Motorola M990

October 2007

User Guide

HELLOMOTO

Introducing your new M990 GSM wireless phone. Here's a quick anatomy lesson.
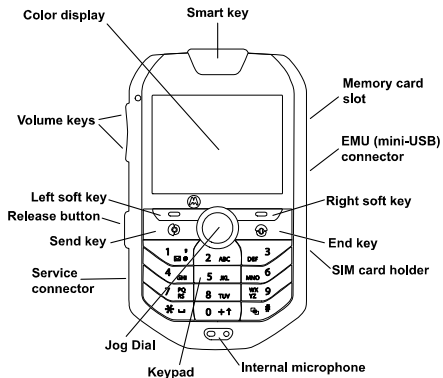

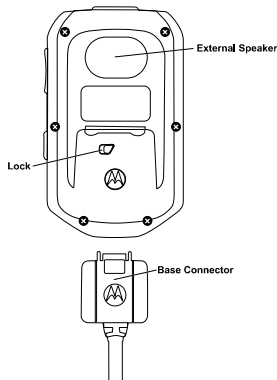*Figure 1: M990 phone (front view).*

Figure 2: M990 phone & base connector (back view).
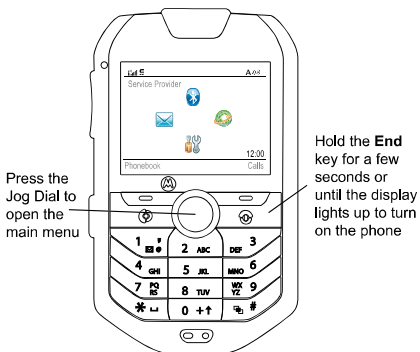
Home Screen & Main Menu

Home Screen

Press the Jog Dial to open the main menu

Hold the **End** key for a few seconds or until the display lights up to turn on the phone

Figure 3: Home screen.

Main Menu

Turn the Jog Dial right or left to navigate through menu items
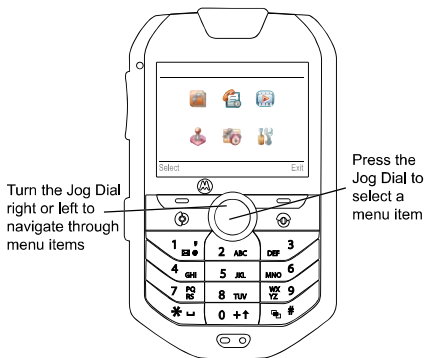
Press the Jog Dial to select a menu item

Figure 4: Main menu.

Legal & Copyright Information

Motorola, Inc. Consumer Advocacy Office 1307 East Algonquin Road Schaumburg, IL 60196

http://www.hellomoto.com

1-800-331-6456 (United States)

1-888-390-6456 (TTY/TDD United States for hearing impaired)

1-800-461-4575 (Canada)

Certain mobile phone features are dependent on the capabilities and settings of your service provider's network. Additionally, certain features may not be activated by your service provider, and/or the provider's network settings may limit the feature's functionality. Always contact your service provider about feature availability and functionality. All features, functionality, and other product specifications, as well as the information contained in this user's guide are based upon the latest available information and are believed to be accurate at the time of printing. Motorola reserves the right to change or modify any information or specifications without notice or obligation.

MOTOROLA and the Stylized M Logo are registered in the US Patent & Trademark Office. All other product or service names are the property of their respective owners. The Bluetooth trademarks are owned by their proprietor and used by Motorola, Inc. under license. Java and all other Java-based marks are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries. Microsoft, Windows and Windows Me are registered trademarks of Microsoft Corporation; and Windows XP is a trademark of Microsoft Corporation.

© Motorola, Inc., 2007.

Caution: Changes or modifications made in the radio phone, not expressly approved by Motorola, will void the user's authority to operate the equipment.

Software Copyright Notice

The Motorola products described in this manual may include copyrighted Motorola and third party software stored in semiconductor memories or other media. Laws in the United States and other countries preserve for Motorola and third party software providers certain exclusive rights for copyrighted software, such as the exclusive rights to distribute or reproduce the copyrighted software. Accordingly, any copyrighted software contained in the Motorola products may not be modified, reverse-engineered, distributed, or reproduced in any manner to the extent allowed by law. Furthermore, the purchase of the Motorola products shall not be deemed to grant either directly or by implication, estoppel, or otherwise, any license under the copyrights, patents, or patent applications of Motorola or any third party software provider, except for the normal, non-exclusive, royalty-free license to use that arises by operation of law in the sale of a product.

While Products specifications and features may be subject to change without notice, we are making every possible effort to ensure that user manuals are updated on a regular basis to reflect product functionality revisions. However, in the unlikely event that your manual version does not fully reflect the core functionality of your product, please let us know. You may also be able to access up-to-date versions of our manuals in the consumer section of our Motorola web site, at http://www.motorola.com.

Contents

Menu Map

Following is a summary of the M990 menu items. This list represents the standard main menu layout[1].

In order to use the following list to access these features, you must first understand how to operate the phone and the menu system. For details, see Getting Started on page 14.

Tip: Press **End** to exit the current menu, or to exit all menus.

Phonebook[2]
Recent Calls
Tools
- Messages
  - Create Message
  - Email Msgs
  - Message Inbox
  - Voicemail
  - Browser Msgs
  - Info Services
  - Outbox
  - Drafts
  - Templates
- WebAccess
  - Browser
  - Bookmarks
  - Stored Pages
  - History

- Go to Page
- Browser Setup
- Web Sessions
- User Profiles
- SIM Services
- Datebook
- Alarm Clock
- Dialing Services
  - Fixed Dial
  - Service Dial
  - Quick Dial
- World Clock
- Notes

Applications[3]
Multimedia
- Voice Records
- Pictures
- Sounds

---

[1] Various phone menus and features are service provider dependent.

[2] The Phonebook menu items will be displayed for each stored number.

[3] The items on this menu may vary, and depend on the installed games and applications.

Settings
- Personalize
  - Home Screen
  - Main Menu
  - Greeting
  - Wallpaper
  - Screen Saver
- Ring Styles
  - Style
  - [Style] Detail
- Connection
  - Bluetooth Link
  - USB Settings
  - MOTOSYNC
- Call Forward
  - Voice Calls
  - Fax Calls
  - Data Calls
  - Cancel All
  - Forward Status
- In-Call Setup
  - In-Call Timer
  - Call Cost Setup
  - My Caller ID
  - Talk and Fax
  - Answer Options
  - Call Waiting
  - Aux Alert
- Initial Setup
  - Time and Date
  - Speed Dial
  - Auto Redial
  - Backlight
  - Scroll
  - Text Marquee
  - Language
  - DTMF
- TTY Setup
- Master Reset
- Master Clear
- Phone Status
  - My Tel. Numbers
  - Active Line
  - Download Location
  - Storage Devices
  - AGPS Service
- Car Settings
  - Auto Answer
  - Power-off Delay
- Network
  - New Network
  - Network Setup
  - Available Networks
  - My Network List
  - Service Tone
  - Network Jingle
  - Call Drop Tone
- Security
  - Phone Lock
  - Lock Keypad
  - Lock Application
  - Fixed Dial
  - Restrict Calls
  - Call Barring
  - SIM PIN
  - New Passwords
  - Certificate Mgmt
- Java Settings
  - Java App Loader
  - Java System
  - Delete All Apps
  - App Volume
  - App Priority

Safety & General Information[4]

This section contains important information on the safe and efficient operation of your mobile device. Read this information before using your mobile device[5].

Exposure to Radio Frequency (RF) Energy

Your mobile device contains a transmitter and receiver. When it is ON, it receives and transmits RF energy. When you communicate with your mobile device, the system handling your call controls the power level at which your mobile device transmits.

Your Motorola mobile device is designed to comply with local regulatory requirements in your country concerning exposure of human beings to RF energy.

Operational Precautions

For optimal mobile device performance and to be sure that human exposure to RF energy does not exceed the guidelines set forth in the relevant standards, always follow these instructions and precautions.

External Antenna Care

If your mobile device has an external antenna, use only a Motorola-supplied or approved replacement antenna. Use of unauthorized antennas, modifications, or attachments could damage the mobile device and/or may result in your device not complying with local regulatory requirements in your country.

DO NOT hold the external antenna when the mobile device is IN USE. Holding the external antenna affects call quality and may cause the mobile device to operate at a higher power level than needed.

---

[4] Applies to relevant regions only.

[5] The information provided in this document supersedes the general safety information in user's guides published prior to May 1, 2007.

Product Operation

When placing or receiving a phone call, hold your mobile device just like you would a landline phone.

If you wear the mobile device on your body, always place the mobile device in a Motorola-supplied or approved clip, holder, holster, case, or body harness. If you do not use a body-worn accessory supplied or approved by Motorola – or if you hang your mobile device from a lanyard around your neck – keep the mobile device and its antenna at least 2.5 centimeters (1 inch) from your body when transmitting.

When using any data feature of the mobile device, with or without an accessory cable, position the mobile device and its antenna at least 2.5 centimeters (1 inch) from your body.

Using accessories not supplied or approved by Motorola may cause your mobile device to exceed RF energy exposure guidelines. For a list of Motorola-supplied or approved accessories, visit our web site at http://www.motorola.com.

RF Energy Interference/Compatibility

Nearly every electronic device is subject to RF energy interference from external sources if inadequately shielded, designed, or otherwise configured for RF energy compatibility. In some circumstances your mobile device may cause interference with other devices.

Follow Instructions to Avoid Interference Problems

Turn off your mobile device in any location where posted notices instruct you to do so.

In an aircraft, turn off your mobile device whenever instructed to do so by airline staff. If your mobile device offers an airplane mode or similar feature, consult airline staff about using it in flight.

Implantable Medical Devices

If you have an implantable medical device, such as a pacemaker or defibrillator, consult your physician before using this mobile device.

Persons with implantable medical devices should observe the following precautions:

- ALWAYS keep the mobile device more than 20 centimeters (8 inches) from the implantable medical device when the mobile device is turned ON.
- DO NOT carry the mobile device in the breast pocket.
- Use the ear opposite the implantable medical device to minimize the potential for interference.
- Turn OFF the mobile device immediately if you have any reason to suspect that interference is taking place.

Read and follow the directions from the manufacturer of your implantable medical device. If you have any questions about using your mobile device with your implantable medical device, consult your health care provider.

Driving Precautions

Check the laws and regulations on the use of mobile devices in the area where you drive. Always obey them.

When using your mobile device while driving, please:

- Give full attention to driving and to the road. Using a mobile device may be distracting. Discontinue use if you cannot concentrate on driving.
- Use handsfree operation, if available.
- Pull off the road and park before making or answering a call if driving conditions so require.
- Do not place a mobile device in the airbag deployment area.

Responsible driving practices can be found in the "Smart Practices While Driving" section in this user's guide and/or at the Motorola web site: http://www.motorola.com/callsmart.

Note: The use of wireless phones while driving may cause distraction. Discontinue a call if you cannot concentrate on driving. Additionally, the use of wireless devices and their accessories may be prohibited or restricted in certain areas. Always obey the laws and regulations on the use of these products.

Operational Warnings

Obey all posted signs when using mobile devices in public areas.

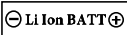### *Potentially Explosive Atmospheres*

Areas with potentially explosive atmospheres are often but not always posted and can include fueling areas such as below decks on boats, fuel or chemical transfer or storage facilities, or areas where the air contains chemicals or particles, such as grain dust, or metal powders.

When you are in such an area, turn off your mobile device, and do not remove, install, or charge batteries. In such areas, sparks can occur and cause an explosion or fire.

Symbol Key

Your battery, charger, or mobile device may contain symbols, defined as follows:

Symbol	Definition
⚠	Important safety information follows.
⊗	Do not dispose of your battery or mobile device in a fire.
♻	Your battery or mobile device may require recycling in accordance with local laws. Contact your local regulatory authorities for more information.
⌧	Do not throw your battery or mobile device in the trash.

Symbol	Definition
⊖ Li Ion BATT ⊕	Your mobile device contains an internal lithium ion battery.
☂	Do not let your battery, charger, or mobile device get wet.
⚠	Listening at full volume to music or voice through a headset may damage your hearing.

Batteries & Chargers

Caution: Improper treatment or use of batteries may present a danger of fire, explosion, leakage, or other hazard.

Choking Hazards

Your mobile device or its accessories may include detachable parts, which may present a choking hazard to small children. Keep your mobile device and its accessories away from small children.

Glass Parts

Some parts of your mobile device may be made of glass. This glass could break if the product is dropped on a hard surface or receives a substantial impact. If glass breaks, do not touch or attempt to remove. Stop using your mobile device until the glass is replaced by a qualified service center.

