



FWT-8100 and FWT-8000

Fixed Wireless Terminal
May 1, 2001.



Congratulations

Your new cellular telephone is a carefully engineered, high quality, durable product with natural sound quality, modern features and elegant styling. It is designed to give you the quality and convenience you expect in a cellular telephone.

To familiarize yourself with all the features of your new phone, please read the following instructions carefully. Retain this Guide for future reference.

■	<u>INTRODUCTION</u>	5
—	<u>SAFETY INFORMATION</u>	5
—	<u>FEATURES</u>	7
—	<u>DISPLAY INFORMATION</u>	7
—	<u>KEY AND MISCELLANEOUS INFORMATION</u>	
	8	
■	<u>BASIC OPERATION</u>	11
—	<u>TURNING THE PHONE ON</u>	11
—	<u>MAKING AND RECEIVING CALLS</u>	11
—	<u>REVIEWING THE PRECEDING DIGITS</u>	13
—	<u>REDIALING FUNCTIONS</u>	14
—	<u>MIC MUTE</u>	15
■	<u>ENHANCED OPERATION</u>	16
—	<u>LOCKING AND UNLOCKING THE PHONE</u> ...	16
—	<u>EARPIECE VOLUME ADJUSTMENT</u>	16
—	<u>LOUDSPEAKER VOLUME ADJUSTMENT</u>	17
—	<u>MEMORY FUNCTIONS</u>	18
—	<u>ONE-TOUCH DIALING</u>	20
—	<u>ONE-TOUCH EMERGENCY CALL</u>	21
—	<u>911 EMERGENCY CALL</u>	22 24
—	<u>SCRATCH PAD MEMORY</u>	22
—	<u>EMERGENCY AND PRIORITY DIALING</u>	23
—	<u>RINGER MELODY</u>	23
—	<u>TIME AND DATE</u>	24 23
—	<u>CALLER ID</u>	24
■	<u>EXTENDED FEATURES AND</u>	
	<u>FUNCTIONS</u>	25 24
—	<u>KEYPAD (DTMF) TONES</u>	25

—	<u>TIMER AND COUNTER FUNCTIONS</u>	26
—	<u>SYSTEM A/B INDICATION FOR AMPS</u>	29
—	<u>USER PROGRAMMABLE CODES</u>	29
—	<u>CHANNEL AND RSSI LEVEL DISPLAY</u>	30
—	<u>ELECTRONIC SERIAL NUMBER (ESN)</u>	31 ³⁰
■	<u>INSTALLATION</u>	31
—	<u>PARTS LIST</u>	31
—	<u>INCLUDED IN THE GIFTBOX</u>	32
—	<u>GENERAL SPECIFICATIONS</u>	33
	<u>TABLE OF KEY OPERATIONS</u>	34

■ INTRODUCTION

Safety Information

As with any product, precautions should be observed during its handling and use. To become enlightened to safe and proper procedure, please read and adhere to all warnings, cautions, and safety information.

Avoid using the telephone during an electrical storm. There is a remote risk of dangerous electrical shock from lightning.

Do not attempt to disassemble the housing of your phone or any of its related parts. There are no user serviceable components.

A minimum distance of 2 inches should be kept between the telephone antenna and any organic life forms (i.e. people, small animals, etc.) during operations.

Damage Requiring Service : Your telephone should be serviced by qualified service personnel when:

- a. Objects have fallen or liquid has spilled into the product; or
- b. The product has been exposed to rain; or
- c. The product does not appear to operate normally or exhibits a marked change in performance; or
- d. The product has been dropped, or the housing has been damaged.

Never touch uninsulated telephone wires or terminals.



Caution!

NEVER power the unit without an antenna, as it may damage the radio transmitter.

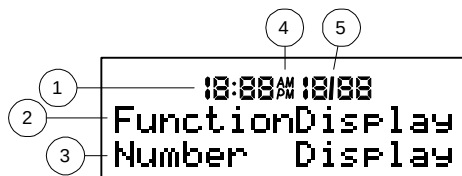
**Caution!**

To satisfy FCC radio-frequency exposure requirements, the antenna for this device must be placed 2 inches (5 cm) or more from all persons, while it is in operation.

