QUAD BAND Series

SGH-A836

Portable Digital Mobile Phone

User Manual

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

SAMSUNG

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Important Safety Precautions

Please 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 Refueling

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

Switching Off in Aircraft

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

Switching Off in Hospitals

Switch your phone off 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

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 (for example, in a hospital).

Sensible Use

Use the phone only in the normal position (held to the ear).

Emergency Call

Ensure the phone is switched on and in service. Key in the emergency number for your present location, then press [⌢]. You must deactivate any unnecessary features before you can make an emergency call. Give all the necessary information as accurately as possible. Do not end 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 158.

Getting Started

SIM Card

When you subscribe to a cellular network, you receive a plug-in SIM (Subscriber Identity Module) card loaded with your subscription details, such as your PIN, and optional services you have selected.

Activating Your Phone

Activating your phone requires several steps: inserting the SIM card, charging the battery, and turning the phone on.

Removing the Battery

Note: You must unplug the travel adapter before removing the battery from the phone to avoid damage.

If necessary, power-off the phone by pressing [📞] until the power-off image displays.

1. Using a coin or your thumbnail, turn the cover locking thumbscrew counter-clockwise until the slot aligns with the open lock icon.

2. Pull the top edge of the cover away from the back of the phone then slide the cover up until the catches at the bottom are released.

3. Lift the battery out of the phone (bottom edge first).

Installing the SIM Card

Important! The plug-in SIM card and its contacts can be easily damaged by scratches or bending. Use caution when inserting or removing the card and keep all SIM cards out of reach of children.

Position the SIM card with the gold contacts facing toward the phone and the angled corner at the outer right side (as indicated on the phone), then slide the card into the SIM socket.

To remove the SIM card, slide it out of the socket.

Installing the Battery

1. Align the top edge of the battery under the tabs at the top edge of the battery chamber.

2. Press the battery down until it is seated in the battery chamber. Make sure that the battery is properly installed before replacing the cover.

3. With the battery in position in the phone, slide the bottom edge of the cover into the phone, ensuring that the catches at the bottom of the cover fit into their respective slots, then press the cover into the phone.

4. With the cover pressed tight against the phone, use a coin or thumbnail to turn the cover locking thumbscrew clockwise until the slot aligns with the closed lock icon.

Charging the Battery

Your phone is powered by a rechargeable Li-ion (lithium ion) battery. Use the travel adapter to charge the battery, and use only Samsung approved batteries and chargers.

Note: Fully charge the battery before using your phone for the first time. A discharged battery recharges fully in approximately four hours. You can use the phone while the battery is charging, but this causes the phone to charge more slowly.

Note: For connection to an electrical supply not located in North America, you must use an adapter of the proper configuration for the power outlet. Use of the wrong adapter could damage your phone and void your warranty.

1. Using a fingernail, open the cover over the Headset/Adapter Jack at the right side of the phone. Position the connector of the travel adapter

with the triangle on the connector facing the front of your phone and plug the connector into the jack.

Incorrect   Correct

2. Plug the adapter into a standard AC wall outlet. If the phone is off, the display indicates that the phone is charging. If the phone is on, the bars in the battery icon flash to indicate charging.

Note: The battery charging circuit may stop functioning if you are viewing a streaming video and receive a call while charging as the capacity of the charging circuit will be exceeded.

3. When the phone is fully charged, the message "Battery Full" appears on the display or the bars in the battery icon stop flashing.

4. Unplug the adapter from the power outlet and disconnect it from the phone by gently pulling the connector out of the jack.

Note: The phone is also charged when connected to the USB port of a PC using the USB cable.

Low Battery Indication

When the battery is weak and only a few minutes of talk time remain, a warning tone sounds, the "Low Battery" message appears on the main display and the empty battery icon ▭ flashes. The backlight dims to conserve the remaining battery power. When the battery level becomes too

low, the phone automatically turns off. Recharge the battery to restore phone operation.

Switching the Phone On and Off

To switch the phone on:

1. Open the phone.

2. Press and hold [⌐☎] until the phone switches on.

3. If prompted, enter the password and press **<Confirm>** or [◎]. For further details, see the Security option in section "Set Phone" on page 132.

4. If prompted, enter the PIN and press [◎]. For further details, see the Check PIN Code section in "Set Phone" on page 132.

   The phone searches for your network and, after finding it, the Idle screen appears on the display. You can now make and receive calls.

   The default display language setting is **Automatic**, which is dependent on the setting in your SIM. For further details or to change the language, see the Language section in "Set Phone" on page 132.

To switch the phone off, press and hold [⌐☎] until the power-off image is displayed.

Your Phone

Features of Your Phone

Your phone is lightweight, easy-to-use and offers many valuable features. The following list outlines a few of the features included in your phone.

◆ Bluetooth

◆ Camera and camcorder

◆ Multitasking

◆ Instant messaging capability

◆ E-mail

◆ Featured applications provide alarms, calendar, task lists, notes, calculator, converter, timer, stopwatch, and world time.

◆ Multimedia capability (with included Music Player)

◆ Photo caller ID

◆ Speakerphone capability

◆ Web browser

Phone Layout

Closed View of Your Phone

The following illustration shows the external elements of your phone

1. **Camera key:** Opens the Camera menu.

2. **Volume keys/Menu Navigation:** Allow you to adjust the ringer volume in standby mode, mute the ringer when receiving a call and adjust the voice volume during a call. Can also be used to move to the top or bottom of a menu screen.

3. **Camera Lens:** Allows you to take pictures and videos.

4. **Front Display:** Shows the received signal strength, battery level, time and date, and other information.

5. **Power/Accessory Interface connector:** Connects the headset, PC connection cable (see "Transferring Files via USB Cable" on page 40), and travel adapter (see "Charging the Battery" on page 7).

6. **Speaker key:** During a call, this key enables the speakerphone.

7. **External speaker:** Used to listen to audio and music from your phone.

Open View of Your Phone

The following illustration shows the rest of the main elements of your phone:

1. **Main Display:** This screen displays all the information needed to operate your phone.

2. **Menu Access/Confirm/Speakerphone key:** While in Idle mode, it launches the main menu. When navigating through a menu, it accepts the highlighted choice in the menu. During a call, it turns the speakerphone function on and off.

3. **Left soft key:** Performs the function indicated by text on the display directly above the key (see "Soft Keys" on page 18).

4. **MobileMail key:** Opens the MobileMail service.

5. **Send key**: Allows you to place or receive a call. In Idle mode, press the key once to access the Recent Call log. Press and hold the key to redial the most recent call.

6. **Voice Mail key:** Press and hold to automatically dial your voice mail.

7. **Microphone**: Converts your voice into an electrical signal during phone calls and voice recordings.

8. **Special Function keys**: The [✱] key enters the [✱] character for calling features, such as a pause between numbers. In text entry mode, press to change the character input type. The [#] key enters the pound [#] character for calling features. In text entry mode, press to enter a space between characters. Press and hold to activate and deactivate Silent mode.

9. **Alphanumeric keypad:** Use these keys to enter numbers, letters, and some special characters.

10. **Clear key:** Deletes characters from the display when you are in text entry mode. Deletes items when in an application. When in a main menu, press to return to the previous menu.

11. **Power On/Power Off/Menu Exit key:** Ends a call. Press and hold for a few seconds to power your phone on or off. While in the main menu, it returns the phone to standby mode and cancels any input. Rejects an incoming call.

12. **Multitasking key:** Launches the multitasking menu, which allows you to select Call, Messages, Internet, Media Player, or Games and Apps without having to exit from the currently active application. See "Multitasking Menu" on page 19 for additional information.

13. **Right soft key:** Performs the function indicated by text on the display directly above the key (see "Soft Keys" on page 18).

14. **Navigation keys:** In Menu mode, the navigation keys work as directional keys to scroll through menus and lists. In Idle mode, the

navigation keys work as shortcuts, allowing you to access other menus directly.

The shortcuts are:

Press **Up** to access Friends.

Press **Left** to access the Call History menu.

Press **Right** to access the Messages Inbox.

Press **Down** to open the Contacts menu.
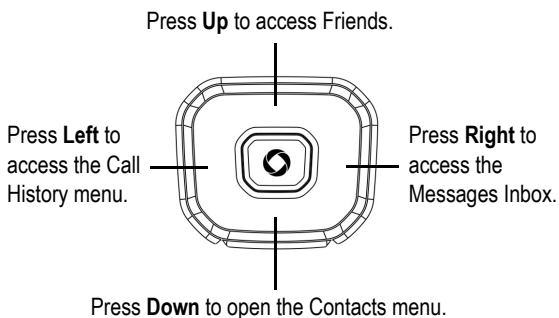
When entering text, the left and right navigation keys move the cursor left and right.

15. **Earpiece**: Used to listen to callers.

Display

Display Layout

The internal display has three main areas:

Icons

Text and graphics area

Soft key function indicators
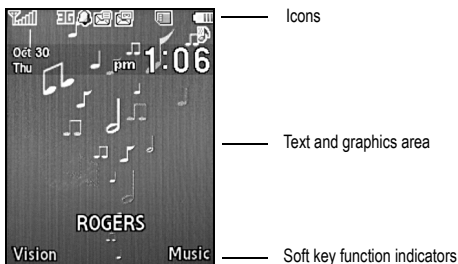
Area	Description
Icons	Displays various icons that indicate phone status.
Text and graphics area	Displays messages, menus, instructions and any information that you enter, such as the number you are dialing.
Soft key function indicators	Shows the current functions assigned to the two soft keys.

Icons

Y.ull	Shows the received signal strength. The more bars, the stronger the signal.
C	Appears when a call is in progress.
X	Appears when there is no network coverage available.
G	Appears when the phone is accessing services on a GPRS (2.5G) network.
3G	Appears when the phone is accessing services on a UMTS (3G) network.
E	Appears when the phone is accessing services on an Edge network.
3G+	Appears when the phone is accessing services on a 3G+ (HSDPA) network.
🔔	Appears when an alarm is set. For details, see "Alarms" on page 76.
➡	Appears when the Call Forwarding feature is active. For details, see "Call Forwarding" on page 137.
✉	Appears when a new text message or notification of a new voice mail has been received.
✉	Appears when a new picture message has been received.
✉@	Appears when a new email message has been received.
✉	Appears when a push message has been received from the WAP server.

▤	Appears when a memory card is inserted.
▣	Appears when Bluetooth wireless technology is active.
✕	Appears when the phone's profile is set to Silent.
🚗	Appears when the phone's profile is set to Driving.
🏃	Appears when the phone's profile is set to Outdoor.
♪	Appears when Call Alert Type is set to Melody or Increasing Melody.
🎵	Appears when Call Alert Type is set to Vibration & Melody or Vibration & Increasing Melody.
♪	Appears when Call Alert Type is set to Vibration then Melody.
❚	Appears when Call Alert Type is set to Vibration.
🔇	Appears when the Call Alert Type set to Mute.
▲	Appears when the phone is connected to a PC.
✿	Appears when the phone is being used as a modem.
🔊	Appears at the bottom of the screen during a call to indicate that the speakerphone can be activated by pressing [⊙].
▮▮▮▮▮	Shows the level of your phone's battery. The more bars, the more power you have remaining.

Selecting Functions and Options

Soft Keys

There are two soft keys, left and right (see "Open View of Your Phone" on page 12). The roles of the soft keys vary depending on the function you are currently using. The icons or labels on the bottom line of the display just above each key indicate their current role.

Some functions of the **Left soft key** are as follows.

♦ From the Idle screen, press to open the Vision screen.

♦ In a menu mode, press to select the highlighted menu item.

Some functions of the **Right soft key** are as follows.

♦ From the Idle screen, press to access the Rogers Music Player (for more information see "Rogers Music Player" on page 95).

♦ When using other features, such as the web browser, it performs a context-sensitive action such as displaying the **Back** option.

Clear Key

The **CLR** key ⌣ is used to erase or clear numbers, text, or symbols from the display. You can also use it to return to a previous menu.

♦ If you enter an incorrect character, press to backspace (and delete) the character.

♦ To erase an entire sentence, press and hold.

♦ To back up one menu level, press briefly.

End Key

The **End** key ⌢ is used to turn your phone on and off, disconnect calls, and return to the standby mode.

♦ Press and hold to turn on your phone.

♦ Briefly press once to disconnect a call.

♦ Press to return to standby mode from a menu.

Send Key

The **Send** key [ ] is used to answer calls, dial calls, and to recall the last number(s) dialed, received, or missed.

♦ Press once to answer a call.

♦ Enter a number and briefly press to make a call.

♦ In standby mode, briefly press to display a list of all recent calls.

♦ Press twice in standby mode to call the most recent number.

♦ Press to pick up a waiting call.

Multitasking Menu

The Multitasking key [ ] opens an application-switch window that allows you to select from a group of commonly used applications without having to exit from a currently active application. The menu icon choices are as follows:

Internet icon: Allows you to launch the Internet browser while using the handset for other tasks.

Call icon: Allows you to make a voice call while using the handset for other tasks. If Music Player is active, it is muted during the call.

Messages icon: Allows you to send a text or picture message while using the handset for other tasks.

Media Player icon: Allows you to launch the Media Player while using the handset for other tasks. If an incoming call is received or you make a call, the Media Player is muted.

Games and Apps icon: Allows you launch games or other applications while using the handset for other tasks.

End all? icon: Allows you to cancel multitasking and return to the idle screen.

When the application-switch window is open, scroll to the application you want to open using the navigation keys, or press the Multitasking key repeatedly. When you have highlighted the application you want, press <Select> or [⊙] to launch that application. Press <**Back**> to return to the previous screen. The **End all?** option returns the phone to Idle mode.

Note: If you access the switch window while performing Internet-based activities, some applications are not functional. For example, if you are browsing the Internet and use the Activity key to initiate a phone call, the call will not connect.

Speakerphone Key

During a call, press the ⊙ key or the <SPEAKER> key (on the right side of the phone) to enable the speakerphone. Use the volume keys (on the left side of the phone) to adjust the volume.

Memory Card

Your phone accepts a microSD (Secure Digital) memory card up to 8GB capacity to expand the available memory space. This allows you to store more audio files, graphics, videos and other files in your phone than the internal memory can hold. You can also use a card to transfer files to and from a PC equipped with a microSD card reader or SD card reader and microSD adapter.

When a memory card is available for use, a blue memory card icon appears in the icon area at the top of the idle screen. While the phone is reading data from the card or writing to the card the icon is orange.

Note: Before using a microSD card, it must be formatted with the FAT32 file system. Check the documentation that came with the memory card and, if necessary, format the card.

Inserting a microSD Card

Note: Ensure your battery is fully charged before using a microSD card. Your data may become damaged or unusable if the battery runs out while reading or writing to the microSD card.

To insert a microSD card into your phone:

1. Remove the rear cover and battery from the phone (see "Removing the Battery" on page 3).

2. Holding the microSD card with the gold contacts facing down and toward the phone, gently insert the card into the microSD slot and slide the card in until it is fully inserted.

Wrong   Right

3. Reinstall the battery and rear cover (see "Installing the Battery" on page 5).

The MicroSD icon 🔲 is displayed on the screen to indicate that a microSD card is inserted in the phone.

Note: If this is the first time that the microSD card is inserted into your phone, the phone automatically creates a series of folders on it for file storage (Ring Tunes, Graphics, Video, Music Voice list).

Removing a microSD Card

Warning! Do not remove a microSD card while files are being accessed or transferred. You could cause data loss or damage the card.

To remove a microSD card from your phone:

1. Remove the rear cover and battery from the phone (see "Removing the Battery" on page 3).

2. Gently slide the card out of the microSD slot and remove it from the phone.

3. Reinstall the battery and rear cover (see "Installing the Battery" on page 5).

Using a microSD Adapter

MicroSD adapters allow use of microSD cards in SD-compatible devices, including PC card readers.

To insert a microSD card into a microSD adapter, hold the card with the label side facing up and the gold contacts toward the adapter. Gently insert the card into the adapter and slide it into the adapter until it is fully inserted.

To remove a microSD card from a microSD adapter, grasp the front edge of the microSD card and gently pull it out of the adapter.

Formatting a microSD Card

If you need to reformat a microSD card:

1. Insert the card into the slot (see above).

2. From the Idle screen, select [◉] → **Media**.

3. Press the right navigation key so that **On card** is displayed and the SD card icon is highlighted.

4. Press <**Options**> and select **Memory Card Settings** → **Format**.

5. If there is any data on the card you are prompted to confirm the loss of data on the memory card. Press <**Yes**> if you agree. The card is formatted.

Call Functions

Making a Call

From the Idle screen, enter the phone number (with area code, if necessary), then press [⌒].

Note: When you activate the **Auto Redial** option, the phone automatically redials up to ten times when the call is not answered or someone is already on the phone. For carriers that automatically divert unanswered calls to voice mail, the Auto redial feature will not provide useful service. See the Auto Redial section in "Voice Call" on page 136 for further details.

Making an International Call

1. Press and hold [□+]. The **+** character appears.
2. Enter the country code, area code and phone number, then press [⌒].

Correcting an Entered Number

1. To correct one or more digits in a dialed number:

   ♦ To clear the last digit displayed, press [c].

   ♦ To clear a different digit in the number, press the left or right navigation key until the cursor is immediately to the right of the digit to be cleared. Press [c].

   ♦ To enter a missing digit, press the left or right navigation key until the cursor is in position and enter the digit.

   ♦ To clear the whole display, press and hold [c].

2. Press the ☏ key to return to the Idle screen.

Ending a Call

When you want to end your call, briefly press [🔲] or close the phone.

Redialing a Recent Number

All incoming, outgoing and missed calls are listed in the Call History menu. If the number or caller is listed in your Contact List, the name associated with the number also displays.

To redial a number:

1. From the Idle Screen, press the left navigation key or select [◎] → **Call History** to access the Call History menu.

2. Scroll to the required option (**All Calls**, **Missed Calls**, **Calls Made**, or **Calls Received)** and press <**Select**> or [◎].

3. Highlight the number you want to call.

4. Press ⌐ to dial the number**.**

Making a Call from the Contacts List

You can store phone numbers that you use regularly in the SIM card or the phone's memory. These entries are collectively grouped in the **Contacts** menu (see "Contacts" on page 118 for more information).

Answering a Call

When a call is received, the phone rings and, if possible, displays the caller's phone number. If the number is associated with an entry in your Contact List, the contact's Display Name is displayed. If your phone service includes "call display" and the caller can be identified, the caller's name is displayed.

To answer a call:

1. Open the phone and press [⌐] or <**Accept**> to answer the incoming call.

   If the **Any Key** option in the **Call Answer** menu is activated, you can press any key to answer a call except [☎] and <**Reject**> (see the Call Answer section in "General" on page 135 for more information).

   If the **Open Flip** option in the **Call Answer** menu is activated, you can answer the call simply by opening the phone (see the Call Answer section in "General" on page 135 for more information).

2. End the call by pressing [☎].

Note: You can answer a call while using the Contact list or menu features. After ending the call, the phone returns to the function screen you were using.

Missed Calls

Whenever you miss a call, the name and number of the caller are displayed in a pop-up message on the Idle screen. Whenever you miss two or more calls, the number of calls missed are displayed in a pop-up message on the Idle screen.

To view a list of missed calls, press <**View**>. To see details of a caller, press the Up or Down navigation key to scroll to the call. To call a number, scroll to the number and press [⌐].

To access the Missed Calls list from the Idle screen, select **Call History** → **Missed Calls**.

Viewing the Details of Missed Calls

To view the details of a missed call:

1. Open the Missed Calls list (see above).

Scroll to the call you want to view and press [◉] or press <**Options**> and select **Details**.

Calling Back a Missed Call

To call back a missed call number:

1. Open the Missed Calls list (see above).

2. Scroll to the call you want to return, press <**Options**> and select **Call Back**.

Sending a Message to a Missed Call

To send a message to a missed call number:

1. Open the Missed Calls list (see above).

2. Scroll to the call you want to return, press <**Options**> and select **Send Message**.

For more information on sending messages, see "Messages" on page 98.

Deleting Missed Calls

To delete one or more records of missed calls:

1. Open the Missed Calls list (see above).

2. If you want to delete one call, highlight the number you wish to delete and press <**Options**>. If you want to delete all calls, press <**Options**>.

3. Select <**Delete**>.

4. To delete one call, select **Selected**. To delete all calls, select **All**. Press <**Yes**> to confirm the deletion.

Silent Profile

The Silent sound profile prevents the phone from making any sounds. There are two choices for silent call alerts, Mute (the phone gives only visual indication when a call is received) or Vibration (the phone vibrates and provides visual indication). For instructions on selecting sound profiles, see "Set Sound Profile" on page 126.

Your phone provides a quick method for entering the Silent profile:

♦ From the Idle screen, press and hold [＃ş] until the "Silent Profile On" message and the Silent mode icon ✖ and either the Mute icon ◀ or the Vibration icon ▯ displays.

♦ To return to the previous sound profile, press and hold [＃ş] until a screen message indicates the return to the previous sound profile and the Silent mode icon ✖ disappears.

Options During a Call

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

In Call Options

During a call, press <**Options**> to access the following:

♦ **Whisper Mode On/Off:** Increases the microphone sensitivity so that you do not have to speak loudly to be heard by the other party.

♦ **Hold:** Places the call on hold.

♦ **Mute/Send Keypad Tone:** Silences or enables key tones.

♦ **New Call:** Places the current call on hold and allows you to enter and dial another number.

♦ **Send DTMF**: Sends a sequence of DTMF tones to the caller (see "Sending a Sequence of DTMF Tones" on page 32.

♦ **Contacts:** Accesses your Contacts list.

♦ **Save to Contacts:** Lets you save the phone number to your contact list.