Seizures/Blackouts

Some people may be susceptible to epileptic seizures or blackouts when exposed to flashing lights, such as when playing video games. These may occur even if a person has never had a previous seizure or blackout.

If you have experienced seizures or blackouts, or if you have a family history of such occurrences, please consult with your physician before playing video games or enabling a flashing-lights feature (if available) on your mobile device.

Discontinue use and consult a physician if any of the following symptoms occur: convulsion, eye or muscle twitching, loss of awareness, involuntary movements, or disorientation. It is always a good idea to hold the screen away from your eyes, leave the lights on in the room, take a 15-minute break every hour, and stop use if you are very tired.

Caution about High Volume Usage

Listening at full volume to music or voice through a headset may damage your hearing.

Repetitive Motion

When you repetitively perform actions such as pressing keys or entering finger-written characters, you may experience occasional discomfort in your hands, arms, shoulders, neck, or other parts of your body. If you continue to have discomfort during or after such use, stop use and see a physician.

FCC Notice to Users[6]

The following statement applies to all products that have received FCC approval. Applicable products bear the FCC logo, and/or and FCC ID in the format FCC-ID:xxxxxx on the product label.

Motorola has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment. See 47 CFR Sec. 15.21.

This device complies with part 15 of the 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. See 47 CFR Sec. 15.19(3).

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 the receiver.
- Connect the equipment to 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.

---

[6] Applies to relevant regions only.

Industry Canada Notice to Users[7]

Operation is subject to the following two conditions: (1) This device may not cause interference and (2) This device must accept any interference, including interference that may cause undesired operation of the device. See RSS-GEN 7.1.5.

---

[7] Applies to relevant regions only.

Use & Care

To care for your Motorola phone, please keep it away from:

Liquids of any kind

Do not expose your phone to water, rain, extreme humidity, sweat, or other moisture.

Extreme heat or cold

Avoid temperatures below -10°C/14°F or above 45°C/113°F.

Microwaves

Do not try to dry your phone in a microwave oven.

Dust and dirt

Do not expose your phone to dust, dirt, sand, food, or other inappropriate materials.

Cleaning solutions

To clean your phone, use only a dry soft cloth. Do not use alcohol or other cleaning solutions.

The ground

Do not drop your phone.

European Union Directives Conformance Statement

$C\epsilon$ Hereby, Motorola declares that this product is in compliance with:

- The essential requirements and other relevant provisions of Directive 1999/5/EC
- All other relevant EU Directives

```
IMEI: 350034/40/394721/9

C€ 0168

Type: MC2-41H14
```

Product Approval Number
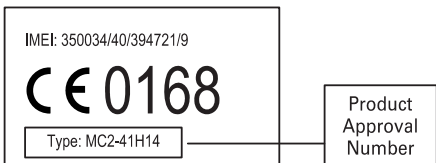
The above gives an example of a typical Product Approval Number.

You can view your product's Declaration of Conformity (DoC) to Directive 1999/5/EC (to R&TTE Directive) at www.motorola.com/rtte. To find your DoC, enter the product Approval Number from your product's label in the "Search" bar on the web site.

Caring for the Environment by Recycling

This symbol on a Motorola product means the product should not be disposed of with household waste.

Disposal of your Mobile Device and Accessories

Please do not dispose of mobile devices or electrical accessories (such as chargers, headsets, or batteries) with your household waste. These items should be disposed of in accordance with the national collection and recycling schemes operated by your local or regional authority. Alternatively, you may return unwanted mobile devices and electrical accessories to any Motorola Approved Service Center in your region. Details of Motorola approved national recycling schemes, and further information on Motorola recycling activities can be found at http://www.motorola.com/recycling.

Disposal of your Mobile Device Packaging and User's Guide

Product packaging and user's guides should only be disposed of in accordance with national collection and recycling requirements. Please contact your regional authorities for more details.

Essentials

Caution: Before using the phone for the first time, read the Important Safety and Legal Information included in this guide.

Getting Started

Initial Setup

Inserting your SIM	With your phone powered off, slide the SIM card into the SIM card holder at the right side of the phone until it clicks into place.
Turning On/Off	The phone powers on and off automatically using the car's ignition sensor. For manual operation press and hold the **End** key until the display panel lights on/off.
Ring Tone Volume	When no call is active, press either of the volume keys on the left side of the phone to set the ring tone volume.
Call Volume	During a call, press either of the volume keys on the left side of the phone to adjust the call volume.
Muting Microphone	During a call, press **Mute** to disable the microphone. Press **Unmute** to enable the microphone.
Key Volume	Press ◯ > **Settings** > **Ring Styles** > **[Style] Detail** > **Key Volume**.
Setting Menu View	Press ◯ > **Settings** > **Personalize** > **Main Menu** > **View**. Select **Icons** or **List**.
Time & Date	To set the time and date, press ◯ > **Settings** > **Initial Setup** > **Time and Date**.
Ring Setting	Press ◯ > **Settings** > **Ring Styles** > **Ring Detail**, and select your favorite tones.

Call Management

Answering a Call	Press **Send** or **Answer**, or press the **Smart Key**.
Ending a Call	Press **End**, or press the **Smart Key**.
Making a Call	Enter the number you want to call and press **Send**.
Call Forward	To forward voice/fax/data calls from your car phone, press ◯ > **Settings** > **Call Forward** and follow the instructions.
Recent Calls	To browse your recent calls list, press ◯ > **Recent Calls**, and select the desired number.
Voice Mail	To dial your voicemail press and hold ⬛.
1-Touch Dial	To call phonebook entries 1 through 9, press and hold the single-digit speed dial number for one second. You can set 1-touch dial to call the entries in your phonebook's memory, SIM card or Fixed Dial list: Press ◯ > **Settings** > **Initial Setup** > **Speed Dial** > **Phone Memory** or **Fixed Dial**.
Voice Activated Name Dialing	To activate name dialing, press the **Smart Key** once and say the entire name clearly after the prompt.
Voice Activated Number Dialing	To activate number dialing, press the **Smart Key** twice and say the phone number clearly after the prompt.

Additional Features

Speed Dial	Enter speed dial number as was assigned to the phonebook entry, press ![key] and then press **Send** to dial.
Storing a New Number	Enter the phone number and press **Store**. Enter the various entry details and press **Done** to finish.
Advanced Phonebook Search	Access the **Phonebook** menu, enter character(s) and press **Search**.

About this Guide

This guide shows how to open a menu feature as follows:

Press ◯ > **Tools** > **Messages** > **Create Message**.

This means that, from the home screen:

1. Press the Jog Dial (◯) to open the menu.
2. Turn the Jog Dial right or left to scroll to **Messages**, and press it to select this menu item.
3. Turn the Jog Dial right or left to scroll to **New Message**, and press it to select this menu item.

Symbols

Symbol	Description
![icon]	This means a feature is network, SIM card, or subscription dependent and may not be available in all areas. Contact your service provider for more information.
![icon]	This means a feature requires an optional accessory.

SIM Card

Your *Subscriber Identity Module* (SIM) card contains personal information like your phone number and phonebook entries.

Caution: Do not bend or scratch your SIM card. Keep it away from static electricity, water, and dirt.

Install the SIM Card

To install the SIM card, please do the following:

1. Turn off your phone.
2. Open the protective cap of the SIM card holder, located at the right side of the phone.
3. Make sure that the beveled corner of the SIM card is facing towards the top of the phone, and that the SIM card's metal contacts are facing towards the front of the phone. Slide the SIM card into the SIM card holder until it clicks into place and replace the protective cap.

Turn the Phone On & Off

Caution: Some phones ask for your SIM card PIN code when you turn them on. If you enter an incorrect PIN code three times before the correct code, your SIM card is disabled, and your display shows **SIM Blocked**. Contact your service provider.

To turn on your phone, press and hold **End** for a few seconds or until the keypad or display lights up. If prompted, enter your eight-digit SIM card PIN code and/or four-digit unlock code.

To turn off your phone, press and hold **End** for a few seconds.

Make a Call

To make a call, enter a phone number and press **Send**. To hang up, press **End**.

To use voice commands for calling, see Voice Activation Services on page 20.

Answer a Call

To answer a call when your phone rings, press **Send**. To hang up, press **End**.

Note: Your phone cannot receive data over an EDGE network while it is playing videos or some sound files. The EDGE status indicator (⋷) appears at the top of your display when you can receive data over an EDGE network.

Store a Phone Number

To store a phone number in your phonebook, press ◯ > **Phonebook** > **Options** > **Create New** > **Phone Contact** or **SIM Contact**.

Note: You can store new contacts in your phone's memory or on your SIM card.

Contacts on the SIM card only have a Name and Number.

1. Enter a name and other details for the phone number. To select a highlighted item, press the Jog Dial.

2. Press **Done** to store the number.

To edit or delete a phonebook entry, see Phonebook on page 60.

To store an email address from the home screen, press ◯ > **Phonebook** > **New Entry**. Enter the new contact's name and email information.

Shortcut: Enter a phone number in the home screen, then press **Store** to create a contact. To choose whether your phone stores these contacts in your phone's memory or on your SIM card, go back to the home screen and press ◯ > **Phonebook**, then press **Options** > **Setup** > **Default Storage** > **Phone** or **SIM Card**.

Call a Stored Phone Number

To call a stored phone number:

1. Press ◯ > **Phonebook**.

2. Scroll to the desired phonebook entry.

   Shortcut: In the phonebook, use the keypad to enter the first letters of the desired entry.

3. Press **Send** to call the entry.

Note: You can show contacts stored in your phone's memory or on your SIM card. To choose which contacts you see, press ◯ > **Phonebook** > **Options** > **View**. Select **Phone & SIM Card**, **SIM Card**, or **Phone Contacts**.

To use voice commands for calling, see Voice Activation Services on page 20.

Main Attractions

You can do much more with your phone than make and receive calls!

Smart Key

Your phone incorporates a special **Smart Key**, which lets you do the following easily:

- Activate voice commands and select various menu items by saying their name (see Voice Activation Services on page 20).
- Dial to a name stored on the phonebook by saying the name (see Name Dialing on page 20).
- Dial a phone number by saying the number (see Number Dialing on page 21).
- Create a voice record (see Voice Record on page 64).

Voice Activation Services

You can use voice commands to tell your phone what to do.

Name Dialing

You can easily dial to any name saved on your phonebook by doing the following:

1. Press the **Smart Key** once.

   The phone will prompt for the name ("**Say Name**").

2. Say the entire name clearly.

   The phone will search the phonebook, and display up to four matches of phone numbers related to the recognized name.

3. The phone will ask which number to dial from the matches found.

4. Guide the phone to the correct number.

5. The phone will repeat your selection and automatically dial the number.

Note: Always say the entire name, as stored in the phonebook. The phone cannot recognize partial names.

Note: Initial recording or training is not required in order to use this feature. The voice recognition is speaker independent.

Number Dialing

You can easily dial to any number by doing the following:

1. Press the **Smart Key** twice.

   The phone will prompt for the number to dial ("**Say Number**").

2. Say the phone number clearly.

3. The phone will repeat the number and automatically dial it.

Note: Initial recording or training is not required in order to use this feature. The voice recognition is speaker and language independent.

Voice Menus Activation

You can activate various menu items by doing the following:

1. Press ◯, and then press the **Smart Key**. Clearly say the desired menu item to select it.

   Your phone says "**Say Shortcut**".

2. Say a voice command from the following list:

   - Applications
   - Bluetooth Link
   - Browser
   - Call Forward
   - Car Settings
   - Connection
   - Datebook
   - Dialing Services
   - Fixed Dial
   - Fun & Info
   - Messages
   - Multimedia
   - Navigation
   - Personalize
   - Phonebook
   - Pictures
   - Recent Calls
   - Ring Styles
   - Settings
   - Sounds
   - Tools
   - Voice Records

Note: Initial recording or training is not required in order to use this feature. The voice recognition is speaker and language independent.

Voice Activation Settings

To set voice activation features on your phone, press ◯ >
Tools > **Voice Activation** and select from the following:

Language – select the voice activation language.

Voice Comments – select **On** or **Off** to enable or disable the
voice comments generated by the phone for name dialing and
number dialing. If you select **Off** the phone will only beep.

Incoming Call Recognition

When receiving an incoming call, the phone will say the name of
the caller (if the recognized phone number is stored in the
phonebook).

If the recognized number is not stored in the phonebook, the
phone will say the number.

To enable or disable the incoming call recognition feature,
press ◯ > **Tools** > **Voice Activation** > **Incoming Voice Calls** >
On or **Off**.

Note: Your service provider's network must support the caller ID
function and provide the caller's number in order for this feature
to work properly.

Call Answering by Voice Command

When receiving an incoming call, the phone will ask you if you
want to answer the call ("**Call from… Accept the call?**").

