



through available characters (see “Character Chart” on page 56):

Press a number key to enter text at flashing cursor location.

Press a number key as many times as necessary to enter the desired character.

Press and hold a number key to cycle between uppercase and lowercase characters.




Move flashing cursor up or down one line, or change character in block cursor to uppercase or lowercase.

Move flashing cursor to the left or right.











- If you do not press a key for two seconds, the character in the block cursor is accepted, and the cursor moves to the next position.

Using the Menu

- The first character of every sentence is capitalized unless you manually override it. (Hold the number key or press  down to force the character to lowercase while it is highlighted by the block cursor.)

Character Chart

Use this chart as a guide for entering spaces, numbers, letters, and other characters. Press and hold a key to cycle between uppercase and lowercase characters.


 1 <small>ES</small>	<i>space</i> . 1 ? ! , @ & : ; " - () ' ÿ ÿ % £ \$ ¥ ¤
 2 <small>ABC</small>	a b c 2 ä å à α β ç
 3 <small>DEF</small>	d e f 3 Δ é è Φ
 4 <small>GHI</small>	g h i 4 Γ
 5 <small>JKL</small>	j k l 5 Λ
 6 <small>MNO</small>	m n o 6 ñ ö ø ò Ω
 7 <small>PQRS</small>	p q r s 7 Π β Σ
 8 <small>TUV</small>	t u v 8 Θ ü ù
 9 <small>WXYZ</small>	w x y z 9 Ξ Ψ
 0 <small>OPR</small>	+ - 0 x * / = > < # §



Predictive Text Entry with iTAP Software

iTAP™ software provides a predictive text entry method that lets you enter the letters of a word using only one keypress per letter.

Activating iTAP Software

You must activate iTAP software prior to entering letters. You can do this from any text entry screen by pressing  and selecting the **iTAP** menu option.

Entering Words

To enter a word:

Do This	To
1 Press a keypad key once	enter the first letter of the word The letters associated with the key you pressed are shown at the bottom of the display.
2 Press keypad keys (one per letter)	enter the rest of the word Alternative words and letter combinations are shown at the bottom of the display based on the keys you press. These word choices are updated with each keypress.

Using the Menu

Do This	To
3 When you have entered all the letters of the word, press ⬅* and #➡	locate and highlight the word you want
4 Press SELECT (➡)	add the highlighted word to the text area at the top of the display A space is automatically inserted after the word.

For example, to spell the word "act," press **2 ABC** **2 ABC** **8 TUV**. The display shows:

Flashing cursor indicates insertion point.



Press **⬅*** and **#➡** to scroll and see additional word choices.






Press **DELETE (➡)** to clear the last letter entered.

Press **SELECT (➡)** to insert the highlighted word at the insertion point.





Entering Novel Words

You may enter a word that is not in the iTAP software dictionary. If you enter all the letters of a word but the word is not displayed:

Do This	To
1 Press DELETE () one or more times	delete one or more letters until you see a letter combination that matches the start of the word
2 Press  and 	highlight the letter or letter combination
3 Press SELECT () , then press 	shift the text entry cursor to the left and "lock" the selected portion of the word
4 Continue entering letters and highlighting letter combinations	spell the word


Punctuation

The iTAP software automatically adds a space after each word. When you enter punctuation, this space is removed. To use punctuation:

Press	To
 or 	enter punctuation or other characters as shown in the "Character Chart" on page 56

Capitalization


The first word of a sentence is automatically capitalized, with following words in lowercase. To set or adjust character capitalization:

Press	To
	change the words to initial character capitalized, all uppercase characters, or all lowercase characters






Entering Numbers

To enter a number:

Do This	To
1 Enter the first digit and then highlight it	put the iTAP software in number entry mode
2 Press keypad keys	add digits to the number
3 Press SELECT ()	enter the number at the insertion point

Deleting Letters and Words

Place the cursor to the right of the text that you want to delete, and then do the following:

Do This	To
Press DELETE ()	delete one letter at a time
Press and hold DELETE ()	delete the entire word
Continue to hold DELETE ()	delete the entire message

Menu Feature Descriptions

This chapter describes all of your phone's features in alphabetical order. Some descriptions also include page numbers where you can find more detailed information. If you would like to learn more about a specific feature, see the Motorola Web site at:

<http://motorola.com/consumer/manuals>

or contact the Motorola Customer Call Center at 1-800-331-6456.

BROWSER



Access Web pages and run Web-based applications.

The micro-browser delivers WAP (Wireless Application Protocol) pages from your service provider directly to your phone. See "Micro-Browser" on page 125.



CONNECTION

Connect your phone to a computer or hand-held device to send and receive data and fax calls on the connected device. Connect your phone using a serial cable or USB cable. See "Connecting Your Phone to an External Device" on page 135.





Incoming Call

MENU > Settings
> Connection
> Incoming Call

Specify the format for the next incoming call. You can select **Fax In Only**, **Data In Only**, or **Normal**.

DATEBOOK

MENU > Datebook

Use the datebook calendar to schedule and review your appointments. See “Datebook” on page 92.

IN-CALL SETUP

Use the in-call setup menu to set the features that are active during a call, such as the in-call timer and call answering options.

Answer Options

MENU > Settings
> In-Call Setup
> Answer Options

Turn call answering options on or off:

Multi-Key Answer by pressing any key

Open to Answer Answer by opening the flip

In-Call Timer

MENU > Settings
> In-Call Setup
> In-Call Timer

Adjust call timer display and beep settings. You can set your timer to beep at a selected interval during

Menu Feature Descriptions

your calls. (60 seconds is the default.) You can also turn on or off a display timer during calls as follows:

Time Display the elapsed time for the current call

Off No in-call timer display

MESSAGES



> Messages



Adjust message settings, view and manage the various types of messages your phone can receive and/or send:

Browser Alerts Read alert messages received by your micro-browser

Drafts Store and edit text messages that you have written but not sent

Outbox View all outgoing text messages, delivered and undelivered

Quick Notes Select and send pre-written messages from the quick notes list

Text Msgs Send and receive text messages. See "Messages—Text" on page 104



VoiceMail

Listen to your recorded voice messages. See “Messages—VoiceMail” on page 102

OTHER SETTINGS

Car Settings

MENU > **Settings**
> **Other Settings**
> **Car Settings**



Adjust hands-free car kit settings.

You can set your phone to route calls directly to the car kit when it detects a connection, and automatically answer calls after two rings. See “Hands-Free Use” on page 131.

Headset

MENU > **Settings**
> **Other Settings**
> **Headset**



Set your phone to automatically answer calls after two rings when connected to a headset. See “Hands-Free Use” on page 131.

Menu Feature Descriptions

Initial Setup

- MENU** > Settings
- > Other Settings
- > Initial Setup

Set many basic phone options:

Animation Turn animation off (to conserve the battery) or on. Animation makes your phone's menus move smoothly as you scroll up and down.

Auto PIN Dial Some networks require an authenticating PIN to allow outgoing calls. Use this feature to automatically dial your PIN.



Auto Redial Automatically redial calls that fail due to busy network conditions

Battery Save Adjust the phone's power usage characteristics to conserve power

Backlight Set the amount of time that the display backlight remains on, or turn off the backlight to conserve battery power



Contrast Setting	Adjust the contrast setting for your display
DTMF	Switch DTMF tones on or off
Language	Set the language for phone menus
Master Clear	Perform master reset <i>and</i> clear all user-selectable options, resettable timers, recent call lists, and phonebook entries Note: This option <i>erases all user-entered information</i> stored in your phone's memory, including phonebook and datebook entries. Once you erase the information, it cannot be recovered.
Master Reset	Reset all options back to their original factory settings <i>except</i> for the unlock and security codes
Scroll	Force the cursor to stop or wrap around when it reaches the top or bottom of a list in the display
Status Light	Turn the status light off (to conserve battery power) and on

Menu Feature Descriptions

Time and Date Set the phone's time and date

Zoom Switch between three lines (**Zoom Out**) and two lines (**Zoom In**) of display text

Network

MENU > **Settings**
> **Other Settings**
> **Network**

View and adjust your phone's network settings.

Your service provider registers your phone to a network. You can view information about the current network, change how your phone searches for a network, and turn on/off alerts that indicate when a call is dropped or network registration changes.

Personalize

MENU > **Settings**
> **Other Settings**
> **Personalize**

Set several personal phone options:

Banner Change the text that appears in the idle display

Greeting Change the text displayed when you turn on your phone



Keys	Change the functions of the soft keys and smart key in the idle display (See “Customizing a Soft Key Function” on page 131.)
Main Menu	Change the order of the main menu (See “Reordering Menu Items” on page 130.)
Quick Dial	Change quick dial number(s)

PHONE STATUS

Battery Meter

MENU > Settings
> Phone Status
> Battery Meter

View a detailed battery charge meter.

My Tel. Number

MENU > Settings
> Phone Status
> My Tel. Number

View, enter, and edit your name and phone number.

Other Information

MENU > Settings
> Phone Status
> Other Information

View the phone’s feature specifications (if available from the service provider).

Menu Feature Descriptions

PHONEBOOK

MENU > Phonebook

Open the phonebook.

Store names and phone numbers as entries in your phonebook. Then, you can call phonebook entries by selecting them from the phonebook list. See "Phonebook" on page 81.

QUICK DIAL

MENU > Quick Dial

Dial pre-programmed customer service numbers.

Your service provider may program one or more quick dial numbers, such as the customer service number, into your phone. You can call them by selecting them from the quick dial list.

Note: Your service provider may use a different name for this feature.



RADIO

MENU > Radio

Listen to FM radio stations with the optional Motorola FM radio headset accessory. This menu feature is displayed only when the FM radio headset is plugged into the accessory connector port on your phone. See "Radio" on page 99.



RECENT CALLS

View the numbers of your recent dialed calls and received calls. See "Recent Calls" on page 75.



Call Times

MENU > Recent Calls
> Call Times

View call timers.

You can view five timers that track time spent on your last call, dialed calls, received calls, all calls since reset, and all calls total. See “Viewing and Resetting Call Times” on page 80.

Dialed Calls

MENU > Recent Calls
> Dialed Calls

View a list of recently dialed calls.

Your phone keeps a list of phone numbers from calls you recently dialed (even if the calls did not connect). See “Viewing the Received Calls or Dialed Calls List” on page 75.

Notepad

MENU > Recent Calls
> Notepad

Call or store the last number entered on the keypad.

You can use this notepad to view the last number you entered, even if you did not call the number. See “Using the Notepad” on page 78.

Received Calls

MENU > Recent Calls
> Received Calls

View a list of recently received calls.

Menu Feature Descriptions

Your phone keeps a list of the numbers from calls you recently received (even if you did not answer). See “Viewing the Received Calls or Dialed Calls List” on page 75.

RING/VIBRATE

Alert

MENU > **Settings**
> **Ring/Vibrate**
> **Alert**

Select a type of ring or vibration alert for incoming calls and messages. See “Ring/Vibrate” on page 127.

Alert Detail

MENU > **Settings**
> **Ring/Vibrate**
> **Alert Detail**

Change details about the ring or vibration alert. *Alert* represents the name of the current alert setting. See “Ring/Vibrate” on page 127.

SECURITY

Lock Application

MENU > **Settings** > **Security**
> **Lock Application**

Lock and unlock specific phone applications (such as phonebook and datebook) so that users must enter the unlock code to use them.



Lock Keypad

MENU > Settings > Security
> Lock Keypad

Lock and unlock your keypad. See “Locking and Unlocking Your Keypad” on page 147.

New Passwords

MENU > Settings > Security
> New Passwords

Change your unlock code (originally set to 1234) or your security code (originally set to 000000). See “Assigning a New Code or Password” on page 143.

Phone Lock

MENU > Settings > Security
> Phone Lock

Lock and unlock your phone. See “Locking and Unlocking Your Phone” on page 145.

Restrict Calls

MENU > Settings > Security
> Restrict Calls

Restrict incoming and outgoing calls. See “Restricting Calls” on page 148.

Talk Secure

MENU > Settings > Security
> Talk Secure

Indicate a preference for secured voice channels, so that your phone tells you if a voice channel is not secure.

Menu Feature Descriptions

SHORTCUTS

 > **Shortcuts**

Create keypad or voice shortcuts to menu features. See “Shortcuts” on page 111.

VOICE NOTES

 > **Voice Notes**

Use the voice key to record messages and phone calls. See “Voice Notes” on page 117.


Recent Calls



You can use the recent calls menu to view received calls or dialed calls, retrieve the last number stored in the notepad, and view or reset call times.