Features

- Easy to read LCD display with numeric and status indicators
- Back-lit LCD display
- Microphone Mute Control
- Priority/Emergency calling with automatic retry
- Automatic call retry
- 89 memory locations
- 7 Location Scratch Pad, with automatic scroll
- Vacant memory location search
- Automatic entry into vacant memory location
- Phone number search
- One-Touch Dialing
- One-Touch Emergency Call
- Last 10 number dialed memory
- Silent Incoming Calls
- Call time warning tone
- DTMF tone dialing from memory
- DTMF keypad mute
- DTMF extended tone dialing
- RF Channel and RSSI Level display
- Electronic serial number display (own)
- Telephone number display (own)
- System ID display (own)
- 7 function call timer

Display Information



Current Time Display

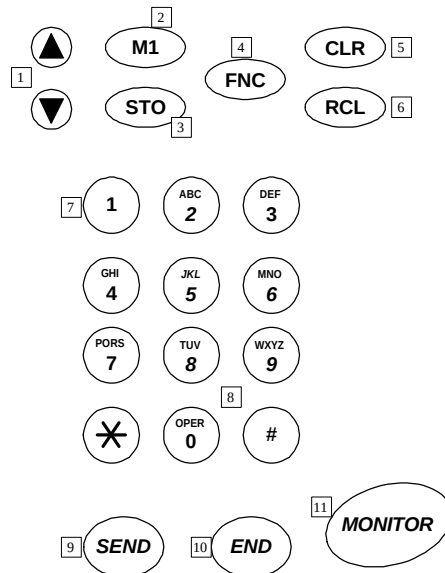
, **FUNCTION Mode** Indicator and **NUMBER Display**

Lights when the FUNCTION key  is pressed to do extended functions and Displays the telephone number dialed.

AM/PM Display

Current Date Display

Key and Miscellaneous Information





1 VOLUME ADJUSTMENT keys ▲/▼

Used to adjust the alert tone, earpiece, keypad tone and monitor volume level

2 ONE-TOUCH DIAL and **MUTE** key M1

In idle mode, allows you to place a call with a single keystroke. In conversation mode, switches off the microphone so the other party on the line cannot hear your private conversation off line.

3 STORE Key STO

When used in conjunction with digit keys, enables the user to store number into memory.

4 FUNCTION Key FNC

When used in conjunction with digit keys, allows operation of extended functions

5 CLEAR Key CLR

Clear the digit(s) from the display.

6 **RECALL** Key 

Recalls telephone numbers from memory.

7 **ONE-TOUCH EMERGENCY** Key 

Allows you to place a call to an emergency number by a single keystroke

8 **DIGIT** Keys  thru ,  and .

Enter telephone numbers, NAM information, etc.,.

9 **SEND** Key 

Initiates a call and allows the user to answer calls.

10 **END** Key 

Terminates a call.

11 **MONITOR** Key 

Turn on and off the loudspeaker for conversation monitoring.

12 **Sleeve type Antenna**

13 **LCD Display Module**

14 **Loudspeaker**

15 **Keypad**

16 **Hook Switch**

For signaling start and end of call.

17 **Receiver Unit**

Hear the voice signal from the another party.

18 **Handset**

19 **Mic Unit**

Transmit speaking signal to another party.

20 **Coiled Cord**

■ BASIC OPERATION

Turning the Phone ON

Each time the unit powers up, it goes through certain “Wake Up” routines. Upon power up, all indicators will light and your own telephone number will be displayed momentarily. At this point your phone is operational and ready for use.



LCD backlight turns off after 8 seconds to save power. Pressing any key relights the Display for another 8 seconds



If the NO SERVICE indicator remains illuminated, a call cannot be placed or received as the “Cellular System” is not available in the area you are currently in.

Display Own Telephone Number and System ID

To display your Telephone Number, press “FNC”, “#”, “1”.

To display your System ID, press “FNC”, “#”, “3”.

To clear the display, just press “CLR”.

Making and Receiving Calls

Placing Calls

When entering telephone numbers manually, each digit entered will appear in the display panel and will scroll from right to left every time a new digit is entered.

To place a call, make sure the power is on (refer to the “Turning the Phone ON” on previous page), enter the desired telephone number and press “**SEND**”. At this point, the **IN USE** indicator will light and the dialing sequence will be executed.

To correct an error made while entering a telephone number, use the following methods:

Press the **CLEAR** key  to erase the last digit entered.

