

FX1900xg User's Guide Revision History

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(Back Cover)

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FX1900xg User Guide version 0.[64](#)[09/21/04](#)
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MOTOROLA

FX1900xg

Dual Band GSM Phone

USER'S GUIDE

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Welcome

Congratulations on your purchase of a Motorola product!

Online Product Registration:

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

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

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

Please read **Important safety instructions on page 59** before use.

Read and understand all instructions before use.

Please retain this guide for future reference.

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Features

- Intuitive user interface
 - Four way menu navigation key
 - Three soft menu selection keys
 - Multi-language support
- Easy to read back-lit graphical LCD display with:
 - Easy read clock (analog or digital) and date
 - Voice and text message waiting indicator *
 - Voice message waiting icon *
 - Text message waiting icon *
 - Call forwarding enabled icon *
 - Signal strength indicator
 - No AC power warning
 - Low battery warning
 - Ringer off icon
 - Alarm set indication
 - Network operator
 - Call timer
- Multi-state indicator light
 - Voicemail message waiting *
 - Text message waiting *
 - Phone ringing
 - Alarm
- Dedicated text messaging button
- Dedicated alarm clock button
- Battery backup in case of temporary AC supply failure
- Phone lock to prevent unauthorized use
- Handset and ringer volume control
- Microphone mute
- Hold feature *
- One-touch dialing to voicemail *

- 8 user programmable one-touch dial keys
- Up to 250 numbers stored in phone memory
- Speed dialing from phone memory
- Call log with number, time, date, and duration for:
 - Last 20 dialed calls
 - Last 20 received calls
 - Last 20 missed calls
- Automatic number redial
- [25](#) ring tones
- Ability to assign ring tones to numbers
- Call timer and optional 1 minute warning tone
- Multi-party conference calling, up to 6 parties *
- Voicemail *
- Caller ID *
- Call forwarding *
- Call waiting *
- Call transfer *
- Call barring *

* Wireless carrier dependent

Getting started

The following items are included in the box.

- ☐ Telephone base unit
- ☐ Antenna
- ☐ AC adapter
- ☐ Rechargeable battery pack (optional)
- ☐ Handset
- ☐ Coiled handset cord

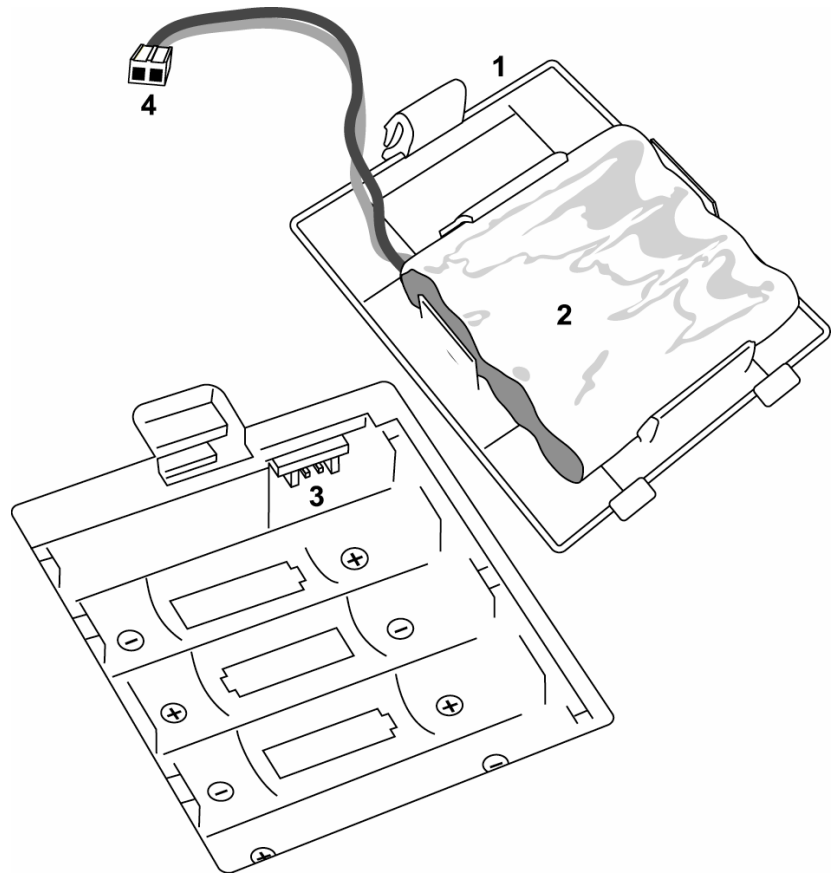
Installation

Before using your new phone, follow these steps:

1. Connect the coiled cord to the handset and to the telephone base unit. Place the handset in the cradle on the base unit.
2. Connect the telephone to the AC adapter and plug the AC adapter into a nearby wall socket.
3. Attach the antenna to the mating connector on the base, if it is not already attached.
4. With the telephone upright, place the antenna in a vertical position. Check that there is power to the telephone, if not check all connections above. If there is power to the telephone continue to the next step.
5. Turn the phone upside down and remove the battery cover. If the phone was supplied with a rechargeable battery pack.
 - a. Insert the battery pack (2) in the cover door (1).
 - b. Connect the battery pack connector (4) to the mating connector (3).
 - c. The battery will need to charge for 15 hours before it will yield full capacity.

If a rechargeable battery pack was not supplied insert four new AA alkaline batteries. Be sure to match the positive and negative terminals.

6. Replace the battery cover, return the unit to an upright position, and place the antenna in a vertical position.
7. The phone is now ready for use.



CAUTION

NEVER attempt to remove the antenna while the phone is in use or switched on. Always disconnect the AC supply and remove the batteries before disconnecting the antenna. Failure to take this precaution may result in damage to the phone and void the warranty.

WARNING

The batteries are for emergency backup only. Connect the AC supply and confirm that the telephone is working normally before installing the batteries. This phone is not intended for use without the AC adapter.

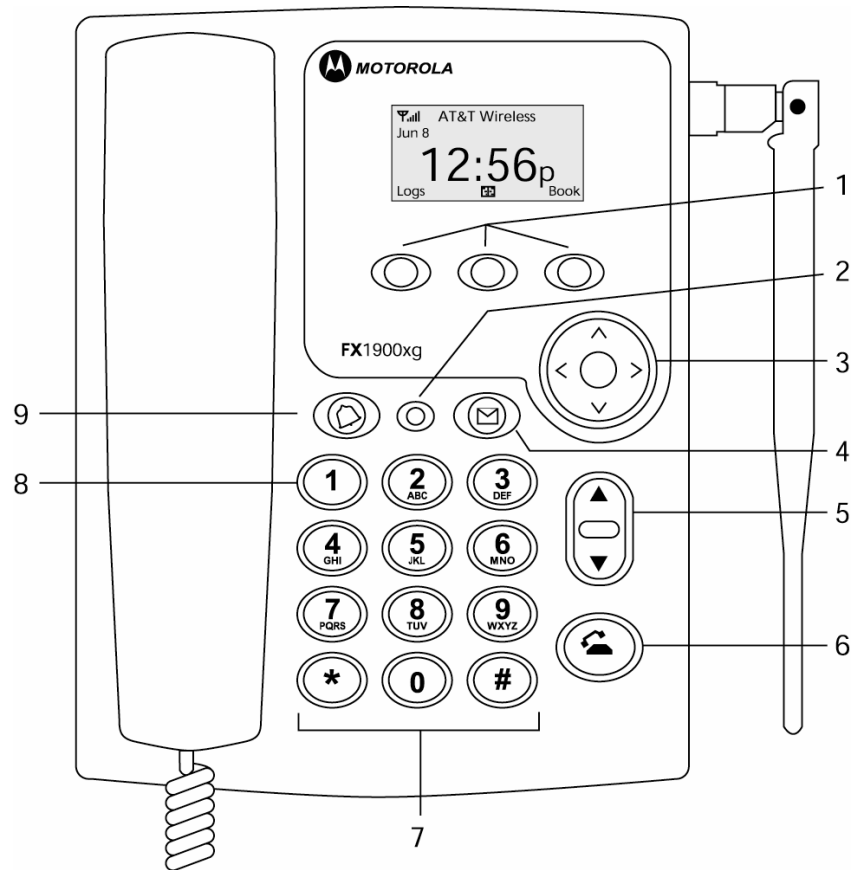
ATTENTION

If the phone is using alkaline batteries, replace the batteries every six months to ensure proper service in the event of power failure.