Viewing the Received Calls or Dialed Calls List

Your phone keeps lists of the numbers from calls you recently received and dialed, even if the calls did not connect. The lists are sorted from newest to oldest entries. The oldest entries are deleted as new ones are added. Each entry tells you the person's number (or name, if available) and whether the call connected or not. You can call, store, or delete the numbers on these lists.

Shortcut: Press  to go directly to the dialed calls list from the idle display.

To open the recent calls menu:

Find the Feature  > **Recent Calls**









Press

1 

To



scroll to **Received Calls** or **Dialed Calls**

Recent Calls

Press	To
2 SELECT ()	select Received Calls or Dialed Calls
3 	scroll to an entry you want to call, store, or delete Note: ✓ means the call connected.
4 	call the entry's number Tip: Press and hold  for two seconds to send the entry number as DTMF tones. To activate DTMF tones, see the "DTMF" item on page 67.
or	
	view the entry's details if View appears above the  key, or store the entry's details in the phonebook if Store appears above the  key
or	
	open the Last Calls Menu to perform other procedures as described in the following list




The **Last Calls Menu** includes the following options:

Option	Description
Store	Create a phonebook entry with the selected number in the No. field. (This option is not available if STORE appears above the  key.)
Delete	Delete the entry. (This option is not available if DELETE appears above the  key.)
Delete All	Delete all entries in the current list.
Send Message	Create a new text message, with the selected number in the Te1 No. field. See "Sending a New Text Message" on page 109.
Add Digits	Add digits to the end of the selected number. See "Additional Dialing Features" on page 45.
Attach Number	Attach digits to the beginning of the selected number. See "Additional Dialing Features" on page 45.
Send Tones	Send DTMF tones (only with a call in progress). See "Additional On-Call Features" on page 48.

Using the Notepad

Your phone uses a notepad to store the most recent string of digits entered—either for a phone number that you called or for a number that you entered but did not call.

To call the number stored in the notepad, press  from the idle display.

To create a phonebook entry or perform other operations with the number:

Find the Feature  > **Recent Calls**
> **Notepad**

Press



To

open the **Dialing Menu** (to attach a number or insert a special character). See “Additional Dialing Features” on page 45.

or


STORE ()

create a new phonebook entry, with the notepad number copied into the **No.** field. See “Storing a Phonebook Entry” on page 82.



Call Times

Your phone tracks and records call times. Use the recent calls menu to view and reset a call timer.

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 . 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, please contact your service provider directly.

You can view the approximate network connection time elapsed during the following calls:

Timer	Description
Last Call	time spent on the last call dialed or received. You cannot reset this timer.
Dialed Calls	total time spent on dialed calls since the last time you reset this timer
Received Calls	total time spent on calls received since the last time you reset this timer





Recent Calls

Timer	Description
All Calls	total time spent on dialed and received calls since the last time you reset this timer
Lifetime	total time spent on all calls on this phone. You cannot reset this timer.



Viewing and Resetting Call Times

To view a call timer:

Find the Feature  > Recent Calls

Press	To
1 	scroll to Call Times
2 SELECT ()	open the list of timers
3 	scroll to the timer you want
4 SELECT ()	view the recorded time


To reset the call timer:

Press	To
1 RESET ()	reset the time (if available)
2 YES ()	confirm the reset

Phonebook



You can store a list of names and phone numbers in your phone's electronic phonebook. Your phone can store as many as 1000 entries. You can view these entries and call them directly from your phone.

To see the list of names stored in your phonebook, press **MENU** > **Phonebook** from the idle display. Scroll to a name and press **VIEW** () to view details of the phonebook entry as shown in the following display.

Fields in a Phonebook Entry Form

Voice Name indicator

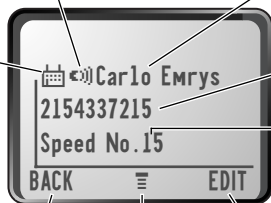
indicates a recorded voice name

Entry's Name

Type

indicator identifies number type:

-  Work
-  Home
-  Main
-  Mobile
-  Fax
-  Pager



Entry's phone number

Entry's speed dial number


Return to list

Press **MENU** to open the **Phonebook Menu**

Edit entry






Storing a Phonebook Entry

A phone number is required for a phonebook entry. All other information is optional.






Shortcut: Enter a phone number in the idle display, then press **STORE** () to create a phonebook entry with the number in the **No.** field. Use the following procedure to enter additional information and store the entry.

Enter Information



Find the Feature  > **Phonebook**
  > **New**

Press	To
1 CHANGE ()	select Name
2 keypad keys	enter a name for the phonebook entry (See "Entering Text" on page 54.)
3 OK ()	store the name
4 CHANGE ()	select No.
5 keypad keys	enter the phone number
6 OK ()	store the phone number
7 CHANGE ()	select Type




Press	To
8 	scroll to the type of phone number
9 SELECT ()	select the number type
10 RECORD () or Go to step 11 if you do not want to record a voice name for the entry	record a voice name for the entry, if desired See "Recording a Voice Name For a Phonebook Entry" on page 85.
11 	scroll to Speed No. , the number to "speed dial" the entry The next available speed dial number is assigned to a new phonebook number by default.
12 CHANGE ()	select Speed No. if you want to change it
13 keypad keys	enter a different speed number, if desired

Phonebook

Press	To
14 OK ()	save the modified speed number If your chosen speed number is already assigned to another entry, you are asked if you want to replace that entry.
15 SELECT ()	select MORE if you want to create another entry with the same Name Note: You must enter a name and number to use this option.

Complete Phonebook Entry

When you are finished entering information for a phonebook entry:

Press	To
DONE ()	store the entry and return to the phonebook list



Recording a Voice Name For a Phonebook Entry

You can record a voice name when you create a new phonebook entry, or when you edit a previously stored phonebook entry. This lets you use voice dial to call the number without dialing (see “Voice Dial” on page 88).

Your phone can store a total of 20 voice names.

Tip: Make your voice recording in a quiet location. Hold the phone about 4 inches from your mouth, and speak directly into the phone’s microphone in a normal tone of voice.

Find the Feature



> Phonebook

Do This	To
1 Press	scroll to the entry that needs a voice name
2 Press VIEW (display the entry’s detailed view
3 Press EDIT (edit the phonebook entry
4 Press	scroll to Voice Name

Do This

To

5 Press **RECORD** ()

begin the recording process

The phone displays **Press Voice key then say name.**

6 Press and release the voice key on the right side of your phone and say the entry's name (in two seconds)

record the voice name

The phone displays **Press Voice Key then REPEAT name.**



Voice key

7 Press the voice key and repeat the name

confirm the voice name

The phone displays **Trained: Voice Name.**





Dialing a Phonebook Entry

You can use the phonebook list, voice dial, speed dial, or one-touch dial to call the numbers stored in your phonebook. To use speed dial, see “Dialing With Speed Dial” on page 42. To use one-touch dial, see “Dialing With One-Touch Dial” on page 43.

Phonebook List

To call a number from the phonebook list:

Find the Feature  > Phonebook

Press	To
1 	scroll to the entry you want to call
2 	send the call




Voice Dial

To call a number using voice dial:

Do This	Result
Press and release the voice key on the right side of your phone and say the entry's name (in two seconds).	Your phone goes to the entry in the phonebook list, plays back the voice name stored with the phonebook entry, waits two seconds, then automatically dials the call.

Editing a Phonebook Entry

Find the Feature  > **Phonebook**

Press	To
1 	scroll to the entry you want to edit
2 VIEW ()	display the entry's detailed view
3 EDIT ()	edit the phonebook entry






Edit a phonebook entry by following the procedures described in "Storing a Phonebook Entry" on page 82.



Deleting a Phonebook Entry

To delete a phonebook entry:

Find the Feature  > Phonebook




Press	To
1 	scroll to the entry you want to delete
2 	open the Phonebook Menu
3 	scroll to Delete
4 SELECT ()	select Delete
5 YES ()	confirm the deletion

Checking Phonebook Capacity

You can check your phonebook's capacity to see how many entries you have used and how many more are available. Your phonebook holds 1000 entries.

To check the phonebook capacity for your phone:

Find the Feature  > **Phonebook**

Press	To
1 	open the Phonebook Menu
2 	scroll to Ph Book Capacity
3 SELECT ()	select Ph Book Capacity

The phone displays the number of entries that are in use and the number that are empty.

Synchronizing with TrueSync Software



You can synchronize phonebook entries between your phone and computer or hand-held device with TrueSync[®] software, a Motorola accessory product. See the TrueSync user guide for more information.










Setting Up the Phonebook

You can set up your phone to sort your phonebook list by speed dial number (the standard), name, or voice dial.

Tip: The voice dial sort is identical to the name sort, except that the entries with voice name tags appear first.

Find the Feature > Phonebook

Press	To
1 	open the Phonebook Menu
2 	scroll to Setup
3 SELECT ()	select Setup
4 	scroll to Sort by
5 CHANGE ()	select Sort by
6 	scroll to the entry you want
7 SELECT ()	select the entry you want

Datebook

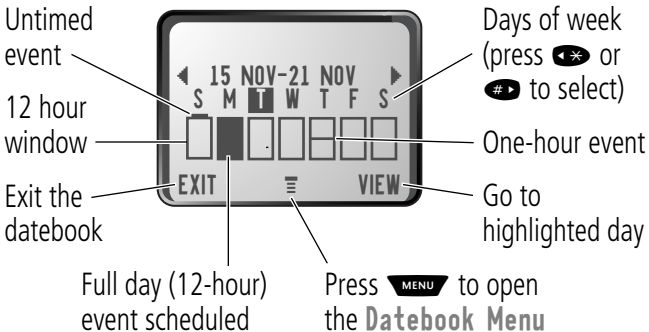
The datebook is a calendar that lets you schedule and organize events such as appointments and meetings. You can review your schedule of events for the week or by the day, and have the datebook play a reminder alarm for specific events. To schedule or see events:

Find the Feature > Datebook

The datebook is organized by *views*—from the week view, to the day view, to a view of a specific event.

Week View

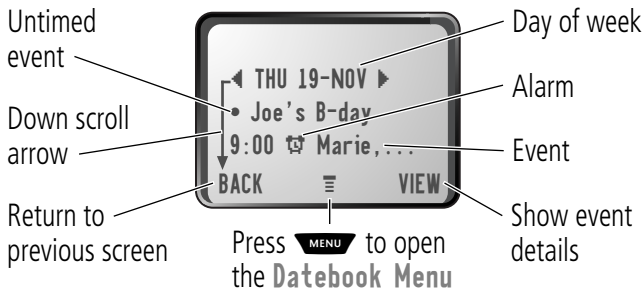
When you open the datebook, your phone displays a calendar for the week. Lines or filled boxes under each day indicate that events have been scheduled.






Day View

Select a day in the week view and press **VIEW** (▶) to see the day's events. You can store, edit, view, copy, and delete any event from the day view.



Event View

Select an event in the day view and press **VIEW** () to open the detailed event view. You can edit, copy, and delete events from the event view.









Storing a New Event

A title is required for a datebook event. All other information is optional.

Find the Feature

MENU > **Datebook** > *day*
MENU > **New**










See “Selecting a Feature Option” on page 51 for instructions on scrolling to and selecting options.

Press	To
1 CHANGE ()	select Title
2 keypad keys	enter a title for the event (see “Entering Text” on page 54.)
3 OK ()	store the event title
4 	scroll to other fields and enter information as necessary Other fields let you enter start time, duration, date, repeating events, and reminder alarm.
5 DONE ()	store the new event and return to the day view

Changing Event Information

To change information about an existing event:

Find the Feature  > **Datebook**













Press	To
1  or 	scroll to the scheduled event day
2 VIEW ()	display the day view
3 	scroll to the event you want to change
4 VIEW ()	display the event view
5 EDIT ()	edit the event
6 	scroll to the detail you want to change
7 CHANGE ()	edit the information
8 keypad keys	enter the new information
9 DONE ()	store the information and return to the day view



Copying an Event











To copy information from a current event to a new event:

Find the Feature  > **Datebook**

Press	To
1  or 	scroll to the scheduled event day
2 VIEW ()	display the day view
3 	scroll to the event to copy
4 	open the Datebook Menu
5 	scroll to Copy
6 SELECT ()	copy the event
7 YES ()	confirm the copy
	Your phone assumes that you want to change the date, and displays the Date field.
8 keypad keys	enter the date information
9  ()	move to the month, day, and year
10 DONE ()	save the copy of the event
11 DONE ()	return to the day view

Deleting an Event

Find the Feature  > Datebook

Press	To
1  or 	scroll to the scheduled event day
2 VIEW ()	display the day view
3 	scroll to the event to delete
4 	open the Datebook Menu
5 	scroll to Delete
6 SELECT ()	select Delete For non-repeating events, go to step 7. For repeating events, the phone displays a delete event menu:
a 	scroll to This Event Only or Repeat Events
b SELECT ()	select the event(s) to delete
7 YES ()	confirm the deletion The phone briefly displays a Deleted: message and returns you to the day view.