Press and hold the **CLEAR** key  to erase all the digits in the display.

Press “**END**”  momentarily to erase all the digits in the display.

To cause an on-hook condition after or during the dialing procedure, just press “**END**”.



The display panel has a 15 digit capacity. However, numbers containing up to 32 digits may be entered, therefore only the last 15 digits dialed will remain in the display. Refer to the part in this section entitled “Reviewing the Preceding Digits”

Receiving Calls

The cellular phone features both audio and visual signals to indicate an incoming call.

The telephone will both ring and the word “**CALL**” will flash repeatedly in the display panel.

To answer an incoming call when the handset is resting in its cradle, simply lift the receiver. The ringing will

stop and the *IN USE* indicator will appear in the display panel.

To answer an incoming call when the handset is removed from its cradle, press any key except the ▲▼, or “END”. IN USE will light and you may proceed with the call as usual.

To hang up the phone after or during a conversation, press “END”, or simply replace the handset in its cradle.



If calls go unanswered, the words “calls missed” and the number of unanswered calls will appear and remain in the display until a call is originated.

Silent Incoming Calls

If the Silent Alert feature is set, a single beep and a flashing “CALL” message on the display will alert you of an incoming call.

Once you have switched to silent alert, the phone stays in that mode until you deactivate it.

To activate this mode, press “FNC”, “8”.

“Silent Alert On” should light in the display, indicating that the Silent Alert Feature has been set.

To deactivate this mode, press “FNC”, “8” again.

“Silent Alrt Off” should light in the display, indicating that the Silent Alert Feature has been turned off.

Reviewing the Preceding Digits

A condition may arise while entering numbers longer than 15 digits, when the leftmost part of the entered number scrolls off the display and out of view. The entered number under this condition exists within three possible segments of digits.

To view digit segments which have scrolled off the display panel, press “FNC”, “*”, “8”.

The digits/digit segments displayed depends on the

length of the telephone number and the number of times the “8”key is depressed within the above procedure.
 Use the chart below to correlate your action with the resulting display.

Correlation Chart			
Press “8”	Number Of Digits Entered		
Key	1 ~ 15 Digits	16 ~ 30 Digits	31 ~ 32 Digits
Once	Segment 3	Segment 2	Segment 1
Twice	---	Segment 3	Segment 2
3 Times	---	---	Segment 3



Repeatedly pressing the “8” key will display the next segment inline.
 Once the entire number has been displayed, the **Function** indicator will go off as the last segment is displayed and the “8” key will resume its normal digit entry mode of operation.

Redialing Functions

Last Ten Numbers Dialed

This feature is used to display the numbers of the ten most recent calls that have been made.

To display the number of the most recently made call, press “RCL”, “#”. Then, other recent numbers can be viewed using “▲” or “▼”, or by entering a digit from 0 through 9. An index is displayed above the phone number: 0 for the most recent and 9 for the oldest.



If you wish to dial one of these numbers, press “SEND”.

Automatic Redial

When a “Cellular System” busy signal occurs, the Automatic Redial function can be used to redial a telephone number automatically (up to 3 times) at regular intervals 30 seconds apart.

To change Automatic Redial Mode, press “FNC”, “*”, “7”, the 3-digit unlock code, then up arrow or down arrow to enable or disable auto redial, and “STO” consecutively.

To abort Automatic Redialing while in progress, simply press the “END” key.

 *A distinction should be made between a “Line busy signal” and a “Cellular System” busy signal. (Automatic Redial will initiate only on a “Cellular System” busy signal.)*

MIC Mute

The MIC MUTE function deactivates the microphone located in the mouthpiece of your phone so you can converse at your location and not be overheard by the party on the line.

To toggle the MIC MUTE mode ON, press the “MUTE” key. The MUTE indicator “MUTE” should now be lit.

To deactivate MIC MUTE mode, just press the MUTE key again. “MUTE” should go dark and normal conversation can be resumed.

 *The Mute mode will automatically be released when the conversation is terminated.*

 *The “M1” key can be used as One-Touch Dial Key when not in conversation.*

■ ENHANCED OPERATION

Locking and Unlocking the Phone

The cellular telephone has a lock feature to restrict the origination of outgoing calls except for One-Touch Emergency Call, Emergency (911, 000, 119), and those numbers stored in the emergency /priority dialing area. (Refer to “Emergency and Priority Dialing”)

To Lock your phone, press “FNC”, “5”, and enter the 3 digit registered unlock code. The word “Locked” should now be displayed in the display panel.