WARNING

In the event of power failure you may be disconnected from your current call.

Location of controls



1. Soft-keys

Provide access to the menu and sub-menu options. See Navigating the menu system on page 10.

2. Status indicator light

Visual indication of various states of the phone, including: message waiting, ringing, and alarm. See Status indicator light [on page 13](#) for more information.

3. 4 – way navigator key

Allows navigation of the menu and other features. See Navigating the menu system on page 10 for more information.

4. Text messaging button

Allows direct access to the text messaging menu. See Text messaging button [on page 21](#) and Text messaging [on page 34](#) for more information.

5. Volume control

Used to adjust the ring and earpiece volume levels. See Volume control [on page 13](#) for more information.

6. Send key

Used to dial or redial a number previously entered. See Send key [on page 14](#) for more information.

7. Keypad numeric keys

Numeric keys 1 through 0, and # and *. Used to enter telephone numbers, program the phone, etc.

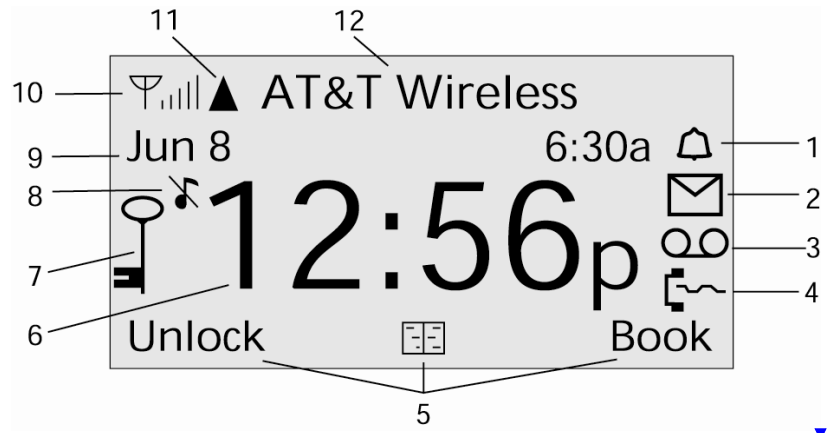
8. One touch voicemail key

Numeric key 1 on the keypad is a one-touch dial to voicemail. See Calling voicemail [on page 14](#) for more information.

9. Alarm clock button

Allows direct access to the alarm clock menu. See Alarm clock button [on page 21](#) and Alarm clock [on page 40](#) for more information.

Display



1. Alarm set time

In standby mode, the display shows that the alarm is set and the time it is set for. If the alarm is not set this area is blank. See Alarm clock on page 40. In all other modes this area is used to display other information.

2. Text message waiting icon

In standby mode, the display shows an icon if there is a new text message(s) waiting. If there is no message(s) waiting the area is blank. See Text messaging on page 34 for more information. In all other modes this area is used to display other information.

3. Voicemail waiting icon

In standby mode, the display shows an icon if there is a new voicemail message(s) waiting. If there is no message(s) waiting the area is blank. See Calling voicemail on page 14 for more information. In all other modes this area is used to display other information.

4. Call forwarding icon

This indicates that call forwarding is enabled. See Setup call forwarding on page 52 for more information. In all other modes this area is used to display other information.

5. Soft-key action indicator

The soft-keys provide access to the menus and sub-menus. The actions of the soft-keys will change and will be shown at the bottom of the display.

6. Time

In standby mode, the display shows the current time, digital or analog. See Setting date and time on page 9. In all other modes this area is used to display other information.

7. Phone locked icon

This indicates that the phone is locked. When the phone is locked no features are allowed except emergency calling. See Security on page 42 for more information.

8. Silent mode icon

This indicates that the ringer is off and the phone will not ring. See Set ring tone on page 50 for more information. In all other modes this area is used to display other information.

9. Date

In standby mode, the display shows the current date. See Setting date and time on page 9. In all other modes this area is used to display other information.

10. Antenna icon / signal strength indicator

The antenna icon represents signal available and the one to five bars indicate signal strength.

11. Roaming icon

The triangle next to the signal strength indicator shows that phone is in roaming mode.

12. Service provider indicator

The service provider indicator displays the current service provider. If there is no signal this will be blank.

CAUTION

Do not operate your telephone when a person is within 8 inches (20 centimeters) of the antenna. A person or object within 8 inches (20 centimeters) of the antenna could impair call quality and may cause the phone to operate at a higher power level than necessary and expose that person to RF energy in excess of that established by the FCC RF Exposure Guidelines.

Initial setup

If the phone requests a PIN code

The PIN code is a four to eight-digit code. See PIN code PIN1 [on page 43](#) for more information.

If the phone requests an unlock code

The lock code is used to prevent unauthorized use of the phone. The lock code is a four-digit code. See Lock code [on page 42](#) for more information.

Set display language

1. Press the middle soft-key to enter the menu screen.
2. Using the 4-way navigation key highlight the **Menu: Settings** icon and press **OK**.
3. Using the 4-way navigation key highlight **Display** and press **OK**.
4. Using the 4-way navigation key highlight **Language** and press **OK**.
5. Using the 4-way navigation key highlight the language of choice from the list and press **OK**.

Setting date and time

The date and time will normally be updated automatically*. In the event that this does not happen the date and time will need to be set manually.

1. Press the middle soft-key to enter the menu screen.

2. Using the 4-way navigation keys highlight the **Menu: Settings** icon and press **OK**.
3. Using the 4-way navigation key highlight **Time and Date** and press **OK**
4. Using the 4-way navigation key highlight **Set Time** and press **OK**
5. Using the 4-way navigation keys set the current time: hour, minute, and am or pm. Press **OK**.
6. Using the 4-way navigation key highlight **Set Date** and press **OK**
7. Using the 4-way navigation keys set the current date: month, day, and year. Press **OK**.

* See System dependant features [on page 23](#), See Set auto clock update [on page 49](#), and Date and time settings on page [48](#).

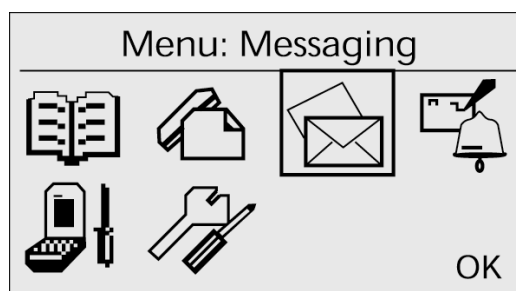
Navigating the menu system

To enter the menu system

From the idle screen (display shows an analog or digital clock), either press the middle soft-key or any of the four navigation keys.

To exit the menu system

From the menu screen (display shows the six sub-menu icons: Phone Book, Call Logs, Messaging, Alarm Clock, Security, and Settings), press the left soft-key **Back** (unlabeled).



Menu system conventions

While navigating the phone menus, unless otherwise indicated, the left soft-key is **Back** and the right soft-key is **OK**.

Using the 4-way navigation key

Use the 4-way navigation key to scroll up, scroll down, scroll left, or scroll right through the menu system, and to highlight menu items.

Basic operations

Placing a call

1. To place a call lift the handset, key in the number and press the green **send key**, or wait 5 seconds for the number to be automatically dialed.
2. The phone will display the message **Connecting** and the dialed number.
3. When the call is answered the phone will display the number and a call timer.

See International dialing [on page 20](#), Phone book [on page 25](#) and Call logs on page [31](#) for more dialing options.

When the phone rings

When the phone rings (unless the phone is set to silent mode, see Set ring tone [on page 50](#)) the display will show the number or name (if entered in the phone book) of the person calling and the indicator light will flash red. Here are the options:

1. Answer the call by raising the handset.
2. If the handset is already of the base, it is possible to answer the call by pressing **Answer** or the **send key**.
3. Silence the ringer by pressing **Silence**.
4. Divert caller to voicemail * by pressing **Reject**. See Calling voicemail [on page 14](#) for more information.
5. Do not answer. The phone will either go to voicemail * or to a preprogrammed forward number if call forwarding * is enabled. See Setup call forwarding on page [52](#) for more information.

* See System dependant features [on page 23](#)

In-call display

When on a call the display will show the number* or name of the person (if entered in the phone book) and a call timer.

When the phone is ringing the display will show the number* or name of the person (if entered in the phone book) and a call timer. See Phone book [on page 25](#) for more information.