You can use your phone to tune, store presets, and listen to FM radio stations when the optional Motorola Original™ FM radio headset accessory is plugged into the phone's accessory connector port.

Turning the Radio On and Off

Press


Radio ()

or

 **> Radio**

To

turn the radio on and off

Note: The **Radio** () softkey option and **Radio** menu feature are displayed only when the FM radio headset is plugged into the accessory connector port.

Tuning a Station

To tune a radio station with the radio on:

Do This	To
Press 	scroll up or down to the next frequency
or	
Press and hold 	scroll up or down to the next available stereo station

Storing a Preset

When you tune the station that you want to save:

Do This	To
Press and hold a number key (1 to 9)	assign its preset number to the tuned station

Selecting a Preset

To select a preset radio station:

Press	To
a number key (1 to 9)	tune the station stored at that preset location



Sending and Receiving Calls with the Radio On

Your phone interrupts the radio signal and rings or vibrates as usual to notify you of an incoming call, message, or other event. You can use the FM radio headset to converse with the other party during a call.

Turn the radio off before dialing outgoing calls. You do not have to turn off the radio to dial emergency numbers, or numbers selected from your phonebook or other lists.

Messages – Voicemail



You can listen to your voicemail messages by calling your network voicemail phone number. Voicemail messages are stored on the network—not on your phone. Contact your service provider for more details.

Storing Your Voicemail Number

Store your voicemail number in your phone to make it faster and easier to use voicemail. Your voicemail number is provided by your service provider.


Find the Feature




> Messages



> VoiceMail Setup

Press	To
1 keypad keys	enter the phone number for your voicemail
2 OK ()	store the number


Receiving a New Voicemail Message

When you receive a voicemail message, your phone displays **New VoiceMail** . (Some networks only indicate when you have messages, whether they are



new or not.) If reminders are turned on, your phone sends a reminder every five minutes until you close the new message notification, listen to the message, or turn off your phone. (See “Reminders” on page 129.)

From the new message notification:

Do This	To
Press CALL ()	call your voicemail phone number and listen to the message

Listening to a Voicemail Message

To listen to your voicemail messages at any time:

Find the Feature



> Messages
> VoiceMail

Your phone calls the voicemail phone number you stored. If you do not have a voicemail number stored, the phone guides you through storing a number.

Messages – Text



Text messages are brief messages that you can send and receive (such as **Where are we meeting?**). Received messages appear on your phone display or in your text message inbox.

You must set up the text message inbox *before* you can send and receive these messages. The total number of messages the inbox can hold depends on the length of the messages, and the number of other messages and drafts stored in your phone.

Setting Up the Text Message Inbox

Find the Feature













> Messages



> Text Msg Setup


Press	To
1	scroll to Srvce Center No.
2 CHANGE (change the Srvce Center No. which is provided by your service provider
3 keypad keys	enter the phone number for the service center that handles your outgoing messages



Press	To
4 OK ()	store your service center number
5 CHANGE ()	change the Expire After period
6 keypad keys	enter the expiration period—the number of days your network tries to send unreceived messages
7 OK ()	store the expiration period
8 CHANGE ()	change the Cleanup setting
9 	scroll to the period of time that messages stay in your inbox
10 SELECT ()	select the cleanup period If you select Custom , continue. Otherwise, the procedure is complete.
11 	change the entry for the number or label
12  * and # 	switch between the number and the label
13 DONE ()	store the custom cleanup period after you finish entering all information


Receiving a New Text Message

Note: You must set up the text message inbox before you can receive text messages.

When you receive a new message, your phone displays **New message**  and gives an alert. If reminders are turned on, your phone sends a reminder every five minutes until you close the new message notification, read the message, or turn off your phone. (See “Reminders” on page 129.)

When your inbox is full, any new message replaces the oldest unlocked message.

From the new message notification:

Press	To
READ ()	open the message (or your text message inbox if there are multiple messages)

Reading, Locking, or Deleting a Text Message

You can open your text message inbox to read, lock, or delete messages at any time.



Messages in the text message inbox are sorted from newest to oldest. The oldest messages are deleted as new ones are added. If you want to save a message, you should lock it to prevent it from being overwritten as new messages are received.

Find the Feature




> Messages
> Text Msgs

Press	To
1	scroll to the message you want (= unread and urgent, = read, = read and locked)
2 READ (open the message
3 SAVE (close the message without changes
or	
DELETE (delete the message
or	
	open the Text Msg Menu to perform other procedures as described in the following list

Messages—Text

The **Text Msg Menu** includes the following options:

Option	Description
Call Back	Call the number in the message header or the message text
Go To	Go to a Web address (URL) in the message
Reply	Open a new text message, with the message's Reply To number in the To field
Lock/Unlock	Lock or unlock the message
Delete or Delete All	Delete the message or all inbox messages Press Yes () to confirm the deletion.
Store Number	Open a new phonebook entry with the message's embedded number in the No. field
New	Open a new text message form
Setup	Open the inbox setup menu











Sending a New Text Message





To create and send a new text message:

Find the Feature

MENU > Messages
> Text Msgs
MENU > New

Press	To
1 CHANGE ()	select To
2 keypad keys	enter the phone number where you want to send the message
3 OK ()	store the number
4 CHANGE ()	select Msg
5 keypad keys	enter the text message (see “Entering Text” on page 54.)
6 OK ()	store the text message
7 CHANGE ()	select Priority
8 	scroll to the priority you want
9 SELECT ()	select the priority you want
10 CHANGE ()	select Call
11 keypad keys	enter the number you want your recipient to call back (the message’s From field)

Messages—Text

Press	To
12 OK ()	store the number
13 DONE ()	finish the message Your phone displays Send Message Now?
14 YES () or NO ()	send the message cancel the message or save it as a draft

Viewing the Status of Sent Text Messages

Text messages that you send are stored in the outbox. To view the contents of your outbox:


Find the Feature

 > Messages
> Outbox

Messages are sorted from newest to oldest.

The following icons indicate message status:

» = sending in progress, ✘ = sending failed,

✓ = delivered,  = read by recipient.










Shortcuts

Your phone includes several pre-programmed shortcuts. You can create additional shortcuts, if you like, to mark frequently used menu items.

Standard Shortcuts

The following shortcuts are pre-programmed on your phone. You cannot edit or delete these shortcuts.

Do This	To
Press  , then press and hold  (within two seconds)	zoom in/out your phone's display view (See "Changing the Zoom Setting" on page 31.)
Press  	lock/unlock your keypad
Press  	display your phone number
Press 	go to the dialed calls list (See "Recent Calls" on page 75.)

User-Settable Shortcuts

You can create shortcuts to the following menu features and applications:

Car Settings	Headset	In-Call Setup
Initial Setup	Messages	Network Settings
Personalize	Phone Status	Quick Dial
Recent Calls	Ring/Vibrate	Security

Creating a Shortcut

You can assign a keypad shortcut, or both a keypad shortcut *and* a voice shortcut to a menu item.

A voice shortcut lets you go directly to a menu item by saying its shortcut name. Your phone can store a total of five voice shortcuts.





Tip: Make your voice recording in a quiet location. Hold the phone about 4 inches from your mouth, and speak directly into the phone's microphone in a normal tone of voice.

Find the Feature



> *the item to which you want to assign a shortcut*




Do This	To
<p>1 Press and hold </p>	<p>open the shortcut editor</p> <p>The phone displays:</p> <p>Assign Shortcut for : “<i>Item</i>”?</p> <p>where <i>Item</i> is the name of the item you selected.</p>
<p>2 Press YES ()</p>	<p>view shortcut options</p>
<p>3 Press CHANGE ()</p>	<p>change the keypad shortcut number, if necessary</p>
<p>or</p>	
<p>Press DONE ()</p>	<p>select the default keypad shortcut number and close the shortcut editor if you do not want to assign a voice shortcut</p>

Shortcuts

Do This

To

or

Press 

scroll to **Voice** if you want to assign a voice shortcut

4 Press **RECORD** ()

begin the recording process

The phone displays **Press Voice key then say voice shortcut.**

5 Press and release the voice key on the right side of your phone and say the shortcut's name (in two seconds)


record the shortcut name

The phone displays **Press Voice key then REPEAT voice shortcut.**



Voice key




Do This	To
6 Press and release the voice key and repeat the name	confirm the shortcut name The phone displays Trained: Voice Shortcut
7 Press DONE ()	close the shortcut editor

Using Shortcuts

You can use a shortcut any time, whether you are on a call or scrolling through a menu.

Use a Keypad Shortcut

If you know the shortcut number:

Press	To
1 	open the menu
2 the shortcut's number	go to the menu item


Select a Shortcut From the List

To select a shortcut from the shortcut list:

Find the Feature  > **Shortcuts**
> *the shortcut you want*

Use a Voice Shortcut

To use a voice shortcut:

Do This	To
1 Press 	open the menu
2 Press and release the voice key on the right side of your phone and say the shortcut's name (in two seconds)	go to the menu item

Voice Notes



The voice note feature lets you record personal messages. You can play back a voice note at any time. There are no pre-recorded voice notes on your phone.

Recording a Voice Note

Your phone can store a total of two minutes of voice note recordings. (That is, the combined recording time of all voice notes cannot exceed two minutes.)

Use this procedure to record a voice note when the idle display is visible.

Tip: Make your voice recording in a quiet location. Hold the phone about 4 inches from your mouth, and speak directly into the phone's microphone in a normal tone of voice.

Voice Notes

Do This

- 1 Press and hold the voice key on the right side of your phone for the duration of the recording.



Voice
key

Result

A tone sounds in the earpiece and the phone displays the **Recording Voice Note** message.

- 2 Speak your voice message into the phone.

The phone records the message and displays a recording timer.

- 3 Release the voice key to stop recording.

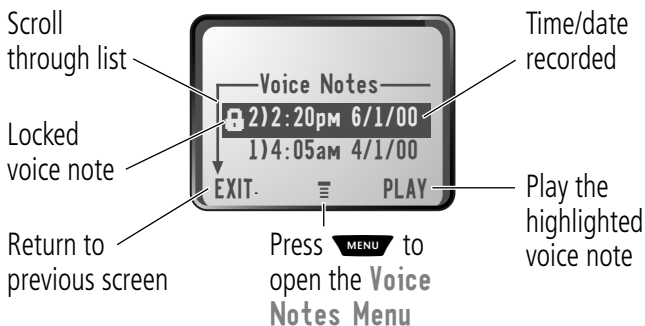
The phone displays the voice notes list number and the total recording time.



Viewing the Voice Notes List

The voice notes list shows all your voice notes along with other important information and features.

Find the Feature  > Voice Notes





New Voice Note appears at the end of the list or by itself if no voice notes are stored. Select **New Voice Note** to view instructions on how to record a new voice note.

Playing a Voice Note

To play a recorded voice note:

Find the Feature  > Voice Notes

Press	To
1 	scroll to the voice note
2 PLAY ()	play the voice note

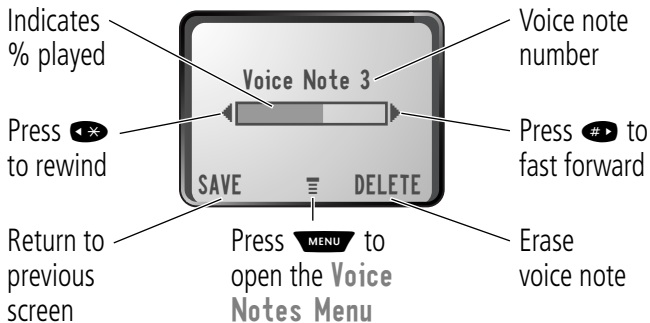
When a Motorola Original™ headset accessory or FM radio headset accessory is attached to your phone, voice note playback is automatically routed to the headset.

Tip: You can play a voice note while taking a call. It won't be transmitted to the other party.



Playback Screen

While the voice note is playing, the playback screen is displayed.



Voice Note Controls

While playing back a voice note, press these keys to do the following:

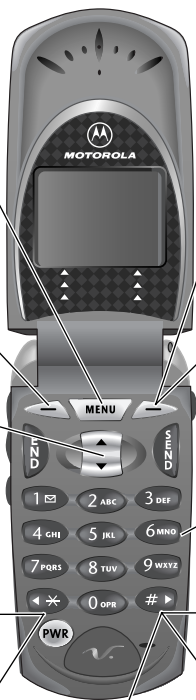
Stop playback and go to **Voice Notes Menu**.

