification Module)

Card containing a chip with all the information required to operate the phone (network and memory information, as well as the subscriber's personal data). The SIM card fits into a small slot on the back of the phone and is protected by the battery.

SMS (Short Message Service)

Network service sending and receiving messages to and from another subscriber without having to speak to the correspondent. The message created or received can be displayed, received, edited or sent.

Soft Keys

Two keys marked soft keys  and  on the phone, the purpose of which varies according to the function that you are currently using.

Synchronization

It is possible to coordinate the contents of specific files identical on different devices. For example, a user can synchronize the phonebook or contacts, calendar, and to-do list on a mobile device with corresponding PC applications.

Voice Mail

Computerized answering service that automatically answers your calls when you are not available, plays a greeting (optionally in your own voice) and records a message.

Index

A

- Access codes • 149
- Alarm
 - deactivate • 112
 - set • 111
- alarm
 - autopower • 112
- Alert type • 137
- Alphabet mode, text input • 51
- Answering
 - call • 26
 - second call • 56
- Anykey answer • 135
- Auto redial • 134

B

- Background image • 135
- Backlight
 - description • 15
 - time, set • 136
- Battery
 - charging • 19
 - installing • 18
 - low charge indicator • 20
 - precautions • 157
 - removing • 17

C

- Calendar memos
 - copying • 115
 - erasing • 115
 - writing • 113
- Calendar • 113
- Call back, message • 82
- Call records
 - incoming • 69
 - missed • 26, 69
 - outgoing • 70

- Call time • 71
- Caller groups
 - editing • 42
 - searching • 41
- Caller ID • 75
- Calls
 - answering • 26
 - call waiting • 56
 - ending • 24
 - forwarding • 73
 - holding • 53
 - making • 23
 - redialing • 24
 - rejecting • 26
 - waiting • 74
- Camera
 - playing video • 127
 - taking photo • 121
 - viewing photo • 125
- Characters, enter • 47
- Charging battery • 19
- Conference call • 57
- Connect tone • 140
- Currency exchange • 120

D

- Date, set • 131
- Deleting
 - calendar memo • 115
 - multimedia message • 93, 95
 - phonebook entry • 36
 - photo • 126
 - task • 117
 - text message • 82, 83
 - voice memo • 119
- Delivery reports, message • 86, 91
- Dialed calls • 70

Display
 backlight • 15
 icons • 14
 layout • 13
 settings • 135
DTMF tones, send • 55

E

Earpiece volume • 25
Emergency calls • 164
EMS (Enhanced Message Service) • 79
Error tone • 140
Exterior display • 136

F

FDN (Fixed Dial Number) mode • 143
Folder tone • 139
Forwarding
 calls • 73
 multimedia message • 93
Front LCD • 136
Funbox • 99

G

Games
 playing • 104
Graphic logo • 136

H

Health and safety • 155
Holding, call • 53

I

Icons, description • 14
Images
 viewing • 107

Inbox, messages
 multimedia • 91
 text • 82
International calls • 23

J

Java service • 104

K

Key volume • 25
Keypad tones
 selecting • 138
 sending • 55

Keys

 description • 10
 location • 9
 shortcut • 133

L

Language, select • 132
Last number, redial • 24
Locking
 media contents • 142
 phone • 141
Low battery indicator • 20

M

Memory status
 camera • 130
 downloaded items • 108
 multimedia messages • 97
 phonebook • 44
 text messages • 87
 voice memos 120
Menu style • 136
Menus
 accessing • 61
 list • 62
Message tone • 138

Messages

- browser • 97
- multimedia • 87
- reading • 82
- setting • 85
- text • 79
- voice • 98

MIDIlets, launch • 104

Minute minder • 140

Missed calls • 26, 69

MMS (Multimedia Message Service) • 87

Morning call • 111

Multimedia messages

- creating/sending • 88
- deleting • 93, 95
- editing • 95
- reading • 91
- setting options • 91

Multi-party calls, setup • 57

Muting

- all sounds • 29
- key tones • 55
- microphone • 54

N

Names

- searching • 40

Network selection • 75

Network services • 73

Numbers, phone

- searching/dialing • 40
- storing • 33

O

On/Off switch, phone • 21

Organizer • 111

Outbox, messages

- multimedia • 94
- text • 83

P

Password

- phone • 142, 149

Phone

- care and maintenance • 165
- display • 13
- icons • 14
- keys • 10
- layout • 9
- locking • 141
- password • 149
- resetting • 143
- switching on/off • 21
- unpacking • 7