Press **Yes** to accept the call, or **No** to reject it.

GPS

Your phone incorporates a built-in GPS receiver, which can be
used by a compatible Java™ application to help you navigate
your way quickly and easily.

What is GPS?

GPS stands for Global Positioning System – a satellite-based
radio navigation system which was developed by the U.S.
Department of Defense. The system is formed by 24 satellites

orbiting the earth and continuously transmitting various signals. A standard GPS receiver can calculate its current latitude, longitude and elevation anywhere on earth, by analyzing these signals and measuring the distance between itself and these satellites.

In optimal conditions, a GPS receiver can calculate its location to an accuracy of a few meters. The accuracy mainly depends on the number of GPS satellites to which the GPS receiver is in a line of sight, but may be subject to other factors too.

Navigation Applications & Services

Using the Global Positioning System maintained by the U.S. Department of Defense is free of charge and no subscription is needed.

However, downloading a navigation application and/or using its navigation system may require a subscription and/or be subject to separate fees. To check the availability and pricing of navigation applications and services, please contact your network operator or service provider. Your network operator or service provider will also give you a link from which to download the navigation application and usage instructions.

Note: The availability of the navigation application and/or service depends on your network operator and/or service provider and may vary by location.

Warnings

1. Operating the navigation application while driving may cause distraction. If you cannot concentrate on driving, pull off the road and park the car.

2. Do not rely on your navigation system solely in times of emergency. Temporary unavailability of this system, poor GPS coverage, outdated or partial cartography, etc. may render it unusable when you need it most.

3. Always exercise discretion when using your navigation system, and do not rely on its guidance solely. The cartography provided by this system may not fully reflect any recent changes to roadways, and the route chosen may not always be the best alternative.

Bluetooth® Wireless Technology

You can connect various audio and data devices to your phone without cables using Bluetooth wireless technology.

What is Bluetooth Wireless Technology?

Bluetooth wireless technology provides a way to connect and exchange information between devices such as mobile phones, computers, printers, digital cameras, etc. over a secure, globally unlicensed short-range radio frequency.

Your phone supports Bluetooth Class 2.0, which allows connections to compatible devices within 10 meters. Since Bluetooth devices use radio frequency to communicate, they do not have to be in line of sight of each other in order to maintain the Bluetooth connection, as long as the received transmission is powerful enough and not obstructed or interfered (e.g., by walls and/or other electronic devices).

Note: The use of wireless phones while driving may cause distraction. Discontinue a call if you cannot concentrate on driving. Additionally, the use of wireless devices and their accessories may be prohibited or restricted in certain areas. Always obey the laws and regulations on the use of these products.

Tip: For maximum Bluetooth security, you should always connect Bluetooth devices in a safe, private environment.

By default, the Bluetooth feature on your phone is always on. To disable the Bluetooth feature, press ◯ > **Settings** > **Connection** > **Bluetooth Link** > **Setup** > **Power** > **Off**.

Connect a Bluetooth Headset

Before you try to connect your phone to a Bluetooth headset, make sure the headset is on and ready in pairing mode (for details about pairing the headset please refer to its user guide). You can connect your phone to only one headset at a time.

Press Ⓞ > **Settings** > **Connection** > **Bluetooth Link** > **Add Audio Device**.

Your phone lists the devices it finds within range.

1. Scroll to the desired headset and press Ⓞ.

2. Press **Yes** to connect to the headset.

3. If necessary, enter the headset passkey (for example, **0000**) and press Ⓞ.

4. Press **End** to exit to the home screen.

The phone will establish the connection to the Bluetooth headset and return to the home screen. When your phone is connected, the Bluetooth indicator (🔵) appears in the home screen.

Shortcut: When your phone's Bluetooth power is on, your phone can automatically connect to a headset you have used before. Just turn on the device, or move it near the phone. If the device does not connect, turn it off and back on.

Use your M990 as a Car Kit

You can connect a compatible Bluetooth mobile device to your M990, and use the M990 as a car kit for handsfree operation. The other mobile device must support the Handsfree Profile for this feature to work.

To connect another Bluetooth mobile device:

1. Press Ⓞ > **Settings** > **Connection** > **Bluetooth Link** > **[Find Me]**. Your phone will enter discoverable mode for 3 minutes.

2. On the other device, search for Bluetooth devices and select the M990 phone from the list of discovered devices. Enter the Bluetooth PIN **0000** and confirm.

3. On the M990, press **Yes** when the prompt **Bond with other device?** appears.

5. When the prompt **Handsfree voice requested by** appears, Press **Grant**.

6. Press **End** to exit to the home screen.

When your M990 serves as a car kit for the other mobile device, you can:

- Make and receive voice calls.
- Reject an incoming voice call.
- Terminate a voice call.

Note: When working as a car kit, you cannot use a Bluetooth headset with your M990.

Copy Files to Another Device

You can copy a media file, phonebook entry, datebook event, or web shortcut from your phone to a computer or other device.

Note: Some copyrighted objects cannot be copied.

1. On your phone, scroll to the object that you want to copy to the other device.

2. Press **Options**, then select:

   - **Manage** > **Copy** – for media files.
   - **Send Contact** – for phonebook entries.
   - **Send** – for datebook events.

3. Select a recognized device name, or **[Look For Devices]** to search for the device where you want to copy the file.

If your phone could not copy the file to the other device, make sure the device is on and ready in discoverable mode (for details about making the device discoverable please refer to its user guide). Also, make sure the device is not busy with another similar Bluetooth connection.

Note: Once you connect your phone to a Bluetooth device, that device can start similar Bluetooth connections with your phone.

Your display shows the Bluetooth indicator (**E**) at the top when there is an active Bluetooth connection.

Receive Files from Another Device

1. Place your phone near the device, and send the file from the device.

   If your phone and the sending device do not recognize each other, place your phone in discoverable mode so the sending device can locate it by pressing ◎ > **Settings** > **Connection** > **Bluetooth Link** > **Find Me**.

2. Press **Accept** on your phone to accept the file from the other device.

Your phone notifies you when file transfer is complete. If necessary, press **Store** to save the file.

Use your M990 as a Bluetooth Modem

You can use your M990 as a Bluetooth modem for a compatible Bluetooth data device (e.g., PC or other hand-held device) and connect it to a dial-up internet access server.

To use your M990 as a Bluetooth modem for a compatible Bluetooth data device:

1. Make sure the other device is on and ready in discoverable mode (for details about making the device discoverable please refer to its user guide).

2. Press ◎ > **Settings** > **Connection** > **Bluetooth Link** > **Find Me**.

   If the M990 was already connected to a compatible Bluetooth device in the past, a history list of such devices will be displayed. Scroll to the desired device, press **Select** and skip steps 3 to 4.

If the M990 was not connected to any compatible Bluetooth devices in the past, it will search for available Bluetooth devices that support the Dial-up Networking Profile and display a list of the detected devices. If only one Bluetooth device was found, the M990 will automatically select it and you can skip step 3.

3. Scroll to the mobile device you wish to connect your M990 to and press **Select**.

4. If necessary, enter the other device passkey and press **Ok**.

Note: The phone will put a GPRS call on hold when a voice call enters. When you finish the voice call, the phone will ask if you wish to resume the GPRS call.

Synchronize Phonebook & Datebook with another Bluetooth Device

You can use your M990 to synchronize phonebook and datebook entries with a compatible Bluetooth device.

To synchronize your M990 phonebook and datebook with a compatible Bluetooth device:

1. Make sure the other device is on and ready in discoverable mode (for details about making the device discoverable please refer to its user guide).

2. Press ◎ > **Settings** > **Connection** > **Bluetooth Link** > **Find Me**.

   If the M990 was already connected to a compatible Bluetooth device in the past, a history list of such devices will be displayed. Scroll to the desired device, press **Select** and skip steps 3 to 4.

   If the M990 was not connected to any compatible Bluetooth devices in the past, it will search for available Bluetooth devices that support the Synchronization Profile and display a list of the detected devices. If only one Bluetooth device was found, the M990 will automatically select it and you can skip step 3.

3. Scroll to the mobile device you wish to connect your M990 to and press **Select**.

4. If necessary, enter the other device passkey and press **Ok**.

5. Initiate the synchronization on the other device.

Note: You can only synchronize phonebook entries stored on the phone memory with this feature. Phonebook entries stored on SIM cards will not be synchronized.

Multiple User Profiles

Your phone supports three user profiles. Each profile stores the following information:

- Phonebook entries – up to 500 entries (phone memory only, SIM contacts are excluded).
- Datebook entries.
- Personal data – **Home Screen**, **Main Menu**, **Color Style**, **Greeting**, **Wallpaper**, and **Screen Saver**.
- Ring styles – **Ring Volume**, **Line 1**, **Line 2**, **Messages**, **Voicemail**, **Info Svcs**, **Data Calls**, **Fax Calls**, **Ringer IDs**, **Key Volume**, **Reminders**.
- Voice activation data – **Voice Records**, **Language**.
- Initial setup data – **Backlight**, **Contrast**, **Speed Dial**, **Language**.

Note: The active user profile will be displayed on the indicators bar of the phone display as A, B or C.

Creating a New User Profile

Press ◯ > **Tools** > **User Profiles**, and select **NEW**.

The phone will load the default user profile settings, which you can change later to accommodate your needs.

Managing User Profiles

Press ◯ > **Tools** > **User Profiles**, and select the user profile to manage.

Press **Options**, and select one of the following:

Option	Description
Save As	Save the current active user profile.
Rename	Assign a new name to the selected user profile.
Delete	Delete the selected user profile. **Note:** Only inactive profiles may be deleted. If you try to delete an active profile, an error message will be displayed.
Security	**Enabled**/**Disabled** (default: **Disabled**)

Audio Player

To play audio files, press ◯ > **Multimedia** > **Sounds**, and select the file you want to play.

Four controls will appear on the screen (**Play/Pause**, **Go to Next Track**, **Stop & Rewind** and **Go to Previous Track**).

Turn the Jog Dial right or left to highlight the desired control and press to select it.

To download songs to your phone, see Download Objects from a Web Page on page 67. To copy files between your phone and a computer, see Copy Files to Another Device on page 26.

Note: Your phone may not play audio files that have a bit rate higher than 128 kbps. If you try to download or play such files, your phone might show you an error or ask you to delete the file.

Memory Card

You can use a removable memory card (optional) with your phone to store and retrieve multimedia objects, such as pictures and sounds.

The phone supports MicroSD memory cards of up to 2GB.

Note: If you download a copyrighted file and store it on your memory card, you can use the file only while your memory card is inserted in your phone. You cannot send, copy, or change copyrighted files.

Install a Memory Card

To install a memory card, please do the following:

1. Open the protective cap of the memory card holder, located at the right side of the phone.
2. Make sure the memory card's metal contacts are facing towards the back of the phone, and slide the memory card into the memory card holder until it clicks into place. Replace the protective cap.

Remove a Memory Card

To remove the memory card, please do the following:

1. Slide the memory card out of the memory card holder, located at the right side of the phone.
2. Replace the protective cap of the memory card holder.

Warning: Never remove your memory card while your phone is using it or writing files on it.

Manage Files on a Memory Card

To view the files stored on your memory card and on your phone, open a file list, such as **Pictures**. Icons will indicate if a file is stored in your phone memory (☎) or on your memory card (🗋).

To copy or move a file from your phone to your memory card, highlight it in the list and press **Options** > **Manage** > **Copy** or **Move** > **Memory Card**. Some copyrighted files cannot be copied or moved.

To copy files between your memory card and another device, you can use a cable connection (see Cable Connections on page 69) or a Bluetooth connection (see Copy Files to Another Device on page 26 and Receive Files from Another Device on page 27).

To connect your memory card to a computer, see Connect Your Memory Card to a Computer on page 70).

View Memory Card Information

To view your memory card name, the available memory, and other information about the card, press ◯ > **Settings** > **Phone Status** > **Storage Devices**.

1. Press ◯ to scroll to the installed memory card.
2. Press ◯ to see the memory card information. Your phone stores any content that you add, like ring tones or applications, in the user memory. Your service provider may store some content in the user memory before you receive the phone.

Format or Rename a Memory Card

Press **Options** to see the **Storage Device** menu, which lets you format or rename the memory card.

Basics

To view a basic phone diagram, see HELLOMOTO on page i.

Display

The home screen appears when you turn on the phone.
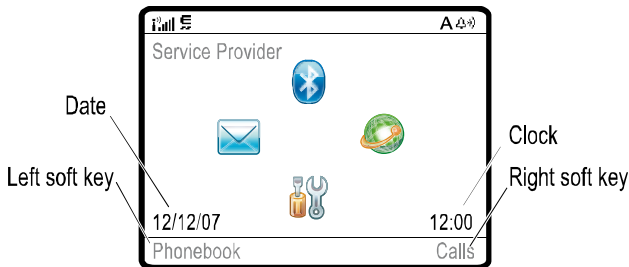
Figure 5: Home screen items.