Stop playback and return to voice notes list.

Stop playback and scroll up/down to next voice note.

Rewind three seconds, resume playing.

Press and hold to rewind to the beginning.



If the voice note is unlocked, stop playback and display **Delete Voice Note?**

If the voice note is locked, stop playback and unlock voice note.

Press any number key to alternately stop and start playback.

Fast forward three seconds, resume playing.

When playback is complete, press to restart.





Press and hold to fast forward to end.






Locking and Unlocking a Voice Note

You can prevent a voice note from being accidentally deleted by locking it. To delete a locked voice note, you must first unlock it.

Find the Feature > Voice Notes

Press	To
1 	scroll to the voice note you want to lock or unlock
2 	open the Voice Notes Menu
3 	scroll to Lock or Unlock
4 SELECT ()	lock or unlock the voice note

You can also lock or unlock a voice note while playing it back. When the playback screen is displayed:






Press	To
1 	open the Voice Notes Menu
2 	scroll to Lock or Unlock
3 SELECT ()	lock or unlock the voice note

Playback stops when you lock or unlock a voice note. Press any number key to resume playback.


Deleting a Voice Note

You can delete a single unlocked voice note or all unlocked voice notes. To delete a locked voice note, you must first unlock it. See “Locking and Unlocking a Voice Note” on page 123.

Find the Feature  > Voice Notes

Press	To
1 	scroll to the voice note you want to delete
2 	open the Voice Notes Menu
3 	scroll to Delete or Delete All
4 SELECT ()	select the highlighted option The phone displays Delete Voice Note X? , or Delete All Voice Notes?
5 YES ()	delete the selected voice note, or delete all voice notes

Notes:

- You can always press **NO** () to cancel deletion.
- A deleted voice note cannot be recovered.





The micro-browser lets you access Web pages and on your phone. Contact your service provider to set up access, if necessary.


Starting a Micro-Browser Session

To open the micro-browser:

Find the Feature  > **Browser**

The micro-browser displays the home page set up by your service provider.








Press	To
1 	scroll to a bookmark or service
2 SELECT ()	select the service

Shortcut: If you open a text message with a Web address (URL) in it, you can go directly to the URL by selecting  > **Go To**.

If you are unable to establish a network connection with the micro-browser, contact your service provider.

Interacting With Web Pages

You can perform the following operations on a Web page:

Do This	To
Press 	scroll through a text message
Press  and then SELECT ()	scroll through and select items in a list
Press keypad keys and then OK ()	enter requested information
Press  to scroll to a phone number on a Web page, then press 	call the number from the micro-browser
Press 	go back to the previous Web page

Adjusting Your Settings



You can adjust a wide variety of phone settings to suit your needs.


Ring/Vibrate


Your phone rings or vibrates to notify you of an incoming call, message, or other event. This ring or vibration is called an *alert*. You can use a standard alert for all events, or set different alert types for different events. The alert setting indicator in your display shows the current standard alert setting:

 Loud ring

 Soft ring

 Vibrate

 Ring and vibrate

 Silent

Select a Ring/Vibration for All Events

Find the Feature

 > Settings
> Ring/Vibrate
> Alert


Press

1 

To

scroll to the alert you want to use

Adjusting Your Settings

Press	To
2 SELECT ()	select the alert The phone displays the Changed: Alert message.



Select a Ring/Vibration for a Specific Event

You can select the alert that your phone uses for a specific event (such as an incoming call) from 32 different preset tones and vibrations. When you select a ring or vibration alert for a *specific* event, it overrides the default alert set for *all* events.

Tip: This feature also lets you set the ringer volume and keypad volume.

Find the Feature

 > Settings
> Ring/Vibrate
> Alert Detail

Press	To
1 	scroll to the event for which you want to set a new alert
2 CHANGE ()	select the event The phone displays the list of available alerts.



Press	To
3	scroll to the alert you want for the event
4 SELECT ()	select the alert
	The phone displays the Changed: <i>Event Alert</i> message.

Reminders

Reminders are alerts that ring or vibrate to notify you about a voicemail or text message that you have received, or a datebook event that you have scheduled.


To set or turn off reminders:

Find the Feature

- > Settings
- > Ring/Vibrate
- > Alert Detail
- > Reminders

Press	To
1	scroll to the reminder alert you want: Beep , Vibrate , or Off
	Beep or Vibrate sets the corresponding reminder alert type. Off turns off all reminders.





Adjusting Your Settings

Press	To
2 SELECT ()	select the reminder alert

Reordering Menu Items



You can customize the order of the items in your phone's main menu, depending upon your usage.

Find the Feature  > Settings
> Other Settings
> Personalize
> Main Menu

Press	To
1 	scroll to the menu item you want to move
2 GRAB ()	grab the menu item you want to move
3 	move the item up or down the menu
4 INSERT ()	insert the item in the new location







Customizing a Soft Key Function

You can relabel the soft keys ( and ) and the smart key to access different main menu items from the idle display.

Find the Feature



> Settings
> Other Settings
> Personalize > Keys

Press	To
1 	scroll to Left , Right , or Smart
2 CHANGE ()	open the key editor
3 	scroll to the new key function
4 CHANGE ()	confirm the new function

The key will have the new function whenever the phone is idle.

Hands-Free Use



You can purchase an optional Motorola Original™ hands-free car kit or headset for your phone. These accessories provide alternative ways for you to use your phone without using your hands.

Adjusting Your Settings







Note: 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.

Automatic Answer

When you activate automatic answer and connect your phone to a car kit or headset, your phone automatically answers calls after two rings.

Find the Feature

 > Settings
> Other Settings

Press	To
1 	scroll to Car Settings or Headset
2 SELECT ()	select the feature
3 	scroll to Auto Answer
4 CHANGE ()	select Auto Answer
5 	scroll to On or Off
6 SELECT ()	confirm the setting





Automatic Hands-Free

You can set up your phone to automatically route calls to a car kit when it detects a connection.

Find the Feature


-  > Settings
- > Other Settings
- > Car Settings
- > Auto Handsfree

Press	To
1 	scroll to On or Off
2 SELECT ()	confirm the setting



Power-Off Delay

When your phone is connected to a car kit, you can set it to stay on for a specified time period after you switch off the ignition. This keeps your phone from draining your vehicle battery by staying on indefinitely, but leaves your phone on long enough that you do not have to re-enter your unlock code when you make short stops.

Find the Feature

-  > Settings
- > Other Settings
- > Car Settings
- > Power-Off Delay

Adjusting Your Settings



Press	To
1 	scroll to the time delay option you want
2 SELECT ()	confirm your selection

Caution: If you select **Continuous**, the phone does not power off when you turn off the ignition. Be careful not to accidentally drain your vehicle battery if you select this option.

Charger Time

When your phone is connected to a car kit, you can set it to charge itself for a specified time period after you switch off the ignition. This helps ensure that the phone battery gets fully charged while the vehicle is parked.

Find the Feature  > Settings
> Other Settings
> Car Settings
> Charger Time

Press	To
1 	scroll to the charge time option you want
2 SELECT ()	confirm your selection



A Motorola Original™ data kit lets you transfer data between your phone and a computer or other external device. You can:

- synchronize data between your phone and an external device with TrueSync® software, a Motorola accessory product. See the TrueSync user guide for more information.
- use your phone as a wireless modem to connect to the Internet
- use your phone to send and receive data and fax calls on your computer or hand-held device.

More information about Motorola Original data kits is available at:

<http://www.motorola.com/dataaccessories>.

Connecting Your Phone to an External Device

Connect your phone to an external device (such as a computer or hand-held device) using a serial cable or a USB cable.

Set Up a Cable Connection

Attach a serial cable or Motorola Original USB cable to the phone and external device as follows.

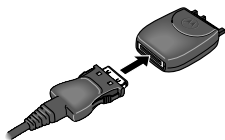
Note: Check your computer or hand-held device to determine the type of cable you need.

Attaching a Serial Cable

Use the interchangeable head on the Motorola Multi-Connect Serial Cable to connect a computer, Palm III device, or Palm V device to your phone.

Do This

- 1 Plug the serial cable into the detachable head. Make sure that the Motorola logo on the detachable head and the metal shielding on the serial cable plug are both facing you.





Do This

- 2 With the Motorola logo and the phone both facing you, plug the detachable head into your phone's accessory connector port.



- 3 Plug the other end of the cable into the serial interface connection on the external device and tighten the screws.

Attaching a USB Cable

Do This

- 1 Plug the end of the cable with the Motorola logo into your phone's accessory connector port. Make sure that the logo and the phone are both facing you.



Do This

- 2 Plug the other end—the USB connection—into the USB port on the external device.
-
-

Install the Software

Install the software from the CD-ROM that comes with your Motorola Original data kit. See the data kit's user guide for more information.

Sending a Data or Fax Call

You can connect your phone to a computer or hand-held device to send data or a fax from the connected device.

Use this feature to transfer data from your computer onto another device, and to synchronize phonebook and datebook information between your phone, computer, and/or hand-held device.

Connect your phone (see "Connecting Your Phone to an External Device" on page 135) and do the following:

Do This

To

- 1 Check the phone
- make sure that the phone is connected and powered on
-



Do This	To
2 Open the application on your computer	place the call through the application (such as dial-up-networking or fax) Note: You cannot dial data or fax numbers through your phone's keypad. You must dial them through your computer.
3 End the transfer on your computer	close the call and connection when the transfer is complete

Receiving a Data or Fax Call

You can connect your phone to a computer or hand-held device to receive data or a fax.




Use this feature to transfer data to your computer from another device.

Set Up Your Phone

Before you receive a data or fax call, you must configure your phone for the incoming call type and connect the phone to the device that will receive the call.

Find the Feature

 > **Settings**
> **Connection**
> **Incoming Call**

Do This	To
1 Press CHANGE ()	select the Next Call menu option
2 Press 	scroll to Data In Only or Fax In Only Selecting either of these options mutes the earpiece and routes the next incoming call to the connected device.
3 Press SELECT ()	set the format for the next incoming call
4 Connect your phone to the device	enable the data or fax transfer (See "Connecting Your Phone to an External Device" on page 135.)



Note: You cannot answer incoming voice calls when your phone is in data or fax mode. Any voice calls you receive are treated as unanswered calls. You must reset your phone to voice mode to return these calls. See “Reset Normal Voice Operation” on page 141 and “Returning an Unanswered Call” on page 39.

Transfer the Data or Fax

Your phone notifies you when the data or fax call arrives, and transfers the call to the connected device. You must use the application running on the connected device to answer the call.

End the Data/Fax Connection

When the data or fax transfer is complete:

Do This	To
End the call from the connected device	close the connection

Reset Normal Voice Operation




After you receive a data or fax call, you *must* reset your phone to resume normal voice operations. You cannot

Data and Fax Calls

make or receive voice calls when your phone is in data or fax mode.

Find the Feature

 > Settings
> Connection
> Incoming Call

Do This	To
1 Press CHANGE ()	select the Next Call menu option
2 Press 	scroll to Normal
3 Press SELECT ()	reset your phone to make and receive regular voice calls

Your phone also reverts to normal voice operations when you turn it off and then turn it back on.



Assigning a New Code or Password

Your phone's four-digit unlock code is originally set to 1234, and the six-digit security code is originally set to 000000 at the factory. Your service provider may reset these numbers before you receive your phone.

If your service provider has *not* reset these numbers, we recommend that you change them to prevent other users from accessing your personal information or modifying your phone settings. The unlock code must contain four digits, and the security code must contain six digits. Be sure to make a note of the new numbers.

Notes:






- Your service provider may retain your phone's security code for customer service purposes. In this case, you will not be able to use phone features that require you to enter the security code (such as master clear, master reset, and the unlock code bypass feature).
- If the only password you can change is the unlock code, the **New Passwords** menu is unavailable and the **Unlock Code** option appears on the **Phone Lock** menu. In this case, open the unlock code editor by

Security

selecting:  > **Settings** > **Security**
> **Phone Lock** > **Unlock Code**.

To change a code or password:

Find the Feature  > **Settings** > **Security**
> **New Passwords**



Press	To
1 	scroll to the code or password you want to change
2 CHANGE ()	select the code or password
3 keypad keys	enter your old code If you do not know your code, see "If You Forget a Code or Password" on page 145.
4 OK ()	submit your old code
5 keypad keys	enter the new code
6 OK ()	assign the new code
7 keypad keys	re-enter the new code
8 OK ()	confirm the new code



If You Forget a Code or Password

If you forget your security code (originally set to 000000), contact your service provider.