Phonebook

- copying • 36
- editing • 36
- erasing • 36
- options • 35
- searching/dialing • 40
- speed-dialing • 38
- speed-dialling • 37
- storing • 33

Photo

- deleting • 126
- viewing • 125

Pictures, downloaded • 107

PIN

- changing • 141
- description • 150

PIN2

- changing • 143
- description • 151

Power on/off tone • 139

Privacy • 142

Problems, solving • 145

PUK • 150

PUK2 • 151

R

- Radio-frequency • 155
- Received calls • 69
- Received messages
 - multimedia • 91
 - text • 82
- Recording
 - voice memos • 118
- Redialing
 - automatically • 134
 - manually • 24
- Resetting phone • 143
- Ring tone • 137
- Ring type • 137
- Ring volume • 137
- Road safety • 159

S

- Safety
 - information • 155
 - precautions • 153
- Searching, phonebook • 40
- Security, calls • 140
- Sent messages
 - multimedia • 94
 - text • 83
- Service light • 16, 136
- Shortcut, menu • 133
- SIM card
 - installing • 17
- SMS (Short Message Service)
 - Inbox • 82
 - Outbox • 83
- Soft keys • 31
- Sound settings • 137
- Sounds
 - playing • 106
- Speed-dialing • 38
- Switching on/off
 - microphone • 54
 - phone • 21
- Symbol mode, text input • 52

T

- T9 mode, text input • 49
- Tasks, to do list
 - creating • 116
 - editing • 116
- Templates, message
 - multimedia • 96
 - text • 84
- Text input mode • 48
- Text message
 - creating/sending • 79
 - deleting • 82, 83
 - reading • 82
 - setting • 85
- Text, entering • 47
- Time format • 132
- Time, set • 131
- To do list • 116
- Tone
 - connect • 140
 - error • 140
 - folder • 139
 - keypad • 138
 - message • 138
 - minute minder • 140
 - power on/off • 139
 - ring • 137
- Travel adapter • 19
- TTY setting • 133

V

- Vibration • 137
- Video
 - playing • 127
- Voice mail • 98
- Voice memo
 - deleting • 119
 - playing • 119
 - recording • 118
- Voice messages
 - sending • 67
- Voice messages • 67

Voicemail server number • 98

Volume, adjust

keypad tone • 25

ring • 137

Volume, adjusting

earpiece • 25

W

Waiting call • 74

Wallpaper • 135

WAP browser

cache, clear • 103

favorites • 102

World time • 131








Writing messages

multimedia • 88

text • 79


voice note • 67



Quick reference card

Access the menu functions	<ol style="list-style-type: none"> ① Press the Menu soft key. ② Scroll using the Navigation keys through the list of the menus until you reach the menu you want. ③ Press the Select soft key. ④ Scroll using the Up and Down keys through the list of the options until the one you want is selected. ⑤ Press the Select soft key.
Switch on/off	Press and hold the  key.
Make a call	<ol style="list-style-type: none"> ① Enter the number. ② Press the  key.
End a call	Briefly press the  key.
View missed calls immediately after missing them	<ol style="list-style-type: none"> ① Open the phone and press the View soft key. ② Scroll using the Up and Down keys through the missed calls. ③ To return the call, press the  key.
Answer a Call	Open the phone or Press the  key.
Adjust the Volume	Press the  or  key on the left side of the phone.

- Each soft key ( and ) perform the function indicated by the text above it, located on the bottom of the display.



Choose the alert type	<ol style="list-style-type: none"> ① Select the Alert Type menu (Menu 9.4.3). ② Select an option: <ul style="list-style-type: none"> • Light only • Melody • Vibration • Vibra+Melody ③ Press the Select soft key.
Store numbers in Phone book	<ol style="list-style-type: none"> ① Enter the number and press the Save soft key. ② Select a category of the number. ③ Press the Select soft key. ④ Select a memory. ⑤ Press the Select soft key. ⑥ Enter the name. ⑦ Press the OK soft key. ⑧ Press the  key to return to Idle mode.

Search for a number in Phone book	<ol style="list-style-type: none"> ① Press the Ph. Book soft key. ② Select the Search option. ③ Enter the first few letters of the name. ④ To scroll through the names, press the Up or Down keys. ⑤ Press the View soft key. ⑥ To scroll through the numbers, press the Up or Down key. ⑦ Press the  key to dial.
Take a Photo	<ul style="list-style-type: none"> • With the phone open <ol style="list-style-type: none"> ① In Idle mode, press and hold the Up key. ② Press the  key. ③ Press the Save soft key. • With the phone closed <ol style="list-style-type: none"> ① Press and hold the Camera key. ② Press the Camera key.