Note: Your home screen might look different from the one shown, depending on your service provider.

To dial a number from the home screen, enter the number using the number keys and then press **Send**.

Turn the Jog Dial clockwise or anticlockwise to scroll through the four home screen menu icons (**Bluetooth Link**, **WebAccess**, **Settings** and **Messages**). Press ◯ to enter the selected menu.

Press ◯ (when no home screen menu icon is selected) to enter the main menu. Soft key labels show the current soft key functions.

Status indicators can show at the top of the home screen:

1. Singal Strength
2. EDGE / GPRS
3. Data
4. Roam
5. Active Line
6. Message
7. User Profile
8. Ring Style

Service Provider

12/12/07   12:00
Phonebook   Calls
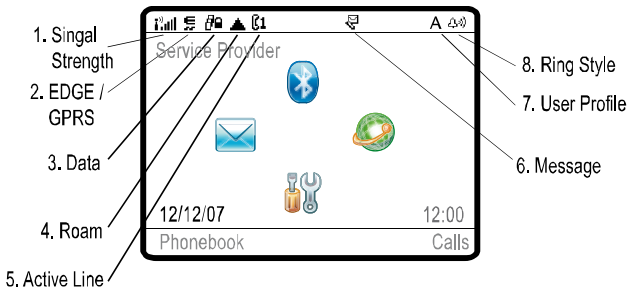
Figure 6: Status indicators on the home screen.

1. **Signal Strength Indicator** – Vertical bars show the strength of the network connection. You cannot make or receive calls when **1** or **O** appears.

2. **EDGE/GPRS Indicator** – Shows when your phone is using a high-speed Enhanced Data for GSM Evolution (EDGE) or General Packet Radio Service (GPRS) network connection. Indicators can include:

   H GPRS PDP context

   E EDGE active

   B GPRS packet data available

3. **Data Indicator –** Shows the connection status.

   L Secure packet data transfer

   K Unsecure packet data transfer

   N Secure application connection

   M Unsecure application connection

S Secure Circuit Switch Data (CSD) call

T Unsecure CSD call

E Bluetooth connection is active

4. **Roam Indicator** – Shows **W** when your phone is seeking or using a network outside your home network.

5. **Active Line Indicator** – Shows **H** to indicate an active phone call, or **G** to indicate when call forwarding is on. Indicators for dual-line-enabled SIM cards can include:

   F Line 1 active

   I Line 1 active, call forward on

   E Line 2 active

   J Line 2 active, call forward on

6. **Message Indicator** – Shows when you receive a new message. Indicators can include:

   g Text message

   Ë Voice message

   è Voice & text message

7. **User Profile Indicator** – Shows the current user profile.

8. **Ring Style Indicator** – Shows the ring style setting.

Text Entry

Your phone lets you enter text in various ways.

For indicator descriptions see following section

Flashing cursor indicates insertion point

Press **Delete** to delete characters

Press **Options** to open the submenu
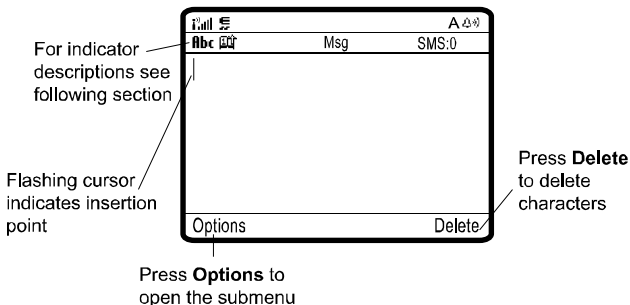
Figure 7: Text entry.

Press ![key] in a text entry view to select an entry mode:

Entry Modes

Mode	Description
j or g	Your **Primary** text entry mode can be set to any iTAP® j or tap g mode.
n or m	Your **Secondary** text entry mode can be set to any iTAP n or tap m mode, or set to **None** if you do not want a secondary entry mode.
W	**Numeric** mode enters numbers only.
@%	**Symbol** mode enters symbols only.

To set your primary and secondary text entry modes, press **Options** > **Text Setup** in a text entry view and then select **Primary Text** or **Secondary Text**.

iTAP® & Tap Mode Tips

- Press ⬚ in a text entry view to change text case to all capital letters (T), no capitals (U), or next letter capital (V).

- To enter numbers quickly, press and hold a number key to temporarily switch to numeric mode. Press the number keys to enter the numbers you want. Enter a space to change back to iTAP or Tap mode.

- Press ⬚ to enter punctuation or other characters.

- Press ⬚ to move the flashing cursor to enter or edit message text.

- Press **Delete** to delete the character to the left of the cursor. Hold to delete the word.

- To cancel your message, press **End**.

iTAP® Mode

Press ⬚ in a text entry view to switch to iTAP mode. If you do not see j or g, press **Options** > **Text Setup** to set iTAP mode as your primary or secondary text entry mode.

iTAP mode lets you enter words using one keypress per letter. The iTAP software combines your keypresses into common words and predicts each word as you enter it.

For example, if you press [key] [key] [key] [key], your display shows:

Press the Jog Dial to see the next word suggestion

Turn the Jog Dial right to confirm the suggested word and enter a space

Abc Msg SMS:7

Program›

Press **Options** to open the message options

Options Delete

Press **Delete** to delete characters
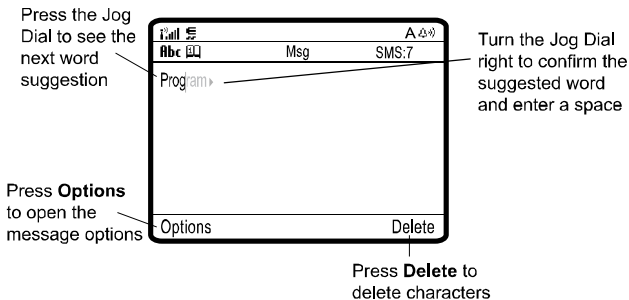
Figure 8: Using iTAP mode.

If you want a different word (such as **Progress**), continue pressing the keypad to enter the remaining letters.

Tip: Do not worry if you forget how iTAP works. In a text entry display, you can press **Options** > **Text Setup** > **Text Tutorial** to see an explanation.

Tap & Tap Extended Modes

Press [key] in a text entry view to switch to tap mode. If you do not see **Abc1** or **Abc2**, press **Options** > **Text Setup** to set Tap mode as your primary or secondary text entry mode.

To enter text in Tap mode, press a keypad key repeatedly to cycle through the letters and number on the key. Repeat this step to enter each letter. The Tap Extended mode works the same way, but includes more special characters and symbols.

For example, if you press ![key] one time, your display shows:

Character displays at insertion point

Your phone might suggest a word. Turn the Jog Dial right to accept it, or press it to ignore the suggestion

Press **Options** to open the message options

Press **Delete** to delete characters
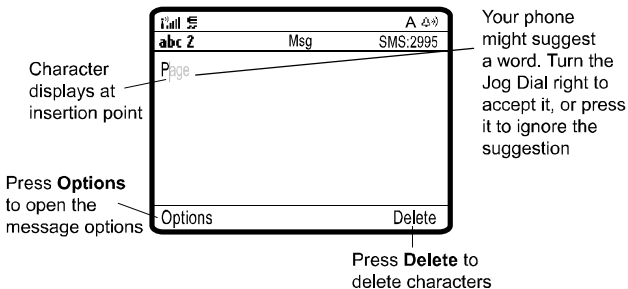
Figure 9: Using Tap & Tap Extended modes.

The first character of every sentence is capitalized. To switch between upper and lower case mode, press ![key].

Numeric Mode

Press ![key] in a text entry view until you see W. Press the number keys to enter the numbers you want.

Shortcut: You can press and hold a number key to temporarily switch to numeric mode from iTAP™ or Tap modes. Press the number keys to enter the numbers you want. Enter a space to change back to iTAP mode.

Symbol Mode

Press ![key] in a text entry view until your display shows a list of symbols. Press the respective number key to insert the desired symbol.

Volume
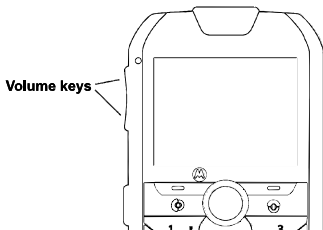
Figure 10: Volume keys.

Press the volume keys to:

- Turn off an incoming call alert.
- Adjust the earpiece volume during calls.
- Adjust the ringer volume from the home screen.

Tip: Sometimes silence really is golden. That is why you can quickly set your ringer to **Silent** by holding the down volume key while you are in the home screen. You can also switch to **Silent**

or back by holding ![key icon] in the home screen.

Jog Dial

Your phone features a unique Jog Dial (Ⓞ), with which you can scroll easily through menus and select menu items.

How to Use the Jog Dial?

When the phone displays the home screen:

- Turn the Jog Dial clockwise or anticlockwise to scroll through the four home screen menu icons (**Bluetooth Link**, **WebAccess**, **Settings** and **Messages**). Press Ⓞ to enter the selected menu,

  or

- Press Ⓞ (when no home screen menu icon is selected) to enter the main menu.

Inside a menu:

Turn the Jog Dial clockwise or anticlockwise to scroll through the menu items. Turning the Jog Dial clockwise inside a graphical menu will move the selection right and down. Turning the Jog Dial anticlockwise inside a graphical menu will move the selection left and up.

When you reach the desired item, press ⬤ to select it.

Text Messages

You can use your phone for text messaging.

Send a Text Message

A text message can contain text and pictures, sounds, or other media objects. You can add multiple pages to a message, and put text and media objects on each page. You can send a message to other compatible phones or to email addresses.

To create a new message, press ⬤ > **Tools** > **Messages** > **Create Message** > **New Message**.

1. Use the keypad to enter text to the message page (for details about text entry, see Text Entry on page 36).

   To insert a picture, sound, or other object on the page, press **Options** > **Insert**. Select the file type and the file.

   To insert another page in the message, enter text or objects on the current page and press **Options** > **Insert** > **New Page**. You can enter more text and objects to the new page.

2. Before you send a message, you can press **Options** to choose **Save to Drafts**, **Cancel Message**, or open **Sending Options** (such as message **Subject** or **CC addresses**).

3. When you finish the message, press **Options** > **Send Message To**.

4. Scroll to a recipient and press ⬤. Repeat to add other recipients.

   To enter a new number or email address, press **Options** and select **Enter Number** or **Enter Email**.

Your phone might tell you that this is a multimedia message, if it has multiple pages or media objects in it. Some other phones or networks do not support multimedia messages. Press **Send** to send the message.

Receive a Text Message

When you receive a message, your phone plays an alert, and the display shows **New Message** with a message indicator, such as ɡ. Press **Read** to open the message.

To view all your text messages, press ◎ > **Tools** > **Messages** > **Message Inbox**.

If a multimedia message contains media objects:

- Pictures and animations show as you read the message.
- A sound file plays when its slide shows. Use the volume keys to adjust the sound volume.
- Attached files are added to the end of the message. To open an attachment, scroll to the file indicator/filename and press **View** (image), **Play** (sound), or **Open** (phonebook vCard, datebook vCalendar entry, or unknown file type).

Send Email

Press ◎ > **Tools** > **Messages** > **Create Message** > **New Email**.

Send Voice Message

Press ◎ > **Tools** > **Messages** > **Create Message** > **New Voice Msg**.

Press **Record** to record the voice message. To stop recording, press **Stop**. Your phone inserts the voice recording into a message and lets you enter email addresses or phone numbers of the recipients.

Read & Manage Messages

Press ◯ > **Tools** > **Messages** > **Message Inbox**.

Icons next to each message indicate if it is read (◹) or

unread (ɡ). Icons can also indicate if the message has an

attachment (◫), might be spam (?), or is locked (🔒), urgent (!), or

low priority (↓).

To **Reply**, **Forward**, **Lock**, or **Delete** a message, scroll to the
message and press **Options**.

To open a message, press ◯. Then, you can press **Options** to
use or store any phone numbers, email addresses, web sites, or
files in the message.

Read & Manage Email

Press ◯ > **Tools** > **Messages** > **Email Msgs**.

To **Reply**, **Forward**, **Lock**, or **Delete** a message, scroll to
the message and press **Options**.

To open a message, press ◯. Then, you can press **Options** to
use or store any phone numbers, email addresses, web sites, or
files in the message.

Send a Stored Picture in a Message

Press ◯ > **Tools** > **Messages** > **Create Message** > **New
Message**, then press **Options** > **Insert** > **Picture**.