If an additional call* is received the display will show the number or name (if entered in the phone book) of the person calling. See In-call features on page [16](#) for more information.

* See System dependant features [on page 23](#).

Status indicator light

The visual status indicator light provides additional emphasis to the existing audible (ringer) and visual indicators (display).

Here is a list of the states and their meaning:

Status indicator light	Phone state
Off	Normal (power on)
Flashing green	New unread message waiting (voice or text) *
Flashing red	Alarm clock
Fast flashing red	Ringing

* See System dependant features [on page 23](#).

Volume control

The volume adjustment keys will change the volume level of the phone ringer or handset speaker depending upon the current state.

1. When the phone is in standby mode or ringing, the volume controls will increase or decrease the ringing volume.
2. When the handset is off-hook (not in the cradle) the volume controls will change the handset speaker volume.

Send key

The send key will dial the number currently displayed on the screen, whether from the phone book or just keyed in.

Setting ringer tone

1. Press the middle soft-key to enter the menu screen.
2. Using the 4-way navigation key, select the **Menu: Settings** icon and press **OK**.
3. Using the 4-way navigation key highlight **Ring and Alarm** and press **OK**.
4. Using the 4-way navigation key highlight **Ring Tone** and press **OK**.
5. Using the 4-way navigation key select the desired ring tone and press **OK**.

See Tones on page [50](#) for more information.

Calling voicemail

Voicemail * is an answering machine where messages can be left if the phone is in use or there is no answer.

1. To access voicemail press and hold the numeric key number 1 for 1.5 seconds or more.
2. The phone will dial the voicemail number.

* See System dependant features [on page 23](#). See Setup call forwarding on page [52](#).

Redialing the last dialed number(s)

1. Press the green **send key** to view the last 20 numbers dialed.

Basic operations

2. Using the 4-way navigation key highlight the number to dialed, select **Dial**, and lift the handset.
3. The phone will display a message **Connecting** and the number.

See Call logs on page [31](#) for more information.

In-call features

The following options are only available once in a call and some only become available in specific circumstances, for example: the conferencing option does not exist until there are two or more calls.

Call hold

While on a call it is possible to place a call on hold*.

1. To place a call on hold press **Hold**.
2. The phone will momentarily display **Call Held**.
3. The display will then display the number of the caller and **On Hold**.
4. To revert to normal operation press **Unhold**.
5. The phone will momentarily display **Call Retrieved**.

* See System dependant features [on page 23](#)

Mute

1. To mute the microphone press **Mute**.
2. The phone will display a circle with a line through it in the lower right corner to indicate that the phone microphone is muted.
3. To revert to normal operation press **Unmute**.

Place an additional call

While on a call it is possible to place an additional call*.

1. While on a call press **Opt**.
2. Using the 4-way navigation key highlight **New Call** and press **OK**.

In-call features

3. The phone will place the existing call on hold and display a popup window in which to dial a new number.
4. Key in the number and press **Dial / send key** or:
 - a. Press **Opt** to enter the phone book search menu.
 - b. Using the 4-way navigation key highlight the number to be dialed and press **Select**.
 - c. Press Dial / send key.
5. The phone will display the message **Connecting** and the number dialed.
6. When the call is answered the display will show both calls. The initial call will display the message **on hold**, while the new call will show the number or name (if entered in the phone book) and a call timer. See Call swap [on page 18](#) for more information.

* See System dependant features [on page 23](#).

Answer an additional call

If Call Waiting* is enabled it is possible to answer an additional call. See Setup call waiting on page [52](#) for more information.

1. When on a call the phone will sound an alert, the status indicator light will flash red, and the display will show the number or name (if entered in the phone book) of the person calling.
2. To answer the call and place the existing call on hold, press **Answer**.
3. To divert the call to voicemail press **Reject**.
4. Once there are two callers it is possible to swap calls by pressing **Swap**.

See Call swap [on page 18](#), Conference calling [on page 18](#), End active call, [on page 18](#), and End all calls [on page 19](#) for more information.

* See System dependant features [on page 23](#).

Call swap

When there are two calls or there is a conference and a call (one active and one on hold), it is possible to swap calls*.

1. To swap calls press **Swap**.
2. The caller on hold will become active and the active caller will be put on hold.

* See System dependant features [on page 23](#)

Conference calling

When there are more than two parties it is possible to conference* the calls.

1. To Conference the calls press **Opt**.
2. Using the 4-way navigation key, highlight **Conference** and press **OK**.

It is possible to have up to 6 parties* in a conference. See Place an additional call [on page 16](#) and Answer an additional call [on page 17](#) for more information.

* See System dependant features [on page 23](#)

End call(s)

To end a single call, replace the handset in the base.

If there is more than one call then there is the option to either end the active call or end all calls.

End active call

1. To end the active call press **Opt**.
2. Using the 4-way navigation key highlight **End Active Call** and press **OK**.

End all calls

1. To end all calls press **Opt.**
2. Using the 4-way navigation key highlight **End All Calls** and press **OK**.

Advanced features

One-touch dialing

There are 8 One Touch Dialing locations. Using One-Touch Dialing it is possible to dial a number just by pressing and holding a single numeric key.

1. Press and hold one numeric key (2 through 9) for 1.5 seconds.
2. The display will confirm that the number is being dialed.

See Assign one-touch dialing keys [on page 28](#) for more information.

Dialing from the phone book

Up to 250 numbers may be stored in the phone memory (phone book). It is possible to dial these numbers directly from the phone book. See Dial a number from the phone book [on page 26](#) for more information.

Phone book search

The list of phone book entries will be displayed in alphabetical order. To narrow the search, enter the first letter of the name using the number keys. See Dial a number from the phone book [on page 26](#) for more information. For more information on text entry see Text entry [on page 21](#).

International dialing

1. To place a call, lift the handset.
2. Enter the + character by pressing and holding the 0 key for more than 1.5 seconds.

3. Enter the country code followed by phone number and press send, or wait 5 seconds for the number to be automatically dialed.
4. The phone will display the message **Connecting** and the dialed number.
5. When the call is answered the phone will display the number of the person dialed and a call timer.

See Create international phone book entry [on page 26](#)

Alarm clock button

Select this button to set the alarm time or turn the alarm on or off. See Location of controls on page 5 and Alarm clock [on page 40](#) for more information.

Text messaging button

When there are unread text message(s)* in the inbox, the text message button will go directly to the inbox.

When there are no new text message(s), the text message button will go directly to the messaging menu. From here it is possible to send a message, reply to a message, etc.

When there is a number displayed (either from the phone book or a call log) pressing the text messaging button will initiate a text message to that number.

* See System dependant features [on page 23](#). See Location of controls on page 5 and Text messaging [on page 34](#) for more information.

Text entry

Either to send a message or simply enter a name in the phone book, the method to enter text will be the same.

Alphanumeric text entry is accomplished using the “multi-tap” method.

1. Using the [*] key, select the entry mode, either: Abc, abc, ABC, or 123. At the start of a new entry Abc is the default, as soon as one character has been entered it changes to abc. Thereafter the first character following either a '.', '!' or a '?' is capitalized.
2. The cursor will blink on the screen at the point of text entry. Using the 4-way navigation key move the cursor to the desired location. Pressing > on the 4-way navigation key at the end of the line will insert a space.
3. Press a keypad key repeatedly to cycle through its characters. When the key is not pressed for more than 1.5 seconds that character will hold. Pressing and holding a numeric key for more than two seconds will insert the number associated with that key.

Refer to the table below specific to the language in use on the phone for details of the characters associated with each key.

When the language is set to English the phone supports these characters:

Numeric Key	Upper Case	Lower Case
[1]	<space> <CRLF>	1 * # \$ @
[2]	A B C 2	a b c 2
[3]	D E F 3	d e f 3
[4]	G H I 4	g h i 4
[5]	J K L 5	j k l 5
[6]	M N O 6	m n o 6
[7]	P Q R S 7	p q r s 7
[8]	T U V 8	t u v 8
[9]	W X Y Z 9	w x y z 9
[0]	.,?!-:;<sgl-quote>	<dbl-quote> 0
[*]	<case switch: 'abc', 'Abc', 'ABC', '123'>	
[#]	symbol menu	

When the language is set to Spanish the phone supports these characters:

Numeric Key	Upper Case	Lower Case
[1]	<space> <CRLF>	1 * # \$ @
[2]	A B C Á 2	a b c á 2
[3]	D E F É 3	d e f é 3

Advanced features

[4]	G H I Í 4	g h i í 4
[5]	J K L 5	j k l 5
[6]	M N O Ñ Ó 6	m n o ñ ó 6
[7]	P Q R S 7	p q r s 7
[8]	T U V Ú Ü 8	t u v ú ü 8
[9]	W X Y Z 9	w x y z 9
[0]	. , ? ¿ ! ¡ - : ; <sgl-quote> <dbl-quote> 0	
[*]	<case switch: 'abc', 'Abc', 'ABC', '123'>	
[#]	symbol menu	

The symbol menu offers the following additional characters:

*	#	\$	@	%	&	(	)
+	-	/	\	<	>	=	^
{	}	[	]	~		_	!
£	¥	β	α	§	©	®	¶

Display the phone's number

This option will display the telephone number or numbers. See Display the phone's number [on page 29](#).