If you forget your unlock code, try entering 1234 or the last four digits of your phone number. If that does not work, do the following when you see the **Enter Unlock Code** message:

Press	To
1 	go to the unlock code bypass screen
2 keypad keys	enter your security code
3 OK ()	submit your security code


Locking and Unlocking Your Phone


You can lock your phone manually or set your phone to lock automatically whenever you turn it off.

When you try to use a locked phone, it asks you to enter the unlock code. A locked phone still rings or vibrates for incoming calls or messages, *but you must unlock it to answer.*

You can make emergency calls on your phone even when it is locked. See “Dialing an Emergency Number When the Phone is Locked” on page 40.


Lock Your Phone Manually

Find the Feature  > Settings > Security
> Phone Lock
> Lock Now

Press	To
1 keypad keys	enter your four-digit unlock code
2 OK ()	lock the phone


Set Your Phone to Lock Automatically

You can set your phone to lock every time you turn it off:

Find the Feature  > Settings > Security
> Phone Lock
> Automatic Lock > On


Press	To
1 keypad keys	enter your four-digit unlock code



Press	To
2 OK ()	set the phone to lock automatically

Unlock Your Phone



At the **Enter Unlock Code** prompt:

Press	To
1 keypad keys	enter your four-digit unlock code The unlock code is originally set to 1234. If necessary, see “If You Forget a Code or Password” on page 145.
2 OK ()	unlock your phone

Locking and Unlocking Your Keypad

You can lock your phone keypad to prevent accidental use. This feature is useful in situations where an accidental keypress might inadvertently dial an emergency number or one-touch dial number (for

example, when carrying your phone in a purse or pocket).

Press	To
 	lock or unlock your keypad

Note: Incoming calls and messages unlock the keypad.

Restricting Calls

You can stop all outgoing or incoming calls, or you can restrict them to the numbers stored in your phonebook.







An incoming call that is restricted is treated as an unanswered call. Your phone displays the **Missed Calls** message and adds the call to the received calls list.

Notes:

- You can still place calls to emergency numbers when outgoing calls are restricted.
- Your phone still receives incoming text messages when incoming calls are restricted.







Find the Feature  > Settings > Security
> Restrict Calls




Press	To
1 keypad keys	enter your four-digit unlock code
2 OK ()	open the restrict calls menu
3 	scroll to Outgoing Calls or Incoming Calls
4 CHANGE ()	select Outgoing Calls or Incoming Calls
5 CHANGE ()	change the Allow setting
6 	scroll to All , None , or Phonebook
7 SELECT ()	select the calls you want to allow

Troubleshooting

Check these questions first if you have problems with your phone:


Question	Answer
Is your phone set up correctly?	Press   . If you do not see your phone number, contact your service provider.
Is your battery charged? Do you see  in the display?	The battery level indicator should have at least one segment showing (). If it does not, recharge your battery. (See “Charging the Battery” on page 24 and “Battery Use” on page 36.)
Does the handset have a signal? Do you see  in the display?	Make sure that your antenna is fully extended. The signal strength indicator should have at least one segment showing (). If it does not, move to an area with a stronger signal to use your phone.
Is the earpiece volume too low?	While on a call, press the upper volume key on the side of your phone.





Question	Answer
Is the other party unable to hear you?	<p>Make sure that your antenna is fully extended and that your phone is not muted. Press UNMUTE () if necessary to unmute the phone.</p> <p>Also, make sure that your phone's microphone is not blocked by its carrying case or a sticker.</p>
Has the phone been damaged, dropped, or gotten wet?	<p>Dropping your phone, getting it wet, or using a non-Motorola battery or battery charger can damage the phone. The phone's limited warranty does not cover liquid damage or damage caused from using non-Motorola accessories.</p>
Was a non-Motorola battery or battery charger used?	

Troubleshooting

The following refer to specific problems:

Problem	Solution
My phone was stolen. To whom should I report this?	Report a stolen phone to the police and to your service provider (the company that sends you your monthly wireless service bill).
I forgot my password.	See “If You Forget a Code or Password” on page 145.
I pressed the power key, but nothing happened.	Be sure to press and hold  until the display appears and you hear an audible alert (this could take a couple of seconds). If nothing happens, check that a charged battery is installed. (See “Installing the Battery” on page 22.)
The display says: Enter Unlock Code. How do I unlock my phone?	Enter the factory-preset unlock code (1234), or the last four digits of your phone number. (See “Locking and Unlocking Your Phone” on page 145.) If this fails, call your service provider (the company that sends you your monthly wireless service bill).



Problem	Solution
My phone asks for an unlock code when I try to open a feature.	The application you want is locked. If you own the phone but do not know the unlock code, see “If You Forget a Code or Password” on page 145.
My phone does not ring.	If you see  or  in the display, then the ringer is turned off. See “Ring/Vibrate” on page 127.
I tried to place a call and heard an alternating high/low tone.	Your call did not reach the wireless system. You may have dialed the number too soon after turning the phone on. Wait until the display says Ready before making a call.




Troubleshooting

Problem	Solution
I cannot send/receive calls.	<p>Make sure that your antenna is fully extended and that you have a phone signal (see the "Signal Strength Indicator" item on page 29). Avoid electrical or radio interference, and obstructions such as bridges, parking garages, or tall buildings.</p> <p>Your phone also may have the Restrict Calls feature turned on. If you know the unlock code, you can change this setting in the security menu (MENU > Settings > Security).</p>
My phone has poor reception and drops calls.	<p>Make sure that your antenna is fully extended and is not bent or damaged.</p> <p>Also, make sure you have a phone signal (see the "Signal Strength Indicator" item on page 29). Stay clear of any obstructions such as bridges, parking garages, or tall buildings.</p>



Problem	Solution
I cannot hear others on my phone.	<p>While on a call, press the upper volume key on the left side of your phone. Your phone display should show the volume increasing.</p> <p>Also, make sure that your phone's earpiece is not blocked by its carrying case.</p>
I cannot open my inbox.	<p>Before you can use text or information services messages, you must set up the appropriate inbox. See "Setting Up the Text Message Inbox" on page 104.</p>
How do I see the calls I sent or received?	<p>To see the most recent calls you dialed or received, open the "Recent Calls" lists:</p> <ul style="list-style-type: none">MENU > Recent Calls> Dialed Calls or> Received Calls

Troubleshooting

Problem	Solution
<p>My phone will not send voicemail commands, passwords, or other codes.</p>	<p>Your phone sends commands and passwords as DTMF tones. You can set your phone's DTMF tones to be On or Off. If you have trouble sending numbers, try changing your DTMF setting.</p> <ol style="list-style-type: none"><li data-bbox="412 491 881 728">1 From the idle display, press:  > Settings > Other Settings > Initial Setup > DTMF<li data-bbox="412 753 819 798">2 Press  to scroll to On.<li data-bbox="412 817 902 902">3 Press SELECT () to select it.
<p>My phone's display is too dark.</p>	<p>You can use the Contrast Setting feature (see page 67) to change the level of contrast in your phone display.</p> <p>You can also use the Backlight feature (see page 66) to change the length of time that your phone's backlight display stays on.</p>



Problem	Solution
My battery didn't last as long as I expected. What can I do to extend battery life?	Your battery's performance is affected by charge time, feature use, temperature changes, and other factors. For tips on extending your battery life, see "Battery Use" on page 36.
I am unable to record a voice note, voice name, or voice shortcut	Try moving to a quieter location to make your voice recording. Hold the phone about 4 inches away from your mouth, and speak directly into your phone's microphone in a normal tone of voice.



Troubleshooting

Problem	Solution
I plugged the data cable into my phone but my phone did not beep. How do I know if the data cable is ready to go?	<p>The beep indicates that you are set up correctly. If you did not hear a beep, make sure that both ends of the data cable are connected—the smaller end to your phone and the larger end to your computer.</p> <p>Finally, your computer may have deactivated the port to save power. Try opening an application that uses the port, like a fax or dial-up application, and your computer will automatically activate the port.</p>



Problem	Solution
My phone beeped when I attached the data cable, but my fax and data applications don't work.	<p>You must be in an area with digital coverage. Check your phone's display for the digital signal indicator (D).</p> <p>Some wireless networks may not support data or fax transmission. If you see the digital indicator, but you are roaming on an unfamiliar network, this may be the case.</p> <p>Also, remember that data and fax transmission usually requires a subscription. Call your service provider for more information.</p>
When sending data with the data cable, why does the computer show a connection rate of 19200 Kbps?	<p>19200 Kbps is the data transfer rate of the connection between your computer and the phone. The rate of the connection between your phone and the network is displayed on your phone, and will be either 14400 or 9600 Kbps.</p>

Troubleshooting

Problem	Solution
I can't end my data call by closing the application on my computer. What can I do?	Try pressing  on your phone. Also try disconnecting the cable or turning off the phone. If possible, always close the connection through your computer. These alternative methods may disrupt the application on your computer.
I launched the micro-browser but the display says: Service Not Available.	You may be in an area without service. If you have wireless service, look in the display for the digital signal indicator (). If you do not see the indicator, you may be in an area that has only analog service or no service at all. If you see the digital signal indicator, you may be connected to a digital network that does not support Internet access.
I launched the micro-browser but the display says: Data Server Unavailable.	Try again in a few minutes. The servers may be temporarily busy.

Programming Instructions
















Follow this procedure if you need to program your phone's phone number.

Note: Programming is normally done by a trained technician at the site of purchase. Users should not make changes other than ones in the following procedure.

Before programming, ask your service provider for your:

- 10-digit MIN (Mobile Identification Number)
- 8- to 15-digit IMSI (International Mobile Service Identifier)
- 8- to 15-digit MDN (Mobile Directory Number)

Programming Instructions

Do This	To
<p>1 Press        </p> <p>(These keys spell P-H-O-N-E +   ).</p>	open the user activation menu
2 Press SELECT ()	select NAM1
3 Press the keypad keys for the 10-digit MIN	open the MIN display and enter the new MIN
4 Press OK ()	store the new MIN
5 Similarly, enter appropriate numbers for the IMSI and MDN	
6 Press DONE ()	close the NAM1 list
7 Press BACK ()	close the user activation menu

Specific Absorption Rate Data

This model phone meets the government's requirements for exposure to radio waves.

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

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg.* Tests for SAR are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the

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

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 0.42 W/kg^{**} , and when worn on the body, as described in this user guide, is 1.23 W/kg^{**} . (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section

of <http://www.fcc.gov/oet/fccid> after searching on FCC ID IHDT56AD1.

- * In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.
- ** The SAR information reported to the FCC includes the FCC-accepted Motorola testing protocol, assessment procedure, and measurement uncertainty range for this product.

***The U.S. Food and Drug
Administration's Center for
Devices and Radiological Health Consumer
Update on Mobile Phones***



FDA has been receiving inquiries about the safety of mobile phones, including cellular phones and PCS phones. The following summarizes what is known—and what remains unknown—about whether these products can pose a hazard to health, and what can be done to minimize any potential risk. This information may be used to respond to questions.

Why the concern?

Mobile phones emit low levels of radio frequency energy (i.e., radio frequency radiation) in the microwave range while being used. They also emit very low levels of radio frequency energy (RF), considered non-significant, when in the stand-by mode. It is well known that high levels of RF can produce biological damage through heating effects (this is how your microwave oven is able to cook food). However, it is not known whether, to what extent, or through what mechanism, lower levels of RF might cause adverse health effects as well. Although some research has been done to address these questions, no clear picture of the biological effects of this type of radiation has emerged to date. Thus, the

available science does not allow us to conclude that mobile phones are absolutely safe, or that they are unsafe. However, the available scientific evidence does not demonstrate any adverse health effects associated with the use of mobile phones.

What kinds of phones are in question?

Questions have been raised about hand-held mobile phones, the kind that have a built-in antenna that is positioned close to the user's head during normal telephone conversation. These types of mobile phones are of concern because of the short distance between the phone's antenna—the primary source of the RF—and the person's head. The exposure to RF from mobile phones in which the antenna is located at greater distances from the user (on the outside of a car, for example) is drastically lower than that from hand-held phones, because a person's RF exposure decreases rapidly with distance from the source. The safety of so-called "cordless phones," which have a base unit connected to the telephone wiring in a house and which operate at far lower power levels and frequencies, has not been questioned.

How much evidence is there that hand-held mobile phones might be harmful?