1. Scroll to the desired picture and press **Insert**.

2. Enter the message text, and press **Options** > **Send
   Message To**.

3. Scroll to a recipient and press ◯.

Store Message Objects

Go to a multimedia message page, or scroll to an object
in a message and then press **Options** > **Store**.

Print Message over a Bluetooth Connection

You can use a Bluetooth connection to send a message from your phone to a printer.

Press ◯ > **Tools** > **Messages** > **Message Inbox**, **Email Msgs**,

Scroll to the message you want to print and press **Options** > **Print**.

You cannot print message templates. For more about Bluetooth connections, see Bluetooth® Wireless Technology on page 24.

Store Text Messages on your SIM Card

To store incoming text messages on your SIM card, press ◯ > **Tools** > **Messages** > **Options** > **Setup** > **Message Setup** > **Text Msg Setup** > **Default Storage** > **SIM Card**.

Edit Email Settings

You can edit the settings for your Email connections. To use email, you need to store your email User ID and Password.

Press ◯ > **Tools** > **Messages** > **Options** > **Setup** > **Email Msg Setup** > **Account Settings**.

If you have more than one email account, select an account to edit.

Your phone shows a list of email settings. Here is where you store your email User ID and Password.

Note: To create a new account, select **[New Entry]** in the **Account Settings** list. Your display shows a folder for each email account under ◯ > **Tools** > **Messages** > **Email Msgs**.

Browser Messages

To read messages received by your micro-browser, press ◯ > **Tools** > **Messages** > **Browser Msgs**.

Info Services

To read subscription-based information services
messages, press ◎> **Messages** > **Info Services**.

Templates

You can use pre-programmed text and multimedia
templates to write messages quickly and easily.

Text Templates

The phone contains the following pre-programmed text
templates:

- Please call me back.
- When can we meet?
- Where are you?
- When does the meeting start?
- What is your number?
- See you later.
- I am here.
- Thank you very much!

To create a new text message from an existing template,
press ◎ > **Tools** > **Messages** > **Templates** > **Text Templates**,
scroll to the desired template and press the Jog Dial to insert the
selected text to a new message.

To insert the text of a template to a text message:

On the message editor, put the cursor on the place you would
like to add the template and press **Options** > **Insert** > **Template**.
Scroll to the desired template and press the Jog Dial to add it.

To create a new text template, press ◎ > **Tools** > **Messages** >
Text Templates > **New Text Template**. Write the desired text
and press **Ok** to save the new template.

To edit or delete existing text templates, press ◎ > **Tools** >
Messages > **Templates** > **Text Templates** > **Options** and select
the desired option from the list.

Multimedia Templates

To create a new multimedia message from an existing template, press ◯ > **Tools** > **Messages** > **Templates** > **Multimedia Templates**, scroll to the desired template and press the Jog Dial to insert the selected template to a new message.

To edit and save an existing multimedia template, press ◯ > **Tools** > **Messages** > **Templates** > **Multimedia Templates**, select the template you would like to edit and press **Options** > **New Message**. Edit the template, and press **Options** > **Save as Template** to save it.

Voicemail

Your network stores the voicemail messages you receive. To listen to your messages, call your voicemail number.

Note: Your service provider may include additional information about using this feature.

When you receive a voicemail message, your phone shows the voicemail message indicator (✉) and **New Voicemail**. Press **Call** to listen to the message.

To check voicemail messages, press ◯ > **Tools** > **Messages** > **Voicemail**.

Your phone may prompt you to store your voicemail phone number. If you do not know your voicemail number, contact your service provider.

Note: You cannot store a **p** (pause), **w** (wait), or **n** (number) character in this number. If you want to store a voicemail number with these characters, create a phonebook entry for it. Then you can use the entry to call your voicemail.

To change your voicemail number or turn off voicemail notification, press ◯ > **Tools** > **Messages** > **Options** > **Setup** > **Voicemail Setup**.

Tip: To quickly dial to your voicemail, press and hold the #1 key.

Personal Organizer

Set Alarm

Press ◎ > **Tools** > **Alarm Clock**.

Turn Off Alarm

When an alarm happens: To turn off the alarm, press **Disable** or **End**. To set an eight-minute delay, press **Snooze**.

Note: The **Snooze** key is available only if the phone is already powered on when the alarm sounds.

Add New Datebook Event

Press ◎ > **Tools** > **Datebook**, scroll to the day, press ◎, scroll to **Create New Event** and press ◎.

If you set a reminder for a datebook event, can appear at the top of your screen.

See Datebook Event

To see or edit event details, press ◎ > **Tools** > **Datebook**, scroll to the day, and press ◎.

Scroll to the event and press ◎. To edit the details, press **Options** > **Edit**.

Tip: To see a list of your upcoming events, open the datebook and press **Options** > **View** > **Organized Events**.

Event Reminder

When an event reminder happens:

To see reminder details, press **View**.

To close the reminder, press **Exit**.

Send Datebook Event to Another Device

To send a datebook event to another phone, computer, or device, press ◯ > **Tools** > **Datebook**, scroll to the day, press ◯, scroll to the event, press **Options** > **Send** > **with Bluetooth** or **with MMS**.

Print Datebook Month, Week, or Day over Bluetooth Connection

You can use a Bluetooth connection to send a datebook month, week, or day from your phone to a printer.

Press ◯ > **Tools** > **Datebook**.

Go to the month, week, or day view and press Options > Print.

For more about Bluetooth connections, see Bluetooth® Wireless Technology on page 24.

Codes & Passwords

Your phone's four-digit unlock code is originally set to **1234**. The six-digit security code is originally set to **000000**. If your service provider did not change these codes, change them by pressing ◎ > **Settings** > **Security** > **New Passwords**.

You can also change your SIM PIN password.

If you forget your unlock code: At the **Enter Unlock Code** prompt, try entering **1234** or the last four digits of your phone number. If that does not work, press ◎ and enter your six-digit security code instead.

If you forget other codes: If you forget your security code, SIM PIN code, PIN2 code, or call barring password, contact your service provider.

Lock & Unlock Phone

You can lock your phone to keep others from using it. To lock or unlock your phone, you need the four-digit unlock code.

To manually lock your phone, press ◎ > **Settings** > **Security** > **Phone Lock** > **Lock Now**.

To automatically lock your phone whenever you turn it off, press ◎ > **Settings** > **Security** > **Phone Lock** > **Automatic Lock** > **On**.

Note: You can make emergency calls on a locked phone (see Emergency Calls on page 59). A locked phone still rings for incoming calls or messages, but you need to unlock it to answer.

Customize

Home Screen

To customize the home screen to your needs, press ⓞ >
Settings > **Personalize** > **Home Screen**.

Select **Home Keys** to do the following:

- Show or hide the four home screen icons.
- Set the four home screen icons to be selected by the Jog Dial.
- Set the right and left soft keys action on the home screen.
- Set the **Smart Key** action on the home screen.

Select **Clock** to choose the type of the clock displayed on the
home screen (**Digital** or **Analog**).

Select **Layout** to choose the layout of the home screen:
Left Justified or **Centered**.

Ring Style

The ring style profile uses a different set of sounds for incoming
calls and other events.

Change Alerts in a Ring Style

You can change the alerts for incoming calls and other events.
Your changes are saved in the current ring style profile.

Press ⓞ > **Settings** > **Ring Styles** > **[Style] Detail**.

Note: [Style] represents the current ring style. You cannot set an
alert for the **Silent** ring style.

1. Scroll to **Calls** (or **Line 1** or **Line 2** for dual-line phones), then
   press **Change** to change it.
2. Scroll to the desired alert, then press ⓞ.
3. Press **Back** to save the alert setting.

Time & Date

Your phone can automatically update your time zone, time, and date. It uses the time and date for the datebook.

To synchronize the time zone, time, and date with the network, press ◎ > **Settings** > **Initial Setup** > **Time and Date** > **Autoupdate** > **Time & Time Zone**. If you do not want your phone to automatically update your time zone and date, choose **Time Only** instead.

To manually set the time zone, time, and date, turn off **Autoupdate**, then press ◎ > **Settings** > **Initial Setup** > **Time and Date** > **Time Zone**, *time* or *date*. To jump to a city in the time zone list, enter the first letter of its name with the keypad.

Tip: To choose three time zones for easier access, press ◎ > **Tools** > **World Clock**. When you open **World Clock**, you can press **Options** to see the **Map View** of time zones.

To choose an analog or digital clock for your home screen, press ◎ > **Settings** > **Personalize** > **Home Screen** > **Clock**.

Wallpaper

To set a picture or animation as a wallpaper (background) image in your home screen, press ◎ > **Settings** > **Personalize** > **Wallpaper**.

Press **Picture** to select the picture for the wallpaper. Turn the Jog Dial right or left to select a picture, or select **None** for no wallpaper.

Press **Layout** to select the wallpaper layout. Select **Center** to center the image on the display, **Tile** to repeat the image across the display, or **Fit-to-screen** to stretch the image across the display.

Screen Saver

The screen saver appears when no activity is detected for a specified time. To set a picture or animation as a screen saver, press ◎ > **Settings** > **Personalize** > **Screen Saver**.

Press **Picture** to select the picture for the screen saver. Turn the Jog Dial right or left to select a picture or animation, or select **None** for no screen saver.

Press **Delay** to enter the desired delay for the screen saver. Select the length of inactivity before the screen saver appears.

Display Appearance

To set your display brightness, press Ⓞ > **Settings** > **Initial Setup** > **Brightness**.

To set your display backlight, press Ⓞ > **Settings** > **Initial Setup** > **Backlight**. Then select the backlight **Mode** (**Automatic** or **Manual**) and adjust the backlight **Level** to your needs.

Personalizing

You can use the following options to personalize your phone to your needs.

Language

To set the menu language, press Ⓞ > **Settings** > **Initial Setup** > **Language**.

Scroll

To set the scroll bar to **Up/Down** or **Wrap Around** in menu lists, press Ⓞ > **Settings** > **Initial Setup** > **Scroll**.

Text Marquee

To set the speed for scrolling text in your display, press Ⓞ > **Settings** > **Initial Setup** > **Text Marquee**.

Activate Ringer IDs

To activate ringer IDs assigned to phonebook entries and categories, press Ⓞ > **Settings** > **Ring Styles** > **[Style] Detail** > **Ringer IDs**.

Ring Volume

Press Ⓞ > **Settings** > **Ring Styles** > **[Style] Detail** > **Ring Volume**.

Keypad Volume

Press ◎ > **Settings** > **Ring Styles** > **[Style] Detail** >
Key Volume.

Reminders

To set a reminder for when you have not responded to an
incoming call, message, or other event, press ◎ > **Settings** >
Ring Styles > **[Style] Detail** > **Reminders**.

Menu View

To show the main menu as graphic icons or as a text-based list,
press ◎ > **Settings** > **Personalize** > **Main Menu** > **View**.

Reorder Main Menu

To reorder your phone's main menu, press ◎ > **Settings** >
Personalize > **Main Menu** > **Reorder**.

Show/Hide Menu Icons

To show or hide menu feature icons in the home screen,
press ◎ > **Settings** > **Personalize** > **Home Screen** >
Home Keys > **Icons**.

Master Reset

To reset all options except unlock code, security code, and
lifetime timer, press ◎ > **Settings** > **Initial Setup** > **Master
Reset**.

Master Clear

Caution: Master clear erases all information you have entered
(including phonebook and datebook entries) and content you
have downloaded (including pictures and sounds) stored in your
phone's memory. After you erase the information, you cannot
recover it.

Press ◎ > **Settings** > **Initial Setup** > **Master Clear**.

Calls

To make and answer calls, see Make a Call and Answer a Call on page 17.

Turn off a Call Alert

You can press the volume keys to turn off a call alert before answering the call.

Delay Answering

If you want to answer a call, but are unable to do so for any reason, you can delay answering the call.

When your phone rings, press **Delay**. Your phone stops ringing and plays a brief message for the caller, such as "**Please hold, your call will be answered in a moment.**" The call remains on hold until you press **Talk**.

To turn Delayed Answer on, or record your Delayed Answer message (up to 10 seconds), press ◎ > **Settings** > **In-Call Setup** > **Answer Options** > **Delayed Answer**.

Recent Calls

Your phone keeps lists of incoming and outgoing calls, even for calls that did not connect. The most recent calls are listed first. The oldest calls are deleted as new calls are added.

From the home screen, press ◎ > **Recent Calls**, then turn the Jog Dial right or left to scroll through your recent calls.

Scroll to a call. A ✓ next to a call means the call is connected.

- To see call details (like time and date), press ◎.
- Press **Options** to choose from the following:

Option	Description
Delete	Delete the entry.
Delete All	Delete all entries in the list.
Show ID	Show your caller ID for the next call.