System dependant features

The following features are system dependant, this means their functionality is controlled by your wireless carrier or network service provider.

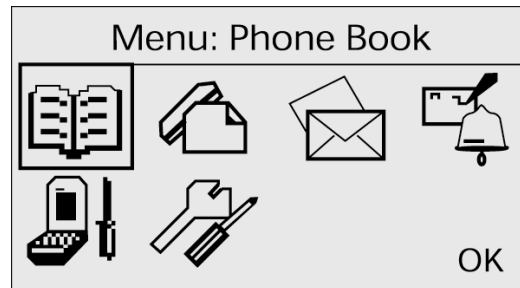
- Text messaging
- Voicemail
- Call waiting
- Caller Id
- Conferencing
- Call forwarding
- Call barring
- Call transfer
- Call hold
- Call swap
- Place an additional call

- Automatic clock update

If these features do not appear to be working, they may not be enabled, see System dependant services [on page 51](#) or contact your wireless carrier / network service provider.

Phone book

Press the middle soft-key to enter the menu. Select the **Phone Book** icon and press **OK**.



In phone book you can store and manage contact information, such as name, number, and one-touch dialing. **For information on text entry see [Text entry on page 21](#)**

or

If either the right or left soft-keys have been programmed for the phone book (soft-key action indicator display's **Book**), it is possible to enter the search sub-menu of phone book by pressing this soft-key. For information on programming the soft-keys see Program left and right soft-keys on page [48](#)

Create a new phone book entry

1. Press the middle soft-key to enter the menu.
2. Using the 4-way navigation key select the **Phone Book** icon and press **OK**.
3. Using the 4-way navigation key highlight **New Entry** and press **OK**.
4. Using the 4-way navigation key highlight **Phone Number** and press **OK**. An empty record appears.
5. Using the 4-way navigation key select **Name**, **Number** or **Location**, then select **Change**.

6. Fill in the required information and press **OK**.
7. Then press **Done** and the phone will confirm that the entry has been saved.

Create international phone book entry

Follow the instructions [on page 25](#) to Create a new phone book entry except at the beginning of the number press and hold the 0 key for more than 1.5 seconds to enter the international access code. This will be displayed at a + sign. Enter the country code and local telephone number.

Pause symbol

This allows programming of automatic number sequences. For example: to enter a password for third party voicemail, inserting the pause symbol once will tell the system to wait 2 seconds. A phone book entry could be programmed to dial 408-555-1234 ppp 1234#, the system would wait 6 seconds before entering the password.

To enter the pause press and hold the [*] key for 1.5 seconds.

Dial a number from the phone book

1. Select soft-key **Book** or
 - a. Press the middle soft-key to enter the menu.
 - b. Using the 4-way navigation key select the **Phone Book** icon and press **OK**.
 - c. Using the 4-way navigation key highlight **Search** and press **OK**.
2. The list of phone book entries will be displayed in alphabetical order. To narrow the search, enter the first letter of the name using the number keys. For more information on text entry see Text entry [on page 21](#).

3. Using the 4-way navigation key highlight the number to be dialed and press **Select**.
4. Press **Dial** or **send key**, and the phone will dial the number.

Delete phone book entries

1. Select soft-key **Book** or
 - a. Press the middle soft-key to enter the menu.
 - b. Using the 4-way navigation key select the **Phone Book** icon and press **OK**.
 - c. Using the 4-way navigation key highlight **Search** and press **OK**.
2. Using the 4-way navigation key highlight the number to be deleted and select **Opt**.
3. Using the 4-way navigation key highlight **Delete Entry** and select **OK**.

Edit phone book entries

1. Select soft-key **Book** or
 - a. Press the middle soft-key to enter the menu.
 - b. Using the 4-way navigation key select the **Phone Book** icon and press **OK**.
 - c. Using the 4-way navigation key highlight **Search** and press **OK**.
2. Using the 4-way navigation key highlight the number to be edited and select **Opt**.
3. Using the 4-way navigation key highlight **Edit Entry** and press **OK**.
4. Using the 4-way navigation key select **Name, Number** or **Location**, then select **Change** and **OK** for each one.

5. Then press **Done** and the phone will display **Record Saved** to confirm that the changes have been saved.
6. The entry is now displayed in **Detail View**. Using the < > keys on 4-way navigation key it is possible to select other entries.

Assign ring tone to a number

1. Select soft-key **Book** or
 - a. Press the middle soft-key to enter the menu.
 - b. Using the 4-way navigation key select the **Phone Book** icon and press **OK**.
 - c. Using the 4-way navigation key highlight **Search** and press **OK**.
2. Using the 4-way navigation key select the entry to assign a ring tone to. Press **Select**.
3. Confirm that the correct record has been selected and press **Opt**. Using the 4-way navigation key it is possible to scroll through the records from this screen.
4. Using the 4-way navigation key select **Set Ring Tone** and press **OK**.
5. Using the 4-way navigation key highlight the preferred tone and press **OK**.

Remove ring tone from a number

To remove a previously assigned ring tone, follow the instructions above to assign a ring tone, except at number 5 select **Clear** instead of **OK**.

Assign one-touch dialing keys

1. Select soft-key **Book** or
 - a. Press the middle soft-key to enter the menu.

- b. Using the 4-way navigation key select the **Phone Book** icon and press **OK**.
 - c. Using the 4-way navigation key highlight **Search** and press **OK**.
2. Using the 4-way navigation key select the entry to assign a one-touch dial key to. Press **Select**.
3. Confirm that the correct record has been selected and press **Opt**. Using the 4-way navigation key it is possible to scroll through the records from this screen.
4. Using the 4-way navigation key highlight **Edit Entry** and press **OK**.
5. Using the 4-way navigation key select **Location** and press **Change**.
6. Enter a number (2 through 9) at the prompt and press **OK**.
7. If the number is already in use the phone will ask for confirmation to overwrite that entry.

Check phone memory capacity

1. Press the middle soft-key to enter the menu.
2. Using the 4-way navigation key select the **Phone Book** icon and press **OK**.
3. Using the 4-way navigation key highlight **Check Memory** and press **OK**.
4. Using the 4-way navigation key highlight **Phone Capacity** and press **OK**.
5. The phone will momentarily display the total records **In Use** and the total records **Free**.

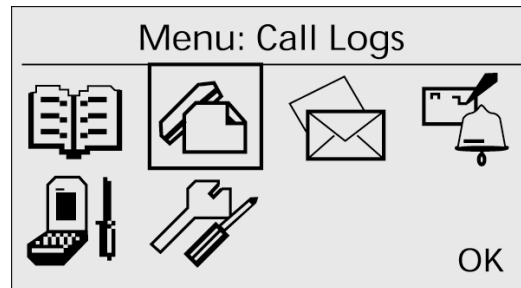
Display the phone's number

1. Press the middle soft-key to enter the menu.

2. Using the 4-way navigation key select the **Phone Book** icon and press **OK**.
3. Using the 4-way navigation key highlight **My Numbers** and press **OK**.
4. Using the 4-way navigation key highlight **My Phone #** and press **View**.
5. The phone will display the telephone number(s) of the phone.

Call logs

Press the middle soft-key to enter the menu. Select the **Call Logs** icon and press **OK**.



The call logs menu option lists the last 20 numbers dialed, missed, and received by this phone.

or

If either the right or left soft-keys have been programmed for the call logs (soft-key action indicator displays **Logs**), press this key to enter call logs. For information on programming the soft-keys see Program left and right soft-keys on page [48](#).

View or dial a number from a call log

1. Enter the call log menu; using the 4-way navigation key select the desired call log and press **OK**.
 - a. To view a number press **View**.
 - b. To dial a number press **Dial**, lift the handset and the phone will dial the number.