♦ **View Contact Details:** Displays the contact information of the other person on the call (only appears when contact information is available).

♦ **Send Message:** Accesses the Create Message screen.

♦ **Notes:** Allows you to save a text note (for more information see "Notes" on page 82).

♦ **End Call:** Allows you to end the current call.

Put a Call on Hold

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

To put a call on hold:

1. While on a call, press <**Options**> and select **Hold**. The call is placed on hold.

2. You can reactivate the call by pressing <**Resume**>.

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

1. While on a call, press <**Options**> and select **New Call**.

2. Enter the new number and press [🔽] to dial the second call.

   To switch between the two calls, changing the one on hold to active and placing the other on hold, press <**Options**> and select **Swap**.

3. To finish, end each call by pressing [📵].

Switching the Microphone Off (Mute)

You can temporarily switch your phone's microphone off so that the other person on the call cannot hear you. For example, you might wish to speak to another person in the room without the person on the call hearing you.

To switch the microphone off, press <**Mute**>. The soft key indicator changes to Unmute and the person on the call can no longer hear you.

♦ To switch the microphone back on, press <**Unmute**>. The other person on the call can hear you again.

Using the Speakerphone

The speakerphone lets people near the phone participate in a call by broadcasting the voice or voices of those on the other end of the line and using the microphone to capture the voices of everyone near the phone.

To use the speakerphone function during a call, press [⊙]. Use the volume keys to adjust the volume.

To turn off the speakerphone function during a call, press [⊙].

Muting or Sending Key Tones

This option allow you to turn the key tones off or on. If you press <**Options**> and select **Mute Keypad Tone**, your phone does not transmit the DTMF (Dual Tone Multi-Frequency) tones produced by the numeric keys during a call. This allows you to use the keypad without hearing annoying key tones.

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

Making a Multi-party Call

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

Note: Please contact your service provider to determine if multi-party calling is supported.

To set up the multi-party call:

1. Call the first participant in the normal manner (see "Making a Call" on page 24).

2. To call another participant, press <**Options**> and select **New Call**. Enter the new number and press [⌐] to dial the second call.

3. To add this person to the call, press <**Options**> and select **Join**. All call participants are listed on the screen.

4. To continue adding people to the call, repeat steps 2 and 3 above.

    You can also add incoming callers by answering the call, pressing <**Options**>, and selecting **Join**.

To have a private conversation with one participant:

1. Press <**Options**> and select **Split**.

2. Select the number of the person you wish to talk with.

3. You can now talk privately to that person. The other participants can still converse with each other.

4. To return to the multi-party call, press <**Options**> and select **Join**.

5. All the call participants can now hear each other.

To drop a participant:

1. Press <**Options**> and select **End**.

2. Highlight **Select Participant** and press <**Select**> or [⊙].

3. Highlight a participant you wish to drop and press [⊙] to place a check mark beside that participant. Repeat this step as necessary.

4. When you are finished, press <**Drop**>.

The calls to the selected participant(s) are ended but you can continue to talk to the others.

To end the multi-party call:

When you want to end a multi-party call, press [☎].

Sending a Sequence of DTMF Tones

You can choose to send DTMF tones after entering the entire number you need to send rather than as you press the numeric keys. This option is

helpful for entering a password or an account number when you call an automated system, like a banking service.

To send DTMF tones during a call:

1. Press <**Options**> and select **Send DTMF**.

2. Enter the numbers you want to send and press <**Send**> or [⊙].

Searching for a Number in Contacts

You can search for a number in the Contacts list during a call.

1. Press <**Options**> and select **Contacts**.

2. Begin entering the letters of the name. As you type, the first entry that matches the entered letters is highlighted. To select a different contact, scroll up or down until the entry you want is highlighted.

3. Press [⊙] to open the contact information.

For further information on using the Contact list feature, see "Contacts" on page 118.

Call Waiting

Call Waiting lets you answer an incoming call while you have a call in progress, if your network supports this service and you have set the Call Waiting-Voice Call option to Activate. For information on changing Call Waiting settings see "Call Waiting" on page 139**.**

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

1. Press [⤺] or <**Accept**> to answer the incoming call. The first call is automatically put on hold.

2. To switch between the two calls, press <**Options**> and select **Swap**.

3. To end the current call, press [☎].

    To end the call on hold, press <**Options**> and select **End** → **Held Call.**

Access Codes

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

When requested to enter any of the codes, enter the code and press <**Confirm**>.

Except for the PUK and PUK2 codes, access codes can be changed using the Security menu (see the Security section in "Set Phone" on page 132).

Important! Avoid using access codes that are similar to emergency numbers, such as 911, so that you do not accidentally dial an emergency number.

Phone Password

The Phone Lock feature allows you to set a password to protect your phone against unauthorized use. For instructions, see the Security section in "Set Phone" on page 132.

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). For instructions on activating or deactivating the PIN Check feature and changing the PIN, see the Security section in "Set Phone" on page 132.

PUK

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

To re-enable your PIN:

1. Enter the PUK and press <**Confirm**>.

2. Enter a new PIN of your choice and press <**Confirm**>.

3. When the **Confirm PIN Code** message displays, enter the same code again and press <**Confirm**>.

If 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 supported by those cards.

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 the Security section in "Set Phone" on page 132.

PUK2

An 8-digit PUK2 (PIN Unblocking Key 2) is required to change a disabled PIN2. If a PUK was not supplied with your SIM card, contact your service provider.

To re-enable your PIN2:

1. Enter the PUK2 and press <**Confirm**>.

2. Enter a new PIN2 of your choice and press <**Confirm**>.

3. When the **Confirm PIN2 Code** message displays, enter the same code again and press <**Confirm**>.

If you enter an incorrect PUK2 ten times in succession, the SIM card becomes invalid. Contact your service provider for a new card.

Entering Text

This section explains the various text input modes for entering characters into your phone. It also describes how to use the T9 predictive text entry system to reduce the number of key strokes required for entering text.

Your phone has the following text input modes:

♦ **Alphabet modes (ABC, abc, Abc)**: Let you enter letters by pressing a letter key multiple times until the desired character displays. You can select all upper case, all lower case, or initial capital format.

♦ **T9 Input modes (T9EAb, T9EAB, T9Eab)**: Let you enter words with one keystroke per letter by comparing keystrokes to a linguistic dictionary to determine the word.

♦ **Number mode**: Allows you to enter series of numbers.

♦ **Symbol mode**: Allows you to enter symbols and special characters.

Changing the Text Input Mode

When you are in a field that allows characters to be entered, you will see the text input mode indicator near the top right corner of the display.

To change the text input mode:

♦ Press and hold [*] to switch between T9 and Alphabet modes.

♦ Press [*] to cycle between Initial Capital Abc , Upper Case ABC , Lower Case abc and Numeric entry 123 modes.

♦ To access the Symbol SYM mode, press and hold [#].

♦ You can also access any of the input modes by pressing <**Options**> and selecting **Input Method**. Highlight the desired input method and case, then press <**Select**> or [⊙].

Using T9 Mode

T9 is a predictive text input mode based on a built-in dictionary that allows you to key in characters using a single keystroke. Your phone selects the most likely word based on your keystroke combinations.

To enter a word in T9 mode:

1. Start entering a word by pressing the numeric keys. Press each key only once for each letter.

   Example: To enter "HELLO", press

   [4 GHI], [3 DEF], [5 JKL], [5 JKL] and [6 MNO].
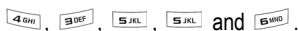
   As you type, the characters on the screen change as the built-in dictionary matches your keystrokes to commonly used words. Enter all letters in the word without editing or deleting the keystrokes.

2. If the word displayed is not correct, press [0 +] to display an alternative choice. Continue until the correct word displays or no choices remain, at which time you can add the word to the phone's dictionary (see below).

3. Press [# S] to insert a space then start entering the next word.

To add a new word to the T9 dictionary:

1. When you press [0 +] on the last alternative word available, the left soft key changes to **Spell**. Press <**Spell**> and enter the word you want.

   ◆ To shift case, use [* *] to toggle between Initial Capital, Upper Case, Lower Case and Numeric modes.

   ◆ You can move the cursor using the Left and Right navigation keys.

   ◆ To delete letters, press [C]. Press and hold [C] to clear the display.

2. Press <**Add**>. The word is added to the T9 dictionary and becomes the first word for the associated key presses.

Using Alphabet Mode

Use the 0 to 9 keys to enter your text.

1. Press the keys labeled with the letter you want:

    ♦ Once to enter the first letter

    ♦ Twice in quick succession for the second letter

    ♦ Three times in quick succession for the third letter

    ♦ Four times in quick succession for the fourth letter

2. Select additional letters in the same way.

Note: The cursor moves to the right when you press a different key. To enter the same letter twice or a different letter on the same key, wait for the cursor to move to the right.

The following table shows the characters available for each key:

Key	Characters in order displayed when key is pressed repeatedly	
	Uppercase	Lowercase
1 ∞	. , - ? ! @ : ( ) / 1	. , - ? ! @ : ( ) / 1
2 ABC	A B C Ä Å Æ Ç 2	a b c ä à å æ ç 2
3 DEF	D E F É Δ Φ 3	d e f è é Φ 3
4 GHI	G H I Γ 4	g h i ì Γ 4
5 JKL	J K L Λ 5	j k l Λ 5
6 MNO	M N O Ñ Ö Ø Ω 6	m n o ñ ö ò ø Ω 6
7 PQRS	P Q R S Π Σ Ψ 7	p q r s ß Σ Ψ 7
8 TUV	T U V Ü Θ 8	t u v ü ù 8
9 WXYZ	W X Y Z Ξ 9	w x y z Ξ 9
0 +	+ = < > €£$%&¥¤0	+ = < > €£$%&¥¤0
# §	space	space

♦ To shift the case, press [＊＋].

♦ Move the cursor using the left and right navigation keys.

♦ To delete letters, press [c]. Press and hold [c] to clear the display.

Using Number Mode

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

Using Symbol Mode

Symbol mode enables you to insert symbols and punctuation marks into text. Press and hold [#ˢ] to access Symbol mode.

To	Press the
select a symbol group	navigation keys
select a symbol	corresponding number key adjacent to the symbol
clear an entry	[c]
insert the symbol(s) into your message	<**OK**>
cancel your input and return to the previous mode	<**Cancel**>

Transferring Files

You can transfer music, pictures, video clips and other files between your phone and a personal computer in several ways, including:

◆ using a USB cable

◆ using Bluetooth

◆ using a microSD card reader

Transferring Files via USB Cable

Between PC and Phone or Card Using PC Studio 3

File transfer between your phone and a PC or card using Samsung's PC Studio 3 software (included with your phone) requires a PC with available USB port, installation of PC Studio 3 on the PC, and a USB cable.

Note: For more information on Samsung PC Studio 3, consult the online help provided with the PC Studio 3 software.

Note: Your phone's USB Setting must be set to PC Studio or Ask on Connection to use PC Studio 3 (see "Select USB Mode" on page 146).

1. Start the PC Studio 3 software.

Note: The first time you start the PC Studio 3 software, a connection wizard appears that leads you through the process of setting up your phone connection. Do not plug the USB cable into a USB port on your PC until instructed to do so by the software.

2. Connect the USB cable to a USB port on your PC and to your phone.

   ◆ **USB Mode set to Ask on Connection:** the Ask on Connection window appears on the phone. Highlight **PC Studio** and press the **Select** soft key or the ⊙ key. The status message at the bottom

right of the PC Studio screen changes from **Not Connected** to **SGH-A836 Connected**.

♦ **USB Mode set to PC Studio:** The status message at the bottom right of the PC Studio screen changes from **Not Connected** to **SGH-A836 Connected**.

3. In the PC Studio program, select **Phone Explorer**. The Phone Explorer window appears. It displays the folders on your phone at the top left of the screen, folders on your PC at the bottom left and contents of the highlighted folder on the right side.

4. Using Phone Explorer, navigate to the folder(s) containing the files you wish to transfer. You can drag and drop files between computer and phone or microSD card folders.

Between PC and Card using Microsoft Windows

You can also transfer files between a microSD card in your phone and a PC using a USB cable and Microsoft Windows using the following procedure.

Note: Your phone's USB Setting must be set to Mass Storage or Ask on Connection (see "Select USB Mode" on page 146).

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1. Connect the USB cable to a USB port on your PC and to your phone.

♦ **USB Mode set to Ask on Connection:** the Ask on Connection window appears on the phone. Highlight **Mass Storage** and press the **Select** soft key or the ⊙ key. "Connected" appears on the phone display.

♦ **USB Mode set to Mass Storage:** "Connected" appears on the phone display.

2. Open My Computer on the PC. The list of contents will include a "Removable Disk" with the name of the microSD card in your phone.

3. Double click the disk icon to view the contents of the card. You can drag and drop files between the computer and the folders on the card.

Transferring Files via Bluetooth

File transfer between your phone and a PC using Bluetooth requires a PC with Bluetooth wireless capability and installation of Samsung's PC Studio 3 software (included with your phone).

Note: For more information on Samsung PC Studio 3, consult the online help provided with the PC Studio 3 software.

To transfer files using Bluetooth:

1. Start the PC Studio 3 software.

2. Select **Phone Explorer**. The Phone Explorer window appears.

3. On the File menu, select **Connection** to open the Connection Manager window.

4. Select **Bluetooth**. If you do not have a Bluetooth connection established, follow the on-screen instructions to create your connection.

Note: To receive data via Bluetooth, your phone's Bluetooth feature must be active. For more information on activating Bluetooth on your phone, see "Activation" on page 140.

5. Phone Explorer displays the folders on your phone at the top left of the screen, folders on your PC at the bottom left and contents of the highlighted folder on the right side. Navigate to the folder(s) containing the files you wish to transfer. You can drag and drop files between the computer and phone or microSD card folders.

Transferring Files via microSD Card

You can directly transfer music and other files between your PC and a microSD memory card.

1. Remove the microSD card from your phone (see "Removing a microSD Card" on page 22) and insert it into your PC's microSD card reader or, if you are using an SD card reader, first insert the microSD card into a microSD adapter (see "Using a microSD Adapter" on page 22) then insert the adapter into the SD card reader.

2. Open My Computer on the PC. The list of contents will include a "Removable Disk" with the name of the microSD card.

3. Double click the disk icon to view the contents of the card. You can drag and drop files between the computer and the folders on the card.

Note: The first time that a microSD card is inserted into your phone, your phone automatically creates a series of folders on it for file storage (Voice List, Video, Ring Tunes, Music, Graphics).

Transferring Files Using MTP

You can also transfer multimedia files between your phone and a PC using Microsoft MTP (Media Transfer Protocol), which transfers media files and associated metadata to/from devices with optional additional support for remote control of the device, reading and setting of device parameters such as special DRM-related device parameters for restricted content.

Note: Your phone's USB Setting must be set to Media Player or Ask on Connection to use this procedure (see "Select USB Mode" on page 146).

1. Connect the USB cable to a USB port on your PC and to your phone.

   ♦ **USB Mode set to Ask on Connection:** the Ask on Connection window appears on the phone. Highlight **Media Player** and press the

Select soft key or the ⓞ key. "Connected" appears on the phone display.

◆ **USB Mode set to Media Player:** "Connected" appears on the phone display.

2. Open **My Computer** on the PC. The list of contents will include a "Portable Media Device" with the name of your phone (SGH-A836-Phone) and, if a microSD card is inserted in your phone, another "Portable Media Device" for the card (SGH-A836-Card).

3. Double click the Phone or Card icon to view Data and Media folders on the device. You can drag and drop files between the computer and these folders.

Transferring Music Using a Media Application

This procedure allows you to synchronize music files between your phone and a PC media application such as Windows Media Player.

Note: Your phone's USB Setting must be set to Media Player or Ask on Connection to use this procedure (see "Select USB Mode" on page 146).

Note: The following steps reflect the procedure used with Windows Media Player 10. If you are using some other form of media player, or a later version of Windows Media Player, refer to the application's Help files for specific directions.

1. Connect the USB cable to a USB port on your PC and to your phone.

◆ **USB Mode set to Ask on Connection:** the Ask on Connection window appears on the phone. Highlight **Media Player** and press the **Select** soft key or the ⓞ key. "Connected" appears on the phone display.

◆ **USB Mode set to Media Player:** "Connected" appears on the phone display.

2. Open **Windows Media Player** on the PC and click the **Sync** tab. The list of devices at the right side of the screen will include your phone (SGH-A836-Phone) and, if a microSD card is inserted in your phone, the card (SGH-A836-Card). Select the location where downloaded files are to be stored.

3. Click the **Edit Playlist** button in Windows Media Player and add the files you want to transfer to your phone to the playlist. Ensure that there is a check mark in the box at the left side of each song you want to synchronize with your phone.

4. Click the **Start Sync** button at the upper left side of the Media Player window to download the selected music to your phone. "Synchronization in progress" is displayed in Windows Media Player and "Downloading" on the phone while file transfer is in progress.

Note: Do not unplug the USB connector from the phone or PC while files are being transferred.

5. When file transfer is complete, unplug the USB connector from the phone.

Menus

This section explains the menu navigation for your phone. It also includes an outline of all the available menus associated with your phone. Some menu options are controlled by the SIM provided by your service provider.

Menu Navigation

The navigation keys on your phone allow you to scroll through menus quickly and easily. The scroll bar at the right of the menu keeps track of your position in the menu at all times.

◆ To access menus from the Idle screen, press [⊙].

◆ To navigate through a menu, press the up or down navigation key. Press [**Volume**] (located on the left side of your phone) to move to the top or bottom of the displayed list.

◆ As you navigate through a menu, menu options are highlighted. To select the highlighted item, press <**Select**> or [⊙]. You can also select numbered options by pressing the corresponding keypad number.

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

◆ If Pop Up List Menu is set to On (see "Set Display" on page 128), submenus display to the right of a highlighted menu item. Press either the right navigation key or [⊙] to access the submenu.

◆ To return to the previous level, press <**Back**> or [⌐].

◆ To exit the menu and return to the Idle screen, press [☎].

Main Menu Style

You can choose to display the Main menu as a 3x3 grid of icons or a list. For more information, see Menu Style in "Set Display" on page 128.

List of Menu Functions

The menu structure is as follows:

1. Rogers Mall

2. Media
1. Music
2. Ring Tunes
3. PIcture Album
4. Videos
5. Voice Notes
6. Tools
7. Other Files
8. Memory Status

3. Games and Apps
1. Get New Games
2. Get New Applications

4. Call History
1. All Calls
2. Missed Calls
3. Calls Made
4. Calls Received
5. Speed Dial List
6. Delete All
7. Call Time

5. Vision
1. Video/Radio
2. Mobile TV
3. Rogers Music Player
4. Friends
5. MobileMail
6. Internet
7. More Services

6. Messages
1. Rogers IM
2. MobileMail
3. Create New Message
4. Inbox
5. Sent
6. Outbox
7. Drafts
8. My Folder
9. Templates
10. Voice Mail
11. Delete All
12. Messages Settings
13. Memory Status

7. Internet

8. Contacts

Contacts (tab)
Groups (tab)

9. Settings
1. Set Sound Profile
2. Set Display
3. Set Time & Date
4. Set Phone
5. Set Calls
6. Set Connectivity
7. Set Applications
8. Reset Settings
9. Memory Management

Rogers Mall

This menu selection **(Menu 1)** opens the Internet Browser, accesses Rogers mobile Internet and automatically accesses a Rogers Web page where you can shop for music, ring tunes, games, images and video files; access messaging functions; and view news and information.

For information on using your phone's Internet browser, see "Using the Internet Browser" on page 113.

Media

The Media menu **(Menu 2)** enables you to:

♦ Manage your media files (audio, graphics, videos, other files)

♦ Use the media player and audio recorder

♦ Take photos and video clips

♦ Set alarms

♦ View the calendar and organize your schedule

♦ Use a calculator, timer or stopwatch

♦ View times in different parts of the world

Media files are organized in a series of named folders. You can also create additional folders or sub-folders to further organize your files.

Note: If you have inserted a microSD memory card in your phone, you can scroll right or left while in the Media menu to view similar folders, and the files they contain, in the memory card.

Music

In this folder, you can access music files you have downloaded to your phone or microSD card, play them using the phone's music player or send them to a Bluetooth headset.

To play a music file on the phone:

1. From the Idle screen, press [◉] and select **Media** ⟶ **Music**.

2. Scroll to the file and press [◉] or press <**Options**> and select **Play**.

To transfer the sound to a Bluetooth headset, press <**Options**> and select **Transfer to Bluetooth Stereo Headset.**

Music Options

The following options are available when you press **<Options>** with a music file highlighted. The availability of some of these options depends on the highlighted (selected) file:

◆ **Play:** Plays the currently selected music file.

◆ **Send via:** Lets you send the chosen file to a recipient in a Message or via Bluetooth to another Bluetooth device.

◆ **Set as:** Lets you use the chosen file as an Alarm Tone (only available for files stored on your phone).

◆ **Move:** Lets you move the Selected file or Multiple files to another folder on the phone or to a microSD memory card if one is inserted. For more information on transferring files to and from your phone or a memory card, see "Transferring Files" on page 40.

◆ **Copy:** Lets you place a copy of the Selected file or Multiple files in another location, including folder on the microSD memory card if one is inserted.

◆ **Delete:** Lets you delete the Selected file, Multiple files or All files.

◆ **Rename:** Lets you change the name of the selected file.

◆ **Add to Playlist:** Lets you add the file to a new or existing playlist.