To Unlock the unit just enter the same 3 digit code you entered as the Lock code.



While the unit UNLOCK code has been factory set as 123 it may be changed if so desired. Please refer to the section entitled “User Programmable Codes”.



The number you enter as a “Lock” code should be written down and stored safely!

Earpiece Volume Adjustment

The “Earpiece” volume level controls the loudness of any sounds that emanate from the speaker mounted in the earpiece of your cellular telephone.

To adjust the Earpiece volume level while the IN USE indicator is lit (in conversation), just press the “▲” or “▼” buttons.

To adjust the Earpiece volume level while IN USE is not lit (not in conversation), press the “FNC”, “*”, “9”, “0” and then press the “▲” or “▼” buttons to raise or lower the volume level respectively.

Note: When the speaker is on in Monitor mode, the handset earpiece is off.

Loudspeaker Volume Adjustment

The “Loudspeaker” volume level settings control three different aspects of audible tones generated in daily use. All three (keypad tones, alert tones, and voice) volume levels may be individually manipulated for maximum customization.

Keypad Volume

The telephone’s keypad generates sensory feedback tones (as do many touch-tone phones), the loudness of which may be altered to the preferences of the individual user.

To alter the loudness of the *Keypad* tone while not ringing, in a conversation, or displaying memory, simply press the “▲” or “▼” buttons to raise or lower the volume level respectively.

To alter the loudness of the *Keypad* Tones while not in use, press “FNC”, “*”, “9”, “2” and then press the “▲” or “▼” buttons to raise or lower the volume level respectively.

Alert Volume

The telephone’s Alert volume (or Ring volume) may also be individually set to a preferred level.

To alter the loudness of the Alert Volume while the telephone is ringing, simply press the “▲” or “▼” buttons to raise or lower the volume level respectively.

To alter the loudness of the *Alert Volume* while not

ringing, press “FNC”, “*”, “9”, “1”, and then press the “▲” or “▼” buttons to raise or lower the volume level respectively.

Monitor Speaker Volume

The volume level of the speaker heard while in Monitor mode may be adjusted to suit the environment in which the phone is being used.

To alter the volume used during *Monitor Mode*, while the **IN USE** indicator is lit (during conversation), simply press the “▲” or “▼” buttons to raise or lower the volume level respectively.

To alter the volume level of the *Monitor* speaker while not in use, press “FNC”, “*”, “9”, “4”, and then press the “▲” or “▼” buttons to raise or lower the volume level respectively.

Note: When the speaker is on in Monitor mode, the handset earpiece is off.

Memory Functions

Up to 89 numbers can be stored in the Memory Dialing System. Each location can contain a number up to 32 digits in size.

Manual Storage

Telephone numbers may be stored manually into locations 01 through 89.

To use Manual Storage, enter the telephone number to be stored and press “**STO**”. The telephone number will blink on and off until you enter a 2-digit location number 01 through 89, to which the telephone number will be stored.



If the memory location number selected contains a previously stored telephone number the newly entered telephone number will replace the existing

one.

Automatic Storage

This feature is used to store telephone numbers in memory locations automatically.

To use the Automatic Storage feature, enter the telephone number to be stored and press “STO” twice. The 2 digit location number 01 through 89 to which the telephone number was stored will be displayed for approximately 1 second.



If there are no available locations, the word “FULL” will be displayed for 3 seconds and the previous mode will be restored.

Vacant Memory Location Search

This feature is used to search for unused memory locations to which telephone numbers may be stored. The Vacant Location Search function will try to place phone numbers in memory locations automatically.

To use the Vacant Memory Location Search function, enter the telephone number you wish to store and press “STO”. At this point you may choose an ascending or descending search order by pressing the “▲” or “▼” button respectively.

When the first vacant memory location is found, that memory location’s number will appear in the display panel, on the line above the phone number. The telephone number about to be stored will continue to flash on and off in the display panel until you either store the number by pressing “SEND”, or search for another location by pressing one of the “▲” or “▼” buttons.

To exit the Vacant Memory Location Search function without storing the number, just press “END”.