Delete an individual entry

1. Enter the call log menu; using the 4-way navigation key select the desired call log and press **OK**.
2. Select the number to delete and press **View**.

3. Confirm this is the number and press **Opt**.
4. Using the 4-way navigation key highlight **Delete Entry** and press **OK**.

Copy to phone book

This feature allows the transfer of entries from one of the call logs to the phone book.

1. Enter the call log menu; using the 4-way navigation key select desired call log and press **OK**.
2. Select the number to copy and press **View**.
3. Confirm this is the number and press **Opt**.
4. Using the 4-way navigation key highlight **Copy to Phone Book** and press **OK**.
5. Using the 4-way navigation key select **Name, Number or Location**, then select **Change**.
6. Make the changes and press **OK**.
7. Then press **Done** and the phone will confirm that the changes have been saved.

View or reset totals

View or reset call timer totals

1. Enter the call log menu; using the 4-way navigation key select **Call Totals** and press **OK**.
2. Select **Call Timer Totals** and press **OK**.
3. The phone will display totals for: last call, last call dialed, and last call received.
4. To reset the timers, press **Reset**.

View or reset total text messages sent

1. Enter the call log menu; using the 4-way navigation key select **Call Totals** and press **OK**.

Call logs

2. Select **SMS Counter** and press **OK**.
3. The phone will display total for: SMS messages sent.
4. To reset the total, press **Reset**.

Delete call logs

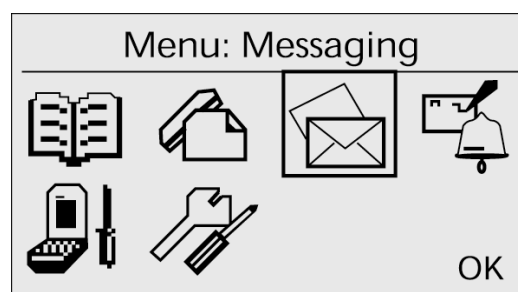
1. Enter the call log menu; using the 4-way navigation key select **Delete All Calls** and press **OK**.
2. Using the 4-way navigation key highlight a call log and press **OK**.
3. The phone will request confirmation.

Text messaging

If there are one or more unread (new) text message(s) in inbox pressing the text messaging button will go directly to inbox. If there are no unread (new) messages in inbox the text message button will go to the text messaging menu. If there is a number displayed (either from the phone book or a call log) pressing the text messaging button will initiate a text message to that number.

See Location of controls on page 5 and Text messaging button [on page 21](#) for more information.

Press the middle soft-key to enter the menu. Select the **Messaging** icon and press **OK**.



In text messaging it is possible to create, edit, and reply to text messages sent to the phone. Messages can be up to 160 characters in length. For information on text entry see [Text entry on page 21](#).

Create and send new messages

1. Enter the text messaging menu; using the 4-way navigation key highlight **Create New Message** and Press **OK**.
5. Using the 4-way navigation key highlight **New Text Message** and press **OK**.

2. Enter text using the numeric keys or select **Opt** to enter predefined messages or symbols. See Text entry [on page 21](#) for more information.
3. When the message is complete, press **OK**.
4. Either enter a telephone number and press **Send** or press **Opt** to select a number from the phone book.
5. Using the 4-way navigation key highlight **Get From Phone Book** and press **OK**.
6. Using the 4-way navigation key highlight the name or number of the person and press **Select**.
7. If the number is correct press **Send**, if not select **Opt** to re-enter the number.

Inbox

Read a new message in inbox

Press the text messaging button.

Read a message in inbox

1. Enter the text messaging menu; using the 4-way navigation key highlight **Inbox** and press **OK**.
2. Using the 4-way navigation key highlight the message to be read and press **Read**.

Reply to a message in inbox

1. Enter the text messaging menu; using the 4-way navigation key highlight **Inbox** and Press **OK**.
2. Using the 4-way navigation key highlight the message to send a reply to and press **Opt**.
3. Using the 4-way navigation key highlight **Reply** and press **OK**.
4. Enter text using the numeric keys or select **Opt** to enter predefined messages or symbols.
5. When the message is complete, press **OK**.

Delete a message

1. Enter the text messaging menu; using the 4-way navigation key highlight **Inbox** and press **OK**.
2. Using the 4-way navigation key highlight the message to be deleted and press **Opt**.
3. Using the 4-way navigation key highlight **Delete** and press **OK**.

Call back

1. Enter the text messaging menu; using the 4-way navigation key highlight **Inbox** and press **OK**.
2. Using the 4-way navigation key highlight the message to call back and press **Opt**.
3. Using the 4-way navigation key highlight **Call Back** and press **OK**.
4. Confirm the number is correct and press **OK**.

Details of message received

1. Enter the text messaging menu; using the 4-way navigation key highlight **Inbox** and press **OK**.
2. Using the 4-way navigation key highlight the message and press **Opt**.
3. Using the 4-way navigation key highlight **Details** and press **OK**.

Draft messages

Edit and save draft message

1. Enter the text messaging menu; using the 4-way navigation key highlight **Drafts** and press **OK**.
2. Using the 4-way navigation key highlight the draft message to be edited and press **Opt**.

3. Using the 4-way navigation key highlight **Edit** and press **OK**.
4. Enter text using the numeric keys or select **Opt** to enter predefined messages or symbols.
5. When the message is complete, press **OK**.
6. Press **Opt**.
7. Using the 4-way navigation key highlight **Exit** and press **OK**.
8. Using the 4-way navigation key highlight **Save in Drafts**.

Edit and send draft message

1. Enter the text messaging menu; using the 4-way navigation key highlight **Drafts** and Press **OK**.
2. Using the 4-way navigation key highlight the draft message to be edited and press **Opt**.
3. Using the 4-way navigation key highlight **Edit** and press **OK**.
4. Enter text using the numeric keys or select **Opt** to enter predefined messages or symbols.
5. When the message is complete, press **OK**.
6. Either enter a telephone number and press **Send** or press **Opt** to select a number from the phone book.
7. Using the 4-way navigation key highlight **Get From Phone Book** and press **OK**.
8. Using the 4-way navigation key highlight the name or number of the person and press **Select**.
9. If the number is correct, press **Send**. If not select **Opt** to re-enter the number.

Delete draft message

1. Enter the text messaging menu; using the 4-way navigation key highlight **Drafts** and press **OK**.

2. Using the 4-way navigation key highlight the draft message to be deleted and press **Opt**.
3. Using the 4-way navigation key highlight **Delete** and press **OK**.

Sent messages

Read sent message

1. Enter the Text messaging menu, using the 4-way navigation key highlight **Sent** and press **OK**.
2. Using the 4-way navigation key highlight the message to be read and press **Read**.

Forward sent message

1. Enter the text messaging menu; using the 4-way navigation key highlight **Sent** and press **OK**.
2. Using the 4-way navigation key highlight the message to be forwarded and press **Read**.
3. Press **Opt**.
4. Using the 4-way navigation key highlight **Forward** and press **OK**.
5. Enter text using the numeric keys or select **Opt** to enter predefined messages or symbols.
6. When the message is complete, press **OK**.
7. Either enter a telephone number and press **Send** or press **Opt** to select a number from the phone book.
8. Using the 4-way navigation key highlight **Get From Phone Book** and press **OK**.
9. Using the 4-way navigation key highlight the name or number of the person and press **Select**.
10. If the number is correct, press **Send**. If not select **Opt** to re-enter the number.

Delete sent message

1. Enter the text messaging menu; using the 4-way navigation key highlight **Sent** and press **OK**.
2. Using the 4-way navigation key highlight the message to be deleted and press **Read**.
3. Press **Opt**.
4. Using the 4-way navigation key highlight **Delete** and press **OK**.

Details of sent message

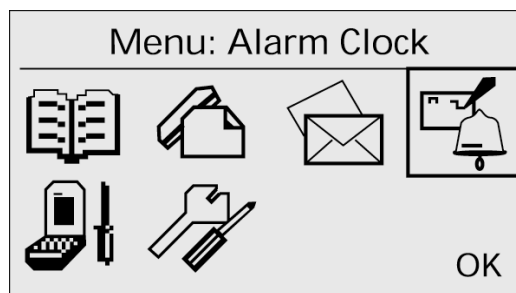
1. Enter the text messaging menu; using the 4-way navigation key highlight **Sent** and press **OK**.
2. Using the 4-way navigation key highlight the message to be viewed and press **Read**.
3. Press **Opt**.
4. Using the 4-way navigation key highlight **Details** and press **OK**.
5. The phone will display the time, date and number the message was sent to.