Option	Description
Hide ID	Hide your caller ID for the next call.
Send Message	Open a new text message with the number in the To field.
Send Voice Msg	Record and send a voice message to the number.
Add Digits	Add digits after the number.
Attach Number	Attach a number from the phonebook or recent calls lists.
Talk then Fax	Talk and then send a fax in the same call (see Talk then Fax on page 65).
Filter by	Select all, dialed, received, or missed calls.
Notepad	Open the number in a text editor.
Call Times	Open your call time information.
Call Cost	Open your call cost information.
Data Times	See how much time you have spent on data transfers.
Data Volumes	See how much data you have transferred.

Redial

1. From the home screen, press ◯ > **Calls**.

2. Scroll to the desired entry, then press ◯.

If you hear a busy signal, and you see **Call Failed**, you can press **Send** or **Retry** to redial the number. When the call goes through, your phone rings one time, shows **Redial Successful**, and connects the call.

Return a Call

Your phone keeps a record of your unanswered calls, and shows **X Missed Calls**, where **X** is the number of missed calls.

1. Press **View** to see the received calls list.

2. Scroll to the call you want to return, then press **Send**.

Caller ID

Calling line identification (caller ID) shows the phone number for an incoming call in your external and internal displays.

Your phone shows the caller's name and picture when they are stored in your phonebook, or **Incoming Call** when caller ID information is not available.

You can set your phone to play a different ringer ID for an entry stored in your phonebook (see Set Ringer ID for a Phonebook Entry on page 61).

To show or hide your phone number from the next person you call, enter the phone number and press **Options** > **Hide ID**/**Show ID**.

Advanced Calling

To use voice commands for calling, see Voice Activation Services on page 20.

Attach a Phone Number

Dial an area code or prefix for a phonebook number, then press **Options** > **Attach Number**.

Notepad

Press ◯ > **Recent Calls** > **Options** > **Notepad**.

- To call the number, press **Send**.
- To create a phonebook entry with the number in the **No.** field, press **Options** > **Store**.

You may also attach a number, insert a special character or hide the ID in the **Options** submenu.

International Calls

If your phone service includes international dialing, press and hold ▒▒ to insert your local international access code (indicated by +). Then, use the keypad to dial the country code and phone number.

Hold a Call

Press **Options** > **Hold** to put all active calls on hold.

Mute a Call

Press **Mute** (if available) or **Options** > **Mute** to put all active calls on mute.

Call Waiting

When you are on a call, you will hear an alert if you receive a second call.

Press **Send** to answer the new call.

- To switch between calls, press **Switch**.
- To connect the two calls, press **Options** > **Link**.
- To end the call on hold, press **Options** > **End Call On Hold**.

To turn the call waiting feature on or off, press ◯ > **Settings** > **In-Call Setup** > **Call Waiting** > **On** or Off.

Conference Call

During a call, dial the next number, then press **Send** > **Options** > **Link**.

Transfer a Call

During a call, press **Options** > **Transfer**, dial transfer number and press **Send**.

Call Forwarding

To set up or cancel call forwarding, press ◯ > **Settings** > **Call Forward**.

Restrict Calls

To restrict outgoing or incoming calls, press ◯ >

Settings > **Security** > **Restrict Calls.**

Tell your phone to allow **All**, **None**, or only the calls from your phonebook.

Call Barring

To restrict outgoing or incoming calls, press ◯ >

Settings > **Security** > **Call Barring.**

TTY Calls

To set up your phone for use with an optional TTY device, press ◯ > **Settings** > **Initial Setup** > **TTY Setup**.

Change Phone Line

If you have a dual-line-enabled SIM card, you can change your line to make and receive calls from your other phone number.

Press ◯ > **Settings** > **Phone Status** > **Active Line**.

Fixed Dial

When you turn on fixed dialing, you can call only numbers stored in the fixed dial list.

To turn fixed dialing on or off, press ◯ > **Settings** > **Security** > **Fixed Dial**.

To use the fixed dial list, press ◯ > **Tools** > **Dialing Services** > **Fixed Dial**.

Quick Dial

To dial preprogrammed phone numbers, press ◯ > **Tools** > **Dialing Services** > **Quick Dial**.

DTMF Tones

To activate DTMF tones, press ◯ > **Settings** > **Initial Setup** > **DTMF**.

To send DTMF tones during a call, just press number keys or scroll to a number in the phonebook or recent calls lists and press **Options** > **Send Tones**.

Answer Options

You can use different ways to answer an incoming call. To select the right answer option, press ○ > **Settings** > **In-Call Setup** > **Answer Options**.

Option	Description
Multi-Key	Answer by pressing any key.
Delayed Answer	Set up your delayed answering option (see Delay Answering on page 54).

Emergency Calls

Your service provider programs one or more emergency phone numbers, such as 911 or 112 that you can call under any circumstances, even when your phone is locked or the SIM card is not inserted.

Note: Emergency numbers vary by country. Your phone's preprogrammed emergency number(s) may not work in all locations, and sometimes an emergency call cannot be placed due to network, environmental, or interference issues.

1. Use the keypad to dial the emergency number.

2. Press **Send** to call the emergency number.

Other Features

Phonebook

You can use the phonebook to store names, phone numbers and other contact details. You can store phonebook entries on the internal phonebook and on the SIM card.

Note: The internal phonebook can store more data fields than the SIM card.

To store and call phonebook entries, see Store a Phone Number and Call a Stored Phone Number on page 18.

Note: You can show contacts stored in your phone's memory or on your SIM card. To choose which entries you see, press ◯ > **Phonebook**, then press **Options** > **View**. You can select **Phone & SIM Card**, **SIM Card**, or **Phone Contacts**.

Assign a Speed Dial Key to a Phonebook Entry

You can assign the keys ▬▬ through ▬▬ to phonebook entries. Then, when you press and hold a key, your phone calls the entry.

Note: Your service provider might assign some keys, such as ▬▬ for your voicemail number. You can only speed dial the phonebook entries stored on your phone (not on your SIM card).

Press ◯ > **Phonebook** and scroll to the phonebook entry. Then, press **Options** > **Add to Speed Dial** and pick a speed dial key.

Use the Speed Dial Key for a Phonebook Entry

To use a speed dial key that you assigned to a phonebook entry, just press and hold the key while in your home screen.

Edit Speed Dial Keys

Press ◯ > **Phonebook**, then press **Options** > **Manage Contacts** > **Speed Dial**.

Choose a Speed Dial Key List

To set speed dial to call the entries in your phone memory phonebook or your fixed dial list, press ⓞ > **Settings** > **Initial Setup** > **Speed Dial** > **Phone Memory** or **Fixed Dial**.

Edit or Delete a Phonebook Entry

To edit a number stored in the phonebook, press ⓞ > **Phonebook**, scroll to the phonebook entry, and press **Options**. You can select **Edit Contact**, **Delete Contact**, or other options.

Shortcut: In the phonebook, use the keypad to enter the first letters of the desired entry. You can also press and to see the entries in your categories or entries you used recently.

Set Ringer ID for a Phonebook Entry

To assign a ring alert (ringer ID) to an entry, press ⓞ > **Phonebook** > *entry*, then press **Options** > **Edit Contact** > **Ringer ID** > *ringer name*.

Note: The **Ringer ID** option is not available for entries stored on the SIM card. To copy an entry from SIM to phone memory, see Copy a Single Phonebook Entry on page 63.

To activate ringer IDs, press ⓞ > **Settings** > **Ring Styles** > **[Style**] **Detail** > **Ringer IDs** > **On**.

Set Picture ID for a Phonebook Entry

To assign a picture to show when you receive a call from an entry, press ⓞ > **Phonebook** > *entry*, then press **Options** > **Edit Contact** > **Picture** > *picture name*.

Note: The Picture option is not available for entries stored on the SIM card. To copy an entry from SIM to phone memory, see Copy a Single Phonebook Entry on page 63.

Set Picture ID View for Phonebook

To show entries as a text list, or with caller ID pictures, press ⓞ > **Phonebook**, then press **Options** > **Setup** > **View by** > *view name*.

Set Category for a Phonebook Entry

Press ⬤ > **Phonebook** > *entry*, then press **Options** > **Edit Contact** > **Category** > *category name*.

Note: The category option is not available for entries stored on the SIM card. To copy an entry from SIM to phone memory, see Copy a Single Phonebook Entry on page 63.

When you open your phonebook, press 📞 or 📱 to see your categories.

Set Category View for Phonebook

Press ⬤ > **Phonebook**, then press **Options** > **Filter by** > **Category** > *category name*.

You can show All entries, entries in a predefined category (**Business**, **Personal**, **General**, **VIPs**), or entries in a category you create.

Shortcut: When you open your phonebook, press 📞 or 📱 to see your categories.

Create a New Category

Press ⬤ > **Phonebook**, then press **Options** > **Manage Contacts** > **Edit Categories** > **[New Category]**.

Enter the category name, and select its members from your phonebook entries.

Edit a Category

Press ⬤ > **Phonebook**, then press **Options** > **Manage Contacts** > **Edit Categories**.

Scroll to the category name and press **Options** > **Edit Category**.

You can edit the category name, members, ringer ID, or picture. Your phone uses the ringer ID and picture whenever you receive calls from numbers in the category.

Create Group Mailing List

You can put several phonebook entries in a group mailing list, then send a message to the list. To create a list, press ◯ > **Phonebook**, then press **Options** > **Create New** > **Message List**.

Note: A message list cannot include entries stored on the SIM card. To copy an entry from SIM to phone memory, see Copy a Single Phonebook Entry on page 63.

Sort Phonebook List

To set the order in which entries are listed, press ◯ > **Phonebook**, then press **Options** > **Setup** > **Sort by** > **First Name** or **Last Name**.

Copy a Single Phonebook Entry

To copy an entry from the phone to the SIM card, or from the SIM card to the phone, press ◯ > **Phonebook**, scroll to the entry, press **Options** > **Copy to SIM Card** or **Copy to Phone**.

Copy Multiple Phonebook Entries

To copy multiple phonebook entries between the phone and SIM card, press ◯ > **Phonebook**, then press **Options** > Select **Multiple to**, and select **Copy Phone to SIM** or **Copy SIM to Phone**.

Send Phonebook Entry to Another Device

To send a phonebook entry to another phone, computer, or device, press ◯ > **Phonebook**, scroll to the entry, press **Options** > **Send Contact**.

Print Phonebook Entry over Bluetooth Connection

You can use a Bluetooth connection to send a phonebook entry from your phone to a printer.

1. Press ◯ > **Phonebook**.
2. Scroll to the entry you want to print, and press **Options** > **Print**.

You cannot print a mailing list. For more information about Bluetooth connections, see Bluetooth® Wireless Technology on page 24.

Voice Records

To create a voice record (for example, to make a note to yourself), press and hold the **Smart Key**, speak into the phone and release the **Smart Key**.

Note: Recording phone calls is subject to varying state and federal laws regarding privacy and recording of conversations. Always obey the laws and regulations on the use of this feature.

To play back a voice record, press ◎ > **Tools** > **Voice Records**, and select the desired voice record.

Call Times & Costs

Network connection time is the elapsed time from the moment you connect to your service provider's network to the moment you end the call by pressing **End**. This time includes busy signals and ringing.

The amount of network connection time you track on your resettable timer may not equal the amount of time for which you are billed by your service provider. For billing information, contact your service provider.

Call Times

To show call timers, press ◎ > **Recent Calls** > **Options** > **Call Times**.

In-Call Timer

To show time or cost information during a call, press ◎ > **Settings** > **In-Call Setup** > **In-Call Timer**.

Call Cost

To show call cost trackers, press ◎ > **Recent Calls** > **Options** > **Call Cost**.

Data & Fax Calls

To connect your phone with a USB cable, see **Cable** Connections on page 69.

Send Data

Connect your phone to the device, then place the call through the device application.

Receive Data or Fax

Connect your phone to the device, then answer the call through the device application.

Talk then Fax

Connect your phone to the device, enter fax number, press **Options** > **Talk then Fax**, then press **Send** to make the call.

Set Up Exchange ActiveSync

You can use the Internet to synchronize your phone's phonebook and datebook entries with an email account on a Microsoft® Exchange 2003 Server.

You need to know the email account's user name and password, the Microsoft® Exchange server name, and the user domain name. Confirm that the Mobility option is enabled on the email account, and that data service is activated with your phone service provider.

Use Exchange ActiveSync

Once you set up an Exchange ActiveSync partner, you can schedule your phone to synchronize with the account automatically.

To schedule synchronization, press ○ > **Settings** > **Connection** > **MOTOSYNC** > **Exchange** > **Options** > **Auto Sync Setup**. Enter the time and days you want your phone to synchronize.