Number Search

This feature allows the user to scan, recall and dial numbers stored in locations 1 through 97.

To use Number Search, press the RCL key and use the “▲” or “▼” buttons to scroll through the memory locations. When an occupied location is found, the memory location number (01 through 97) will be displayed in the display panel, along with the telephone number assigned to that location number.

To dial a number found in the search process, just press “SEND” .

To exit from the search mode at any time, press “END”.



If there are no telephone numbers stored in memory, the word “EMPTY” will be displayed.

Memory Redial

Telephone numbers can be recalled and dialed from any one of 97 different memory locations.

To dial a number stored in memory, press the **RCL** key and enter the 1 or 2 digit location number 1 through 97, you wish to dial. When the desired telephone number appears in the display panel, press “SEND” to initiate dialing.



Locations 90 through 96 are reserved. (Refer to the “Scratch Pad”)

Location 97 is reserved. (Refer to “Emergency and Priority Dialing”)

One-Touch Dialing

This feature permits you to place a call by a single keystroke.

Storing a Number into One-Touch Memory

Press “CLR”, then enter a phone number.

Press “STO”, then the One-Touch key “M1”.

Stored numbers can be reviewed by pressing “RCL”,
“M1”.

Placing a Call to a Number in One Touch Memory

Press the One-Touch key “M1”.

The telephone number will be displayed, and the IN USE indicator will light as the call is placed.



The “M1” key can be used to mute the handset’s microphone during a conversation.

One-Touch Emergency Call

This feature permits you to place a call to an emergency number by a single keystroke, even when the unit is in Lock mode. You can deactivate this feature to prevent unintentional usage.

To place a call to the emergency number, press “1” for more than 2 seconds. The emergency number that is pre-programmed will be displayed, and the **IN USE** indicator will light as a call is placed.

The number and on/off state is reviewed using the sequence “FNC”, “*”, “4”, and the 3-digit unlock code (default code is “1”, “2”, “3”).

If the feature is enabled, “E-on” is displayed. If the feature is disabled, “E-oFF” is displayed.

The feature can be enabled using the up arrow or disabled using the down arrow.

A new emergency number can be entered by pressing the number keys.

To save any changes, press “STO”.

To exit without saving any changes, press “END”.

911 Emergency Call

When “9-1-1” is called, it is treated as a special number. It can be called, even when the telephone is Lock mode. If the call doesn’t connect within 5.5 seconds, it is automatically redialed. Note that, as with other automatic redialing, it will initiate only on a “Cellular System” busy signal, but not on a “Landline” busy signal. The automatic redial attempts will continue indefinitely, unless a connection is made, “END” is pushed, or the handset is placed on-hook.

Additionally, a “9-1-1” call is permitted to use alternate analog carriers, using a special call system selection process.

Scratch Pad Memory

While in Scratch Pad mode, the display may be used as a sort of numerical note pad during a conversation and can hold up to 7 entries of up to 32 digits. This “Scratch Pad” can be used to store any kind of numerical data. For example a market quote while on-line with your stock broker or a telephone number supplied by a recording, informing you the number has been changed, etc.

Storing Numbers in the Scratch Pad

The Scratch Pad operates in a “First In First Out” (FIFO) fashion. The first number entered will be stored in memory location 90. When a second number is entered into the note pad the first number will be shifted to location 91 and the newly entered number will occupy location 90. In the same manner, when the seventh number is entered, the first number will be shifted to location 96, and when the eighth number is entered, the first entry will be erased.

To begin your entries into the Scratch Pad, enter the first digit sequence you wish to store and press “FNC”, “1”. Just repeat this procedure for any following entries.



If a telephone number is present in the display panel prior to your first entry, press “CLR” for 1 second to clear the entire phone number displayed

.

Dialing Numbers from the Scratch Pad

Although the Scratch Pad is primarily for use as a temporary storage device, if one of the entries contains a telephone number, (as in the “recorded message” example given above) it is possible to recall and dial that entry.

To dial a scratch pad entry containing a telephone number, press “RCL” and enter the desired location number 90 through 96. When the proper entry is displayed, press “SEND” to initiate the dialing sequence.

Emergency and Priority Dialing

The cellular phone enables you to store a single telephone number up to 32 digits in length for priority or emergency purposes. Memory location 97 is reserved for this purpose. To enter an emergency number, you would use the same procedures described in the section entitled “Manual Storage” but using 97 as the location number.