Alarm clock

Press the alarm clock button. See Location of controls on page 5 for more information.

or

Press the middle soft-key to enter the menu. Highlight the **Alarm Clock** icon and press **OK**.



In the alarm clock menu you can set the time and tone of the alarm built into your phone.

Set alarm time

This feature allows the alarm time to be set, and for the alarm to be switched on or off. When the alarm is on it will repeat daily.

1. Enter the alarm clock menu; using the 4-way navigation keys set the alarm time: hour, minute, and am or pm.
 - a. Press **Set On** to turn the alarm on.
 - b. Press **Set Off** to turn the alarm off.
2. The phone will confirm the status of the alarm.

Set alarm tone

1. Enter the alarm clock menu, press **Opt**.

Alarm clock

2. Using the 4-way navigation key highlight **Alarm Tone** and press **OK**.
3. Using the 4-way navigation key highlight the preferred tone and press **OK**.

When alarm rings

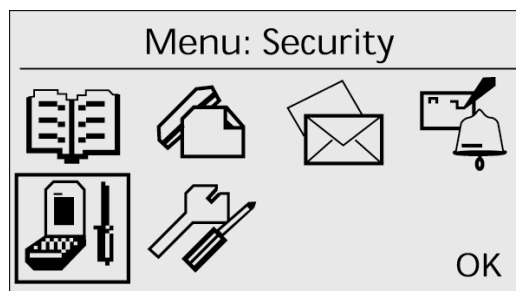
When the alarm rings there are two options, **Off** and **Snooze**.

Select **Off** to turn off the alarm.

Select **Snooze** and the alarm will ring again in 5 minutes.

Security

Press the middle soft-key to enter the menu. Select the **Security** icon and press OK.



In Security it is possible to lock the phone, change the lock code, and change the PIN numbers.

Security codes

The phone supports various security codes, some are user changeable and some are not. See summary below with details following:

Code	Details
Lock Code	4 numeric digits, user changeable, factory default 1234
Security Code	6 numeric digits, fixed, used to unlock the lock code
PIN (PIN1)	4-8 numeric digits, user changeable
PIN2	4-8 numeric digits, user changeable
PUK (PUK1)	8 numeric digits, fixed, used to unlock PIN1
PUK2	8 numeric digits, fixed, used to unlock PIN2

Lock code

When the phone is locked it is not possible to receive calls or to dial numbers except emergency numbers, for example: 911, 066, 112, 999, 08, etc.

- This code is user changeable provided the existing code is known.

- If this code is entered incorrectly 5 times consecutively the phone will lock for 5 minutes.
- The security code is required to unlock the phone. Contact your dealer or network service provider.

Security code

The security code is required to unlock the lock code in case this code is lost. Contact your dealer or network service provider.

PIN code PIN1

With PIN lock enabled the phone will request this PIN code each time the phone is powered up. This code is set by the network service provider and may or may not be supplied.

- This code is user changeable provided the existing code is known.
- If this code is entered incorrectly 3 times consecutively the phone will lock. When the phone is locked only emergency calls may be placed.
- The PIN Unblocking Key (PUK1) is required to unlock the phone. Contact your network service provider.

PIN code PIN2

The PIN code PIN2 is required to access some advanced features. This code is set by the network service provider and may or may not be supplied.

- This code is user changeable provided the existing code is known.
- If this code is entered incorrectly 3 times consecutively the phone will lock. When the phone is locked only emergency calls may be placed.
- The PIN Unblocking Key (PUK2) is required to unlock the phone. Contact your network service provider.

Code PUK1

The code PIN Unblocking Key 1 (PUK1) is required to unlock code PIN1. Contact your network service provider.

Code PUK2

The code PIN Unblocking Key 2 (PUK2) is required to unlock code PIN2. Contact your network service provider.

Lock the phone

When the phone is locked it is not possible to dial numbers except emergency numbers, for example: 911, 066, 112, 999, 08, etc. It is, however possible to receive calls, as the phone will still ring but it is necessary to enter the lock code first.

1. Enter the Security menu, using the 4-way navigation key highlight **Lock Phone** and press **OK**.
2. Enter the unlock code at the prompt and press **OK**.
3. The phone will display a message that the phone is locked and then return to the standby screen. A key icon will be displayed above the left soft-key where it will say **Unlock**.

| See Lock code [on page 42](#) for more information.

Unlock the phone

1. Select the left soft-key, **Unlock**.
2. Enter the 4 digit unlock code at the prompt and press **OK**. The factory default is 1234.
3. The phone will return to the standby screen.

| See Lock code [on page 42](#) for more information.

Change the lock code

1. Enter the security menu; using the 4-way navigation key highlight **Change Codes** and press **OK**.
2. Using the 4-way navigation key highlight **Change Unlock Code** and press **OK**.
3. Enter the four-digit unlock code and press **OK**.

4. If the code is correct the phone will display the existing code with the soft-keys **Delete** and **OK**. Make the necessary changes and press **OK**.
5. The phone will momentarily display a message showing the new code and then return to the menu.

See Lock code [on page 42](#) for more information.

Change the PIN code

Note: The PIN lock must be set to on in order to change the PIN code. See Set PIN lock on or off [on page 46](#) for more information.

1. Enter the security menu; using the 4-way navigation key highlight **Change Codes** and press **OK**.
2. Using the 4-way navigation key highlight **Change PIN** and press **OK**.
3. Enter the four to eight-digit code and press **OK**.
4. If the code is correct the phone will request a new code, press **OK**, and again for confirmation, press **OK**.

See PIN code PIN1 [on page 43](#) for more information.

Change the PIN2 code

1. Enter the security menu; using the 4-way navigation key highlight **Change Codes** and press **OK**.
2. Using the 4-way navigation key highlight **Change PIN2** and press **OK**.
3. Enter the four to eight-digit code and press **OK**.
4. If the code is correct the phone will request a new code, press **OK**, and again for confirmation, press **OK**.

See PIN code PIN2 [on page 43](#) for more information.

Set PIN lock on or off

With PIN lock enabled the phone will request the PIN code PIN1 each time the phone is powered up.

1. Enter the security menu; using the 4-way navigation key highlight **Set PIN Lock** and press **OK**.
2. Using the 4-way navigation key highlight **On or Off** and press **OK**.
3. The phone will request the PIN code PIN1.
4. Enter the four to eight-digit code and press **OK**.

| See PIN code PIN1 [on page 43](#) for more information.

Set automatic lock

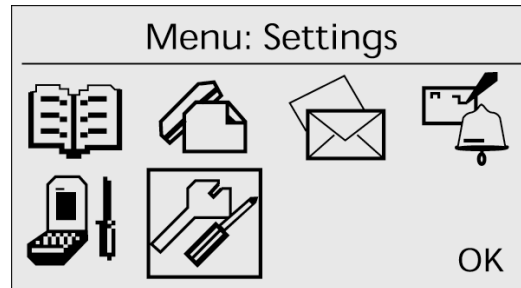
With automatic lock enabled the phone will automatically lock after the phone has been idle for a predetermined number of minutes. The number of minutes is user selectable.

1. Enter the security menu; using the 4-way navigation key highlight **Auto Lock** and press **OK**.
2. Using the 4-way navigation key highlight **On or Off** and press **OK**.
3. The phone will request the lock code.
4. Enter the four-digit code and press **OK**.
5. Enter the auto lock time in minutes from 1 – 999, and press **OK**.

| See Lock code [on page 42](#) for more information.

Settings

Press the middle soft-key to enter the menu. Select the **Settings** icon and press **OK**.



In settings you can set the display language, clock, ring tone, and more.

Display settings

Set display language

1. Enter the settings menu; using the 4-way navigation key highlight **Display** and press **OK**.
2. Using the 4-way navigation key highlight **Language** and press **OK**.
3. Using the 4-way navigation key select the language of choice from the list and press **OK**.

Set display contrast

1. Enter the settings menu; using the 4-way navigation key highlight **Display** and press **OK**.
2. Using the 4-way navigation key highlight **Contrast** and press **OK**.
3. Use the 4-way navigation key to move the bars on the bar graph and press **Done**.