Network

Network Settings

To view network information and adjust network settings, press ◯ > **Settings** > **Network**.

Security

SIM PIN

Caution: If you enter an incorrect PIN code three times before the correct code, your SIM card is disabled and your display shows **SIM Blocked**.

To lock or unlock the SIM card, press ◯ > **Settings** > **Security** > **SIM PIN**.

Lock Feature

Press ◯ > **Settings** > **Security** > **Lock Application**.

Manage Certificates

To enable or disable Internet access certificates stored on your phone, press ◯ > **Settings** > **Security** > **Certificate Mgmt**.

Certificates are used to verify the identity and security of web sites when you download files or share information.

Applications

View, Delete, or Manage Pictures

To manage pictures and animations, press ◯ > **Multimedia** > **Pictures**.

To delete a file, scroll to it in the list and press **Options** > **Manage** > **Delete**.

To copy or move a file from your memory card (▯) to your phone memory (☎), scroll to it in the list and press **Options** > **Manage** > **Copy** or **Move** > **Memory Card**. You cannot copy or move some copyrighted files.

View, Delete, or Manage Video Clips

Press ◯ > **Multimedia** > **Videos**.

To delete a file, scroll to it in the list and press **Options** > **Manage** > **Delete**.

To copy or move a file from your memory card (▢) to your phone memory (☎), scroll to it in the list and press **Options** > **Manage** > **Copy or Move** > **Memory Card**. You cannot copy or move some copyrighted files.

Hear, Delete, or Manage Sounds

To manage ring tones and music that you have downloaded or composed, press ◯ > **Multimedia** > **Sounds**.

To delete a file, scroll to it in the list and press **Options** > **Manage** > **Delete**.

To copy or move a file from your memory card (▢) to your phone memory (☎), scroll to it in the list and press **Options** > **Manage** > **Copy** or **Move** > **Memory Card**. You cannot copy or move some copyrighted files.

Create Ring Tones

To create ring tones that you can use with your phone, press ◯ > **Multimedia** > **Sounds** > **[New Melody]**.

Start Micro-Browser

To start the Micro-Browser, press ◯ > **Tools** > **WebAccess** > **Browser**.

Download Objects from a Web Page

To download a picture, sound, or other object from a web page, start the Micro-Browser, go to the page that links to the file, scroll to the link, and select it.

To activate downloaded copyrighted files, press ◯ > **Tools** > **Activation List** > *file type* > *file*. You can see file's **Status**, **Type**, **Activation**, and **Counts Remaining**.

Store Downloaded Files in Phone or Memory Card

You can choose to store your downloaded files on your phone or your memory card you download choose where to store the files you download.

Press ◯ > **Settings** > **Phone Status** > **Download Location** > **Memory Card** or **Phone**.

To see how much memory is available on your phone or memory card, see View Memory Card Information on page 32.

Web Sessions

A web session stores settings that your phone uses to access the Internet. To select or create a web session, press ◯ > **Tools** > **WebAccess** > **Web Sessions**.

Clear Micro-Browser History

To clear the micro-browser's history, cache, or cookies, press ◯ > **Tools** > **WebAccess** > **Browser Setup** > **Clear History**, **Reset Cache**, or **Clear Cookies**.

Download a Game or Application

You can download a Java™ game or application the same way you download pictures or other objects.

Start the Micro-Browser, go to the page that links to the file, scroll to the link, and select it.

Start a Game or Application

To start a Java™ game or application, press ◯ > **Applications**, scroll to the game or application and press ◯.

Note: To install and run applications stored on your memory card, press ◯ > **Applications** > **[Install New]**.

Auxiliary Alert

This feature enables the M990 to signal you on an incoming call when you are out of the car, but the phone is still turned on.

Depending on whether the power cable is connected to the lights or to the horn, the car lights will flash or the horn will sound.

Press **Menu** > **Extras** > **Settings** > **In-Call Setup** > **Aux Alert**.

Entertainment Mute

This feature automatically mutes the volume of the car entertainment system during any of the following situations:

- During a call.
- When an incoming call arrives.
- When initiating a call.
- Voice Activation Dialing (VAD).
- When a key is pressed for longer than 3 seconds.
- When using voice activation features.

The car radio must have a dedicated port in order for this feature to be installed.

Once installed, the feature is always activated.

Cable Connections

You can connect your phone to a computer or other hand-held devices to easily transfer data.

EMU Connector

Your phone incorporates an EMU (Enhanced mini-USB) connector. The EMU connector supports the USB Version 2.0 Full Speed standard, which can be used to transfer data to and from various devices (e.g., a computer).

The EMU connector can also be used to transmit stereo and mono audio to compatible headsets equipped with an EMU jack (see Corded Audio on page 72).

Note: Motorola Original USB data cables and supporting software are sold separately. Check your computer or hand-held device to determine the type of cable you need. To transfer data between your phone and a computer, you might need to install the software included with the Motorola Original data kit first. For more information, see the data kit user's guide. To make data and fax calls through a connected computer, see **Data** & Fax Calls on page 65.

Connect Your Memory Card to a Computer

You can use a cable connection to access your phone's memory card with a PC.

Note: When your phone is connected to a computer, you can only access the memory card through the computer.

On your phone:

Disconnect the cable from your phone, if it is connected, then press ⭕ > **Settings** > **Connection** > **USB Settings** > **Default Connection** > **Memory Card**.

This directs the USB connection to your memory card.

Connect the cable to your phone and to an available USB port on your computer. Then follow these steps:

On your computer:

1. Double-click the **My Computer** icon on your computer's desktop. Your phone's memory card appears in the **My Computer** window as a **Removable Disk** icon.

2. Click on the **Removable Disk** icon to access the files on your phone's memory card.

3. To store the desired files onto the memory card, drag and drop them as follows:

   Audio files: > mobile > audio
   Screen savers: > mobile > picture
   Wallpapers: > mobile > picture
   Video clips: > mobile > video

4. When finished, disconnect your phone by selecting the **Safely Remove Hardware** icon in the system tray at the bottom of your computer screen. Then disconnect the **USB Mass Storage Device**.

5. Disconnect the cable from your phone and computer.

On your phone:

To return to Data as your USB default connection, press ◯ > **Settings** > **Connection** > **USB Settings** > **Default Connection** > **Data Connection**.

Your Phone Number

From the home screen, press ◯ > ⬛ to see your number.

Tip: Want to see your phone number while you are on a call? Press **Options** > **My Tel. Number**.

You can edit the name and phone number stored on your SIM card. From the home screen, press ◯ > **Settings** > **Phone Status** > **My Tel. Numbers**, select an entry, press **View**, press **Options**, and select **Edit**. If you do not know your phone number, contact your service provider.

Phone Updates

Sometimes we think of ways to make your phone's software faster or more efficient after you have purchased your phone. You can find out if your phone can be updated at http://hellomoto.com/update.

Note: Software updates do not affect your phonebook entries or other personal entries.

Accessories

Bluetooth Devices

You can connect various audio and data Bluetooth devices (optional) to your phone and use them without cables.

You can find more information about compatible Bluetooth devices and purchase them from Motorola's web site at http://www.motorola.com.

For more information about Bluetooth wireless technology, see Bluetooth® Wireless Technology on page 24.

Corded Audio

You can connect a stereo corded headset to the EMU connector of your phone (optional). This way, you can listen to music and receive calls at the same time.

You can find more information about Motorola corded headsets and purchase them from Motorola's web site at http://www.motorola.com.

Memory Cards

You can use a removable memory card (optional) with your phone to store and retrieve data.

You can find more information about memory cards and purchase them from Motorola's web site at http://www.motorola.com.

For more information about memory cards, see Memory Card on page 31.

USB Data Cables

You can use a USB data cable (optional) to connect your phone to other devices in order to transfer data.

You can find more information about Motorola Original USB data cables and purchase them from Motorola's web site at http://www.motorola.com.

For more information about cable connections, see Cable Connections on page 69.

Synchronization (Mobile Phone Tools)

You can connect your new M990 Car Phone to a compatible PC computer with the optional USB data cable, and enjoy the benefits of the Motorola Mobile Phone Tools software:

- **Synchronization** – never lose your data if you lose your phone. Transfer and store all your phone numbers on your computer. Synchronize all your phone contacts and datebook with just one click. Choose from Microsoft Outlook, Outlook Express, Lotus Notes or the in-built Motorola Phone Tools phonebook and calendar client. The intuitive synchronization wizard will guide you through the process of updating your datebook and phonebook and help you store a backup on your computer.

- **Personalization** – personalize your phone by creating your own ring tones and adding personal pictures.

- **Messaging** – send text messages from your computer keyboard for greater speed and simplicity.

- **Modem connection**[8] – look up important information on the go when you need it the most. Connect your laptop to the Internet using your mobile phone as a modem virtually anytime, anywhere (even at the airport, while you wait in your car).

System Requirements

- A compatible PC with a Pentium® II 233 MHz processor and one available USB port.
- Windows® 2000, Millennium, or XP operating system.
- 256 Color VGA or SVGA display.
- CD-ROM drive.
- Mouse or other pointing device.

---

[8] Network, subscription and SIM card or service provider dependent. Some features may be disabled by your wireless service provider.

- Local hard drive with at least 120MB free space.
- Free memory: 32MB of RAM under Windows® 98 and Millennium, 64MB of RAM under Windows® 2000 and XP.
- Data/fax option included in the subscription contract with your cell phone operator (to allow fax and e-mails transmission and reception).
- High-speed data networks (GPRS and EDGE) options included in the subscription contract with your mobile phone operator (for high speed e-mail and Internet use on the mobile phone network); data service is a network and subscription dependent feature that may not be available in all areas. Please contact your wireless service provider for details.

Purchase Motorola Mobile Phone Tools

You can find more information about Motorola Phone Tools and purchase the latest version from the following link:

http://direct.motorola.com/ens/MPT/MPT_Feature.asp

Carry Case

The M990 sales package includes a leather-like high quality carry case, which lets you carry it safely and conveniently out of the car (see Figure 11 below).

Figure 11: Carry case.

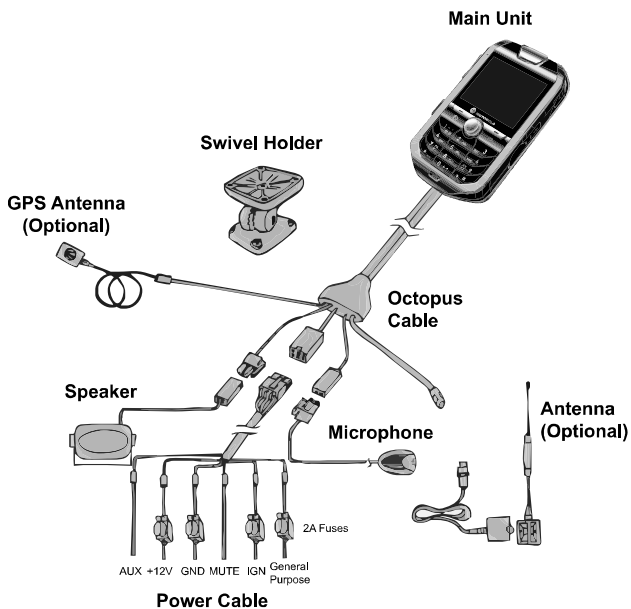# *Installation Guide*

Product Parts

Figure 12: M990 – product parts.
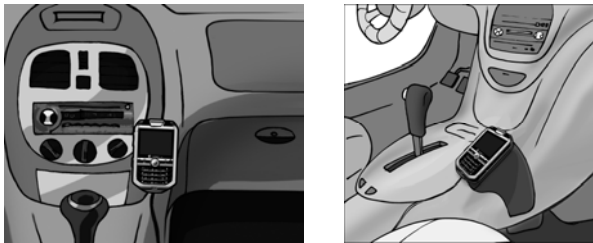
Main Unit

Figure 13: Main unit installation.

When installing the in-vehicle phone avoid positioning the main unit where it may disrupt the proper operation of the vehicle and/or its components, such as car stereo, air bags, cubbyhole, glove compartment, ashtray, lighter, gear stick, hand brake, etc....

Attach the in-vehicle phone to a stable surface, in a position that is safe and convenient for the driver to use.

Warning: Do not position the main unit in front of the air bag or where it may impair air bag performance, as the air bag might inflate in an accident and cause damage.

Verify that the control unit does not face the sun or source of humidity, such as air conditioner vents.

When the phone is powered off, insert the SIM into the socket at the right side of the phone.

Speaker

Install the speaker on the side of the central console, ideally alongside the legs of the passenger sitting beside the driver, as far as possible from the microphone.

Thread the speaker cable under the carpet along the floor of the vehicle.

Plug the speaker cable into the compatible connection in the octopus control cable.