To dial this special telephone number, press “RCL”, “9”, “7” and press “SEND”.



The Emergency and Priority number will automatically be redialed up to 3 times at 50 second intervals or until a connection is made.

Ringer Melody

You can select from 15 melodies for the ringing sound by pressing “FNC”, “2”, and then using the arrow keys to listen to

samples. If you want the new melody shown on the display, press “STO”. If you want to exit without a change, press “END” or “CLR”.

Time and Date

During normal operation, the top line of the display indicates hours, minutes, AM or PM, the month, and the day of the month. Time and date can be set by pressing “FNC”, “#”, “7”. The particular part being set will be shown on the bottom line of the display. Press number keys to enter the correct value, then press an arrow key to go on to the next item. When all items have been set, press “CLR” or “END” to return to normal operation.



If power has been off, the clock may need to be reset. In this case, “Clock Reset” is shown flashing on the bottom line of the display. This display will disappear as soon as any key is pressed.

Caller ID

This is an optional feature that may be offered by your cellular service provider.

During ringing, the incoming phone number is shown on the bottom line of the display. After the call, its time and date are stored in Caller ID Memory. To display the most recent incoming call’s phone number, time, and date, press “FCN” “RCL”. The top line will be the time and date of the call (assuming your clock has been properly set). The center line will show an index number on the right side, with a value of 0 for the most recent call. The bottom line will show the phone number (if available). To view the next most recent call information, press “▼”. Caller ID memory can hold up to 20 numbers. When all 20 locations are filled, and a new call is received, the oldest information is lost. If you want to save a number shown on a Caller ID Memory display into ordinary memory, press “STO”, and the same choices are available as for storing other phone numbers, as described in the section “Memory Functions”.

■ EXTENDED FEATURES AND FUNCTIONS

Keypad (DTMF) Tones

Dual Tone Multi-Frequency (DTMF), or “Keypad Tone” signals can be transmitted during a call by entering digits on the keypad or recalling numbers from memory. By sending DTMF signals you can gain access to special services such as voice mail and answering machines that require long duration tones.

Keypad (DTMF) Tone Duration

You may select the time duration of Keypad (DTMF) Tones either long tone (Long On) or short (Long off).

To toggle the Long Tone Time On or Off, “FNC”, “#”, “8”.

The letters “DTMF Long On” or “DTMF Long Off” will appear in the display to indicate the mode.

If you select “DTMF Long On”, a continuous tone will sound for up to 3 seconds when you press any key.

If you select “DTMF Long Off”, the tone duration will be fixed to approximately 95 milliseconds.

Keypad (DTMF) Tone Mute

The “Keypad Tones” (DTMF) may be muted during a conversation. For example, to store a number into the Scratch Pad without interrupting your conversation.

To mute the keypad tones, press “FNC”, “3”.

To enable the keypad tones, press “FNC”, “3” again.

Sending DTMF Tones

From the Keypad:

Press keys “0” through “9”, “*”, or “#” to send DTMF

tones during conversation mode.

From a memory location:

Press “RCL” and “*”, then up arrow, down arrow, or numeric entry (or M1 key) to select a memory location.

When the desired number is displayed, press “SEND”, and the DTMF digits will be sent. The DTMF tones will be heard at the other end in conjunction with the telephone number recalled and displayed.

Timer and Counter Functions

Elapsed Time Display

While the *IN USE* indicator is lit, the clock in the center line of the display panel will keep a running total of elapsed time from the time of connection for that call in minutes:second format. After call completion, this function will display the total elapsed time (spent on-line) of the last call made.

To display the elapsed time in the display panel, press “FNC”, “*”, “3”, “0”. The word “Air” will appear in the display panel.



The time count will reset to 00:00 after 99 minutes and 59 seconds.



When the call time is displayed using “FNC”, “”, “3”, “0”, the time display does not reset until 9999 minutes and 59 seconds.*

Outgoing Call Timer

This function is used to time your outgoing calls. The timer resets to 0000:00 after 9999 hours and 59 minutes.

To display the value for outgoing call times, press “FNC”, “*”, “3”, “1”, then enter the registered two-digit Call Timer access code.

To manually reset the Outgoing Call Timer to 0000:00, press “*”, “CLR”.