Display backlight

1. Enter the settings menu; using the 4-way navigation key highlight **Display** and press **OK**.
2. Using the 4-way navigation key highlight **Backlight** and press **OK**.
3. Using the 4-way navigation key highlight either **Off When Idle** or **Always On** and press **OK**.

Program left and right soft-keys

1. Enter the settings menu; using the 4-way navigation key highlight **Display** and press **OK**.
2. Using the 4-way navigation key highlight **Shortcut Keys** and press **OK**.
3. Using the 4-way navigation key highlight either **Left Soft Key** or **Right Soft Key** and press **OK**.
4. Using the 4-way navigation key highlight the preferred option and press **OK**.

Date and time settings

Set clock display format

1. Enter the settings menu; using the 4-way navigation key highlight **Time and Date** and press **OK**.
2. Using the 4-way navigation key highlight **Clock Display** and press **OK**.
3. Using the 4-way navigation key highlight the preferred format and press **OK**.

Set time

1. Enter the settings menu; using the 4-way navigation key highlight **Time and Date** and press **OK**.

Settings

2. Using the 4-way navigation key highlight **Set Time** and press **OK**.
3. Using the 4-way navigation key set the current time: hour, minute and am or pm. Press **OK**.

Set date

1. Enter the settings menu; using the 4-way navigation key highlight **Time and Date** and press **OK**.
2. Using the 4-way navigation key highlight **Set Date** and press **OK**.
3. Using the 4-way navigation key set the current date: month, day, and year. Press **OK**.

Set time format

1. Enter the settings menu; using the 4-way navigation key highlight **Time and Date** and press **OK**.
2. Using the 4-way navigation key highlight **Time Format** and press **OK**.
3. Using the 4-way navigation key highlight either **24 hour** or **am/pm**, and press **OK**.

Set date format

1. Enter the settings menu; using the 4-way navigation key highlight **Time and Date** and press **OK**.
2. Using the 4-way navigation key highlight **Date Format** and press **OK**.
3. Using the 4-way navigation key highlight preferred date format, and press **OK**.

Set auto clock update

1. Enter the settings menu; using the 4-way navigation key highlight **Time and Date** and press **OK**.
2. Using the 4-way navigation key highlight **Auto Clock Update** and press **OK**.

3. Using the 4-way navigation key highlight **On** and press **OK**.

Tones

Set ring tone

1. Enter the settings menu; using the 4-way navigation key highlight **Ring and Alarm** and press **OK**.
2. Using the 4-way navigation key highlight **Ring Tone** and press **OK**.
3. Using the 4-way navigation key highlight preferred tone and press **OK**.

Set alarm tone

1. Enter the settings menu; using the 4-way navigation key highlight **Ring and Alarm** and press **OK**.
2. Using the 4-way navigation key highlight **Alarm Tone** and press **OK**.
3. Using the 4-way navigation key highlight preferred tone and press **OK**.

Set new voicemail or text message tone

1. Enter the settings menu; using the 4-way navigation key highlight **Ring and Alarm** and press **OK**.
2. Using the 4-way navigation key highlight **New Message Tone** and press **OK**.
3. Using the 4-way navigation key highlight **New Voicemail** or **New Text Message** and press **OK**.
4. Using the 4-way navigation key highlight preferred tone and press **OK**.

Set keypad tone

1. Enter the settings menu; using the 4-way navigation key highlight **Ring and Alarm** and press **OK**.

Settings

2. Using the 4-way navigation key highlight **Keybeep Tones** and press **OK**.
3. Using the 4-way navigation key highlight **On** or **Off** and press **OK**.

Set minute minder

When on a call, a short tone will be heard every 60 seconds.

1. Enter the settings menu; using the 4-way navigation key highlight **Ring and Alarm** and press **OK**.
2. Using the 4-way navigation key highlight **Minute Minder** and press **OK**.
3. Using the 4-way navigation key highlight **On** or **Off** and press **OK**.

Set auto redial

1. Enter the settings menu; using the 4-way navigation key highlight **Call Control** and press **OK**.
2. Using the 4-way navigation key highlight **Automatic Redial** and press **OK**.
3. Using the 4-way navigation key highlight **Off** or **Prompt** and press **OK**.

System dependant services

Setup send caller-ID

1. Enter the settings menu; using the 4-way navigation key highlight **Call Control** and press **OK**.
2. Using the 4-way navigation key highlight **Send Caller ID** and press **OK**.
3. Using the 4-way navigation key highlight **Default** or **Off** or **On** and press **OK**.

Setup call waiting

1. Enter the settings menu; using the 4-way navigation key highlight **Call Control** and press **OK**.
2. Using the 4-way navigation key highlight **Call Waiting** and press **OK**.
3. Using the 4-way navigation key highlight **On** or **Off** and press **OK**.

Setup call forwarding

1. Enter the settings menu; using the 4-way navigation key highlight **Call Control** and press **OK**.
2. Using the 4-way navigation key highlight **Call Forwarding** and press **OK**.
3. Using the 4-way navigation key highlight the preferred option and press **OK**.
4. Using the 4-way navigation key highlight **Activate** or **Cancel** or **Check Status** and press **OK**.
5. If check status is selected the phone will return the current status.
6. Otherwise the phone will request a number to **Forward To**. Enter the number and press **OK**.

Setup call barring

1. Enter the settings menu; using the 4-way navigation key highlight **Call Control** and press **OK**.
2. Using the 4-way navigation key highlight **Call Barring** and press **OK**.
3. Using the 4-way navigation key highlight the preferred option and press **OK**.
4. Using the 4-way navigation key highlight **Activate** or **Cancel** or **Check Status** and press **OK**.
5. When selecting either **Activate** or **Cancel** to activate or deactivate all or part of call barring the network service

provider will request a 4-digit password. Enter the number and press **OK**.

Restore phone default settings

1. Enter the settings menu; using the 4-way navigation key highlight **Restore All Settings** and press **OK**.
2. The phone will request the phone lock code. Enter the four-digit code and press **OK**.
3. If the code is correct the phone will ask for confirmation: **Confirm?**

Network settings

WARNING

Making changes to the network settings section may prevent the phone from functioning normally.

Quick reference guide

Here are some of the most popular menu items.

Menu conventions

Unless otherwise indicated the left soft-key is **Back** and the right soft-key is **OK**. In the following list it is assumed that **OK** and **Back** will be selected as required.

Menu

Press the middle soft-key to enter the menu.

Phone book

Create a new phone book entry

- ⇒ Phone Book
 - ⇒ New Entry
 - ⇒ Phone Number
 - ⇒ Change

25,

Dial a number from the phone book

- ⇒ Phone Book
 - ⇒ Search
 - ⇒ Select
 - ⇒ Dial

25,

Delete phone book entries

- ⇒ Phone Book
 - ⇒ Search
 - ⇒ Opt
 - ⇒ Delete Entry

27,

Edit phone book entries

- ⇒ Phone Book
 - ⇒ Search
 - ⇒ Opt
 - ⇒ Edit Entry
 - ⇒ Change

27,

Assign ring tone to a number

28

- ⇒ Phone Book
 - ⇒ Search
 - ⇒ Select
 - ⇒ Opt
 - ⇒ Set Ring Tone

Assign one-touch dialing keys

28

- ⇒ Phone Book
 - ⇒ Search
 - ⇒ Select
 - ⇒ Opt
 - ⇒ [Edit Entry](#)

Call logs

View or dial a number from a call log

31

- ⇒ Call Logs
 - ⇒ Dialed Calls, Received Calls, or Missed Calls
 - ⇒ View or Dial

Copy to phone book

32

- ⇒ Call Logs
 - ⇒ View
 - ⇒ Opt
 - ⇒ Copy to Phone Book
 - ⇒ Change

Text messaging

Create and send new message

34

- ⇒ Messaging
 - ⇒ Create New Message
 - ⇒ New Text Message
 - ⇒ Opt
 - ⇒ Get From Phone Book
 - ⇒ Select
 - ⇒ Send

Read a message in inbox

35

- ⇒ Messaging
 - ⇒ Inbox
 - ⇒ Read

Reply to a message in inbox35

- ⇒ Messaging
 - ⇒ Inbox
 - ⇒ Opt
 - ⇒ Reply
 - ⇒ Send
 - ⇒ Get From Phone Book
 - ⇒ Select
 - ⇒ Send