Briefly, there is not enough evidence to know for sure, either way; however, research efforts are on-going. The

existing scientific evidence is conflicting and many of the studies that have been done to date have suffered from flaws in their research methods. Animal experiments investigating the effects of RF exposures characteristic of mobile phones have yielded conflicting results. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. In one study, mice genetically altered to be predisposed to developing one type of cancer developed more than twice as many such cancers when they were exposed to RF energy compared to controls. There is much uncertainty among scientists about whether results obtained from animal studies apply to the use of mobile phones. First, it is uncertain how to apply the results obtained in rats and mice to humans. Second, many of the studies that showed increased tumor development used animals that had already been treated with cancer-causing chemicals, and other studies exposed the animals to the RF virtually continuously—up to 22 hours per day.

For the past five years in the United States, the mobile phone industry has supported research into the safety of mobile phones. This research has resulted in two findings in particular that merit additional study:

- 1 In a hospital-based, case-control study, researchers looked for an association between mobile phone use and either glioma (a type of brain cancer) or

acoustic neuroma (a benign tumor of the nerve sheath). No statistically significant association was found between mobile phone use and acoustic neuroma. There was also no association between mobile phone use and gliomas when all types of types of gliomas were considered together. It should be noted that the average length of mobile phone exposure in this study was less than three years.

When 20 types of glioma were considered separately, however, an association was found between mobile phone use and one rare type of glioma, neuroepitheliomatous tumors. It is possible with multiple comparisons of the same sample that this association occurred by chance. Moreover, the risk did not increase with how often the mobile phone was used, or the length of the calls. In fact, the risk actually decreased with cumulative hours of mobile phone use. Most cancer causing agents increase risk with increased exposure. An ongoing study of brain cancers by the National Cancer Institute is expected to bear on the accuracy and repeatability of these results.¹

- 2 Researchers conducted a large battery of laboratory tests to assess the effects of exposure to mobile phone RF on genetic material. These included tests for several kinds of abnormalities, including

mutations, chromosomal aberrations, DNA strand breaks, and structural changes in the genetic material of blood cells called lymphocytes. None of the tests showed any effect of the RF except for the micronucleus assay, which detects structural effects on the genetic material. The cells in this assay showed changes after exposure to simulated cell phone radiation, but only after 24 hours of exposure. It is possible that exposing the test cells to radiation for this long resulted in heating. Since this assay is known to be sensitive to heating, heat alone could have caused the abnormalities to occur. The data already in the literature on the response of the micronucleus assay to RF are conflicting. Thus, follow-up research is necessary.²

FDA is currently working with government, industry, and academic groups to ensure the proper follow-up to these industry-funded research findings. Collaboration with the Cellular Telecommunications Industry Association (CTIA) in particular is expected to lead to FDA providing research recommendations and scientific oversight of new CTIA-funded research based on such recommendations.

Two other studies of interest have been reported recently in the literature:

- 1 Two groups of 18 people were exposed to simulated mobile phone signals under laboratory

conditions while they performed cognitive function tests. There were no changes in the subjects' ability to recall words, numbers, or pictures, or in their spatial memory, but they were able to make choices more quickly in one visual test when they were exposed to simulated mobile phone signals. This was the only change noted among more than 20 variables compared.³

- 2** In a study of 209 brain tumor cases and 425 matched controls, there was no increased risk of brain tumors associated with mobile phone use. When tumors did exist in certain locations, however, they were more likely to be on the side of the head where the mobile phone was used.

Because this occurred in only a small number of cases, the increased likelihood was too small to be statistically significant.⁴

In summary, we do not have enough information at this point to assure the public that there are, or are not, any low incident health problems associated with use of mobile phones. FDA continues to work with all parties, including other federal agencies and industry, to assure that research is undertaken to provide the necessary answers to the outstanding questions about the safety of mobile phones.

What is known about cases of human cancer that have been reported in users of hand-held mobile phones?

Some people who have used mobile phones have been diagnosed with brain cancer. But it is important to understand that this type of cancer also occurs among people who have not used mobile phones. In fact, brain cancer occurs in the U.S. population at a rate of about 6 new cases per 100,000 people each year. At that rate, assuming 80 million users of mobile phones (a number increasing at a rate of about 1 million per month), about 4800 cases of brain cancer would be expected each year among those 80 million people, whether or not they used their phones. Thus it is not possible to tell whether any individual's cancer arose because of the phone, or whether it would have happened anyway. A key question is whether the risk of getting a particular form of cancer is greater among people who use mobile phones than among the rest of the population. One way to answer that question is to compare the usage of mobile phones among people with brain cancer with the use of mobile phones among appropriately matched people without brain cancer. This is called a case-control study. The current case-control study of brain cancers by the National Cancer Institute, as well as the follow-up research to be sponsored by industry, will begin to generate this type of information.

What is FDA's role concerning the safety of mobile phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as mobile phones before marketing, as it does with new drugs or medical devices. However, the agency has authority to take action if mobile phones are shown to emit radiation at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of mobile phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions at this time, FDA has urged the mobile phone industry to take a number of steps to assure public safety. The agency has recommended that the industry:

- support needed research into possible biological effects of RF of the type emitted by mobile phones
- design mobile phones in a way that minimizes any RF exposure to the user that is not necessary for device function
- cooperate in providing mobile phone users with the best possible information on what is known about possible effects of mobile phone use on human health

At the same time, FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of mobile phone safety to ensure a coordinated effort at the federal level. These agencies are:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Health and Safety Administration
- National Telecommunications and Information Administration

The National Institutes of Health also participates in this group.

In the absence of conclusive information about any possible risk, what can concerned individuals do?

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if people are concerned about avoiding even potential risks, there are simple steps they can take to do so. For example, time is a key factor in how much exposure a person receives. Those persons who spend long periods of time on their hand-held mobile phones

could consider holding lengthy conversations on conventional phones and reserving the hand-held models for shorter conversations or for situations when other types of phones are not available.

People who must conduct extended conversations in their cars every day could switch to a type of mobile phone that places more distance between their bodies and the source of the RF, since the exposure level drops off dramatically with distance. For example, they could switch to:

- a mobile phone in which the antenna is located outside the vehicle
- a hand-held phone with a built-in antenna connected to a different antenna mounted on the outside of the car or built into a separate package
- a headset with a remote antenna to a mobile phone carried at the waist

Again, the scientific data do not demonstrate that mobile phones are harmful. But if people are concerned about the radio frequency energy from these products, taking the simple precautions outlined above can reduce any possible risk.

Where can I find additional information?

For additional information, see the following Web sites:

Federal Communications Commission (FCC) RF Safety Program (select "Information on Human Exposure to RF Fields from Cellular and PCS Radio Transmitters"):

<http://www.fcc.gov/oet/rfsafety>

World Health Organization (WHO) International Commission on Non-Ionizing Radiation Protection (select Qs & As): <http://www.who.int/emf>

United Kingdom, National Radiological Protection Board: <http://www.nrpb.org.uk>

Cellular Telecommunications Industry Association (CTIA): <http://www.wow-com.com>

U.S. Food and Drug Administration (FDA) Center for Devices and Radiological Health:

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

1. Muscat et al. Epidemiological Study of Cellular Telephone Use and Malignant Brain Tumors. In: State of the Science Symposium; 1999 June 20; Long Beach, California.
2. Tice et al. Tests of mobile phone signals for activity in genotoxicity and other laboratory assays. In: Annual Meeting of the Environmental Mutagen Society; March 29, 1999, Washington, D.C.; and personal communication, unpublished results.
3. Preece, AW, Iwi, G, Davies-Smith, A, Wesnes, K, Butler, S, Lim, E, and Varey, A. Effect of a 915-MHz simulated mobile phone signal on cognitive function in man. *Int. J. Radiat. Biol.*, April 8, 1999.

4. Hardell, L, Nasman, A, Pahlson, A, Hallquist, A and Mild, KH.
Use of cellular telephones and the risk for brain tumors: a case-control study. *Int. J. Oncol.*, 15: 113-116, 1999.

FDA020400

Warranty

Limited Warranty for Motorola Personal Communications Products Purchased in the United States and Canada

I. What This Warranty Covers

- Products. Defects in materials and workmanship in wireless cellular telephones, pagers, and/or two-way radios, and certain accessories that are sold with them, such as the battery, battery charger and holster manufactured and/or sold by Motorola (Products).
- Batteries. Defects in materials and workmanship in batteries that are manufactured by Motorola and/or sold with Products are covered by this warranty only if the fully-charged capacity falls below 80% of rated capacity or they leak.
- Software. Physical defects in the media that tangibly embodies each copy of any software supplied with the Products.

II. What the Period of Coverage Is

From the date the Products are purchased by the first end-user:

- Products. The warranty is for one year. Exception: The warranty for Spirit GT series and Talkabout series two-way radio accessories is for 90 days.
- Software. The warranty is for 90 days.
- Repairs/Replacements. The warranty is for the balance of the original warranty or for 90 days from the date you receive it, whichever is longer.

III. Who is Covered

This warranty extends to the first end-user purchaser, only.

IV. What We Will Do to Correct Warranty Problems

At no charge to you, we have the option to repair or replace the Products or software that do not conform to the warranty, or to refund the Products' purchase price. We may use functionally equivalent reconditioned/refurbished/pre-owned or new Products or parts. No software updates are provided.

V. How to Get Warranty Service

Please call:

USA

Cellular 1-800-331-6456

Paging 1-800-548-9954

Two-Way 1-800-353-2729

TTY (Text Telephone) 1-888-390-6456

Canada

All Products 1-800-461-4575

TTY (Text Telephone) 1-888-390-6456

You will receive instructions on how to ship the Products to Motorola. You must ship the Products to us with freight, duties and insurance prepaid. Along with the Products you must include: (a) a copy of your receipt, bill of sale or other comparable proof of purchase; (b) a written description of the problem; (c) the name of your service provider (if this Product requires subscription service); (d) the name and location of the installation facility (if applicable) and, most importantly; (e) your address and telephone number. If requested, you must also return all detachable parts such as antennas, batteries and chargers. **RETAIN YOUR ORIGINAL PROOF OF PURCHASE.**

We will ship repaired or replacement Products at our expense for the freight and insurance, but at your

expense for any duties. If additional information is needed, please contact us at the telephone number listed above.

VI. What This Warranty Does Not Cover

- Products that are operated in combination with ancillary or peripheral equipment or software not furnished by Motorola for use with the Products ("ancillary equipment"), or any damage to the Products or ancillary equipment as a result of such use. Among other things, "ancillary equipment" includes batteries, chargers, adaptors, and power supplies not manufactured or supplied by Motorola. Any of these voids the warranty.
- Someone other than Motorola (or its authorized service centers) tests, adjusts, installs, maintains, alters, modifies or services the Products in any way. Any of these voids the warranty.
- Rechargeable batteries that: (a) are charged by other than the Motorola-approved battery charger specified for charging such batteries; (b) have any broken seals or show evidence of tampering; (c) are used in equipment other than the Product for which they are specified; or (d) are charged and stored at temperatures greater than 60 degrees centigrade. Any of these voids the warranty.

Warranty

- Products that have: (a) serial numbers or date tags that have been removed, altered or obliterated; (b) board serial numbers that do not match each other, or board serial numbers that do not match the housing; or (c) nonconforming or non-Motorola housings or parts. Any of these voids the warranty.
- Defects or damage that result from: (a) use of the Products in a manner that is not normal or customary; (b) improper operation or misuse; (c) accident or neglect such as dropping the Products onto hard surfaces; (d) contact with water, rain, extreme humidity or heavy perspiration; (e) contact with sand, dirt or the like; or (f) contact with extreme heat, or spills of food or liquid.
- Physical damage to the surface of the Products, including scratches, cracks or other damage to a display screen, lens or other externally exposed parts.
- Failure of Products that is due primarily to any communication service or signal you may subscribe to or use with the Products.
- Coil cords that are stretched or that have any broken modular tabs.
- Products that are leased.

Warranty

Flat-rate repair rates may apply to Products not covered by this warranty. To obtain information about Products needing repairs that are not covered by this warranty, please call the telephone number previously listed. We will provide information on repair availability, rates, methods of payment, where to send the Products, etc.

VII. Some Other Limitations

This is Motorola's complete warranty for the Products, and states your exclusive remedies. This warranty is given in lieu of all other express warranties. Implied warranties, including without limitation, the implied warranties of merchantability and fitness for a particular purpose, are given only if specifically required by applicable law. Otherwise, they are specifically excluded.

No warranty is made as to coverage, availability, or grade of service provided by the Products, whether through a service provider or otherwise.

No warranty is made that the software will meet your requirements or will work in combination with any hardware or applications software products provided by third parties, that the operation of the software products will

Warranty

be uninterrupted or error free, or that all defects in the software products will be corrected.