◆ **Create Folder:** Lets you create a subfolder. After you create a folder, you can highlight it and access the following additional options by pressing **<Options>**:
  • **Open:** Opens the selected folder or subfolder.
  • **Create Folder:** Lets you create a subfolder.
  • **Move Folder:** Lets you move the folder to a new location.
  • **Copy Folder:** Lets you copy the folder to another location.
  • **Delete Folder:** Deletes the selected folder or subfolder.
  • **Rename Folder:** Lets you rename the selected folder or subfolder.
  • **Sort by:** Lets you arrange all your files by Date, Type, Name, or Size.

- **Bluetooth Visibility:** Allows the media file to be shared or released for the use with another Bluetooth device.
- **Memory Card Settings:** Opens the Memory Card Settings menu, where you can view card details, format or rename the card, and turn Bluetooth visibility on or off.
- **Properties:** Displays all the properties of the currently selected folder.

♦ **Sort by:** Lets you arrange all your files by Date, Type, Name or Size.

♦ **Bluetooth Visibility:** Allows the selected music file or multiple files to be shared or released for use with another Bluetooth device.

♦ **Lock/Unlock:** Allows you to lock the file so it can not be deleted. Files must be unlocked before they can be deleted.

♦ **Properties:** Display all the properties of the currently selected file (Title, Size, Format, Duration, Artist, Album, Genre, Forwarding, Created, Location).

Ring Tunes

In this folder you can download ring tunes using the Internet browser and manage your ring tunes.

Note: If you have inserted a microSD memory card in your phone, you can scroll right or left while in the Media menus to view similar folders, and the files they contain, in the memory card.

Get New Ring Tunes

This option allows you to download ring tunes from your service provider.

1. From the Idle screen, press [⊙] and select **Media** → **Ring Tunes** → **Get New Ring Tunes.** The browser launches and opens the Get Music & Tones screen.

2. Follow the on-screen options to select and download a file.

Press <**Options**> to access browser options (see "Using the Internet Browser" on page 113).

Ring Tunes Options

The following options are available when you press <**Options**> with a ring tune highlighted. The availability of some of these options depends on the highlighted (selected) file:

♦ **Play:** Plays the currently selected ring tune.

♦ **Send via:** Lets you send the chosen file to a recipient in a Message or via Bluetooth to another Bluetooth device.

♦ **Set as**: Lets you set the selected ring tune as your Voice Call Ring Tune, Caller Ring Tune or Alarm Tone.

♦ **Move:** Lets you move the file to another location on the phone or to a memory card.

♦ **Copy:** Lets you copy the file to another location on the phone or to a memory card.

♦ **Delete:** Lets you delete the Selected file, Multiple files or All files.

♦ **Rename:** Lets you change the name of the selected file.

♦ **Add to Playlist**: Lets you add the file to a music playlist.

♦ **Create Folder:** Lets you create a subfolder. After you create a folder, you can highlight it and access the following additional options by pressing <**Options**>:

   • **Open:** Opens the selected folder or subfolder.
   • **Create Folder:** Lets you create a subfolder.
   • **Move Folder:** Lets you move the folder to a new location.
   • **Copy Folder:** Lets you copy the folder to another location.
   • **Delete Folder:** Deletes the selected folder or subfolder.
   • **Rename Folder:** Lets you rename the selected folder or subfolder.
   • **Sort by:** Lets you arrange all your files by Date, Type, Name, or Size.

- **Bluetooth Visibility:** Allows the media file to be shared or released for the use with another Bluetooth device.
- **Memory Card Settings:** Opens the Memory Card Settings menu, where you can view card details, format or rename the card, and turn Bluetooth visibility on or off.
- **Properties:** Displays all the properties of the currently selected folder.

♦ **Sort by:** Lets you arrange all your files by Date, Type, Name or Size.

♦ **Bluetooth Visibility:** Allows the media file to be shared or released for the use with another Bluetooth device.

♦ **Lock/Unlock:** Allows you to lock the file so it can not be deleted. Files must be unlocked before they can be deleted.

♦ **Properties:** Displays all the properties of the currently selected file.

Picture Album

This folder contains your collections of provided and downloaded pictures as well as those taken with your phone's internal camera. You can also download pictures and select pictures to be displayed as wallpaper or as caller ID images.

Get New Graphics

The Get New Graphics option allows you to download images from your service provider.

1. From the Idle screen, press [◎] and select **Media** → **Picture Album** → **Get New Graphics.** The browser launches and opens the Images screen.

2. Follow the on-screen options to select and download a file.

Picture Files

To open a picture file:

1. From the Idle screen, press [◎] and select **Media → Picture Album.**

Highlight the picture you want to view and press [◎] or press <**Options**> and select **View**.

Picture File Options

The following options are available when you press <**Options**> with a graphic file highlighted. The availability of some of these options depends on the highlighted (selected) file:

♦ **View:** Displays the image.

♦ **View Online Album:** Lets you view pictures uploaded to your online album.

♦ **Send:** Lets you send the selected file to a recipient via Message, via Bluetooth to another Bluetooth device, or to an Online Album.

♦ **Set as:** allows you to set the photo as wallpaper for the Main Display or Front Display, or assign it to a Caller ID.

♦ **Move:** Lets you move the Selected file or Multiple files to a different location in your phone or to a microSD memory card if one is inserted. Highlight the location you want to move the file(s) to and press [◎].

♦ **Copy:** Lets you place a copy of the Selected file or Multiple files in another location in your phone or on a microSD memory card if one is inserted. Highlight the location you want to copy the file(s) to and press [◎].

♦ **Delete:** Lets you delete the Selected file, Multiple files or All files.

♦ **Rename:** Lets you change the name of the selected file.

♦ **Take Photo:** Switches your phone to Camera mode.

♦ **Create Folder:** Lets you create a subfolder. After you create a folder, you can highlight it and access the following additional options by pressing <**Options**>:

 •**Open:** Opens the selected folder or subfolder.

 •**Take Photo:** Switches your phone to Camera mode.

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•**Create Folder:** Lets you create a subfolder.

•**Move Folder:** Lets you move the folder to a new location.

•**Copy Folder:** Lets you copy the folder to another location.

•Delete Folder: Deletes the selected folder or subfolder.

•Rename Folder: Lets you rename the selected folder or subfolder.

•Sort by: Lets you arrange all your files by Date, Type, Name, or Size.

•**Bluetooth Visibility:** Allows the media file to be shared or released for the use with another Bluetooth device.

•**Memory Card Settings:** Lets you view memory card details, format or rename the card, and enable/disable Bluetooth visibility.

•Properties: Displays all the properties of the currently selected folder.

♦ **Sort by:** Lets you arrange all your files by Date, Type, Name or Size.

♦ **Bluetooth Visibility:** Allows the media file to be shared or released for the use with another Bluetooth device.

♦ **Print via:** Lets you print the file via USB or Bluetooth connection to a printer or computer.

♦ **Lock/Unlock:** Lets you lock the file to prevent accidental deletion and unlock it when necessary.

♦ **Properties:** Display all the properties of the currently selected file.

Photo Options

The following options are available when you press <**Options**> with a picture file open:

♦ **Zoom:** Lets you zoom in on a portion of the picture. Press <**+**> to zoom in, press <**-**> to zoom out, and use the navigation keys to move the image window. Press [ⓞ] to exit.

♦ **Send:** Allows you to send the picture in a Message, via Bluetooth or to an Online Album.

♦ **Set as:** Allows you to set the photo as wallpaper for the Main Display or Front Display, or assign it to a Caller ID.

♦ **Delete:** Deletes the picture.

♦ **Rename:** Lets you specify a different name for the file.

♦ **Edit:** Opens the Image Editor. Press <**Options**> to access the following editing and sharing tools:

- •**Save as:** Lets you specify a unique name for the picture file. Otherwise, pictures are named using the default naming convention (to change the default format see Default Name in the previous section).
- • **Effects:** Allows you to apply a Black and White, Sepia, Negative, Milky, Lighting, Crayon Pastel, Oil Paint, Blur, Despeckle, or Sharpen effect to the image.
- •**Partial Effects:** Lets you apply a Partial Blur effect or perform Redeye Repair inside an area. Select the effect you want to apply**.** Use the navigation keys to move the area box to the area of the screen where you want to apply the effect. Press <**Options**> and select **Size** to change the size of the selected area, **Shape** to select a different shape for the selection area, **Blur** or **Repair** to apply the effect.
- •**Adjust:** Lets you adjust Brightness, Contrast and Color settings. Use the left and right navigation keys to move the adjustment slider.
- •**Transform:** Lets you Resize, Rotate or Flip the picture. Use the up and down navigation keys to make a selection and press [ⓞ] or <**Select**>.
- •**Crop:** Lets you crop a portion of the picture. Use the navigation keys to move the area box to the area of the screen where you want to apply the effect. Press <**Options**> and select **Size** to change the size of the selected area, **Shape** to select a different shape for the selection area, **Crop** to apply the effect.
- •**Insert:** Lets you add a Frame, Clipart, Emoticon or Text to the picture. After entering text, press <**Options**> to change Size, Rotate, Font size or Color.
- •**Send:** Allows you to send the picture in a Message, via Bluetooth or to an Online Album.

- • **Set as:** Allows you to set the photo as wallpaper for the Main Display or Front Display, or assign it to a Caller ID.
- • **Print via:** Allows you to print the photo using a USB or Bluetooth connection.

♦ **Bluetooth Visibility:** Allows the file to be shared or released for use with another Bluetooth device.

♦ **Slide Show:** Consecutively displays all images in the folder.

♦ **Print via:** Lets you print the file via USB or Bluetooth connection to a printer or computer.

♦ **Lock/Unlock:** Lets you lock the file to prevent accidental deletion and unlock it when necessary.

♦ **Properties:** Displays the properties of the currently selected file.

Videos

In this folder, you can view the videos you have taken using the built in camcorder (see "Camcorder" on page 64) as well as videos downloaded from the Web or received in picture messages.

Get New Videos

The Get New Videos option allows you to download videos from your service provider.

1. From the Idle screen, press [⊙] and select **Media** → **Videos** → **Get New Videos.** The browser launches and opens the Music & Tones page.

2. Follow the on-screen options to select and download a file.

Video Files

To play a video file:

1. From the Idle screen, press [⊙] and select **Media** → **Videos.**

2. Highlight the video clip you want to view and press [◉] or press <**Options**> and select **Play**.

Video File Options

The following options are available when you press <**Options**> with a video file highlighted. The availability of some of these options depends on the highlighted (selected) file:

◆ **Play:** Plays the currently selected video.

◆ **View Online Album:** Lets you view videos uploaded to your online album.

◆ **Send:** Lets you send the selected file to a recipient in a Message, via Bluetooth to another Bluetooth device, or to an Online Album.

◆ **Move:** Lets you move the Selected file or Multiple files to another folder on the phone or to a microSD memory card if one is inserted.

◆ **Copy:** Lets you place a copy of the Selected file or Multiple files in another location in the phone or a microSD memory card if one is inserted.

◆ **Delete:** Lets you delete the Selected file, Multiple files or All files.

◆ **Rename:** Lets you change the name of the selected file.

◆ **Record Video:** Switches your phone to Camcorder mode.

◆ **Create Folder:** Lets you create a subfolder. After you create a folder, you can highlight it and access the following additional options by pressing <**Options**>:

  • **Open:** Opens the selected folder or subfolder.
  • **Record Video:** Switches your phone to Camcorder mode.
  • **Create Folder:** Lets you create a subfolder.
  • **Move Folder:** Lets you move the folder to a new location.
  • **Copy Folder:** Lets you copy the folder to another location.
  • **Delete Folder:** Deletes the selected folder or subfolder.
  • **Rename Folder:** Lets you rename the selected folder or subfolder.

- **Sort by:** Lets you arrange all your files by Date, Type, Name, or Size.
- **Bluetooth Visibility:** Allows the media file to be shared or released for the use with another Bluetooth device.
- **Memory Card Settings:** Lets you view memory card details, format or rename the card, and enable/disable Bluetooth visibility.
- **Properties:** Displays all the properties of the currently selected folder.

♦ **Sort by:** Lets you arrange all your files by Date, Type, Name or Size.

♦ **Bluetooth Visibility:** Allows the media file to be shared or released for the use with another Bluetooth device.

♦ **Lock/Unlock:** Lets you lock the file to prevent accidental deletion and unlock it when necessary.

♦ **Properties:** Display all the properties of the currently selected file.

Voice Notes

This folder contains the audio files that you create with the built in recorder. This is the default save location for recorded audio files. To access the Record Audio function, see "Record Audio" on page 70.

Voice Notes Options

The following options are available when you press <**Options**> with a Voice Notes file highlighted:

♦ **Play:** Plays the currently selected audio file.

♦ **Send via Messages:** Lets you send the selected file to a recipient in a Message.

♦ **Set as:** Lets you use the recording as an alarm tone. Select an alarm option (Wake-up alarm, Alarm 1 -4). Program the alarm options (see "Alarms" on page 76) then press <**Save**> or [⊙] to confirm the choice.

◆ **Move:** Lets you move the Selected file or Multiple files to another folder on the phone or a microSD memory card if one is inserted. Highlight the location you want to move the file(s) to and press [⊙].

◆ **Copy:** Lets you place a copy of the Selected file or Multiple files in another location in the phone or a microSD memory card if one is inserted.

◆ **Delete:** Lets you delete the Selected file, Multiple files or All files.

◆ **Rename:** Lets you change the name of the selected file.

◆ **Record Audio:** Opens the audio recorder (see "Record Audio" on page 70).

◆ **Create Folder:** Lets you create a subfolder. After you create a folder, you can highlight it and access the following additional options by pressing <**Options**>:

  • **Open:** Opens the selected folder or subfolder.
  • **Record Audio:** Lets you use the Record Audio function to record an audio clip using your phone's microphone.
  • **Create Folder:** Lets you create a subfolder.
  • **Move Folder:** Lets you move the folder to a new location.
  • **Copy Folder:** Lets you copy the folder to another location.
  • **Delete Folder:** Deletes the selected folder or subfolder.
  • **Rename Folder:** Lets you rename the selected folder or subfolder.
  • **Sort by:** Lets you arrange all your files by Date, Type, Name, or Size.
  • **Bluetooth Visibility:** Allows the media file to be shared or released for the use with another Bluetooth device.
  • **Memory Card Settings:** Lets you view memory card details, format or rename the card, and enable/disable Bluetooth visibility.
  • **Properties:** Displays all the properties of the currently selected folder.

◆ **Sort by:** Lets you arrange all your files by Date, Type, Name or Size.

◆ **Lock/Unlock:** Lets you lock the file to prevent accidental deletion and unlock it when necessary.

♦ **Properties:** Display all the properties of the currently selected file.

Tools

Provides access to the Camera, Media Player, Record Audio, Calendar, Alarms, Calculator, World Clock, Stopwatch, Tasks, Notes, Tip Calculator, Converter and Timer.

Camera

Using the camera 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 picture message or set one as wallpaper on your display screen.

You can also record videos (see "Camcorder" on page 64).

For information on configuring the default settings for the camera, see "Camera Settings" on page 150.

Taking Photos

Your camera produces photo files in JPEG format. The selected location for saving photos (phone or card) and number of photos that can be saved in this location are indicated at the lower left side of the screen (to change the file location See "Camera Settings" on page 150).

To take a photo:

1. From the Idle screen, press [◉] and select **Media** → **Tools** → **Camera.** The camera opens in either Camera or Camcorder mode (indicated by the icon on the top left corner of the screen), depending the mode last used. To change the camera mode, press [1∞] or press <**Menu**> and select **Camera**.


Note: You can also access the camera directly from the Idle screen by pressing and holding the Camera key.

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2. Adjust the image by aiming the camera at the subject and framing the photo you want to take on the screen.

   ◆ Press <**Menu**> to configure settings or apply effects. For more information, see "Camera Options in Capture Mode" on page 62.

   ◆ You can change the brightness using the left and right navigation keys.

   ◆ You can change the zoom using the up and down navigation keys.

3. Press [◎] to take the photo.

Camera Options in Capture Mode

Camera options are represented by icons across the top of the screen. Press <**Menu**> to access the camera options. Use the left and right navigation keys to highlight individual options, then the up and down navigation keys to make a selection. Press [◎] to confirm a new selection.

The available options are:

◆ **Camera Mode:** Allows you to select either Camera or Camcorder.

◆ **Shooting Mode:** Allows you to switch camera modes.

   • **Single Shot:** allows you to take a single photo and either review the photo after taking it (Take and Review) or return immediately to the viewfinder to take another (Take and Preview).

   • **Multi Shot:** Allows you to take a series of up to 9 photos in quick succession by pressing and holding the ◎ key.

   • **Mosaic Shot:** Allows you to take two or more photos arranged in a mosaic. Press <**List**> or use the left and right navigation buttons to view the available patterns. Press <**OK**> to select a mosaic.

   • **Frame Shot:** Lets you add a decorative frame to the picture. Press <**List**> or use the left and right navigation buttons to view the available frames. Press <**OK**> to select a frame.

   • **Panorama:** allows you to take 3, 4, 5, or 6 photos that are combined in a single panoramic image.

◆ **Image Size:** allows you to set the size (in pixels) of pictures being taken in Single Shot mode. The options are: 1280x960, 640x480 and 320x240. For Multi Shot and Panorama, the size is automatically set to 320x240. For Mosaic Shot and Frame Shot the size is automatically set to 176x144.

◆ **White Balance:** allows you to set the white balance (color temperature of the surrounding light). Choose Auto (camera automatically selects the setting), Daylight, Incandescent, Fluorescent, or Cloudy.

◆ **Night Shot:** Increases the camera sensitivity to produce brighter pictures in dark locations.

◆ **Timer:** allows you to set a time delay before the camera takes the picture. The options are Off, 3 Seconds, 5 Seconds, or 10 Seconds. The camera counts down the time on the screen and by playing a sound.

◆ **Effects:** allows you to choose a custom color tone for your picture. Choose from the following options.

   No Effects: cancels any effects applied to the picture.

   Black & White: removes all color and displays the picture in black and white (greyscale) mode.

   Sepia: Displays the picture in black and white with a sepia tint that makes it look like an old picture.

   Negative: Reverses the light and dark areas of the picture.

◆ **Camera Shortcuts:** Provides a list of shortcuts that allow you to directly access camera options using the keypad. Press the key once to see the current setting and continue pressing to change the setting. Keypad shortcuts include.

1 ∞	toggles between Camera and Camcorder mode
2 ABC	changes the Shooting mode
3 DEF	changes the Timer setting
#	changes the Viewfinder mode

| ⁎ ⁎ | Toggles Night Shot mode on and off |

♦ **Settings:** Allows you to customize your camera settings. See "Camera Settings" on page 150 for complete information.

Camera Options After Taking a Photo

When Single Shot mode is set to Take And Review and an image you have just taken is displayed, you can press <**Options**> to access the following options:

♦ **Take Photo:** Returns to the active camera screen so you can take another photo.

♦ **Send:** Allows you to send the photo in a message or to an online album.

♦ **Set as:**
  • **Wallpaper:** Sets the photo as your wallpaper for the idle screen on the main display.
  • **Caller ID:** Sets the photo as a caller ID image for Contact list entries.

♦ **Rotate:** rotates the image 90° clockwise.

Gallery

The Gallery soft key provided when in Camera mode provides another method of accessing the **Picture Album** folder but only shows photos taken using the handset.

Options available by pressing <Options> are the same as provided when accessing the Picture Album directly except Take Photo is not included (see "Picture File Options" on page 54 for details).

Camcorder

Using the camcorder, you can record videos in 3GP or MP4 format. The video clips you create can be sent to other properly equipped phones. You can also view the clips with the built-in media player.

Recording Videos

To record a video:

1. From the Idle screen, press [☉] and select **Media** → **Tools** →
   Camera. The camera opens in either Camera or Camcorder mode
   (indicated by the icon on the top left corner of the screen), depending
   the mode last used. To change the camera mode, press [1 ∞] or
   press <**Menu**> and select **Camcorder**.

2. Aim the camera lens at the subject and frame the starting point for the
   video on the screen.

   ♦ Press <**Menu**> to configure settings or apply effects. For more
     information, see "Camcorder Options in Record Mode" on page 65.

   ♦ You can change the brightness using the left and right navigation
     keys.

   ♦ You can change the zoom using the up and down navigation keys.

3. Press [☉] to start recording the video. Press [☉] to pause recording
   and again to restart.

4. When you are finished, Press <**Stop**> to stop recording.

The video clip is saved in the Videos folder. You can preview it by pressing
[☉], delete it by pressing <**Delete**> or access various options by pressing
<**Options**>. For more information on menu options, see "Camcorder
Options After Recording a Video" on page 67.

Camcorder Options in Record Mode

Camcorder options are represented by icons across the top of the screen.
Press <**Menu**> to access the camcorder options. Use the left and right
navigation keys to highlight individual options, then the up and down
navigation keys to make a selection. Press [☉] to confirm a new selection.

♦ **Camera Mode:** Allows you to select the camera operating mode
  (Camera or Camcorder).

♦ **Recording Mode:** Switches recording mode between Normal and Picture Message (limits the video clip file size to allow transmission in a Picture Message.).

♦ **Size:** Indicates that the resolution of the video clip is 176x144.

♦ **White Balance:** Allows you to set the white balance (color temperature of the surrounding light). Choose Auto (camera automatically selects the setting), Daylight, Incandescent, Fluorescent, or Cloudy.

♦ **Record Audio:** Controls whether sound is recorded along with the video.

♦ **Timer:** allows you to set a time delay before the camcorder begins recording. The options are Off, 3 seconds, 5 seconds, or 10 seconds. The camera counts down the time on the screen and by playing a sound.

♦ **Effects:** allows you to choose a custom color tone for your photo. Choose from the following options.

   No Effects: cancels any effects applied to the image.

   Black & White: removes all color and displays the picture in black and white (greyscale) mode.