Delete a message36

- ⇒ Messaging
 - ⇒ Inbox
 - ⇒ Opt
 - ⇒ Delete

Call back36

- ⇒ Messaging
 - ⇒ Inbox
 - ⇒ Opt
 - ⇒ Call Back

Alarm clock**Set alarm time**40

- ⇒ Alarm Clock

Set alarm tone40

- ⇒ Alarm Clock
 - ⇒ Opt
 - ⇒ Alarm Tone

Settings**Set time**48

- ⇒ Settings
 - ⇒ Time and Date
 - ⇒ Set Time

Set date49

- ⇒ Settings
 - ⇒ Time and Date
 - ⇒ Set Date

Set ring tone50

- ⇒ Settings
 - ⇒ Ring and Alarm
 - ⇒ Ring Tone

Glossary of Terms

CSD	Circuit Switched Data – allows dial-up data communications.
GPRS	General Packet Radio Service – packet switched (always on) data communication protocol.
GSM	originally stood for Groupe Speciale Mobile, but now it is known as Global System for Mobile communications
LCD	Liquid Crystal Display
LED	Light Emitting Diode
SIM	Subscriber Identity Module
PIN	Personal Identification Number
PUK	PIN Unblocking Key

Specifications

GSM Wireless Frequencies Supported

2W 850 MHz (Class 4)

1W 1900 MHz (Class3)

Languages

English and Spanish

Physical

Size: 8.75"D x 6.75"W x 1.75"H, 223mm x 173mm x 50mm
(antenna adds 2", 50mm to width)

Weight: 1.75 lbs (795g) without batteries

Environmental

Operating Temperature: 0°C to +50°C

Storage Temperature: -20°C to +85°C

Antenna

TNC antenna connector, 50 ohms

Power

Voltage Input: 100 – 240VAC, 50/60Hz, and 10W max. input

Backup battery

Model supplied with AAA NiMH (rechargeable) battery pack
Supports 90 minutes (min) talk time, 15 hours (min) standby

Note: The battery will need to charge for 15 hours before it will yield full capacity.

Model with support for four AA alkaline batteries

Supports 20 minutes (min) talk time, 8 hours (min) standby

Important safety instructions

When using this phone, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury. Read this information before using your phone.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or similar.
5. Place this unit securely on a stable surface. Serious damage and / or injury may result if the unit falls.
6. Do not cover the slots and openings on the unit. They are provided for ventilation against overheating. Never place the unit near radiators, or other sources of heat, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home or office, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step on or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through the slots in the unit. This can result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized dealer when service is required. Opening or removing covers may expose you to dangerous voltages or other risks and may void the warranty. Incorrect reassembly can result in electric shock when the unit is subsequently used.
12. Unplug the unit from the wall outlet and refer to a authorized dealer when the following conditions occur:

- a. If liquid has been spilled into the unit.
 - b. If the unit has been exposed to rain or water.
 - c. If the unit does not work normally by following the operating instructions. Adjust only the controls covered by the operating instructions. Improper adjustments may damage the unit.
 - d. If the unit has been dropped or is physically damaged.
 - e. If the unit exhibits a distinct change in performance.
 - f. When the power cord or plug is damaged or frayed.
- 13. Do not use this unit to report a gas leak when in the vicinity of the leak.
 - 14. NEVER attempt to remove the antenna while the phone is in use or switched on. Always disconnect the AC supply and remove the batteries before disconnecting the antenna. Failure to take this precaution may result in damage to the phone and void the warranty.
 - 15. The batteries are for emergency backup only. Connect the AC supply and confirm that the telephone is working normally before installing the batteries. This phone is not intended for use without the AC adapter.
 - 16. In the event of power failure the call may be disconnected.
 - 17. Replace the batteries every six months to ensure proper service in the event of power failure.
 - 18. Making changes to the Network Settings section may prevent the phone from functioning normally.

Exposure to radio frequency signals

Your wireless telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

International agencies have set standards and recommendations for the protection of public exposure to RF electromagnetic energy.

Important safety instructions

- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1996
- Verband Deutscher Elektrotechniker (VDE) DIN-0848
- United States Federal Communications Commission, Radio Frequency Exposure Guidelines (1996)
- National Radiological Protection Board of the United Kingdom, GS 11, 1988
- American National Standards Institute (ANSI) IEEE. C95.1-1992
- National Council on Radiation Protection and Measurements (NCRP). Report 86
- Ministry of Health (Canada), Safety Code 6

These standards are based on extensive scientific review. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the updated ANSI standard.

The design of your phone complies with these standards when used as described under "Telephone Operation."

Operational precautions

To assure optimal phone performance and make sure human exposure to RF energy is within the guidelines set forth in the relevant standards, always adhere to the following procedures.

Antenna care

Use only the supplied Motorola approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone.

Do NOT hold the antenna when the phone is IN USE. Holding the antenna affects call quality and may cause the phone to operate at a higher power level than needed. In addition, use of unauthorized antennas may result in non-compliance with the local regulatory requirements.

Telephone operation

Do not operate your telephone when a person is within 8 inches (20 centimeters) of the antenna. A person or object within 8 inches (20 centimeters) of the antenna could impair call quality and may cause the phone to operate at a higher power level than necessary and expose that person to RF energy in excess of that established by the FCC RF Exposure Guidelines.

Data operation

When using any data feature of the phone, with or without an accessory cable, position the phone and its antenna at least 8 inches (20 centimeters) from your body.

Approved accessories

Use of accessories not approved by Motorola, including but not limited to antennas, may cause your phone to exceed RF energy exposure guidelines. For a list of approved Motorola accessories, visit our website at: www.Motorola.com.

RF energy interference/compatibility

Note: Nearly every electronic device is susceptible to RF energy interference from external sources if inadequately shielded, designed, or otherwise configured for RF energy compatibility. In some circumstances your phone may cause interference.

Facilities

Turn off your phone in any facility where posted notices instruct you to do so. These facilities may include hospitals or health care facilities that may be using equipment that is sensitive to external RF energy.

Medical devices

Pacemakers

Pacemaker manufacturers recommend that a minimum separation of 6 inches (15 centimeters) be maintained between the phone antenna and a pacemaker.

Important safety instructions

Persons with pacemakers should:

- ALWAYS keep the phone antenna more than 6 inches (15 centimeters) from the pacemaker.
- Turn OFF the phone immediately if you have any reason to suspect that interference is taking place.

Hearing aids

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

Other medical devices

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

Potentially explosive atmospheres

Turn your phone OFF, do not remove your battery when you are in any area with a potentially explosive atmosphere, and obey all signs and instructions. Sparks from your battery in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include: fueling areas such as gasoline stations; below deck on boats; fuel or chemical transfer or storage facilities; areas where fuel odors are present (for example, if a gas/propane leak occurs in a car or home); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you normally would be advised to turn off your vehicle engine.

Blasting caps and areas

To avoid interfering with blasting operations, turn your phone OFF when in a "blasting area" or in areas posted: "Turn off two-way radio." Obey all signs and instructions.

Using external antennas

Your FX1900xg digital telephone is equipped with an antenna which screws onto the transceiver. This antenna is intended for internal use, and will provide adequate operation under normal circumstances. If you elect to install an external antenna (not supplied by Motorola), you must take precautions to provide adequate lightning protection for the external antenna.

Motorola assumes no liability if you elect to install an external antenna.

External antenna installation

IMPORTANT:

To comply with the FCC RF exposure limits and satisfy the categorical exclusion requirements for mobile transmitters, the following requirements must be met:

1. A minimum separation distance of 20 cm must be maintained between the antenna and all persons.
2. The transmitter effective radiated power must be less than 1.5 Watts ERP (2.46 Watts or 33.9 dBm EIRP). This requires that the combination of antenna gain and feed line loss does not exceed 10 dBi.

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

FDA consumer information on wireless phones

The U.S. Food and Drug Administration (FDA) provides consumer information on wireless phones at:

<http://www.fda.gov/cellphones/qa.html>

FCC RF energy interference

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Warranty

The Motorola FX1900xg is built to the highest standards by CSI Wireless, LLC for Motorola Corporation. CSI Wireless warrants the product to the original retail purchaser for one year from the date of purchase for defects in materials or workmanship (except as listed below) under normal use and conditions. Such defects will be repaired or replaced at the company's option, without charge for parts or labor directly related to the defect(s). The following items are similarly warranted for a period of 90 days: antenna and AC wall charger.

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE OF THE PRODUCT.

CSI Wireless, LLC disclaim liability for cellular coverage, inadequate signal, communications range and operation of the Cellular networks as a whole.