In no event shall Motorola be liable, whether in contract or tort (including negligence) for damages in excess of the purchase price of the Product, or for any indirect, incidental, special or consequential damages of any kind, or loss of revenue or profits, loss of business, loss of information or data, or other financial loss arising out of or in connection with the ability or inability to use the Products, to the full extent these damages may be disclaimed by law.

VIII. Patent and Software Provisions

At Motorola's expense, we will defend you, and pay costs and damages that may be finally awarded against you, to the extent that a lawsuit is based on a claim that the Products directly infringe a United States patent. Our obligation is conditioned on: (a) you notifying us promptly in writing when you receive notice of the claim; (b) you giving us sole control of the defense of the suit and all negotiations for its settlement or compromise; and (c) should the Products become, or in Motorola's opinion be likely to become, the subject of a claim of infringement of a United States patent, you

Warranty

permit us, at our option and expense, either to: procure for you the right to continue using the Products; replace or modify them so that they become non-infringing; or grant you a credit for such Products, as depreciated, and accept their return. The depreciation will be an equal amount per year over the lifetime of the Products, as established by Motorola.

Motorola will have no liability to you with respect to any claim of patent infringement that is based upon the combination of the Products or parts furnished under this limited warranty with ancillary equipment, as defined in VI., above.

This is Motorola's entire liability with respect to infringement of patents by the Products.

Laws in the United States and other countries preserve for Motorola and other third party software providers certain exclusive rights for copyrighted software, such as the exclusive rights to reproduce in copies and distribute copies of such software. The software may be copied into, used in and redistributed with only those Products that are associated with such software. No other use, including without limitation, disassembly or reverse engineering of such software or exercise of exclusive rights in such software is permitted.

IX. State Law and Other Jurisdiction Rights

Some states and other jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or limitation on the length of an implied warranty, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from jurisdiction to jurisdiction.

To obtain information on Motorola Personal Communications Products, including warranty service, accessories and optional Extended Warranties on selected Products, please call:

USA

Cellular 1-800-331-6456

Paging 1-800-548-9954

Two-Way 1-800-353-2729

TTY (Text Telephone) 1-888-390-6456

Canada

All Products 1-800-461-4575

TTY (Text Telephone) 1-888-390-6456

Warranty

To correspond with Motorola about the Products, please write us at <http://www.motorola.com> or at:

In the USA:

Motorola, Inc.

600 North U.S. Highway 45

Libertyville, IL 60048

In Canada:

Motorola Canada Limited

5875 Whittle Road

Mississauga, ON L4Z 2H4

Patent Information

Manufactured under one or more of the following U.S. patents:

4291475	4593155	4741018	4860336	4916262	4996529
4302845	4594657	4742562	4860341	4918431	5008925
4312074	4602218	4761621	4868576	4918732	5010309
4365221	4605987	4764737	4870686	4922178	5010570
4369516	4616314	4775998	4872196	4941203	5014294
4369520	4617520	4791527	4873683	4942570	5014346
4369522	4628529	4794489	4876552	4945570	5017856
4374370	4629829	4797929	4876656	4956854	5018188
4378603	4633141	4797947	4876740	4959851	5020076
4390963	4636593	4798975	4879533	4963812	5020091
4398265	4636741	4802236	4885553	4964121	5020092
4400584	4648125	4803726	4887050	4970475	5020093
4400585	4649543	4809356	4890199	4972355	5023580
4434461	4654655	4811377	4896124	4972432	5023866
4455534	4680787	4811404	4896361	4972455	5023911
4486624	4704588	4817157	4897873	4975808	5025387
4491972	4711361	4827507	4903326	4977589	5027388
4523155	4715063	4829543	4903327	4977616	5028083
4546329	4717884	4831647	4904549	4979207	5028859
4574243	4730195	4843621	4904992	4984219	5029233
4581602	4731813	4845772	4905288	4984290	5036532
4581749	4736277	4851966	4905301	4989230	5038253
4585957	4737976	4852090	4912602	4992753	5040127

5042071	5117449	5153590	5203012	5241688	5287013
5045824	5117450	5157693	5203013	5242767	5287553
5053924	5121047	5160898	5203021	5243355	5287555
5055800	5121288	5162144	5204977	5247544	5287556
5055802	5121412	5163159	5205751	5247565	5289505
5055803	5122480	5164652	5210793	5249302	5297142
5057762	5122722	5166596	5211581	5251331	5299232
5058136	5124889	5166642	5212815	5255292	5301365
5059885	5127040	5168522	5212826	5257414	5308716
5060264	5127042	5170173	5214675	5259005	5321705
5063340	5127100	5170485	5214774	5260170	5321737
5065408	5128834	5170492	5216389	5260988	5321847
5067139	5133010	5175729	5220290	5261119	5323421
5070310	5134717	5175759	5220936	5262710	5325405
5077757	5140286	5175874	5222078	5263052	5325429
5077790	5140635	5182749	5222104	5263055	5327578
5081674	5142551	5185566	5222251	5265271	5327642
5083304	5142696	5185790	5230007	5267230	5331123
5087004	5144533	5187640	5230093	5276588	5333153
5093632	5146620	5187809	5233506	5276707	5336984
5095503	5148471	5192924	5233633	5276913	5338909
5107487	5148473	5193223	5235492	5276915	5343213
5109400	5150075	5195106	5237257	5278832	5349588
5111162	5150359	5195108	5237570	5278994	5351245
5113400	5150384	5198887	5239127	5280630	5359696
5113436	5151643	5200655	5241545	5280637	5361400
5117073	5152006	5201069	5241548	5280644	5363071
5117441	5152007	5203009	5241592	5285443	5365549

5366826	5428820	5469177	5510693	5554996	5600341
5367538	5428836	5471671	5511235	5555550	5604050
5367558	5430416	5475752	5513078	5557743	5604468
5371791	5432017	5477192	5513996	5559471	5604787
5373101	5434947	5485506	5519303	5559522	5606332
5375143	5436802	5485513	5519346	5559806	5606560
5375258	5438684	5486843	5519506	5561436	5606730
5379324	5442680	5487184	5519777	5561437	5613229
5381114	5444764	5488649	5524276	5561852	5613863
5384825	5446763	5490177	5526398	5565881	5615233
5392000	5446766	5491739	5528666	5566224	5615259
5392023	5448763	5493198	5530399	5568548	5615260
5392331	5448770	5493700	5530922	5570453	5621763
5396654	5448771	5493714	5533119	5572223	5621766
5401927	5453997	5495206	5535258	5572224	5625316
5402447	5457744	5495208	5535434	5574976	5625683
5402448	5459640	5497126	5539360	5577267	5628001
5404580	5459774	5497382	5542016	5577268	5628057
5404582	5461643	5497383	5542103	5583520	5628089
5406146	5463351	5499273	5542106	5584054	5629979
5406562	5463406	5499394	5542116	5586146	5630159
5408693	5463628	5499397	5544250	5588041	5630210
5410275	5463646	5502437	5546275	5589796	5630213
5410741	5463674	5504494	5546380	5590177	5630215
5414711	5463688	5504812	5551078	5594778	5631538
5420759	5463694	5506490	5551627	5594951	5633484
5424689	5465409	5508709	5553137	5598129	5633786
5428362	5465412	5509048	5553376	5598431	5634202

5640690	5692101	5738954	5784419	5815507	5856763
5642368	5696497	5739792	5784585	5815570	5856766
5646576	5696821	5740525	5787128	5815804	5857148
5649306	5699070	5742894	5787577	5815805	5857192
5649309	5699389	5745116	5793315	5815807	5859522
5656914	5699408	5745566	5793866	5815820	5859567
5656917	5701130	5745848	5796822	5821820	5859890
5657418	5701244	5747970	5797101	5822726	5861853
5659601	5701589	5748727	5798716	5826224	5862460
5660945	5703470	5754141	5799011	5831826	5862493
5661433	5703539	5754455	5799256	5832080	5864799
5664973	5703909	5754583	5801513	5832388	5865487
5666429	5706019	5754645	5801567	5835006	5867063
5668871	5706313	5754956	5802111	5835535	5867127
5670912	5708445	5758271	5805992	5835785	5867140
5673001	5710862	5760714	5807012	5838202	5867510
5673003	5710987	5761300	5808585	5841851	5870670
5673287	5711001	5761610	5808586	5842122	5872744
5674326	5715520	5764100	5809020	5844943	5877633
5675591	5715524	5764111	5809419	5846094	5878075
5675702	5717307	5764730	5809421	5848072	5878209
5678201	5722052	5764743	5809430	5848152	5878336
5678221	5724004	5766794	5809433	5848356	5878353
5678227	5726983	5771182	5809544	5848718	5880637
5680063	5729221	5771471	5812093	5850440	5880646
5684384	5732350	5777521	5812542	5854549	5881377
5691947	5737327	5777856	5812590	5854785	5889737
5692046	5737685	5784368	5814798	5854972	5889768

5889859	5930288	5977916	6016312	D302015	D325028
5892410	5930299	5980268	6016422	D303656	D325029
5893036	5933330	5982881	6018584	D304189	D325032
5894597	5936516	5983082	6018651	D305427	D325583
5896054	5936972	5987012	6018671	D305717	D325915
5896261	5939939	5988577	6021332	D306015	D327061
5898933	5940452	5995050	D284759	D306163	D327062
5900829	5940746	5996178	D285439	D306293	D328302
5901347	5943027	5999115	D288432	D306299	D332261
5901357	5945852	5999821	D288683	D306441	D332785
5903825	5945964	5999832	D289156	D306583	D334746
5903852	5946395	6002922	D292578	D306594	D337332
5905956	5949020	6002937	D292920	D307271	D338012
5907418	5950131	6005498	D295627	D309301	D338887
5907615	5950139	6006104	D295973	D309451	D339127
5909102	5953413	6008636	D295975	D314173	D339335
5910944	5954817	6009168	D296187	D315330	D339336
5912648	5955700	6009309	D297734	D315346	D339337
5920549	5955999	6009325	D297735	D315543	D339564
5920550	5956626	6009336	D297736	D315559	D339578
5923007	5963848	6009552	D299136	D315565	D339581
5924044	5963876	6011699	D299137	D315907	D339582
5925835	5964858	6011784	D299232	D316417	D340709
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5926503	5966671	6012634	D301473	D322783	D340906
5926751	5969545	6014376	D301476	D324024	D341589
5930268	5974042	6014552	D301883	D324388	D342248

D342663	D348880	D358148	D373585	D382872	D388082
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D342741	D350113	D359735	D374014	D383749	D388430
D343173	D350348	D359959	D374227	D383759	D388775
D343615	D350349	D360398	D374424	D384080	D388783
D343616	D350350	D360632	D374872	D384662	D388793
D343834	D351375	D361070	D375732	D384951	D389157
D343835	D351840	D361763	D375733	D384952	D389476
D343836	D352497	D362840	D375734	D385271	D389478
D344087	D352503	D362852	D375932	D385283	D389488
D344271	D352946	D365094	D375935	D385555	D389641
D344444	D353131	D365817	D375952	D385873	D390221
D344511	D353361	D366872	D376127	D385874	D390222
D344512	D353587	D367640	D377792	D385875	D390509
D344945	D353588	D368479	D377934	D385877	D391567
D345977	D353591	D368696	D378366	D385888	D391955
D346785	D354055	D369162	D378911	D386175	D391966
D346786	D354062	D369359	D379558	D386494	D393470
D346798	D355181	D369797	D379624	D386757	D394256
D348071	D355895	D370016	D379981	D387054	D394423
D348250	D356084	D370463	D379982	D387055	D394425
D348427	D356309	D370672	D380468	D387199	D394433
D348470	D357224	D372237	D380751	D387346	D394438
D348665	D357249	D372481	D381021	D388078	D394439
D348666	D357457	D372703	D381664	D388079	D395301
D348668	D357680	D372896	D382537	D388080	D395302
D348674	D357681	D372919	D382538	D388081	D395431

D395642	D400496	D406098	D408783	D411535	D416226
D395875	D400526	D406191	D408815	D411843	D417224
D396472	D400527	D406586	D409186	D411844	D417449
D397337	D400874	D406695	D410459	D412000	D419155
D397689	D401554	D406812	D410460	D412487	D419290
D397694	D401929	D407063	D410929	D412709	D419565
D398926	D403265	D407685	D411165	D413893	PAT022500
D400161	D404397	D407708	D411196	D413898	
D400165	D405080	D408401	D411202	D414159	
D400204	D405782	D408402	D411204	D415122	
D400209	D405801	D408418	D411507	D415499	

Other patents pending.