   Sepia: Displays the picture in black and white with a sepia tint that makes it look like an old picture.

   Negative: Produces a negative image of the scene.

♦ **Shortcuts:** Provides a list of shortcuts that allow you to directly access camera options using the keypad. Press the key once to see the current setting and continue pressing to change the setting. Keypad shortcuts include.

1	toggles between Camera and Camcorder mode
2ABC	changes the Recording mode
3DEF	changes the Timer setting
#	changes the Viewfinder mode (turns icons on or off)

◆ **Settings:** Opens the Camera Settings menu See "Camera Settings" on page 150 for more information.

When you press <**Options**> after saving a video, the following options are available:

◆ **Record Video:** returns to the active camcorder screen so you can take another video.

◆ **Send:** Allows you to send the video in a message or to an online album.

Gallery

The Gallery soft key provided when in Camcorder mode provides another method of accessing the **Videos** folder but only shows video clips taken using the handset.

Options available by pressing <Options> are the same as provided when accessing the Videos folder directly except Record Video is not included (see "Video File Options" on page 58 for details).

Media Player

The media player lets you access and play music files saved on the phone or a microSD memory card. You can create and access playlists (lists of songs grouped for playback).

For information on transferring files to your phone or a microSD card, see "Transferring Files" on page 40.

Note: The Music Player does not necessarily support all features of a particular file format nor all the variations of those formats. The Music Player includes support for Windows Media Digital rights Management (WMDRM), which allows you to play some purchased or subscription content. Copyright protection may prevent some images, music (including ring tunes) and other content from being copied, modified, transferred or forwarded.

To access music files and playlists:

1. From the Idle screen, press [◉] and select **Media** → **Tools** → **Media Player.**

The choices available are:

- **Now playing:** displays details of a song currently playing or paused.
- **All Music:** Displays a list of all songs currently available on the phone and the microSD memory card (if inserted).
- **Artists:** Displays a list of all artists performing the available songs. To view a list of the available songs by an artist, organized by album, highlight the name and press [◉]. To play a song, highlight the title and press [◉].
- **Albums:** Displays a list of all albums currently available on the phone or an inserted microSD card. To view a list of the songs on an album, highlight the name and press [◉]. To play a song, highlight the title and press [◉].
- **Playlists:** Lets you create a New Playlist, view Recently played or Most played, and provides a list of playlists.
- **Genres:** Lists the available music by genre.

Playing a Music File

While viewing Media Player files, as described above, highlight the file you want to play and press [◉] to launch the player and play the file.

While an audio file is playing, the left and right navigation keys operate as Last Track/Next Track controls and [◉] as Pause control, even when you return to the Media Applications screen or Idle screen by pressing [☎]. To access the Menu screen from the Idle screen while the music player is operating, press <**Menu**>.

When you close the phone, you can change the volume using the volume keys, mute the sound by pressing and holding the lower volume key, and unmute the sound by pressing and holding the upper volume key.

Before or after a file is played, you can press <**Options**> for additional options (see below).

Media Player Options

When you open the Media Player and highlight a music file, the following options are available by pressing <**Options**>:

◆ **Add to Playlist:** Lets you add the selected file to a new or existing playlist.
◆ **Send via:** Lets you send the selected file to a recipient in a Message or via Bluetooth to another Bluetooth device.
◆ **Delete:** Lets you delete the selected file.
◆ **Properties:** Displays the properties of the selected file (Title, Size, Format, Duration, Artist, Album, Genre, Forwarding, Created, Location).

When you select a music file, the following options are available by pressing <**Options**>:

◆ **Pause/Resume:** Allows you to stop and restart the currently playing music selection.
◆ **Transfer to Bluetooth Stereo Headset/Phone:** Selects whether to play the selected file through the phone's speaker or Bluetooth stereo headphones (see below).
◆ **Hide Player:** Displays or hides the on-screen playback controller image.
◆ **Shuffle:** Plays all files in random order.
◆ **Loop:** allows you to play the current selection or all music files in a continuous loop.
◆ **Add to Playlist:** Lets you add the selected file to a new or existing playlist.
◆ **Send via:** Lets you send the selected file to a recipient in a Message or via Bluetooth to another Bluetooth device.
◆ **Set as:** Lets you set the selected file as an alarm tone.
◆ **Equalizer:** Allows you to set music player's tonal balance to optimize it for Normal, Rock, Pop, Dance, Classic or Jazz music.
◆ **Delete:** Deletes the selected music file.

♦ **Properties:** Displays the properties of the selected file (Title, Size, Format, Duration, Artist, Album, Genre, Date, Location).

Play Music Through a Stereo Bluetooth Device

Your phone supports the Stereo Bluetooth profile (A2DP) that will play back music in stereo on a stereo Bluetooth headset. Your phone must be paired to a stereo Bluetooth device (see "Bluetooth" on page 139 for instructions).

To play music through a paired stereo Bluetooth headset, during playback press <**Options**>, highlight **Transfer to Bluetooth Stereo Headset** and press <**Select**> or [◎].

Record Audio

Record Audio allows you to record audio clips such as voice memos and send audio clips to other people.

To create an audio recording:

1. From the Idle screen, press [◎] and select **Media** → **Tools** → **Record Audio**.

2. To begin recording, press [◎].

3. To pause the recording, press [◎]. To stop recording and save the file press <**Stop**>. If the recording time expires, the message is automatically saved.

4. To play back the recording, press [◎].

Using Record Audio Options

Before recording, you can access various options by pressing <**Options**>. To execute an option, select it and press <**Select**> or [◎]. The following options are available:

♦ **Record:** Immediately begins recording an audio clip.

♦ **Go to Voice Notes:** Takes you to the Voice Notes folder where recorded audio clips are stored.

♦ **Record Audio Settings:** Allows you to select the Default Name for recorded files and the maximum Recording Time (1 Minute, 2 Minutes, 3 Minutes, 4 Minutes, 5 Minutes, 60 Minutes or Limit for MMS). See "Record Audio Settings" on page 152 for more information.

After saving a recorded file you can access various options by pressing <**Options**>. To execute an option, highlight it and press <**Select**> or [◎]. The following options are available:

♦ **Play:** Plays the recorded file.

♦ **Record:** Immediately begins recording an audio clip.

♦ **Go to Voice Notes:** Takes you to the Voice Notes folder, which contains audio files that you have created using the built-in recorder.

♦ **Record Audio Settings:** Lets you set default Record Audio settings. For more information, see "Record Audio Settings" on page 152.

♦ **Send via Messages:** Lets you send the selected file to a recipient in a picture message.

♦ **Delete:** Deletes the selected file.

♦ **Rename:** Lets you specify a unique name for the audio file. Otherwise, the default naming convention is used. Note that you can also change the default naming convention (see "Record Audio Settings" on page 152).

♦ **Lock/Unlock**: Locking prevents the file from being accidentally deleted. A locked file must be unlocked before it can be deleted.

♦ **Properties:** Display the properties of the currently selected media file.

Calendar

Using the Calendar feature, you can view any month, week or day. The current day is highlighted in the month and week views. You can also create Appointment, Anniversary, Holiday, Important and Private events on any day.

To view the Calendar:

1. From the Idle screen, press [☉] and select **Media** → **Tools** →
   Calendar. The calendar opens in Month, week or day view, depending
   on the Default View setting (see "Calendar Options" on page 72).

In **Month** view, the current date is highlighted by a box around the number.
Use the navigation keys to move to other dates. Appointments are
indicated by a blue arrow at the lower right corner of the date,
Anniversaries by a yellow arrow at the upper right corner, Holidays by
changing the number to yellow, Important events by a red arrow at the
upper left corner and Private events by a green arrow at the lower left
corner.

Week view provides a grid with the days of the week across and daytime
hours arranged vertically. Use the navigation keys to move to specific days
and times. The same arrow indicators as in Month view appear on the initial
indicating the day and colored rectangles indicate the time slots where
events are scheduled. To view the events on a specific day, use the
navigation keys to highlight the day and press [☉] to open the day view.

Note: You can also move to the previous or next month or week by pressing the
Volume keys on the left side of the phone.

Day view provides a list of the events associated with the chosen day, the
scheduled time for each and icons indicating the type of event, alarm
indicator, etc.

To Change the View

While in any of the Calendar views, to change the view press <**Options**>,
select **View Mode,** highlight the view you want and press <**Select**> or [☉].

Calendar Options

While using the Calendar, press <**Options**> to access the Calendar
options (not all options are available in each view):

◆ **View:** Opens the Day view for the selected day.

◆ **View Mode:** Lets you change the view to one of the other options.

◆ **Create:** Used to create a new event (Appointment, Anniversary, Holiday, Important or Private).

◆ **Go to:** Lets you directly select the current day or a specific date.

◆ **Send via:** Lets you send the information for the highlighted event to someone else via message or Bluetooth.

◆ **Event List:** Displays a list of specific type of event (Appointments, Anniversaries, Holidays, Important or Private).

◆ **Delete:** Lets you delete events for the selected day, all events in a specific time period, all events in the selected month, all previous events or all events.

◆ **Save to Media:** Saves the information in a .vcs format file in the Other Files folder (see "Other Files" on page 84).

◆ **Print via Bluetooth:** Prints a day calendar to a Bluetooth-enabled printer.

◆ **Settings:** Allows you to select the calendar Starting Day (whether Sunday or Monday is the first day of the week) and Default View Mode (whether the current month, week or day is displayed when the calendar is opened).

◆ **Missed Alarm Event:** Provides a list of events with alarm time that has passed.

◆ **Memory Status:** Shows the number of each type of event saved on your phone. The phone holds a maximum of 100 Appointments, 50 Anniversaries, 50 Holidays, 20 Important events and 20 Private events.

Creating Calendar Entries

To write or edit a calendar entry on a specific date:

1. Use the navigation keys to select the date.

2. Press <**Options**> and select **Create**.

3. Select the type of entry you want to make (Appointment, Anniversary, Holiday, Important or Private).

   Depending on the type of entry, some of the following options are available:

   ♦ **Title:** Enter text describing the event.

   ♦ **Details:** Enter any additional details.

Note: The Start Date and End Date on event entry screens are automatically set to the date highlighted on the calendar when the screen is opened.

   ♦ **Start Date:** If the displayed start date is not correct, use the navigation keys and numeric keypad to enter the required date.

   ♦ **Start Time:** Use the numeric keypad to set the start time. Use the Right navigation key to toggle the AM/PM setting.

   ♦ **End Date:** If the displayed end date is not correct, use the navigation keys and numeric keypad to enter the required date.

   ♦ **End Time:** Use the numeric keypad to set the end time. Use the right navigation key to toggle the AM/PM setting.

   ♦ **Date:** If the displayed date for the event is not correct, use the navigation keys and numeric keypad to enter the required date.

   ♦ **Location:** Enter text detailing the location of the appointment.

   ♦ **Alarm (before):** Allows you to set an alarm to remind you of this event and set the length of time before the event that the alarm should sound (number of minutes, hours or days).

   ♦ **Alarm Time:** Allows you to set the time of day that the alarm will sound.

   ♦ **Alarm Tone:** Press [◉] key to open the Media menu and select **Ring Tunes**. To play any of the available tones, highlight the name and press [◉], then press <**Back**> to return to the menu. Highlight the tone you wish to use, press <**Options**>, and select **Select**.

♦ **Repeat**: allows you to repeat the same event on a daily, weekly or monthly basis.

♦ **Repeat Every Year:** Lets you repeat an Anniversary event every year on the same date.

♦ **Every**: Lets you specify a multiplier for the Repeat setting, for example if Repeat is set to Weekly and you enter 3 in this box, the event repeats every 3 weeks.

♦ **Except Weekends:** Lets you exclude weekends.

♦ **Until:** Lets you specify when to stop the event.

4. When you have finished, press [⊙] or press <**Options>** and select **Save**. The entry is indicated on the calendar by a colored arrow at a corner of the date.

Event Options

The following options display when you press <**Options**> while setting an event.

♦ **Birthday from Contacts:** Lets you import information from Contacts (anniversary only).

♦ **Save**: Saves the event in the corresponding event list.

♦ **Input Method**: Allows you to select the text input method (see "Changing the Text Input Mode" on page 36).

♦ **Input Language**: Toggles the input language between English and Français (French).

Viewing a Calendar Entry

To view the details for a day, highlight the day in the calendar view and press [⊙]. To view the details of an entry, highlight it and press [⊙] or <**Options**> and select **View**.

Missed Alarm Events

While viewing the calendar or a calendar entry, the Missed Alarm Event option shows all calendar entries that you have missed. If more than one entry is stored, press the up or down navigation key to scroll to the previous or next entry. Press <**Options**> to access the following options:

♦ **View:** Allows you to view the highlighted entry details.

♦ **Delete:** Allows you to delete the currently selected missed alarm event.

♦ **Delete All:** Allows you to delete all missed alarm events.

Alarms

This menu allows you to:

♦ Set up to eleven alarms to ring at a specific time

♦ Set the phone to switch on automatically and play alarms when switched off

Set an Alarm

1. From the Idle screen, press [◉] and select **Media** →**Tools** → **Alarms**.

2. Choose an alarm and press [◉] or press <**Options**> and select **Select**.

   For all alarms except Wake-up Alarm, you can change the alarm name by selecting **Name** and editing the content of the text box.

3. If the alarm is **Off**, choose **Alarm Activation** and press the right navigation key to set it to **On**.

4. Choose **Alarm Time**. Set a time for the alarm to sound using the numeric keypad. To change the AM/PM setting, highlight **AM/PM** and use the right navigation key to toggle the setting.

Note: Your phone is preset to a 12-hour format. To change the time format, see "Set Time & Date" on page 131.

5. Choose **Alarm Type** and press [⊙]. Choose Melody, Increasing Melody, Vibration, Vibration then Melody, Vibration & Melody, or Vibration & Increasing Melody and press <**Select**> or [⊙].

6. Choose **Alarm Tone**, press [⊙] to open the Media menu and choose **Ring Tunes**. To play a tone, choose the name and press [⊙], then press <**Back**> to return to the menu. Choose the tone you wish to use, press <**Options**>and select **Select**.

7. Choose the **Alarm Volume** graphic. Press the Left and Right navigation keys to adjust the volume level. Press [⊙] to hear a preview.

8. Choose the **Recurrence** panel. Press [⊙] to open the selection menu. The menu choices are:

   ♦ **Every day:** The alarm sounds each day at the Alarm Time.

   ♦ **Once only:** The alarm sounds the first time the Alarm Time occurs.

   ♦ **Individual Days:** The alarm sounds at the Alarm Time only on the selected day(s).

   For each selection you want to make, highlight it and press [⊙] to put a check mark in the selection box. When you are finished, press <**OK**>.

9. To change the Snooze setting, use the left and right navigation keys to toggle the setting (Off, 1 Min, 3 Min, 5 Min, 7 Min, 10 Min). Choose **Repeat** and set the number of times to repeat the alarm (1, 2, 3, 5, 10).

10. Press [⊙] or press <**Options**> and select **Save** to save the settings.

Note: The Alarm icon appears in the Icon area on the Idle screen to show that an alarm has been set.

Note: To stop the alarm when it rings, open the phone and press any key. To use the snooze function to delay the alarm, press the **Snooze** soft key.

Adding and Deleting Alarms

The default alarm display shows **Wake-up Alarm** (intended for use as an "alarm clock"), task alarms **Alarm 1** to **Alarm 4**, and **Auto Power-up** (lets you choose whether the alarm rings when the phone is turned off).

♦ You can add up to six additional alarms by pressing <**Options**> and selecting **Create.**

♦ To rename an alarm, choose the alarm, press [⊙], enter the new name in the **Name** box and press [⊙].

♦ To delete any of the alarms you have added, choose the alarm, press <**Options**>, choose **Delete**, press <**Select**> or [⊙], and press <**Yes**> to confirm the deletion.

Calculator

With this feature, you can use the phone as a calculator with basic arithmetic functions (addition, subtraction, multiplication, division). To use the calculator:

1. From the Idle screen, press [⊙] and select **Media** → **Tools** → **Calculator**.

2. Enter the equation you want to solve.

   ♦ Enter numbers using the numeric keys.

   ♦ As shown in the diagram on the lower part of the screen, enter basic operators (+, -, × or ÷) using the navigation keys, decimal point and brackets using the left soft key (press once for decimal point, continue pressing for brackets).

♦ To make corrections, use [✱] and [#] to move left and right in the equation you have entered and press [C] to delete the character immediately to the left of the cursor.

To view the result, press [○].

World Clock

World Clock allows you to view the time of day in two other parts of the world and graphically depicts the position of these time zones relative to the one you are in. Your current time zone is shown on the map by a red and white vertical line (see "Set Time & Date" on page 131 for information on setting your time zone).

To use World Time:

1. From the Idle screen, press [○] and select **Media** → **Tools** → **World Clock**.

2. Use the Left and Right navigation keys to scroll to a time zone. The selection box lists one or more well-known cities within the zone and the current time within that zone. The location of the zone is indicated on the map by a blue and white vertical line.

To toggle the application of Daylight Savings Time to the selected time zone, press <**Set DST**> or [○]. DST On is indicated by an icon at the right side of the scrolling date and time bar.

Stopwatch

The Stopwatch allows you to time an event and measure up to 50 separate sub-intervals, such as lap times. To use the stopwatch:

1. From the Idle screen, press [○] and select **Media** → **Tools** → **Stopwatch**.

2. Press [○] to start the stopwatch. You can measure sub-intervals (e.g., lap times) by pressing [○].

3. Press <**Stop**> to stop the count.

 Press <**Reset>** to erase the recorded times.

Tasks

The Task function lets you create a list of tasks to be completed or "to-do list". When a task has been completed, you can check it off as done.

Entering New Tasks

1. From the Idle screen, press [⊙] and select **Media** → **Tools** → **Tasks**.

2. Press <**Options**> and select **Create**.

3. In the **Title** text box, give the task a name.

4. In the **Details** text box, describe the task. The entry can be up to 100 characters long.

5. Highlight **Start Date**. Using the numeric keypad, enter the start date.

6. Highlight **Due Date**. Using the numeric keypad, enter the due date.

7. To enable a warning alarm for a task, highlight **Alarm** and press [⊙] to enable the alarm. Similarly, highlight **Alarm Date** and use the numeric keypad to set the date you want the alarm to occur, then highlight **Alarm Time** and set the alarm time. Select **Alarm Tone**, press [⊙] to open the Media menu and select **Ring Tunes**. To play any of the available tones, highlight the name and press [⊙], then press <**Back**> to return to the menu. Highlight the tone you wish to use, press <**Options**> and select **Select**.

8. Highlight **Priority** and use the left and right navigation keys to set a priority level (1, 2 or 3).

9. Press [⊙] or press <**Options**> and select **Save**.

To View Tasks

1. From the Idle screen, press [⊙] and select **Media** → **Tools** →
   Tasks. Icons at the right side of the screen indicate the priority level
   and when an alarm is set.

2. To view the details of a specific task, press [⊙] key or press
   <**Options**> and select **View**.

To Mark a Task as Completed

1. Highlight the task in the task list.

2. Press <**Options**> and highlight **Done**. Press <**Select**> or [⊙].

   A check mark is placed in the box at the left side of the task.

Task Options

From the Tasks menu, you can access the following options by pressing
<**Options**>:

◆ **View:** Lets you view the details of the highlighted task.

◆ **Create:** Lets you create new tasks.

◆ **Send via:** Allows you to send the highlighted task as a message or to a
  compatible Bluetooth device.

◆ **Done/Not Done:** Lets you indicate if a task is done or not.

◆ **Sort by:** Lets you sort tasks by Due date, Priority or Done status.

◆ **Delete:** Lets you delete the Selected file, Multiple files, or Done files.

◆ **Save to Media:** Saves the task details to the Other Files folder.

◆ **Print via Bluetooth:** Lets you print the task details using a
  Bluetooth-enabled printer.

◆ **Missed Alarm Event:** Lists the scheduled task entries that you have
  missed.

◆ **Memory Status:** Shows the number of tasks in your phone and space
  left. The maximum number of tasks is 20.

Notes

Notes lets you create and save text files up to 100 characters that can be viewed later. You can also send a note to someone else via Bluetooth.

To create and save a note:

1. From the Idle screen, press [⊙] and select **Media** → **Tools** → **Notes**. A list of existing notes is displayed.

2. Press <**Options**> and select **Create**.

3. Type your note in the message window. For further information on entering characters, see "Entering Text" on page 36. The remaining number of character spaces is indicated at the lower right side of the display.

4. To save the note, press [⊙] or press <**Options**> and select **Save**.

From the Notes screen, you can access the following options by pressing <**Options**>:

♦ **View:** Allows you to view the contents of a note.

♦ **Create:** Allows you to create a new note.

♦ **Send via:** Allows you to send the note to someone else as a message or via Bluetooth.

♦ **Delete:** Allows you to delete the selected note or multiple notes.

♦ **Save to Media:** Saves the note file to the Other Files folder. The note creation date is added to the file name.

♦ **Print via Bluetooth:** Lets you print the task details with using a Bluetooth-enabled printer.

♦ **Memory Status:** Shows the number of notes in your phone and space left. The maximum number of notes is 20.

Tip Calculator

The tip calculator helps you calculate the tip on a meal or service and split the bill between the number of people paying. To use the calculator:

1. From the Idle screen, press [◉] and select **Media** → **Tools** → **Tip Calculator**.

2. Using the numeric keypad and [✱] (to enter the decimal point), enter the total amount of the bill in **Bill.**

3. If you want a percentage other than the default 15%, choose **Tip (%)** and enter the new value.

4. If more than one person is paying, choose **# paying** and enter the number.

The total amount of the tip is shown in **Tip ($)** and the amount each person pays in **You pay**.