Verify that the cable does not interfere with the proper operation of the vehicle and/or its components.

Do not conceal the speaker behind any obstacle such as dashboard, glove compartment, carpet or any other barrier which will result in bad audio quality.

Attention! The speaker and microphone (which is fitted on the sun visor above the driver) should be pointed towards **opposite directions** to avoid echo, speaker slots should be pointed towards passenger door.

Microphone

Install the microphone at a distance of no more than 30 cm (12 inch) away from the driver's mouth, ideally on the upper right hand side of the sun visor and away from any noise source such as windscreens, window, fan/air conditioner, car stereo etc.

Figure 14: Microphone location.

Make sure the microphone is at a distance of at least 1.5m (4.9 ft) from the speaker and is not directed towards the speaker.

Make sure that the microphone is correctly positioned (see Figure 14).

Do not thread the microphone cable close to antenna cable, to avoid audio interference.

Plug the microphone cable into the compatible connection in the octopus control cable.

Important: Make sure that the microphone cable does not come in contact and does not interfere with the steering wheel and/or the pedals of the vehicle.
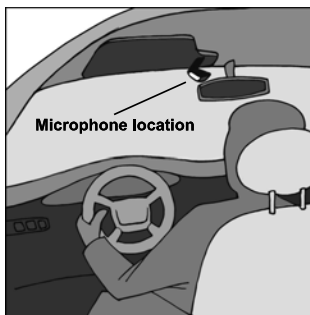
Attention! The speaker and microphone (which is fitted on the sun visor above the driver) should be pointed towards **opposite directions** to avoid echo.

RF Antenna

Various RF antenna models can be installed for the Motorola in-vehicle product line. The antenna type (glass, roof mount, marine or RV antenna types) should best match the customer's application.

Electrical Requirements

Motorola mandates that the antenna meet the following specifications:

VSWR<=2:1
Gain: 3dBi @ 806-960MHz
        2dBi @ 1850-1990MHz

Antenna Connector:

- North American models use SMA Male antenna connector.
- European models use FME antenna connector.
- The required connector in other regions depends on the specific model and may be either FME or SMA Male.

Material & Environmental Information

The mechanical configuration should meet outdoor conditions with appropriate temperature range for customer applications.

Motorola recommends the following characteristics:

- RF Cable: RG58U, PVC coated/polyethylene dialectic cable;
- Operating temperature: -30°C to +85°C;
- Heat and UV stabilized;
- Flammability UL94V0;
- For on-glass antenna, use adhesive pad with temperature range of -40°C to +90°C and bond not affected by moisture.

Motorola recommends the following antenna suppliers:

PCTEL Antenna Specialists, www.antenna.com.
For 850/1900MHz on-glass antenna with SMA male connector use P/N APDM928S.

Panorama Antennas, www.panorama-antennas.com.
For 900/1800MHz on-glass antenna with FME connector, use
P/N GDE-5F.
For 900/1800MHZ on-glass antenna with SMA Male connector,
use P/N GDE-5S.

Antenna Installation

Attention! Ensure the antenna is located at least 20 cm away
from driver and passengers.

Attention! To avoid audio interference, do not thread the
antenna cable dose to the microphone cable.

Use original antenna plug and clamping tools only Test antenna
and cable performance using a VSWR meter.

The preferred position for on-glass antenna is either on the upper
right side or upper left side of the windshield, opposite from the
driver's seat. Should another cellular device already be installed
in the vehicle, the antennas should be located at a distance of at
least 30cm (1 foot) from the other.

Note: Certain car models include a 'heat reflective' front
windshield and therefore it is necessary to glue the antenna on
the side or on the rear windshield only.

Cable Connections

Power

Connect the **RED** wire to a positive (+) 12V pole for steady power
supply. Ensure the use of a 3A/250V fuse.

Ground

Connect the **BLACK** wire to a negative pole (–) In the vehicle
body. Ensure the use of a 3A/250V fuse.

Ignition

Connect the **GREEN** wire to car IGN voltage and check the
appropriate voltage using voltmeter. This connection switches the
phone on when turning the ignition on and it switches the phone off
when turning the ignition off. Ensure the use of a 3A/250V fuse.

Entertainment Mute[9]

Connect the **ORANGE** wire to the car stereo system entertainment mute connection to mute the stereo system when receiving or dialing a call.

Auxiliary alert[1]

Connect the **WHITE** wire to the car's horn and/or to the car's light connection to turn on the lights and/or to activate the horn when receiving a call.

Connections Summary

Wire color	Function	Connect to...	Ensure...
RED	To supply steady (+) power source.	12V steady power. An additional fuse is supplied that must be connected to the positive (+) pole.	The use of a 3A/250V fuse.
BLACK	To supply steady (–) power source.	Vehicle body	That the contact point is only connected to the vehicle body.
GREEN	To switch the phone on when the car ignition is turned on, and off when the car ignition is turned off.	IGN voltage	The appropriate voltage using voltmeter. Ensure the use of a 3A/250V fuse.
ORANGE	To mute the car stereo system when receiving or dialing a call.	Car stereo system entertainment mute connection (optional)	That the connection between the in-vehicle phone and car stereo system is performed by an authorized installer only. Sink should be up to 150mA.

---

[9] Optional feature.

Wire color	Function	Connect to...	Ensure...
WHITE	To operate car lights/horn to indicate incoming call.	Car lights/horn connections (optional).	That the connection between the in-vehicle phone and the car lights/horn is performed by an authorized installer only. Sink should be up to 300mA.

Entertainment Mute & Auxiliary Alert – Open Collector Connections
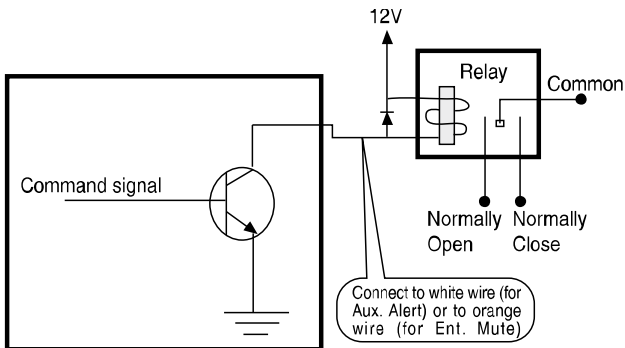
Figure 15: Entertainment mute & auxiliary alert – open collector connections.

Automatic Voltage Detection & Switching

The M990 supports both 12V and 24V power supply installations. The phone will automatically detect the supplied voltage and switch accordingly.

Service & Repairs

If you have questions or need assistance, we are here to help.

Go to http://www.motorola.com/consumer/support where you can select from a number of customer care options. You can also contact the Motorola Customer Support Center at 1-800-972-1837 (United States), 1-888-390-6456 (TTY/TDD United States for hearing impaired), or 1-800-461-4575 (Canada).

Service & Repairs

If you have questions or need assistance, we are here to help.

Go to http://www.hellomoto.com, where you can select from a number of customer care options.

Total Customer Satisfaction[10]

Absolute customer satisfaction is Motorola's top priority. If you have a question, suggestion or any other issue concerning the Motorola in-vehicle phone, Motorola wants to hear from you.

Motorola Australia Customer Care 1300-138-823 8am-6pm Australia EST.

Motorola New Zealand Customer Care 0508-668-676 10am-8pm.

Motorola Canada Customer Care 1-800-461-4575.

Motorola USA Customer Care 866-286-6686 (866-BUY-MOTO).

---

[10] Applies to relevant regions only.

SAR Data

Important: The antenna should be installed at least 20 cm away from all vehicle occupants.

Hearing Aid Compatibility with Mobile Phones

Some Motorola phones are measured for compatibility with hearing aids. If the box for your particular model has "Rated for Hearing Aids" printed on it, the following explanation applies.

When some mobile phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate.

The wireless telephone industry has developed ratings for some of their mobile phones, to assist hearing device users in finding phones that may be compatible with their hearing devices. Not all phones have been rated. Phones that are rated have the rating on their box or a label on the box.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

M-Ratings: Phones rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. M4 is the better/higher of the two ratings.

T-Ratings: Phones rated T3 or T4 meet FCC requirements and are likely to be more usable with a hearing device's telecoil ("T Switch" or "Telephone Switch") than unrated phones. T4 is the better/higher of the two ratings. (Note that not all hearing devices have telecoils in them.)

Hearing devices may also be measured for immunity to this type of interference. Your hearing device manufacturer or hearing health professional may help you find results for your hearing device. The more immune your hearing aid is, the less likely you are to experience interference noise from mobile phones.

Information from the World Health Organization

Present scientific information does not indicate the need for any special precautions for the use of mobile phones. If you are concerned, you may want to limit your own or your children's RF

exposure by limiting the length of calls or by using handsfree devices to keep mobile phones away from your head and body.

Source: WHO Fact Sheet 193

Further information: http://www.who.int./peh-emf

Product Registration

Online Product Registration:

direct.motorola.com/hellomoto/Motosupport/source/registration.asp

Product registration is an important step toward enjoying your new Motorola product. Registering helps us facilitate warranty service, and permits us to contact you should your product require an update or other service. Registration is for U.S. residents only and is not required for warranty coverage.

Please retain your original dated sales receipt for your records. For warranty service of your Motorola Personal Communications Product you will need to provide a copy of your dated sales receipt to confirm warranty status.

Thank you for choosing a Motorola product.

Export Law Assurances

This product is controlled under the export regulations of the United States of America and Canada. The Governments of the United States of America and Canada may restrict the exportation or re-exportation of this product to certain destinations. For further information contact the U.S. Department of Commerce or the Canadian Department of Foreign Affairs and International Trade.

Privacy & Data Security

Motorola understands that privacy and data security are important to everyone. Because some features of your mobile device may affect your privacy or data security, please follow these recommendations to enhance protection of your information:

- **Monitor access** – Keep your mobile device with you and do not leave it where others may have unmonitored access. Lock your device's keypad where this feature is available.

- **Keep software up to date** – If Motorola or a software/application vendor releases a patch or software fix for your mobile device which updates the device's security, install it as soon as possible.

- **Erase before recycling** – Delete personal information or data from your mobile device prior to disposing of it or turning it in for recycling. For step-by-step instructions on how to delete all personal information from your device, see the section entitled "master clear" or "delete data" in this user's guide.

  Note: For information on backing up your mobile device data before erasing it, go to http://www.motorola.com and then navigate to the "downloads" section of the consumer web page for "Motorola Backup" or "Motorola Phone Tools".

- **Understanding AGPS** – In order to comply with emergency caller location requirements of the FCC, certain Motorola mobile devices incorporate *Assisted Global Positioning System* (AGPS) technology. AGPS technology also can be used in non-emergency applications to track and monitor a user's location – for example, to provide driving directions. Users who prefer not to permit such tracking and monitoring should avoid using such applications.

If you have further questions regarding how use of your mobile device may impact your privacy or data security, please contact Motorola at privacy@motorola.com or contact your service provider.

Smart Practices While Driving

Drive Safe, Call Smart[SM]

Check the laws and regulations on the use of mobile devices and their accessories in the areas where you drive. Always obey them. The use of these devices may be prohibited or restricted in certain areas. Go to http://www.motorola.com/callsmart for more information.

Your mobile device lets you communicate by voice and data – almost anywhere, anytime, wherever wireless service is available and safe conditions allow. When driving a car, driving is your first responsibility. If you choose to use your mobile device while driving, remember the following tips:

1. **Get to know your Motorola mobile device and its features such as speed dial and redial.** If available, these features help you to place your call without taking your attention off the road.

2. **When available, use a handsfree device.** If possible, add an additional layer of convenience to your mobile device with one of the many Motorola Original handsfree accessories available today.

3. **Position your mobile device within easy reach.** Be able to access your mobile device without removing your eyes from the road. If you receive an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.

4. **Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions.** Rain, sleet, snow, ice, and even heavy traffic can be hazardous.

5. **Do not take notes or look up phone numbers while driving.** Jotting down a "to do" list or going through your address book takes attention away from your primary responsibility – driving safely.

6. **Dial sensibly and assess the traffic; if possible, place calls when your car is not moving or before pulling into traffic.** If you must make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.

7. **Do not engage in stressful or emotional conversations that may be distracting.** Make people you are talking with aware you are driving and suspend conversations that can divert your attention away from the road.

8. **Use your mobile device to call for help.** Dial 911 or other local emergency number in the case of fire, traffic accident, or medical emergencies.[1]

9. **Use your mobile device to help others in emergencies.** If you see an auto accident, crime in progress, or other serious emergency where lives are in danger, call 911 or other local emergency number, as you would want others to do for you[11].

10. **Call roadside assistance or a special non-emergency wireless assistance number when necessary.** 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[1].

---

[11] Wherever wireless phone service is available.

Index