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Index

- A**
 - accessories
 - optional 11, 99, 131, 135
 - standard 21–22
 - accessory connector port 3
 - Add Digits** feature 77
 - alert
 - defined 127
 - indicators 31, 127
 - muting 41
 - reminders 129–130
 - setting 127–128
 - setting in external display 35
 - type, selecting 128–129
 - alert setting indicator
 - defined 31, 127
 - illustration 29
 - animation 66
 - antenna 26
 - appointments. *See* datebook
 - Attach Number** feature
 - 45, 77
 - auto PIN dial 66
 - automatic redial
 - activating 66
 - using 38–39
- B**
 - backlight 66
 - banner text 68
 - battery
 - car kit charger time 134
 - charging 24
 - extending battery life 33, 36–37, 66, 67, 157
 - installing 22–23
 - level indicator 29, 30
 - meter 69
 - block cursor, defined 54
 - browser alerts 64
 - browser. *See* micro-browser 62

C

calendar. *See* datebook

call

adding digits after
 phone number 77

alert type, selecting
 128–129

alert, muting 41

alert, setting 127–128

alert, setting in external
 display 35

answer options 63

answering 27

attaching digits before
 phone number
 45, 77

call waiting 47

calling card 45

data call, setting 63

dialed calls list 46, 71

emergency number 40

ending 27

fax call, setting 63

in-call timer 63–64

incoming call type,
 setting 63

muting 48

call (continued)

 placing 26

 received calls list 46, 71

 receiving 27

 restricting 73

 sending 26

 speakerphone, activating
 49

 terminating 42

 three-way call 48

 timing 79–80

 unanswered call 35–36,
 39–40

 voice dial 46

call timers

 described 79–80

 resetting 80

 viewing 71, 80

call waiting 47

caller ID 39, 40

calling card call 45

calling line identification.
 See caller ID

car kit

 automatic answer 132

 automatic hands-free
 133

- car kit (continued)
 - charger time 134
 - power-off delay 133–134
 - clock
 - defined 30
 - illustration 29
 - codes. *See* passwords
 - computer
 - connecting to phone 135–138
 - synchronizing data 90, 135
 - contrast 67
 - cursor 53–54
 - customer service, calling 70
 - customizing the menu 130
- D**
- data call
 - connecting to external device 62, 135–138
 - incoming call format, setting 63
 - data call (continued)
 - receiving 139–142
 - sending 138–139
 - date, setting 68
 - datebook
 - adding an event 95
 - alarm 95
 - calendar 92
 - changing event information 96
 - copying an event 97
 - day view 93
 - deleting an event 98
 - event view 94
 - reminders 95, 129–130
 - week view 92
 - Datebook Menu** 92, 93, 94
 - default passwords 143
 - dialed calls list 46, 71, 75–77
 - digital/analog signal indicator
 - defined 30
 - illustration 29

- display
 - animation 66
 - backlight 66
 - banner text 68
 - contrast 67
 - described 28–31
 - greeting 68
 - idle display 28
 - illustration 29
 - language 67
 - zoom 31, 68
- drafts folder 64
- DTMF tones 49, 67, 76, 77, 156
- E**
- earpiece
 - illustration 3
 - volume, adjusting 33
- emergency number 40
- end key
 - functions 3, 27
 - menu functions 50
- ending a call 27
- Enter Unlock Code**
 - message 145, 147
- event alert 128–129
- external device
 - connecting to phone 135–138
 - synchronizing data 90, 135
- external display 35–36
- F**
- fax call
 - connecting to external device 62, 135–138
 - incoming call format, setting 63
 - receiving 139–142
 - sending 138–139
- flashing cursor, defined 53
- flip
 - answering call by opening 63
 - external display and 35
 - turning the phone on 25
- FM radio headset 70, 99
- G**
- greeting, display 68

H

- hands-free mode
 - and external display 36
 - automatic answer 132
 - automatic call routing 133
 - charger time 134
 - defined 131
 - power-off delay 133–134
 - speakerphone, activating 49
- headset
 - automatic answer 132
 - FM radio 70, 99
 - use with external display 36
- headset jack 3
- holster 21

I

- idle display, defined 28
- in use indicator
 - defined 29
 - illustration 29
- inbox, text message 104
- in-call timer 63–64

- incoming call
 - terminating 42
 - type, setting 63
- Incoming Call** message 39
- indicators
 - alert setting 29, 31, 127
 - battery level 29, 30
 - digital/analog signal 29, 30
 - in use 29
 - menu 28, 29
 - message waiting 29, 30
 - missed call 39
 - ring alert 31, 127
 - roam 29
 - signal strength 29
 - silent alert 31, 127
 - vibrate alert 31, 127
 - voice message waiting 29, 30
 - voice name 81
- iTAP software predictive text entry 57–61

K

key

- end 3, 27, 50
- left soft key 3, 50, 131
- lock 147
- menu 3, 27, 50
- power 3, 25
- right soft key 3, 50, 131
- scroll 3, 50
- send 3, 26, 27, 75
- smart 3, 34
- voice 3, 86, 117–118
- volume control 3

keypad

- answering calls with 63

keypad volume 128

L

language 67

Last Calls Menu

- opening 76
- options 77

left soft key

- customizing 131
- functions 3, 50

lock

- keypad 147
- phone 145–147
- voice notes 123

lock application feature 72

loud ring alert 31, 127

M

making a call 26

master clear 67

master reset 67

menu

customizing 130

Datebook Menu 92, 93, 94

entering text 54–61

features 62–74

language, setting 67

Last Calls Menu 76–77

locking applications 72

navigating 10, 50–51

Phonebook Menu 81

rearranging features 130

- menu (continued)
 - scroll feature 67
 - Text Msg Menu**
 - 107–108
 - using features 10,
51–54
 - Voice Notes Menu** 119,
121, 122
 - menu indicator
 - defined 28, 30
 - illustration 29
 - menu key 3, 27, 50
 - message
 - deleting 106–107
 - dialing number from 44
 - drafts folder 64
 - inbox setup 104–105
 - locking 106–108
 - outbox 64, 110
 - quick note 64
 - reading 106–107
 - reminders 103, 106,
129–130
 - text 44, 64, 104–110
 - voicemail 65, 102–103
 - message waiting indicator
 - defined 30
 - illustration 29
 - micro-browser
 - browser alerts 64
 - call a number from 126
 - defined 62, 125
 - functions 126
 - go back to previous
page 126
 - starting 125
 - microphone 3
 - missed call indicator 39
 - Missed Calls** message
 - 35, 39
 - muting a call 48
 - my telephone number 49,
69
- ## N
- 'n' character 45
 - network settings 68
 - notepad
 - defined 41, 71
 - entering digits 41
 - retrieving digits 78

O

- one-touch dialing 43–44
- optional accessory, defined 11
- optional feature, defined 11
- outbox 64, 110

P

- passwords
 - changing 73, 143
 - default 143
 - if you forget a password 145
- patents 188–194
- pause character 45
- phone
 - accessories, optional 11
 - accessories, standard 21–22
 - alert, muting 41
 - answer options 63
 - connecting to external device 62, 135–138
 - date, setting 68

- phone (continued)
 - feature specifications 69
 - flip 25
 - keypad, locking and unlocking 147
 - language, setting 67
 - locking 145–147
 - muting a call 48
 - network settings 68
 - one-touch dialing 43–44
 - passwords 73, 143, 145
 - security code 145
 - specifications 69
 - speed dial, using 42–43
 - time, setting 68
 - turning on/off 25
 - unlock code 145
 - unlocking 25, 145–147
 - voice dial 46
- phone number
 - adding digits after 77
 - attaching digits before 45, 77
 - redialing 38

phone number (continued)
 viewing your own 27,
 49
 voice dial 46

phonebook
 capacity, checking 90
 deleting an entry 89
 dialing an entry number
 87
 editing an entry 88
 entry name 81
 fields 81
 number type indicator
 81
 one-touch dialing
 43–44
 phone number 81
 sorting entries 91
 speed dial number 42,
 81, 83–84
 speed dial, using 42–43
 storing an entry 82–84
 synchronizing entries
 90, 135
 voice name entry 85–86
 voice name indicator 81

Phonebook Menu 81

PIN code, dialing
 automatically 66

power key 3, 25

predictive text entry
 57–61

Q

quick dial
 setting number 69
 using 70

quick note 64

R

radio 70, 99–101

received calls list 46, 71,
 75–77

receiving a call 27

recent calls 75–77

redial
 automatic redial 38–39
 busy number 38

reminders
 datebook 95
 setting 129–130
 text message 106
 voicemail message 103

- restricting calls 73, 148–149
- right soft key
 - customizing 131
 - functions 3, 50
- ring alert
 - indicators 31, 127
 - muting 41
 - setting 127–128
 - setting in external display 35
 - type, selecting 128–129
- ring and vibrate alert indicator 31, 127
- muting 41
- ringer
 - setting in external display 35
 - volume, adjusting 33, 128
- roam indicator
 - defined 29
 - illustration 29
- S**
- scroll feature 67
- scroll key 3, 50
- security code 145
- send key 3, 26, 27, 75
- sending a call 26
- short message service. *See* text message
- shortcuts
 - creating 112–115
 - standard 111
 - using 115–116
- signal strength indicator
 - defined 29
 - illustration 29
- silent alert indicator 31, 127
- smart key
 - customizing 131–??, 131, ??–131
 - defined 34
 - functions 34
 - illustration 3
- SMS. *See* text message
- soft keys
 - customizing 69, 131
 - functions 50
 - illustration 3
- soft ring alert 31, 127
- speakerphone 49

- speed dial
 - changing number 83–84
 - number, defined 42
 - sorting phonebook entries by 91
 - using 42–43
- standby time
 - defined 33
 - increasing 37
- status light 3, 32–33, 67
- synchronizing data 90, 135

T

- talk secure feature 73
- text
 - block cursor 54
 - character chart 56
 - entering from keypad 54–61
 - flashing cursor 53
 - iTAP software predictive text entry 57–61
- text message 44, 64, 104–110

Text Msg Menu

- opening 107
- options 108
- three-way call 48
- time, setting 68
- timers
 - described 79–80
 - resetting 80
 - viewing 71, 80
- travel charger
 - charging phone battery 24
 - illustration 22
- TrueSync 90, 135

U

- unlock
 - keypad 147
 - phone 145–147
- unlock code 145

V

- vibrate alert
 - indicator 31, 127
 - muting 41
 - setting 127–128

- vibrate alert (continued)
 - setting in external display 35
 - type, selecting 128–129
 - voice dial
 - dialing a number 46, 88
 - recording voice name 85–86
 - voice key
 - dialing a number 46
 - functions 3
 - recording a voice name 86
 - recording a voice note 117–118
 - voice message waiting
 - indicator 29, 30
 - voice name
 - defined 85
 - phonebook indicator 81
 - recording 85–86
 - voice note
 - defined 117
 - deleting 124
 - locking and unlocking 123
 - playback controls 122
 - voice note (continued)
 - playback screen 121
 - playing 120–122
 - recording 117–118
 - total recording time 117
 - viewing voice notes list 119
 - Voice Notes Menu** 119, 121, 122
 - voice shortcut
 - creating 112–115
 - defined 112
 - using 116
 - voicemail 65, 102–103
 - volume
 - earpiece 33
 - keypad 128
 - ringer 33, 128
 - volume keys 3, 33
- ## W
- wait character 45
 - warranty 178–187
 - Web pages
 - functions 126
 - viewing 125

Z

zoom setting 31, 68



MOTOROLA


Wireless Phone Safety Tips

“Safety is your most important call!”

Your Motorola wireless telephone gives you the powerful ability to communicate by voice—almost anywhere, anytime, wherever wireless phone service is available and safe conditions allow. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When driving a car, driving is your first responsibility. If you find it necessary to use your wireless phone while behind the wheel of a car, practice good common sense and remember the following tips:

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

- 
- 2 **When available, use a hands-free device.** If possible, add an additional layer of convenience to your wireless phone with one of the many Motorola Original™ hands-free accessories available today.
 - 3 **Position your wireless phone within easy reach.** Be able to access your wireless phone without removing your eyes from the road. If you 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 **If you receive an incoming call at an inconvenient time 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 you are not moving or before pulling into traffic.** Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few

numbers, check the road and your mirrors, then continue.

- 7 Do not engage in stressful or emotional conversations that may be distracting.** Make people you are talking with aware you are driving and suspend conversations which have the potential to divert your attention away from the road.
- 8 Use your wireless phone to call for help.** Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies.*
- 9 Use your wireless phone to help others in emergencies.** If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.*
- 10 Call roadside assistance or a special 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.*

* Wherever wireless phone service is available.

Check the laws and regulations on the use of wireless telephones 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.



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