Converter

Using the Converter, you can determine many unit conversions.

1. From the Idle screen, press [◉] and select **Media** → **Tools** → **Converter**.

2. Select the conversion type required (Currency, Length, Weight, Volume, Area or Temperature) and press <**Select**> or [◉].

3. Use the left and right navigation keys to select the original unit type.

4. Choose the amount field and enter the amount to convert. Use [✱] to insert a decimal.

5. Use the up and down navigation keys to move to the second Unit field and the right and left navigation keys to select the final unit type.

6. The converted value is displayed below the final unit type.

♦ To reverse the direction of the conversion, press <**Options**> and select **Reverse**.

◆ To change the amount to be converted, scroll to the amount field and enter the new value using the numeric keypad.

◆ To perform a different conversion, press <**Back**> to return to the Converter menu.

To change the preset currency conversion rates, press <**Options**> and select **View Rate.** Use the Left and Right navigation keys to select the base rate to be used. Use the up and down navigation keys to select the value to be changed. Press [◉], change the value as required using the keypad, and press <**Save**> or [◉].

Timer

The Timer allows you to count down from a preset time to zero. A series of tones plays when the time reaches zero.

To start the timer:

1. From the Idle screen, press [◉] and select **Media → Tools → Timer**.

2. Press <**Set**>.

3. Using the numeric keys, enter the number of hours, minutes and seconds that you wish to count down, then press <**OK**>.

4. Press [◉] to start the timer.

To pause the countdown, press [◉].

When the count reaches 0, an alarm sounds and Time Out displays on the screen. Press <**OK**> to cancel the alarm and message.

Other Files

This folder provides a location where you can store other types of files on your phone, such as spreadsheets, text files and presentations. You can send these files to others by message or Bluetooth. You can also move or

copy files to your memory card. For information on transferring files to and from your phone or a memory card, see "Transferring Files" on page 40.

To open the Other Files folder:

1. From the Idle screen, press [⊙] and select **Media** → **Other Files.**

   If there is a memory card in your phone, you can access files stored in your phone or on the card using the Left and Right navigation keys to switch between **On Phone** and **On Card**.

While in the Other Files folder, press <**Options**> to access the following options (availability depends on the type of file currently highlighted):

◆ **View:** Lets you view the contents of the selected file.

◆ **Send via Bluetooth:** Lets you send the selected file to a Bluetooth-enabled device.

◆ **Move:** Lets you move one or more files to another location in the phone or a microSD memory card if one is inserted. Highlight the location you want to move the file(s) to and press [⊙].

◆ **Copy:** Lets you copy one or more files to another location in the phone or a microSD memory card if one is inserted. Highlight the location you want to copy the file(s) to and press [⊙].

◆ **Delete:** Lets you delete the selected file, multiple files or all files.

◆ **Rename:** Lets you change the name of the selected file.

◆ **Create Folder:** Lets you create a subfolder.

◆ **Sort by:** Lets you arrange all your files by Date, Type, Name, or Size.

◆ **Bluetooth Visibility:** Allows the file to be shared or released for use with another Bluetooth device. (Note: only appears when you are accessing files on the phone).

◆ **Lock/Unlock**: Locking prevents the file from being accidentally deleted. A locked file must be unlocked before it can be deleted. (Note: only appears when you are accessing files on the phone).

◆ **Properties:** displays all the properties of the currently selected file.

Memory Status

The Memory Status menu allows you to view the memory usage and available space in your phone and on an inserted microSD card. It displays the total memory used and available as well as the memory usage for each storage folder.

To view Memory Status:

1. From the Idle screen, press [ⓞ] and select **Media** → **Memory Status.**

2. Use the left or right navigation key to toggle between On Phone and On Card.

Document Viewer

Your phone includes the NetFront Document Viewer from ACCESS Co. that enables full viewing of Microsoft Office documents (Word, Excel® and PowerPoint®), PDF files and text files with selectable zooming and rotation features.

To view a file, highlight it and press [ⓞ] or press <**Options**>, highlight **View** and press <**Select**> or [ⓞ].

While viewing a file, the following options are available:

- ♦ **Full Screen View:** Displays the document using the full phone screen. Shortcuts are indicated at the edges of the screen (see below).
- ♦ **Zoom:** Allows you to zoom In (magnify the page) or Out (view more of the page).
- ♦ **Fit to Screen:** Allows you to fit the entire page, the full width of the page, or the full height of the page on the phone screen.
- ♦ **Go to:** Changes the displayed page to Previous Page, Next Page, First Page, Last Page, or Page (allows entry of a page number).
- ♦ **Rotate:** Rotates the document 90°.

♦ **Screen Panning:** Lets you move the screen view around the document using the navigation keys.

♦ **Search:** Allows you to locate specific text in the document.

♦ **Send via:** Lets you send the selected file to a Bluetooth-enabled device.

♦ **Delete:** Allows you to delete the file.

♦ **Bluetooth Visibility:** Allows the file to be shared or released for use with another Bluetooth device. (Available only when file is stored on the phone).

♦ **Lock/Unlock:** lets you lock the file to prevent accidental deletion and unlock locked files to allow deletion (not available when viewing files stored on a memory card).

♦ **Properties:** Displays the properties of the selected file, including size, format, forwarding (possible or not), creation date and time, and location.

♦ **FileViewer Shortcuts:** Provides a list of shortcuts that allow you to directly access viewer options.

Keypad shortcuts include.

1	When using the Search function, takes you to the previous occurrence of the word or phrase
2_{ABC}	Go to first page
3_{DEF}	When using the Search function, takes you to the next occurrence of the word or phrase
4_{GHI}	Go to previous page
5_{JKL}	Rotate
6_{MNO}	Go to next page
8_{TUV}	Go to last page
$\# \, \S$	toggles between regular and full screen view

You can also use the volume keys to zoom in and out on the page.

Games and Apps

Using the Games and Apps menu (**Menu 3**) you can play games already stored on your phone, as well as download games and other applications from your service provider.

Games

Get New Games

1. From the Idle screen, press [◎] and select **Games and Apps** → **Get New Games.** The browser launches and opens the Games screen.

Follow the on-screen options to select and download a file.

Press <**Options**> to access browser options (see "Using the Internet Browser" on page 113). Downloaded games are added to the Games and Apps menu.

Game Options

When a game is highlighted in the **Games and Apps** screen, you can access the following options by pressing <**Options**>:

♦ **Start:** Starts the game.

♦ **Delete:** Lets you delete the Selected game, Multiple games or All games (downloaded games only).

♦ **Rename**: Lets you rename the selected game (downloaded games only).

♦ **Lock/Unlock:** Allows you to lock the file so it can not be deleted (downloaded games only). Files must be unlocked before they can be deleted.

♦ **Connections:** Press <**Options**> and select Edit to view and change network settings (Set Name, Access Name, Auth Type, User ID,

Password, Protocol, Home URL, Proxy address, Port, Linger Time, Advanced Settings).

♦ **Properties:** displays the properties of the selected game, including Size, Version, Supplier, Creation Date and Time, Description and Location.

Play a Game

To play a game:

1. From the Idle screen, press [◎] and select **Games and Apps**.

2. Scroll to the game you want to play and press [◎] or press <**Options**> and select <**Start**>.

3. The game's welcome screen displays information about the game. Follow the on-screen instructions to play the game.

Game Controls

While playing a game, to	Press the
adjust the sound volume	Volume keys
exit the game	🔚 key
highlight an option in a list	Navigation keys
select an option	◎ key

Get New Applications

This selection allows you to download applications from your service provider.

1. From the Idle screen, press [◎] and select **Games and Apps** → **Get New Applications.**

2. Follow the on-screen options to select and download a file.

Downloaded applications are added to the Games and Apps menu.

Press <**Options**> to access browser options (see "Using the Internet Browser" on page 113).

Call History

In this menu (**Menu 4**), you can:

♦ View calls you missed, received or dialed

♦ Add phone numbers from your call history to Speed Dial

♦ View the length of calls made and received

While in any of the call lists, press <**Options**> to access the following functions:

♦ **Details:** View call details (phone number, date and time of call).

♦ **Call Back:** Calls the highlighted number.

♦ **Save to Contacts:** Saves the number to Contacts, either on your SIM card or phone.

♦ **Send Message:** Lets you send a message to the caller.

♦ **Delete:** Lets you delete the selected call or all calls from the list.

♦ **Add to Reject List:** Adds the phone number the selected call was made from to the Reject List. To view and configure your reject list, see "Enable and Configure Auto Reject" on page 136.

♦ **View Contact Details:** Displays the contact information of the other person on the call (only appears when contact information is available).

All Calls

This menu (Menu 4.1) lets you view a list of calls made and received, including missed calls. Icons at the left of each listing indicate whether the call was made ( ), received ( ) or missed ( ).

1. From the Idle screen, press [ ] and select **Call History** → **All Calls.**

2. Scroll through the list and press [ ] or press <**Options**> and select **Details** to view call details, including number, time and date.

Missed Calls

This menu (Menu 4.2) lets you view a list of calls you received but did not answer.

1. From the Idle screen, press [☉] and select **Call History** → **Missed Calls.**

2. Scroll through the list and press [☉] or press <**Options**> and select **Details** to view call details. The number is displayed along with the time and date when the call was made.

Calls Made

This menu (Menu 4.3) lets you view a list of the numbers you dialed.

1. From the Idle screen, press [☉] and select **Call History** → **Calls Made.**

2. Scroll through the list and press [☉] or press <**Options**> and select **Details** to view call details. The number is displayed along with the time, date and duration of the call.

Calls Received

This menu (Menu 4.4) lets you view a list of calls you answered.

1. From the Idle screen, press [☉] and select **Call History** → **Calls Received.**

2. Scroll through the list and press [☉] or press <**Options**> and select **Details** to view call details. The number is displayed along with the time, date and duration of the call.

Speed Dial List

Using Speed dial (Menu 4.5), you can assign up to eight phone numbers from your Contact list that you use most frequently to the number keys 2 to 9, and then dial them whenever you want simply by pressing and holding the associated number key.

Note: Speed dial key 1 is reserved for your Voice Mail server number.

To add a speed dial entry:

1. From the Idle screen, press [◎] and select **Call History** → **Speed Dial List**. A virtual representation of your keypad appears onscreen with existing speed dial entries shown within their associated key.

2. Highlight the keypad number you want to associate with a speed dial number, press <**Options**> and select **Add**.

3. Select either **Contacts** or **FDN Contacts** to choose an entry (Fixed Dial Number mode, if enabled, restricts outgoing calls to phone numbers stored in the FDN List).

4. Choose an entry from the list and press [◎] or <**Select**>. The virtual keypad reappears with the new speed dial entry appearing in its associated key.

When an existing Speed Dial entry is highlighted, the following options are available by pressing <**Options**>:

♦ **View:** Allows you to view the number assigned to the key. You can dial the number by pressing the key.

♦ **Change:** Allows you to assign a different number to the key.

♦ **Call:** Dials the selected speed dial number to start a call.

♦ **Remove:** Allows you to clear the setting so that no number is assigned to the key. Press <**Yes**> to confirm number removal.

Using Speed Dial

From Idle mode, you can speed-dial the numbers assigned to numeric keys 2 to 9 by pressing and holding the key until the phone begins dialing.

Delete All

This menu (Menu 4.6) allows you to delete all records in one or more call record types.

1. From the Idle screen, press [◎] and select **Call History** → **Delete All**.
2. Highlight the type(s) of records you want to delete and press[◎] to enter a check mark in the selection box at the left side.
3. Press <**Delete**> and when a message displays asking you to confirm the deletion, press <**Yes**> to confirm.

Call Time

This menu (Menu 4.7) lets you view the timers for voice calls you made and received.

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

The following timers are available:

♦ **Last Call Time:** Length of the last voice call.
♦ **Total Sent:** Total length of all calls made from this phone.
♦ **Total Received:** Total length of all calls received on this phone.
♦ **Total Time:** Total length of time on all calls sent and received.

To reset Last Voice Call Time, press <**Reset**>. Enter the phone password and press <**Confirm**> or [◎].

Vision

The Vision menu (**Menu 5**) allows you to access numerous online services, including Video/Radio, Mobile TV, Rogers Music Player, Friends, MobileMail, Internet and More Services.

Note: These services are provided and maintained by Rogers and some of them require paid subscription. They are not specific to your phone. Contact your service provider on consult the insert provided with your phone for additional information.

Video/Radio

This selection (Menu 5.1) accesses a page of links to numerous online video and radio services.

1. From the Idle screen, press [ⓞ] and select **Vision** → **Video/Radio.**

2. Follow the online instructions shown on your display.

Mobile TV

This selection (Menu 5.2) accesses Rogers Mobile TV.

1. From the Idle screen, press [ⓞ] and select **Vision** → **Mobile TV.**

2. Follow the online instructions shown on your display.

Rogers Music Player

This menu (Menu 5.3) accesses the Java-powered Rogers Music Player, which lets you play music you have downloaded from your service provider or loaded from your PC to your phone or Micro SD memory card.

1. From the Idle screen, press [ⓞ] and select **Vision** → **Rogers Music Player.**

2. Use the navigation keys corresponding to the screen icons to access the Search, Download, Library and Settings menus. Press [⊙] to play.
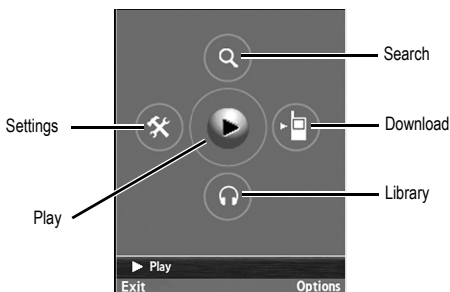
Press <**Options**> to access additional music player functions, including online Help.

Friends

Friends (Menu 5.4) opens the Rogers Friends page.

1. From the Idle screen, press [⊙] and select **Vision → Friends.**

Follow the online instructions shown on your display.

MobileMail

MobileMail (Menu 5.5) lets you send email to any email address. Recipients can access your emails from email-equipped phones or from their computers. The messages you create can contain text only.

Your phone allows selection of three online email services: Rogers Yahoo! Mail, Yahoo! Mail or Windows Live Hotmail. Follow the online instructions shown on your display after you launch this service.

Internet

Internet (Menu 5.6) opens the Web browser and accesses the Rogers Zone home page.

1. From the Idle screen, press [◎] and select **Vision** → **Internet.**

2. Follow the online instructions shown on your display.

For more information on using the Web browser, see "Using the Internet Browser" on page 113.

More Services

More Services (Menu 5.7) opens opens the Web browser and accesses the More Services page.

1. From the Idle screen, press [◎] and select **Vision** → **More Services.**

2. Follow the online instructions shown on your display.

Messages

From the Messages menu **(Menu 6)**, you can send and receive a range of different message types from your mobile phone, including:

♦ **Instant Message:** Rogers IM **(**Instant Messenger) lets you send and receive instant messages using Windows Live and Yahoo! communities.

♦ **Text Message:** Short Message Service (SMS) allows you to send text messages to another text messaging-capable phone.

♦ **Picture Message:** Multimedia Messaging Service (MMS) allows you to send messages containing text and graphics, video and audio attachments to another MMS capable phone or an email address.

♦ **MobileMail:** Lets you send and receive email messages.

♦ **Broadcast Messages:** messages received from your service provider containing information related to a specific area (cell).

You can also use your phone to access **Voice Mail** (recorded voice) messages.

Rogers IM

Instant Messaging or IM (Menu 6.1) is a way of sending short, simple messages that are delivered immediately to other users. To use this feature, you must be subscribed to a message service. For further details, contact your service provider.

Sign In

You phone must be signed in to an IM service in order to send and receive instant messages.To sign in to your instant messaging account:

1. From the Idle screen, press [◉] and select **Messages** → **Rogers IM**.
2. Choose the IM service you want to access (Windows Live or Yahoo!) and press [◉] or <**Save**>.

3. Choose **Sign In** and enter or change the required information (varies depending on the IM community you are accessing). If you want to save your password in the phone and enable Automatic Sign-In when the phone is switched on, highlight each item and press [ ] to place a check mark in the associated selection box.

Note: Saving your password can pose a security risk if your phone is lost or stollen.

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4. Press <**Options**> and select **Sign In**.

Send an Instant Message

After you sign in, follow the on-screen instructions to read, reply to, compose, and send messages, and to manage your IM account. Use the Options menu to perform tasks such as adding and blocking contacts or configuring your display name.

Sign Out

To sign out of your instant messaging account, highlight **Sign Out** on the Rogers IM screen and press <**Select**> or [ ].

Saved Conversations

This menu lists all saved IM conversations.

Settings

The following IM settings are available:

♦ **Choose Your Community:** Select Windows Live or Yahoo!

♦ **Community Settings:** Allows you to set Favorite IDs, Automatic Sign-in, Power On Sign In and Sound Settings (Receive Message, Contact Alert, System Message, Repetition, Message Tone).

♦ **Profile Settings:** The GoRogers network profile is selected. Press <**Options**> and select Edit to make any required changes to the settings.

Help

See the help screens for more information on using instant messaging.

MobileMail

MobileMail (Menu 6.2) lets you check your email and send email to any email address. Recipients can access your emails from email-equipped phones or from their computers. The messages you create can contain text, photos, videos and voice attachments.

Your phone allows selection of three online email services: Rogers Yahoo! Mail, Yahoo! Mail or Windows Live Hotmail.

Follow the online instructions shown on your display screen after you launch this service.

Note: This online service is provided and maintained by Rogers and requires paid subscription. It is not specific to your phone. Contact your service provider or consult the insert provided with your phone for additional information.

Create New Message

Use the Create new message menu (Menu 6.3) to compose new text (SMS) and picture (MMS) messages and send them to other messaging-capable phones.

Create and Send a Text Message

Note: When creating a text (SMS) message, adding elements such as a subject line or image, sound or video files automatically changes the message type to Picture (MMS). The icon in the top-left corner of the message creation screen indicates message type. Some cell phones do not accept picture messages.

To create and send a text message:

1. From the Idle screen, press [◉] and select **Messages** → **Create New Message**.

2. Enter the recipient's mobile phone number in the address box.

   ♦ You can enter additional recipients by pressing the right navigation key to move the cursor to the right of the semicolon (;).

   ♦ You can also press <**Options**> and select **Add Recipient** to add recipients from your Recent Log, Contacts or Group lists.

     • **Recent Log:** allows you to choose from a list of recent calls. Highlight a required entry and press [◉] to place a check mark next to the entry. Use the same procedure to select any additional recipients, then press <**Add**> to add the recipients to the address box.

     • **Contacts:** allows you to insert recipients from your Contacts list. To find a specific name, begin entering the letters of the name. As you type, the first Contacts entry matching your input is highlighted. To select a different entry, press the up or down navigation key until the entry you want is highlighted. Press [◉] to place a check mark next to the entry. Use the same procedure to select any additional recipients, then press <**Done**> to add the recipients to the address box.

     • **Groups:** allows you to insert Group members from your Contacts list. Highlight a Group and press [◉] or <**Select**> to open the Group. Use the up and down Navigation keys to highlight a name and press [◉] to place a check mark next to the entry. Use the same procedure to select any additional recipients, then press <**Done**> to add the recipients to the address box.

3. Type your message in the message window. The number in the bottom right corner of the screen displays the number of characters still available. For further information on entering characters, see "Entering Text" on page 36.

While you are composing your text message, press <**Options**> to select any of the following:

◆ **Send:** Sends the message.

◆ **Text:** Lets you turn text selection on. When Text selection is on, you can use the navigation keys to highlight text, then press [○] and select Text again to access Cut, Copy and Remove functions. After text is cut or copied, press [○] to access Paste function.

◆ **Add Item:** Lets you add an image, sound, or video file to the message (Note: this changes the message to a picture message).

◆ **Create Item:** Lets you take a picture or record a sound or video file to be sent in the message (Note: this changes the message to a picture message). For information on the camera, audio recorder or camcorder, see "Tools" on page 61.

◆ **Insert:** Allows you to insert text from a Text Template, a Text Emoticon, contact information from the Contacts, or a bookmarked URL from Bookmarks.

◆ **Add Recipient:** Lets you add recipients from your Contacts or Group lists, or from you Recent Log.

◆ **View Recipient List:** Provides a list of all recipients of the message.

◆ **Change to Picture Message:** Converts the current message to a picture message.

Note: Send picture messages only to those recipients whose phones you know support the receipt and display of this message type.

◆ **Add/Delete Page:** Adds or deletes a page to/from the message. Pages are delineated by a dotted line in the message text box. The current page is indicated in the bottom-left corner of the screen.

◆ **Input Language:** Allows you to temporarily change the input language used to create your message between English and Français (French).

◆ **Input Method:** Allows you to change the input method for adding text, numbers and symbols to your message. For more information, see "Changing the Text Input Mode" on page 36.

◆ **Add Subject:** Takes you to the Subject text box where you can add a subject to the message (Note: this changes the message to a picture message).

◆ **Add Attachment:** Lets you attach various kinds of information, including a file; a business card; and appointment, anniversary, private, holiday, important, tasks, notes and bookmarks from your calendar (Note: this changes the message to a picture message).

◆ **Sending Options:** Lets you configure default message settings. For information, see "Messages Settings" on page 147.

◆ **Save to Drafts:** Saves the message to the Drafts folder.

◆ **Save as Template:** Saves the message to the Template folder to be used in the future when creating similar messages.

4. When you finish entering your message, press <**Options**> or [⊙] select **Send**. Your phone sends the text message to all numbers listed.

Create and Send a Picture Message

Use the following procedures to compose and send new messages with graphics, video or audio attachments.

1. From the Idle screen, press [⊙] and select **Messages** → **Create New Message**.

2. Enter the recipient's mobile phone number in the address box.

◆ You can enter additional recipients by pressing the right navigation key to move the cursor to the right of the semicolon (;).

◆ You can also press <**Options**> and select **Add Recipient** to add recipients from your Recent log or your Contacts or Group lists.

- **Recent Log:** allows you to choose from a list of recent calls. Highlight a required entry and press [ⓞ] to place a check mark next to the entry. Use the same procedure to select any additional recipients, then press <**Add**> to add the recipients to the address box.

- **Contacts:** Allows you to insert recipients from your Contacts list. To find a specific name, begin entering the letters of the name. As you type, the first Contacts entry matching your input is highlighted. To select a different entry, press the up or down navigation key until the entry you want is highlighted. Press [ⓞ] to place a check mark next to the entry. Use the same procedure to select any additional recipients, then press <**Done**> to add the recipients to the address box.

- **Groups:** Allows you to insert Group members from your Contacts list. Highlight a Group and press [ⓞ] or <**Select**> to open the Group. Use the up and down navigation keys to highlight a name and press [ⓞ] to place a check mark next to the entry. Use the same procedure to select any additional recipients, then press <**Done**> to add the recipients to the address box.

3. Highlight the message window, press <**Options**>, select **Change to Picture Message** and press <**Yes**> to confirm the change.

4. To add a subject to the message, press <**Options**> and select **Add Subject**. Enter the required text then press the down navigation key to return to the message screen.

5. Type your message. The number in the bottom-right corner of the screen displays the number of characters still available. For further information on entering characters, see "Entering Text" on page 36.

   While you are composing your message, press <**Options**> to select any of the following:

   ◆ **Send:** Sends the message.

   ◆ **Preview:** Allows you to preview the message before sending.

♦ **Text:** Lets you turn text selection on and off. When Text selection is on, you can use the navigation keys to highlight text then press [⊙] to access Cut, Copy and Remove functions. After text is cut or copied, press[⊙] to access Send and Paste functions.

♦ **Add Item:** Opens the Media menu to allow the addition of image, sound, or video files to the message. For information on using the Media menu, see "Media" on page 49.

♦ **Create Item:** Lets you take a picture or record a sound or video file to be sent in the message. For information on the camera, audio recorder or camcorder, see "Tools" on page 61.

♦ **Insert:** Allows you to insert text from a Text Template, a Text Emoticon, contact information from Contacts, or a bookmarked URL from Bookmarks.

♦ **Add Recipient:** Lets you add recipients from your Contacts or Group lists, or from you Recent Log.

♦ **View Recipient List:** Displays a list of all recipients of this message.

♦ **Change to Text Message:** Converts the current message to a text message.

♦ **Add/Delete Page:** Adds or Deletes a page to/from the message. Pages are delineated by a dotted line in the message text box. The current page is indicated in the bottom-left corner of the screen.

♦ **Input Language:** Allows you to temporarily change the input language used to create your message between English and Français (French).

♦ **Input Method:** Allows you to change the input method for adding text, numbers and symbols to your message. For more information, see "Changing the Text Input Mode" on page 36

♦ **Edit Style:** Allows you to change text and page styles, including page duration, background color, font color and font style.

♦ **Add Subject:** Takes you to the Subject text box where you can add a subject to the message.

♦ **Add Attachment:** Lets you attach a File or Business Card to your message, as well as Appointment, Anniversary, Private, Holiday, Important, Tasks, Notes, or Bookmarks information from your calendar.

♦ **View Attachment:** Lets you view attachments added to the message.

♦ **Sending Options:** Lets you configure default message settings. For information, see "Messages Settings" on page 147.

♦ **Save to Drafts:** Saves the message to the Drafts folder.

♦ **Save as Template:** Saves the message to the Template folder to allow use in the future when creating similar messages.

6. When you finish entering your message, press <**Options**> or [◉] and select **Send**. Your phone sends the picture message to all numbers listed.

Message Folders

All incoming and outgoing text and picture messages are saved in a series of folders on your phone.

♦ **Inbox (**Menu 6.4): Stores received text and picture messages.

♦ **Sent (**Menu 6.5): Stores messages you have sent successfully.

♦ **Outbox** (Menu 6.6): Temporarily stores messages and emails your phone is attempting to send. It also stores messages that you have created and configured to be sent in the future. Outbox messages are moved to the Sent folder after they are successfully sent.

♦ **Drafts (**Menu 6.7): Stores unsent messages and emails you have manually saved as drafts. You can access these drafts and send them at a later time.

♦ **My Folder (**Menu 6.8): Provides a customizable storage area for messages. You can create subfolders here and manually move messages into them from other folders. This is useful, for example, if you want to store personal messages and business messages separately.

♦ **Templates:** Accesses message files saved as templates. For information, see "Templates" on page 108.

Note: If the phone's memory is full, an error message displays and you cannot receive any new messages. Use the **Delete** option to delete obsolete messages in each message box.

View Messages

To view a message stored in one of the message folders:

1. From the Idle screen, press [◎] and select **Messages** → message folder (**Inbox**, **Sent**, **Outbox**, or **Drafts)**. The corresponding message list opens.

2. To open a message in the list, scroll to the message and press [◎] or press <**Options**> and select **View**.

Message Folder Options

While viewing a message list or a message, you can press <**Options**> to access a series of options (not all options are available in each menu):

♦ **View:** Allows you to view the selected message.

♦ **Play:** Plays a sound or video file received with a message.

♦ **Edit:** Lets you edit a message (Drafts or Outbox folders only).

♦ **Reply:** Allows you to reply to the selected message.

♦ **Send:** Allows you to send an unsent message.

♦ **Send Again:** Resends the selected message.

♦ **Reply to All:** Allows you to reply to the sender and other recipients of a message.

◆ **Forward:** Allows you to forward the message to someone.

◆ **Call Back:** Makes a voice call to the originating message number.

◆ **Preview:** Previews multimedia files attached to the message.

◆ **Delete:** Allows you to delete the Selected message, Multiple messages or All messages.

◆ **Move to Phone/Move to SIM**: If a message is stored in the SIM card, this option transfers it to the phone's memory. If a message is stored in the phone's memory, it is transferred to the SIM card.

◆ **Move to My Folder:** Lets you move messages to the My Folder storage area.

◆ **Sort by:** Allows you to sort messages by Sender, Read/Unread, Type, Subject, or Size or Lock/Unlock.

◆ **Save to Contacts:** Lets you add the sender of the selected message to your phone or SIM card contact list.

◆ **Save as Template:** Saves the message to the Template folder for use when creating similar messages.

◆ **Print via Bluetooth:** Allows you to print received messages to a Bluetooth-enabled printer.

◆ **Mark as Read:** Lets you mark unread files in the Inbox as read.

Templates

Templates let you save and reuse commonly used content for text and picture messages.

Create a Template

To create a template:

1. From the Idle screen, press [🔘] and select **Messages** → **Templates**.

2. Highlight **Text Templates** or **Picture Message Templates** and press <**Select**> or [ⓞ].

3. Press <**Options**> and select **Add New** to open a blank template (if the folder is empty, press <**Add New**>). Enter the text you want to save as a template.

   While the template screen is open, you can also press <**Options**> to access the following options:

   ◆ **Save as Template:** Saves the template file and adds it to the list of templates.

   ◆ **Preview:** Allows you to preview the message before sending.

   ◆ **Text:** Lets you turn text selection on and off. When Text selection is on, you can use the navigation keys to highlight text then press [ⓞ] to access Cut, Copy and Remove functions. After text is cut or copied, press [ⓞ] to access Send and Paste functions.

   ◆ **Add Item:** Opens the Media menu to allow the addition of image, sound, or video files to the message. For information on using the Media menu, see "Media" on page 49.

   ◆ **Create Item:** Lets you take a picture or record a sound or video file to be sent in the message (Note: this changes a text message to a picture message). For information on the camera, audio recorder or camcorder, see "Tools" on page 61.

   ◆ **Insert:** Allows you to insert text from a Text Template, a Text Emoticon, contact information from Contacts, or a bookmarked URL from Bookmarks.

   ◆ **Add/Delete Page:** Adds or Deletes a page to/from the message. Pages are delineated by a dotted line in the message text box. The current page is indicated in the bottom-left corner of the screen.

   ◆ **Input Language:** Allows you to temporarily change the input language used to create your message between English and Français (French).

♦ **Input Method:** Allows you to change the input method for adding text, numbers and symbols to your message. For more information, see "Changing the Text Input Mode" on page 36.

♦ **Edit Style:** Allows you to change text and page styles, including page duration, background color, font color and font style.

♦ **Add Attachment:** Lets you attach various kinds of information, including a File; a Business Card; Appointment, Anniversary, Private, Holiday, Important, Tasks, and Notes information from your calendar; or Bookmarks.

♦ **View Attachment:** Lets you view attachments added to the message.

4. To save the template, press <**Options**> and select **Save as Template**.

Use a Template

To access templates:

1. From the Idle screen, press [⊙] and select **Messages** → **Templates**.

2. Highlight **Text Templates** or **Picture Message Templates** and press <**Select**> or [⊙].

3. Scroll to a template and press [⊙] to enter the text directly into a new text message or <**Options**> to access the following options:

♦ **View:** Lets you preview the content of the template (picture message only).

♦ **Send**: Allows you to compose a message with the template content inserted into the body of the message. For further details on sending messages, see "Messages" on page 98.

♦ **Add New:** Lets you create a new template.

♦ **Edit**: Allows you to edit the template text.

◆ **Delete**: Allows you to delete the selected template or all templates. Press <**Yes**> to confirm the deletion.

Voice Mail

These menus allows you to access your voice mailbox, if your account supports this service.

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

Configure Voice Mail

In order to use your phone's Voice Mail feature, you must have a valid voice server number configured in your SIM card by your service provider. To check your voice mail number:

1. From the Idle screen, press [◎] and select **Messages** → **Voice Mail** → **Voice Mail Number**.

2. Press <**Back**> to return to the Voice Mail screen.

Listen to Voice Mail

To listen to your voice mail messages:

1. From the Idle screen, press [◎] and select **Messages** → **Voice Mail** → **Connect to Voice Mail**. Your phone connects to the mail server.

2. Follow the recorded instructions to listen to your messages.

Note: You can also automatically dial voice mail directly from the Idle screen by pressing and holding [1 ∞]

Delete All

Use this menu to delete groups of messages:

1. From the Idle screen, press [⊙] and select **Messages** → **Delete All**.

2. Use the navigation keys to move through the list of folders and press [⊙] to check/uncheck categories of messages.

3. Press <**Delete**> to delete messages in all checked categories. Press [⊙] to check or uncheck the Delete Locked Messages selection box, if required, then press <Yes> to confirm the deletion.

Messages Settings

This menu lets you configure various options for using text and picture messaging services. To access the **Messages Settings** menu:

1. From the Idle screen, press [⊙] and select **Messages** → **Messages Settings**.

For details on the various messages settings, see "Messages Settings" on page 147

Memory Status

The Memory Status menu allows you to view the usage and available memory in your phone. It displays the total memory used and available as well as the memory usage for each storage folder.

To access the **Memory Status** menu:

1. From the Idle screen, press [⊙] and select **Messages** → **Memory Status**.

2. Use the left or right navigation key to toggle between Picture Message**,** Text Message, Push Message, Broadcast Message, and Configuration Message.

Internet

This menu selection **(Menu 7)** opens the Internet Browser and automatically accesses the Rogers home page. You can also view other Internet sites, view sites saved as Bookmarks, create Bookmarks, clear your cache or manage cookies.

Accessing an Internet Site

There are three ways to access an Internet site:

◆ Select a link on the screen
◆ Enter the Web address directly on the phone screen (see "Go to URL" in "Browser Options" on page 114).
◆ Select a bookmark in the Bookmarks list (see "Bookmarks" on page 115).

Using the Internet Browser

While using the Internet Browser, the following navigational controls are available:,

To	Press
scroll through and select browser items	up or down navigation keys until the item is highlighted, then press[ⓞ] to confirm
select a numbered item	corresponding numeric key
return to the previous page	<**Back**> or [⎵ᴄ]
return to the startup homepage	<**Options**> and select **Go to Homepage**
exit the browser	[🕾]

Entering Text in the Internet Browser

When you are prompted to enter text, the current text input mode is indicated at the upper right side of the screen. See "Entering Text" on page 36 for more information.

Browser Options

While using the Browser, press <**Options**> to access the following functions:

◆ **Go to URL:** Opens Web page where you can enter a site URL and access the site (contact your service provider for details).

◆ **Go:** Lets you navigate through pages in your browsing history, either Forward (next sequenced web page) or Backward (previously visited web page).

◆ **Reload:** Reloads the current page.

◆ **Desktop/Smart-Fit View:** Changes the display mode of the browser.

◆ **Page Size:** Lets change the size of the displayed web page by zooming using the left and right navigation keys.

◆ **Go to Homepage:** Opens the Rogers homepage.

◆ **Add to Bookmarks:** Adds the current page to your Bookmarks list.

◆ **View Bookmarks:** shows your Bookmarks list (see "Bookmarks" on page 115 for more information on using Bookmarks).

◆ **Send URL via:** Sends the URL of the current page via either a message or to another party via a Bluetooth device.

◆ **Copy URL to Message:** Sends the URL of the current page to another party as a message.

◆ **History:** Displays a list of web pages you have recently accessed.

◆ **Show URL:** Displays the details of the Web page currently appearing in the browser, including Title, Address, Size, MIME Type, and Last Updated.

♦ **Advanced:** Allows you to change the following settings for the browser.

- **Clear Caches:** Deletes the information stored in the phone's memory caches (temporary memory where recently accessed web pages are stored).
- **Empty Cookies:** Delete cookies. Cookies are pieces of personal information sent to a web server while navigating the web.
- **Cookie Options:** Sets whether or not cookies are stored on your phone. You can Accept All, Reject All, or choose to be prompted to accept or reject each cookie received.
- **Preferences:** Preferences let you configure how your browser handles multimedia content and web scripts. You can choose whether or not to Run JavaScript, Display Images and Play Sound.
- **Certificates:** Accesses certificate information from your phone.
- **Browser Settings:** Selects a connection profile to be used when connecting to the Internet.
- **About Browser:** Displays the version and copyright information for the browser.

♦ **Exit:** Exits from the browser.

Bookmarks

Bookmarks let you directly access your favorite Internet sites.

Go to Bookmarks

1. With the browser open, press <**Options**> and select **View Bookmarks**.
2. Scroll to the bookmark you want to access and press [◎] or press <**Options**> and select **Go to**.

While in the View Bookmarks menu, press <**Options**> for the following choices:

♦ **Go to**: Accesses the bookmarked page.

- ◆ **Edit Bookmarks:** Lets you edit the title and/or URL of the selected bookmark.
- ◆ **Add Bookmarks:** Lets you directly enter a title and URL for a bookmark and save the bookmark.
- ◆ **Send URL via:** Send the URL of the current page via a message or Bluetooth.
- ◆ **Copy URL to Message:** Copies the URL into the body of a message.
- ◆ **Save to Media:** Saves the URL to the Other Files folder in the Media menu.
- ◆ **Delete**: Removes the selected bookmark or all bookmarks.

Store a Bookmark

Use the following procedure to store the URL of a page you have accessed in you Bookmarks list.

1. With the Browser open and displaying the page, press <**Options**> and select **Add to Bookmarks**. The message "Bookmark Saved" displays to confirm that the bookmark was successfully stored.

Edit a Bookmark

Use the following procedure to edit the name or URL of a Bookmark stored in your Bookmarks list:

1. With the browser open, press <**Options**> and select **View Bookmarks**.
2. Choose the Bookmark you want to change, press <**Options**> and select **Edit Bookmarks**.
3. Change the Title and URL as required.
4. Press <**Save**> or [◎] to save the changes.

Deleting Bookmarks

Use the following procedure to delete a Bookmark from your list:

1. With the browser open, press <**Options**> and select **View Bookmarks**.

2. Choose the Bookmark you want to delete.

3. Press <**Options**> and select **Delete** → **Selected**.

4. Press <**Yes**> or [⊙] to confirm the deletion.

To delete all favorites:

1. With the browser open, press <**Options**> and select **View Bookmarks**.

2. Press <**Options**> and select **Delete** → **All**.

3. Press <**Yes**> or [⊙] to confirm the deletion.

Contacts

The Contacts menu (**Menu 8**) is used to manage your contact list. You can store names and phone numbers in both your SIM card and your phone's memory, which are physically separate but both used to create the contact list. You can also create contact groups and assign speed dial numbers to your numeric keypad.

Note: When you change phones, numbers stored in your SIM card memory are automatically available with the new phone, whereas numbers stored in the phone's memory must be re-entered or transferred using a data kit accessory. However, contacts stored on the phone may include additional details that can not be stored on the SIM card.

Find Contact Information

To view the stored information for a contact:

1. From the Idle screen, press [ⓞ] and select **Contacts**.

2. Begin entering the letters of the name. As you type, the first entry matching your input is highlighted. To select a different entry, scroll through the list until the entry you want is highlighted.

3. Press 〔◝〕 to dial the number or [ⓞ] to view the contact information.

Contact List Options

While accessing the Contacts list, press <**Options**> to use any of the following options:

♦ **View:** Lets you view the information for the highlighted contact.

♦ **Add New Contact:** Allows you to create a new contact. See "Add New Contact" on page 120 for more information.

♦ **Call:** Allows you to place a call to the highlighted contact.

♦ **Send Message:** Allows you to send a text message or picture message to this contact.

♦ **Edit:** Allows you to edit the content of this contact entry. Press [◎] to save changes.

♦ **Duplicate:** Allows you to duplicate a selected entry. This can save time when creating a new contact with similar information to an existing entry. Use the Edit option (see above) to alter the information as required.

♦ **Delete:** Allows you to delete the selected Contacts entry or multiple entries.

♦ **Save to Media:** Saves a copy of the contact as a .vcf file in your Other Files folder in the Media menu.

♦ **Send Business Card via:** Allows you to send your Business Card to the selected entry either in a message or via Bluetooth.

♦ **My Business Card:** Opens the My Business Card screen (see "My Business Card" on page 124).

♦ **Assign Speed Dial:** Allows you to set a speed dial key for this entry.

♦ **Copy to Phone/SIM:** Allows you to copy either the selected contact or multiple contacts from the phone to the SIM card or from the SIM card to the phone.

♦ **Move to Phone/SIM:** Allows you to move either the selected contact or multiple contacts from the phone to the SIM card or from the SIM card to the phone.

♦ **Service Number:** Opens the Service Number menu.

♦ **FDN Contacts:** Allows you to search through the list of your FDN contacts.

♦ **Copy to FDN Contacts:** Allows you to copy the entry to the FDN section of the SIM card.

♦ **Print via Bluetooth:** Allows you send the selected contact entry information to a Bluetooth-enabled printer.

♦ **Contacts Settings:** Accesses the settings menu. For more information, see "Contact Settings" on page 152.

♦ **Memory Status:** Allows you to view the amount of memory allocated and available for the Phone, SIM Card and FDN list.

Add New Contact

Use the following procedures to store a new contact to your phone or SIM card.

Note: The default mode for saving contacts saves to Phone Memory. To set it to SIM Memory or Always Ask, see "Contact Settings" on page 152.

Storing a Number in the Phone's Memory

1. Enter the phone number you want to store directly on the Idle screen.

2. Press <**Options**> and select **Save to Contacts**.

3. If the saving mode is set to Always Ask, the Save to screen appears. Choose **Phone** and press <**Select**> or [⊙].

4. Select **New** if this is a new contact or **Update** if you want to change an existing contact, then press <**Select**> or [⊙].

5. Highlight the type of contact you want to save (Mobile Private, Mobile Business, Landline Private, Landline Business, Fax or Etc.) and press <**Select**> or [⊙]. The Add New Contact screen opens.

Note: You can also access the Add New Contact screen from the Contacts menu. Press <**Options**> and select **Add New Contact**.

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6. In the Add New Contact screen, enter the information you want to save for this contact. The following fields are available for input:

♦ **First Name:** For recording the contact's first name.

♦ **Last Name:** For recording the contact's last name.

♦ **Display Name:** The name that appears when you receive a call from this contact.

◆ **Mobile - Private:** Allows entry of a mobile phone number or, if you already entered a number, it appears here. To change the number type (Mobile - Business, Landline - Private, Landline - Business, Fax or Etc.) press <**Options**> and select **Change Type**. Use the left and right navigation keys to select the type and corresponding icon, then press <**Select**> or [⊙].

◆ **Landline - Private:** Allows you to enter a landline number for this contact. To change the number type (Mobile - Provate, Mobile - Business, Landline - Business, Fax, Etc.) press <**Options**> and select **Change Type**. Use the left and right navigation keys to select the type and corresponding icon, then press <**Select**> or [⊙].

◆ **E-Mail:** For recording an e-mail address.

◆ **Group:** Lets you assign this contact to group. Press [⊙] to open the Groups screen. Highlight a group and press <**Select**> or [⊙].

◆ **Caller ID:** Lets you choose a graphic Caller ID for this contact. Highlight the Graphic ID icon and press [⊙] to open the Media menu and select a graphic. For information on using the Media menu, see "Media" on page 49.

◆ **Ring Tune:** Allows you to choose a ring tune that plays when this contact calls. Highlight the Ring Tune icon and press [⊙] to open the Media menu. Highlight Ring Tunes and press <**Select**> or [⊙]. For information on selecting a ring tune, see "Ring Tunes" on page 51.

◆ **Instant Messaging:** Allows you to assign an Instant Message profile to this entry.

◆ **Notes:** Lets you add any other information you wish to record with this contact.

Note: You can change any number type designation (Mobile, Landline, Fax, Etc.). Press <**Options**> and select **Change Type**. Highlight the required type and press <**Select**> or [⊙].

For information on text and numeric entry, see "Entering Text" on page 36.

7. To save the information, press [◉] or press <**Options**> and select **Save**.

Storing a Number in the SIM Card

1. Enter the phone number you want to store directly on the Idle screen.

2. Press <**Options**> and select **Save to Contacts**.

3. If the saving mode is set to Ask on Saving, the Save to screen appears. Highlight **SIM Card** and press <**Select**> or [◉].

4. Select **New** if this is a new contact, **Update** if you want to change an existing contact, then press <**Select**> or [◉]. The Add New Contact screen opens.

Note: You can also access the Add New Contact screen from the Contacts menu. Press <**Options**> and select **Add New Contact**.

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5. Enter the information you want to save for this contact. The following fields are available for input:

   ◆ **Name:** For recording the contact's name.

   ◆ **Phone Number:** Allows entry of a phone number or, if you already entered a number, it appears here.

   ◆ **Group:** Lets you assign this contact to group. Press [◉] to open the Groups screen. Highlight a group and press <**Select**> or [◉].

   ◆ **Location:** Allows you to assign a location on your SIM for the contact being entered. The default is the next available SIM location.

6. To save the information, press [◉] or press <**Options**> and select **Save**.

Groups

Using Groups you can organize your contacts into groups such as Business, Family and Friends. You can also assign a unique Caller ID or ring tune to members of a group.

Adding Contacts to a Group

1. From the Idle screen, press [◎] and select **Contacts**.

2. Press the left or right navigation key to select the **Groups** tab.

3. Using the Up and Down navigation keys, scroll to the group that you wish to add the contact(s) to and press [◎].

4. Press <**Options**> and select **Add Member**. The Contacts list opens.

5. Using the Up and Down navigation keys, scroll to each name to be added to the Group and press [◎] to place a check mark in the selection box beside the name.

   To find a specific name, begin entering the letters of the name. As you type, the first Contacts entry matching your input is highlighted. To select a different entry, press the up or down navigation key until the entry you want is highlighted.

6. When you are finished selecting names, press <**Add**>. The selected contacts are added to the group.

Group Options

From the Group screen, you can access the following options for each group by highlighting the group name and pressing <**Options**>:

♦ **View:** Opens the group list.

♦ **Create Group**: allows you to create a new group and save it to your phone or, if your SIM card allows Group storage, to your card.

♦ **Send Message:** Allows you to send a message to group members.

♦ **Delete**: Allows you to delete the selected group.

Note: Deleting a group does not delete individual Contact entries.

♦ **Rename:** Lets you change the name of the selected group.
♦ **Group Settings:** Allows you to change the Picture and the Ring Tune associated with the group.

Creating a New Group

1. From the Idle screen, press [⊙] and select **Contacts**.
2. Press the left or right navigation key to select the **Groups** tab.
3. Press the **Options** soft key and select **Create Group**.
4. Enter the name of the new group and press <**Save**>.

My Business Card

This menu option lets you create a Business Card file containing your contact information that can be sent to others for addition to their contact list.

1. From the Idle screen, press [⊙] and select **Contacts**.
2. Press <**Options**> and select **My Business Card**.
3. Enter the information you want to save for your Business Card. The following fields are available for input:
    ♦ **First Name:** For recording your first name
    ♦ **Last Name:** For recording your last name
    ♦ **Display Name:** For recording your display name
    ♦ **Mobile - Private:** For recording a mobile phone number
    ♦ **Landline - Private:** For recording a fixed phone number
    ♦ **Email:** For recording an e-mail address

◆ **Caller ID:** For recording your Caller ID information

◆ **Notes:** For adding any other information

For information on text and numeric entry, see "Entering Text" on page 36.

To add more phone number fields, press <**Options**> and select **Add More Fields**.

4. When you are finished entering information, press <**Options**> and select **Save**.

Settings

This menu (**Menu 9**) lets you customize numerous phone settings to suit your preferences.

Set Sound Profile

Profiles (Menu 9.1) are groups of customized sound settings that make your phone behave differently in various situations. For example, you may want your incoming call ring tune to play loudly when you are outdoors.

Your phone includes the following profiles:

◆ **Normal:** For use in situations that do not require special sound settings.

◆ **Silent:** For situations where you do not want your phone to use audible sounds.

◆ **Driving:** For use while driving.

◆ **Outdoor:** For use outdoors or in loud environments where it may be difficult to hear alert tones.

Selecting a Profile

Select the profile that best suits your surroundings or situation.

To select a profile:

1. In Idle mode, press [⊙] and select **Settings → Set Sound Profile**.

2. Choose a profile and press <**Save**>. A message appears notifying you that the profile has been changed.

Note: You can turn the Silent profile on at any time by pressing and holding [# ⑨]. The phone displays the message "Silent Profile on". Press and hold this key again to enable Normal mode.

Viewing and Changing Profile Settings

To view the settings for a profile, open the Set Sound Profile screen (see above), choose the profile you want to change and press [ⓞ].

Each profile is divided into three setting categories you can scroll to using the left and right navigation keys:

♦ **Call:** Lets you specify the way the phone alerts you to incoming voice calls. For example, you can choose to be alerted by a melody, or by a melody and vibration. You can also specify ring tunes and set audio volume.

♦ **Message:** Lets you specify the way the phone alerts you to incoming messages, the message alert tone and the frequency of alert reminders.

♦ **Phone:** Lets you specify the sounds made by the phone when you press a key or turn the phone on or off.

Use the up and down navigation keys to view the current settings in a category.

To see all options for a specific setting, select it and press [ⓞ].

To change the setting, use the navigation keys to select another setting and press <**OK**> or [ⓞ].

To save changes made to the profile settings, press <**Options**> and select **Save**.

Call Settings

♦ **Call Alert Type:** Lets you specify how you want to be alerted to incoming calls (various combinations of melody and vibration).

♦ **Voice Call Ring Tune:** Lets you select a ring tune for incoming voice calls from the Ring Tunes folder, which contains default and downloaded ring tunes.

♦ **Ring Tunes Volume:** Lets you specify the volume for the selected ring tunes (level 1 to 7).

Message Settings

♦ **Message Alert Type:** Lets you specify how you want to be alerted to incoming messages (Melody, Vibration, Vibration & Melody, or Mute).

♦ **Message Alert Tone:** Lets you specify an alert tone for incoming messages. You can select **Use Effect Tone**, which provides a choice of four preset tones, or **Use My Alert Tone**, which allows selection of a tone from the Ring Tunes folder.

♦ **Message Alert Repetition:** Lets you specify whether the message alert tone is used to notify you of a new message only once or periodically until you open the message.

♦ **Message Tone Volume:** Lets you specify the volume for the selected alert tone (level 1 to 7).

Phone Settings

♦ **Keypad Tone:** Lets you specify the tone played when you press a button on the keypad (Beep or Xylophone).

♦ **Power On Type:** Lets you specify the phone response when you turn it on (Melody, Vibration, Vibration & Melody, or Mute).

♦ **Power Off Type:** Lets you specify the phone response when you turn it off (Melody, Vibration, Vibration & Melody, or Mute).

♦ **Phone Sound Volume:** Lets you specify the volume for the power on/off and keypad tones (level 0 to 7). While adjusting the volume, keypad tone sounds to demonstrate the selected level.)

Set Display

In this menu, you can change various settings for the front display, main display and backlight.

Main Display

To change settings for the main display:

1. In Idle mode, press [◎] and select **Settings** → **Set Display** → **Main Display**.

The following options are available.

♦ **Wallpaper:** Allows you to choose a screen background image from the Media folders. Choose a folder and open it by pressing <**Select**> or [◎]. Choose an image and press <**Select**> or [◎]. Press <**Set**> or [◎] to confirm the selection.

♦ **Greeting Message:** Allows you to change the text that appears on the screen when the phone powers on. Enter the text you want to appear on the screen then press [◎] or press <**Options**> and select **Save**.

♦ **Menu Style:** Allows you to select whether the phone's menus are presented in Grid Menu style or List Menu style. Highlight a selection and press <**Save**> or [◎]

♦ **Pop Up List Menu:** Allows you to select the whether pop up menus are On or Off. Highlight a selection and press <**Save**> or [◎].

♦ **Dialing Display:** Allows you to select the properties of the type font used for the dialing display.
  • **Font Type:** Allows you to select the font used (Normal 1, Normal 2, Quill Pen, or Sticky Note).
  • **Font Size:** Allows you to select the font size (Large, Medium, or Small).
  • **Font Color:** Allows you to select a color for the selected font (Monochrome, Gradation, or Basic).
  • **Background Color:** Allows you to select a color for the background screen.

  Use the right and left navigation keys to highlight a selection and press <**Save**> or [◎].

Front Display

To change settings for the front display:

1. In Idle mode, press [◎] and select **Settings** → **Set Display** → **Front Display**.

The following options are available.

♦ **Wallpaper:** Allows you to choose a screen background image. The choices are Clock, My Image or Screen Slogan.

   • **Clock:** To change the clock image, press <**Options**> and select **Edit**. Use the right and left navigation keys to choose a clock style (Analog Clock 1, Analog Clock 2 or Digital Clock) and press <**Save**> or [◎] to confirm the selection.

   • **My Image:** Allows you to choose an image from the Media folders. Press <**Options**>, select **Edit**, then press <**Change**>. Choose a folder and open it by pressing <**Select**> or [◎]. Choose an image and press <**Select**> or [◎]. Use the navigation keys to move the selection box to the area of the photo you wish to use. Use <**+**> and <**-**> to increase or decrease the image size. Press [◎] to confirm the selection.

   • **Screen Slogan:** Lets you enter text that appears in the center of the screen. Press <**Options**> and select **Edit**. Enter the text you want to appear on the screen then press <**Save**> or [◎].

♦ **Greeting Message:** Allows you to change the text that appears on the screen when the phone powers on. Enter the text you want to appear on the screen then press [◎] or press <**Options**> and select **Save**.

Light Settings

Note: Increasing brightness and light times will reduce the length of time the phone can be operated before battery recharging is necessary.

To change settings for the display and keypad backlighing:

1. In Idle mode, press [◎] and select **Settings** → **Set Display** → **Light Settings**.

2. Use the navigation keys and <**Select**> or [◉] key to highlight and change selections, <**Save**> or [◉] to confirm changes.

The following options are available.

♦ **Brightness**: Allows you to adjust LCD display brightness for best viewing in different lighting conditions.

♦ **Backlight Time**: Allows you to select the length of time the backlight remains on at full brightness and dimmed while the phone is idle. For On choose 10 Seconds, 30 Seconds, 1 Minute, 3 Minutes, or 10 Minutes. For Dim choose Off, 5 Seconds, 30 Seconds, 1 Minute, or 3 Minutes.

♦ **Keypad Light**: Allows you to determine whether the keypad lights whenever the phone is in use (Use at Any Time) or only during specific hours (Use at Custom Time). To set the custom time, press <**Options**> and select **Edit**.

Set Time & Date

Use this menu (Menu 9.3) to configure the settings for the time and date display.

To modify Time & Date settings:

1. In Idle mode, press [◉] and select **Settings** → **Set Time & Date**.

2. Change settings as required (see below).

3. To save changes, press <**Save**>.

The following settings are available:

♦ **Time Zone Updating:** Lets you specify how the time zone information is updated (Automatic, Prompt First or Manual Only).

   If Manual Only or Prompt First is selected, the following options are enabled:

   • **Home Zone**: Lets you specify your location relative to Greenwich Mean Time. Press [◉] to select then scroll left or right until your time zone is

indicated. You can also enable or disable Daylight Saving, as appropriate.

   • **Time**: Lets you change the time setting. Scroll left or right to choose the number you want to modify and then enter a new number using the keypad. To switch between AM and PM, highlight the indicator and press the right navigation key or any number key.

   • **Date**: Lets you change the date setting using the keypad. Scroll left or right to choose the number you want to modify and then enter a new number using the keypad.

♦ **Time Format:** Lets you specify the time format you prefer (12 hour or 24 hour clock). Scroll left or right to select.

♦ **Date Format:** Lets you specify the date format you prefer. Press [⊙] to open the selection screen, choose a format and press <**OK**> or [⊙].The choices are DD/MM/YYYY, MM/DD/YYYY, YYYY/DD/MM, YYYY/MM/DD.

Set Phone

Use this menu (Menu 9.4) to configure general phone settings related to the user interface language, shortcuts, security and Airplane Mode. You can also check the phone number of the phone.

To access phone settings:

1. In Idle mode, press [⊙] and select **Settings** → **Set Phone**.

2. Change settings as required (see below).

3. To save changes, press <**Save**>.

The following options are available:

♦ **Language:** Lets you specify the language used for user interface text displayed on the screen and the T9 text input dictionary.

- **Screen text:** You can select Automatic, English or Français (French). If you select Automatic, the language setting is read from the SIM card in the phone.
- **Input T9:** You can select English or Français (French) for T9 input mode. For more information on text input modes, see "Entering Text" on page 36.

♦ **Shortcuts**: Lets you change the applications assigned to the navigation keys for quick access. To select a new application for a key, press the key and then press [ⓞ] or press <**Options**> and select **Change**. Choose the application you want to assign to the key and press [ⓞ] or <**Save**>.

♦ **Own Number:** shows you the number(s) assigned to the SIM in your phone.

♦ **Security:** The Security feature allows you to restrict the use of your phone by others and to restrict the types of calls using various codes and passwords. The following options are available.

- **Lock Phone:** When the phone lock is enabled, the phone password must be entered each time the phone is switched on. The phone remains operational until switched off. To change the phone password, see "Phone Password" on page 34.
- **Lock SIM Card:** When the Lock SIM Card feature is enabled, your phone only works with the current SIM. To lock the SIM card, enter a 4 to 8 digit password and press <**Confirm**>, then enter it again to confirm. To deactivate the SIM and allow use of a different SIM card, enter the password and press <**Confirm**>.
- **Check PIN Code:** When the Check PIN Code feature is enabled, your PIN must be entered each time the phone is switched on. Before Check PIN Code can be disabled, you must enter your PIN.
- **Lock Applications:** Using this option you can lock various phone applications, which requires entry of the phone's password to access the associated menus. The selection includes: All, Messages, Media, Call History, Contacts, Calendar, Notes, Rogers IM and Tasks.

- **Set FDN Mode:** Set FDN (Fixed Dial Number) mode, if supported by your SIM card, allows you to restrict outgoing calls to phone numbers stored in the FDN List. To set this mode you must enter your PIN2.

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

- **Change Phone Password**: Allows you to change your current phone password. You must enter the current password before you can specify a new one.
- **Change PIN Code:** 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.
- **Change PIN2 Code:** Allows you to change your current PIN2 to a new one. You must enter the current PIN2 before you can specify a new one.

◆ **Airplane Mode:** For situations where you are not permitted to send or receive calls or access online information, this operating mode allows you to use all other phone functions. When it is on, "Airplane" is displayed on the Idle screen.

Set Calls

Call settings (Menu 9.5) let you configure the actions taken by the phone when you dial and receive calls.

To access call settings:

1. In Idle mode, press [◎] and select **Settings → Set Calls**.
2. To change a setting, choose another setting and press <**Save**>.

The following options are available:

General

This menu (Menu 9.5.1) lets you configure high-level features that specify how calls are handled. To access the settings for any of these features, use the navigation keys to select the feature and then press [◎].

♦ **Show My Number:** Lets you specify how your ID is handled when you initiate an outgoing call.

- **By Network:** You are identified to the recipient using the default network information.
- **Send:** Your phone number and name are sent to the recipient.
- **Hide:** Your identification is hidden from the recipient.

♦ **Auto Reject**: Lets you automatically reject calls from a specified list of contacts. For details on how to enable this feature, see "Enable and Configure Auto Reject" on page 136.

♦ **Call Answer:** Provides a choice of methods for answering a call on your phone (Send Key, Open Flip, Any Key).

♦ **Auto Reply:** Lets you enable and configure auto reply. Use the left and right navigation keys to enable (On) and disable (Off). If you select On, press the down navigation key to highlight the **Reply to send** area and type the message you want sent as an automatic reply.

♦ **Call Status Tones:** Lets you activate alert tones that sound during a call. Scroll up or down to select one of the following options and press the ◎ key to enable (check) or disable (uncheck) options. When you are done, press **Save** soft key to save the selection.

- **Call Connect Tone:** Sounds a tone when a call connection is successful.
- **Minute Minder:** Sounds a tone after each minute of a call.
- **Call End Tone:** Sounds a tone when a call connection is terminated.

♦ **Alerts on Call:** Lets you specify whether you want to be alerted by a tone when a message is received or the time for an alarm is reached while you are on a call. Select either **On** or **Off** and press <**Save**> or [◎] to save the selection.

Enable and Configure Auto Reject

To turn on and configure Auto Reject:

1. In Idle mode, press [⊙] and select **Settings** → **Set Calls** → **General** → **Auto Reject**.

2. Select **Activation** and use the left or right navigation key to select **On**.

3. Select **Reject List** and press [⊙] to view the current list.

   If this is the first time you have accessed this feature, the only item on the list is the default, Unknown. If you have already created an Auto Reject List and do not need to add entries to it, proceed to step 5. Otherwise, press <**Options**> and select **Create**.

4. Enter the number of the caller you want to add to the Reject List. To do this, you can:
   • Type the number into the edit box and press <Save> or [⊙].
   • Press <**Search**> and select either **Call History** (to view a list of recent calls) or **Contacts** (to view your Contacts list). In Call History, scroll to the number you want to add to the Reject List and press <**Select**>. In Contacts, scroll to the number you want to add to the Reject List, press <**Options**>, select **Select** and press <**Save**> or [⊙].

5. Scroll through the numbers in the Auto Reject List and press [⊙] to place a check mark next to those callers you want to automatically reject. To change or remove an entry, press <**Options**> and select **Edit** or **Delete**.

6. When you have finished your selections, press <**Options**> and select **Save**.

Voice Call

This menu (Menu 9.5.2) lets you configure the default settings for voice call features.

Call Forwarding

Call forwarding lets you reroute incoming calls to another number or to your voicemail. Availability of the various options depends on your service provider. Contact your provider for more details on enabling this feature.

To set your call forwarding options:

1. In Idle mode, press [◎] and select **Settings** → **Set Calls** → **Voice Call** → **Call Forwarding.**

2. Choose the option you want to modify and press <**Select**> or [◎]. The following options are available:

   ◆ **Always:** Lets you forward all voice calls and/or data calls.

   ◆ **Busy:** Forwards calls when you are on another phone call.

   ◆ **No Reply:** Forwards calls when your phone is not answered. You can also change the length of time the phone waits for a reply before forwarding the call (5, 10, 15, 20, 25 or 30 Seconds).

   ◆ **Unreachable:** Forwards calls received when you are not in an area covered by your service provider, or while your phone is turned off.

   ◆ **Cancel All:** Deactivates call forwarding.

   The current status of the option is displayed.

3. If you are activating call forwarding, enter the destination phone number in the Forward To box or press <**Options**> and select **Contacts** to select a number from your Contacts list.

4. To change the setting, press <**Options**> and select **Activate** or **Deactivate**.

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

Call Barring

The Call Barring network service allows you to restrict different types of calls from being made or received. For example, you can prevent voice

calls from being made to international phone numbers. This option is SIM dependent and requires a subscription. For more information, contact your service provider.

To configure call barring options:

1. In Idle mode, press [◎] and select **Settings** → **Set Calls** → **Voice Call** → **Call Barring**. The following call-barring options are possible:

   ◆ **All Outgoing Calls:** Bars this phone from making outgoing calls.
   ◆ **Outgoing International Calls:** Bars this phone from making calls to international numbers.
   ◆ **International Calls Except Home:** Bars this phone from making international calls except to your home country.
   ◆ **All Receiving Calls:** Bars all incoming calls.
   ◆ **Receiving Calls while Abroad:** Bars all incoming calls when abroad.
   ◆ **Cancel All:** Cancels all settings and deactivates Call Barring.

2. Use the navigation keys to choose the setting you want to change and press [◎] or press <**Options**> and select **Select**.

3. To change the setting, press <**Options**> and select **Activate** or **Deactivate**.

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

Changing the Password for Call Barring

To change the Call Barring password:

1. From the Call Barring screen, press <**Options**> and select **Change Password**.

2. Type the current password into the Old box.

3. Type the new password into the New box and enter it again in the Confirm box.

4.   Press <**Confirm**>.

Call Waiting

Call Waiting informs you when someone is trying to reach you while you are on another call. To set Call waiting options:

1.   In Idle mode, press [◉] and select **Settings** → **Set Calls** → **Voice Call** → **Call Waiting**. The screen informs you whether call waiting is activated or deactivated.

2.   To change call waiting status, press <**Options**>, choose **Activate** or **Deactivate** and press <**Select**> or [◉].

Auto Redial

Auto Redial lets you configure your phone to automatically redial the last dialed number if the call connection is lost or if the call was unable to connect. To enable or disable Auto Redial:

1.   In Idle mode, press [◉] and select **Settings** → **Set Calls** → **Voice Call** → **Auto Redial**.

2.   Choose **On** or **Off** and press <**Save**> or [◉].

Note: For carriers that automatically divert unanswered calls to voice mail, the Auto redial feature will not provide useful service.

Set Connectivity

The Connectivity settings (Menu 9.6) allow you to manage the settings associated with the connection types available to your phone, including Bluetooth, network, wireless connectivity and USB.

Bluetooth

Bluetooth is a short-range wireless communications technology capable of exchanging information over short distances.

Activation

To turn Bluetooth on or off:

1. From the Idle screen, press [⊙] and select **Settings** → **Set Connectivity** → **Bluetooth** → **Activation.** Choose Off or On, as required, then press **<Save>** or [⊙].

Note: Turn off Bluetooth when it is not required to save battery life and in situations where Bluetooth use is prohibited.

My Devices

This function provides a list of Bluetooth devices within range of your phone and lets you pair the phone with one or more devices.

To search for Bluetooth devices:

1. From the Idle screen, press [⊙]and select **Settings** → **Set Connectivity** → **Bluetooth** → **My Devices**.

2. Choose **Search For New Device** and press **<Select>** or [⊙].

   After searching, your phone displays a list of available devices. The color of the icon indicates the status of the device:

   ♦ Grey for unpaired devices

   ♦ Blue for paired devices

   ♦ Red for devices that are currently connected to your phone

To connect to a Bluetooth Device:

1. Find Bluetooth devices within range (see above). On the device list, highlight the device you want to connect to and press **<Select>** or [⊙].

2. Enter the Bluetooth PIN for the device and press **<OK>**. If connecting to a Bluetooth wireless device, consult the device's user manual for the assigned PIN. If connecting to another phone, enter the same PIN on both phones.

If you are unable to pair with the device a message appears in the display. Press <**Yes**> to retry.

My Phone's Visibility

This option allows you to turn your phone's visibility to other Bluetooth devices On or Off. When Bluetooth visibility is turned on, your phone wirelessly transmits its name and status. This is useful if you are attempting to connect to additional Bluetooth devices, but it can pose a security risk and facilitate unauthorized connection so should be paired with a Bluetooth security option. For more information, see "Secure Mode" on page 141.

My Phone's Name

This option displays the name given to your phone for Bluetooth purposes. When your phone's Bluetooth visibility is turned on, it identifies itself using the name that appears in this text field.

To change the phone name:

1. Press and hold [⌫] to erase the previous name.

2. Use the keypad to enter a new name.

3. Press <**Save**> or [◎] to save the new name.

Note: The default name for your phone is SGH-A836, the model code.

Secure Mode

When Bluetooth visibility is turned on, your phone wirelessly transmits its phone name and status. This transmission can pose a security risk and allow unauthorized connection to your phone. When Secure Mode is turned on, however, the phone prompts you to allow or deny access whenever another Bluetooth-enabled device tries to access your phone.

To change the Secure Mode setting, choose a selection and press <**Save**> or [◎].

Remote SIM Mode

This option allows you to enable access to your SIM card via Bluetooth.

Bluetooth Services

The Bluetooth specification is a protocol that describes how the short-range wireless technology works, while profiles describe the services supported by individual devices. Profiles reduce the chance that different devices will not work together.

The following service profiles are available:

♦ **Headset:** The remote Bluetooth headset enables outgoing and incoming calls.

♦ **Handsfree:** The remote Bluetooth car kit enables outgoing and incoming calls.

♦ **Bluetooth Stereo Headset:** The remote Bluetooth stereo headset lets you listen to music.

♦ **Serial Port:** The remote Bluetooth device acts as a virtual serial port.

♦ **Dial Up:** The remote Bluetooth device enables Internet access through a phone modem.

♦ **Basic Printing:** The phone is configured to use Bluetooth technology to enable basic printing.

♦ **File Transfer:** The remote Bluetooth device allows users to transfer files from their handset to other Bluetooth devices.

♦ **Object Push:** The remote Bluetooth device enables the transfer of personal data (e.g., namecard, calendar) to other devices.

♦ **SIM Access:** Chooses whether to allow access to your SIM card via Bluetooth.

Bluetooth Device Options

There are several options available for connected Bluetooth devices. Choose the device in the My Devices list and press <**Options**> to access the following options:

♦ **Connect/Disconnect**: Connects or disconnects from the other device (Bluetooth headset only).

♦ **Browse Device:** Search for data from the device and import data directly to your phone. You must authorize the device to successfully connect to it.

♦ **Service List:** Access the Bluetooth service list of the device.

♦ **Authorize Device/Unauthorize Device:** Determines whether the phone asks you to permit connection when other devices try to connect to your phone.

♦ **Delete:** Delete the selected device or all devices.

♦ **Rename:** Rename the paired device.

Sending data via Bluetooth

1. Activate Bluetooth (see "Activation" on page 140).

2. Choose the item you want to send. For example, you can send a video file stored in the Media folders.

3. Press <**Options>** and, depending on the menu, select **Send via** and then **Bluetooth, Send** and then **via Bluetooth,** or **Send via Bluetooth**. Press <**Select**>. The phone displays a list of available devices.

4. Select a device.

5. If necessary, enter the Bluetooth PIN code needed for pairing and press <**OK**> or [◎].

Receiving Data via Bluetooth

To receive data via Bluetooth, your phone's Bluetooth feature must be active. If an unauthorized Bluetooth device sends data to your phone, the phone displays a confirmation message. To receive data, press <**Yes**>.

Network Selection

Network selection (Menu 9.6.2) lets you configure the phone to automatically select the network used when roaming outside of your home area or allow manual selection.

Note: You can select a network other than your home network only if there is a valid roaming agreement between them.

To change your network selection:

1. In the Network selection menu, highlight **Automatic** to connect to the first available network when roaming or Manual to have the phone scan for available networks. Press <**Select>** or [⊙].

2. If you selected **Manual**, the phone displays a list of available networks. Highlight the network you want and press <**Select>** or [⊙]. Your phone connects to the selected network.

Connections

The Connections menu (Menu 9.6.3) lets you view the profiles containing the settings for connecting your phone to the network (GoRogers, RogersMedia, RogersInternet) and streaming. These settings are used for the Internet browser, Instant Messaging (IM) and sending picture messages.

Note: Do not change these settings without first checking with your service provider or the Internet and multimedia features may not work properly.

Select the profile you want, press <**Options**>, and select an option:

- ◆ **Edit:** To review or change the selected profile (custom profiles only).
- ◆ **New:** To create a new profile.
- ◆ **Rename:** To change the name of the profile (custom profiles only).
- ◆ **Delete:** To remove a profile from the list (custom profiles only).
- ◆ **Restore:** To return to default settings.

For each profile, the following information must be entered when you select **New** or **Edit** from the <**Options**> menu:

- ◆ **Set Name:** Enter the profile name.
- ◆ **Access Name:** Enter the access point name. This is the gateway address required to access the Internet.
- ◆ **Auth Type:** Select the type of authentication used for this WAP connection (None, Normal, or Secure).
- ◆ **User ID:** Enter the User ID required to connect to the network.
- ◆ **Password:** Enter the password required to connect to the network.
- ◆ **Protocol:** Set the connection protocol used by the WAP browser: WAP, HTTP, or Other.
- ◆ **Home URL** (WAP or HTTP only): Enter the URL address of the page to be used as your home page.
- ◆ **Proxy Address** (HTTP only): Enter the gateway address of the proxy server.
- ◆ **Gateway address** (WAP only): Enter the gateway address of the proxy server.
- ◆ **Secure Connection** (WAP only): Turns secure connection on or off.
- ◆ **Port** (HTTP only): Enter the connection port.
- ◆ **Linger Time:** Set a time period after which the network is disconnected if there has been no new data traffic during that time.

♦ **Advanced Settings:** Allows you to configure some of the IP-specific information: Static IP, Static DNS, Server information, and Traffic Class.

   • **Static IP**: If you want to manually enter an IP address, check this option. If you want the IP address to be automatically assigned by the server, remove the check mark.

   • **Local Phone IP**: Enter the IP address obtained from the network operator. This option is available only if Static IP is enabled.

   • **Static DNS**: If you want to manually enter the Domain Name Server (DNS) address, check this option. If you want the address to be automatically assigned by the server, remove the check mark.

   • **Server 1/Server 2**: Enter the Domain Name Server (DNS) addresses.

   • **Traffic Class**: Select the traffic class: Subscribed, Conversation, Streaming, Interactive or Background.

Select USB Mode

Your phone can connect to a PC via a USB cable (sold separately). The phone can be configured to launch a default application when an active USB connection is detected.

♦ **Ask on Connection:** The phone opens a selection window that requires you to choose the connection type (Media Player, PC Studio or Mass Storage, see below).

♦ **Media Player:** Allows you to transfer multimedia files between your phone and a PC using Microsoft MTP (Media Transfer Protocol), which supports Autosync of content from Windows Media Player and DRM (digital rights management).

♦ **PC Studio:** The phone is automatically recognized by Samsung PC Studio, a Windows-based PC program that you can use to manage personal data and multimedia files or access the Internet using the phone as a modem.

♦ **Mass Storage:** The PC recognizes a microSD card in your phone as a storage drive, allowing you to transfer files to and from the card. The card name appears in the list of disk drives in My Computer on the PC.

Choose a connection method and press [⊙] or <**Save**>.

Set Applications

The Set Applications menu (Menu 9.7) provides convenient access to settings for Messages, Browser, Camera, Player, VOD, Record Audio, Calendar and Contacts.

Messages Settings

Messages settings (Menu 9.7.1) let you configure the default settings for the following messaging features:

♦ **Text Message:** Lets you configure the text delivery parameters used when sending a text message.

  ♦ **Sending Options:** Lets you set the following parameters:
  • **Network Selection:** Select either the CS or PS domain.
  • **Character Support:** Select GSM alphabet, Unicode, or Automatic.
  • **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 Report:** Provides a delivery report after sending a message.
  • **Keep a Copy:** Stores a copy of the messages you send in the Sent folder.

  ♦ **Text Message Center Settings**: Lets you set the default method of text message transmission used by the Text Message Center. Press <**Options**> and choose **View** to access the following parameters:
  • **Center Address:** Specifies the phone number of the Text Message Center.

- **Validity Period:** Specifies how long a message is valid. The message must be sent and received within the specified time period or it is removed from the text message server. Options are None, 1 Hour, 6 Hours, 12 Hours, 1 Day, 3 Days, 1 Week, 1 Month.
- **Default Type:** Specifies the default format of text (SMS) messages (Text, Voice, FAX, X400, Email, ERMES).
- **Name:** Specifies the name of the parameter profile.

◆ **Picture Message**: Lets you configure the delivery parameters used when sending a picture (MMS) message.

   ◆ **Sending Options**:
   - **Priority:** Specify a priority level for your messages (High, Normal, Low).
   - **Expiration:** Select the length of time you wish the message to remain on the MMS server (Maximum, 1 Day, 2 Days, 1 Week, 2 Weeks, Custom Time).
   - **Delivery:** Set a time delay before the phone sends your messages (Immediately, 1 Hour, 1 Day, 1 Week, Custom Time).
   - **Hide Address:** Hides address information that is normally sent along with a message.
   - **Request Delivery Report:** When this option is enabled, the network informs you whether or not your message has been delivered.
   - **Request Read Report:** When this option is enabled, your phone sends a request for a reply along with your message to the recipient.
   - **Keep a Copy:** Specify whether you want to keep a copy of the sent messages on your phone.
   - **Add my Business Card:** Adds your business card to sent messages (see "My Business Card" on page 124).

   ◆ **Receiving Options**:
   - **Home Network:** Lets you specify how messages are retrieved from the home network (Choose Auto Download, Manual, Reject).
   - **Roaming Network:** Lets you specify how messages are retrieved while roaming (Choose Auto Download, Manual, Restricted, Reject).

- **Send Delivery Report:** Automatically sends notification to the network indicating whether or not the message was successfully delivered.
- **Send Read Report:** Automatically sends notification to the recipient indicating that you received the message.
- **Reject Anonymous:** Automatically rejects messages belonging to the Anonymous category.
- **Reject Advertisement:** Automatically rejects messages belonging to the Advertisement category.

◆ **Picture Message Profiles**: Lets you select a connection profile to be used when connecting to a message server.

◆ **Message Size**: Specify the maximum allowable size of received messages (30 KB, 100 KB or 300 KB). Larger messages are not accepted.

◆ **Auto Resize Image**: Selects whether images are automatically resized to 100 KB, 300 KB, or not resized (No).

◆ **Creation Mode**: Specify how new media content is sent: Restricted, Warning, Free.

◆ **Default Style**: Specify the Font Color, Font Style, Background Color and Page Duration (for embedded media) settings for incoming messages.

◆ **Broadcast:** Broadcast messages are transmitted to all phones within the area.
- **Activation:** Enables or disables the broadcast feature.
- **Receiving Channels:** Lets you specify the channels from which the phone will accept broadcast messages. You can enable all channels or enter individual channels in the My Channels box.
- **My Channels:** Lets you enable or disable your channels. You can create new channels by pressing <**Options**> and selecting **Create**.This option is not available if you selected All Channels in the previous option.

- **Language:** Allows you to select your preferred language for display of cell broadcast messages. The choices are All, English or Français (French).

♦ **Voice Mail:**
- Specifies the phone number of the voice mail server that stores messages.

♦ **Push Message**
- **Receiving Option:** Turn push message reception On or Off.
- **Service Loading:** Specify how you want the phone to handle the loading of this service (Always, Prompt or Never).

Browser Settings

Browser settings (Menu 9.7.2) let you select the connection profile used when connecting to the Internet and make changes to Profile Settings.

To change Profile Settings, highlight a profile, press <**Options**> and select Edit. Make changes to the Profile Settings as required (Set Name, Access Name, Auth Type, User ID, Password, Protocol, Home URL, Proxy address, Port, Linger Time, Advanced Settings).

Camera Settings

Camera settings (Menu 9.7.3) let you set the default preferences for camera functionality. Scroll left and right to view or change the settings within each option tab (General, Camera and Camcorder). Use the up and down navigation keys to scroll to individual options, press [◉] to open a list of available settings, choose a setting and press [◉] or <**Select**>. When you have finished making changes, press <**Save**> to save the changes.

♦ **General**
- **Shutter Sound:** Lets you select the shutter sound that indicates a picture has been taken. The sounds are previewed as you scroll through the options.

- **Default Storage:** Lets you set the default storage location for the photos taken with the phone to either Phone or Memory Card.

♦ **Camera**
- **Quality:** Sets the default picture quality to High (best quality, largest file size), Normal (medium quality, medium file size) or Economy (lowest quality, smallest file size).
- **Single Shot Mode:** Allows you to take a single photo and either review the photo after taking it (Take and Review) or return immediately to the viewfinder to take another (Take and Preview).

♦ **Camcorder**
- **Quality:** Lets you set video quality to High (best quality), Normal or Economy (lowest quality). Better quality videos require more storage space.
- **Movie Format:** Sets the storage format for video files to either Mp4 or 3GP.

Player Settings

Player settings (Menu 9.7.4) let you set the default playback options for the media player:

♦ **Play Mode:** Sets Shuffle (play music in random order) to On or Off, Loop (repeat music) to Repeat 1, Repeat All or Off.
♦ **Play via:** Sets the default playback to phone or Bluetooth headset.
♦ **Equalizer:** Optimizes sound equalization for Normal, Rock, Pop, Dance, Classic or Jazz style music.

VOD Settings

VOD Settings (Menu 9.7.5) lets you view or change VOD (video on demand) settings, create a new settings profile or restore settings to default values. Press <**Options**> to access **Save**, **Edit**, **New, Rename, Delete** or **Restore**. See "Connections" on page 144 for a description of the available settings.

Record Audio Settings

Record Audio settings (Menu 9.7.6) let you specify the following audio recording settings:

♦ **Default Name:** Lets you set a default name prefix for audio recordings made with the phone.

♦ **Recording Time:** Lets you specify the maximum allowable length of an audio recording made with the phone (1 Minute, 2 Minutes, 3 Minutes, 4 Minutes, 5 Minutes, 60 Minutes or Limit for MMS).

Calendar Settings

Calendar settings (Menu 9.7.7) let you set the default settings for the weekly Starting Day (Sunday or Monday) and the Default View Mode (month, week or day).

Contact Settings

Contact settings (Menu 9.7.8) let you set the defaults for the saving and viewing of contact information, including your own.

♦ **My Business Card:** Allows you to create a Business Card file containing your contact information that can be sent to others for addition to their contact list. See "My Business Card" on page 124 for details.

♦ **Speed Dial:** Lets you assign phone numbers from your Contacts list or from your FDN Contacts to speed dial numbers on the keypad. For more information on speed dial, see "Speed Dial List" on page 93.

♦ **Save New Contacts to:** Lets you specify the default save location for contact information (Phone Memory, SIM Memory or Always Ask).

♦ **View Contacts from:** Lets you specify which contact list you view by default (Phone Memory, SIM Memory or All).

♦ **Own Number:** Shows you the phone number(s) assigned to the SIM in your phone.

♦ **Service Number:** Shows the list of Service Dialing Numbers (SDN) assigned by your service provider.

♦ **Memory Status:** Allows you to view the amount of memory allocated and available for Phone, SIM Card and FDN.

Reset Settings

This menu (Menu 9.8) allows you to reset some or all of your phone settings to their default value. To reset phone settings:

1. Select one or more of the following reset options by highlighting it and pressing [ⓞ]:

   ♦ **All:** Resets all configuration options listed in this menu to their default values.

   ♦ **Sound Profiles Settings:** Resets Sound Profile options to their default values. For more information on Profiles, see "Set Sound Profile" on page 126.

   ♦ **Display Settings:** Resets display options to their default values. For more information on Display settings, see "Set Display" on page 128.

   ♦ **Phone Settings:** Resets phone options to their default values. For more information on Phone settings, see "Set Phone" on page 132.

   ♦ **Alarms:** Clears alarm settings. For more information, see "Alarms" on page 76.

2. Press <**OK**>.

3. Enter the phone password, press <**Confirm**>, then press <**Yes**> to confirm.

Memory Management

Memory management (Menu 9.9) let you view memory status for your phone and clear the memory if necessary.

◆ **Clear Memory**: Lets you clear various portions of the phone memory. Select one or more of the following options by highlighting it and pressing [⊙], press <**OK**>, enter the phone password, then press <**Yes**> to confirm.

  • **All:** Clears saved files from all categories listed in this menu.
  • **Media:** Clears saved files from the Media folders.
  • **Messages:** Clears files from the default message locations.
  • **Contacts:** Clears saved contact entries.
  • **Calendar:** Clears saved calendar input.
  • **Tasks:** Clears saved task information.
  • **Notes:** Clears saved notes.

◆ **Memory Status:** Displays memory usage for Shared Memory, Messages, Media, Calendar, Tasks, Notes and Contacts. Highlight a selection and press <**Select**>.

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, one of the following messages appears

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 (PIN) 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 **Check PIN Code** menu (see Security in "Set Phone" on page 132).

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. Phones use both PIN1 and PIN2 codes, which require PUK1 and PUK2 codes to unblock. Make sure you know which PIN code is locked and apply the correct PUK code.

"No service," "Network failure" or "Not done" displays

♦ The network connection was lost. You may be in a weak signal area (in a tunnel or surrounded by buildings). Change location 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 further details.

You have entered a number but it was not dialed

♦ Have you pressed the ⌐ key?

♦ Are you accessing the right cellular network?

♦ Is Call Barring turned on? (see "Call Barring" on page 137 for more details).

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?

♦ Is Call Barring turned on? (see "Call Barring" on page 137 for more details).

♦ Has your phone been call forwarded to another number?

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 "Low Battery" flashes on the display

♦ Your battery is insufficiently charged. Recharge the battery.

The audio quality of the call is poor

♦ Check the signal strength indicator on the display (signal icon); the number of bars indicates the signal strength from strong (signal icon) to weak (signal icon).

♦ Try moving the phone slightly or move closer to a window if you are in a building.

No number is dialed when you recall a Contacts entry

♦ Check that the number has been stored correctly, by using the Contact List Search feature.

♦ Store the number again, if necessary.

If the above guidelines do not help you to solve the problem, take 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.

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 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 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. 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.

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[*]. 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.

Before a new model phone is available for sale to the public, it must be tested and certified by 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.

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 an accessory that contains no metal and that positions the phone a minimum from the body.

The minimum distance from the body for this model phone is written in the FCC certification information. Non-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.ctia.org
♦ 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, the type of battery and the 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. Shortcircuiting 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.

Note: The battery charging circuit may stop functioning if you are viewing a streaming video and receive a call while charging as the capacity of the charging circuit will be exceeded.

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.

Audio Shock

At very high volumes, prolonged listening to a headset can damage your hearing.

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 the areas 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 air bag inflates with great force. Do not place 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 unless permitted 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, 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 help you fulfill any warranty obligations and allow enjoy this product for many years:

♦ Keep the phone and all its parts and accessories out of reach of small children.

♦ Keep the phone dry. Precipitation and humidity contain minerals that may 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 or dirty areas. Moving parts may become damaged or clogged.

♦ 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.

FCC 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

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[*]. 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.

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 by 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 of this model phone as reported to FCC are:

WCDMA850

◆ Head: 0.374 W/kg

◆ Body: 0.364 W/kg

WCDMA1900

◆ Head: 0.219 W/kg

◆ Body: 0.243 W/kg

GSM850

◆ Head: 0.460 W/kg

◆ Body: 0.566 W/kg

PCS

◆ Head: 0.244 W/kg

◆ Body: 0.409 W/kg

Body-worn operations are restricted to Samsung-supplied, approved or non-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.

Appendix B: 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 North America 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, North 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 Contact list 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 an educational outreach program 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.ctia.org

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, gioma, 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/topics.emf

World health Organization (WHO):
http://www.who.int/peh-emf/en

International Commission on Non-Ionizing Radiation Protection:
http://www.icnirp.de

National Radiation Protection Board (UK):
http://www.hpa.org.uk/radiation

US Food and Drug Administration

http://www.fda.gov/cellphones

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