To exit this mode, press “CLR”.

-  *The display is “o-A xxxx:yy h:m”, where xxxx is hours and yy is minutes.*
-  *The factory default Call Timer access code is 12, but it may be changed if you desire. Please refer to the section entitled “User Programmable Codes.”*
-  ***The number you enter as an access code should be written down and stored safely!***

Cumulative Call Timer

The Cumulative Call Timer keeps a running total of on-line usage in hours:minutes format.

This timer resets to 0000:00 after 9999 hours and 59 minutes have been accumulated

To display the value of the Cumulative Call Timer, press “FNC”, “*”, “3”, “2”, and enter the registered 2 digit Call Timer access code.

To manually reset the call timer to 0000:00, press “*”, “CLR”.

To exit this mode, press “CLR”.

-  *The display is “C-A xxxx:yy h:m”, where xxxx is hours and yy is minutes.*
-  *The factory default Call Timer access code is 12, but it may be changed if you desire. Please refer to the section entitled “User Programmable Codes”.*
-  ***The number you enter as an “Access Code” should be written down and stored safely!***

Temporary Accumulated Call Counter

This feature is used to check the temporarily accumulated (reset to 0 on the 10,000th call) number of calls.

To check the number of calls made, press “FNC”, “*”,

“2”, “0”. The temporarily accumulated number of calls will appear in the display following the word “CALL”. If you wish to reset this total to 0 simply press “*”, “CLR” before exiting this mode. To exit this mode, press “CLR”.

Outgoing Call Counter

This feature is used to check the number of outgoing calls. It resets to 0 after the 10,000th call has been made.

To check the number of outgoing calls that have been made, press “FNC”, “*”, “2”, “1”, while the telephone is not in use, and enter the registered 2 digit Call Counter access code. If you wish to reset this total to 0, simply press “*”, “CLR” before exiting this mode. To exit this mode, press “CLR”.



The factory default Call Counter access code is 12, but it may be changed if you desire. Please refer to the section entitled “User Programmable Codes”.



The number you enter as an access code should be written down and stored safely!

Accumulated Call Counter

This feature is used to check the accumulated number of calls. This total will reset to 0 on the 10,000th call.

To check the number of calls made, press “FNC”, “*”, “2”, “2” and enter the registered 2 digit Call Counter access code while the telephone is not in use. The accumulated number of calls will appear in the display following the letters “C-C”. If you wish to reset this total to 0 simply press “*”, “CLR” before exiting this mode.

To exit this mode, press “CLR”.

-  *The factory default Call Counter access code is 12, but it may be changed if you desire. Please refer to the section entitled “User Programmable Codes”.*
-  ***The number you enter as an “Access Code” should be written down and stored safely!***

Call Time Warning Tone

A time warning tone can be set to alert you to the elapsed time of a call. The tone will sound a single beep every minute (and a double beep every 5 minutes) during a call.

To toggle the Warning Tone on or off, press “FNC”, “*”, “1” while not in use. The letters “Beep On” or “Beep OFF” will appear in the display to indicate the mode’s current setting.

-  *This mode can not be changed during a conversation.*

System A/B Indication for AMPS

If you want to know the current mode, press “FNC”, “6”, “5”. Status indicator shows the current mode.

User Programmable Codes

There are 3 user-programmable codes used for data preservation and security purposes. The fact that they are “User programmable” allows the user to change these numbers, customize the system and further the security benefits. To change a code from the factory setting or previously modified setting, press “FNC”, “#”, “5”, and enter the number of the corresponding mode you wish modified (refer to “mode #” in the table below). The mode name will appear in the display followed by the letter “P”. At this point enter the factory setting or (if previously modified) the current setting. The letter “n” will replace the “P” in the display

panel. Enter your new 2 or 3 digit code. Press “STO” to save your newly entered code. Upon saving the code, the display will read "code changed" until any key is pressed. To correct an error made while entering keys, press “END” and repeat the process from the beginning.



Any 3 digits are acceptable for your new Unlock code, except 911, 000, and 119.



Always keep a record of any modified code numbers. They will be necessary to access corresponding features or to reenter new codes.

Mode Name	Mode #	Display	Factory Setting
Unlock	1	Unlock	123
Call Counter	3	Call Count	12
Call Timer	4	Air Time	12

Channel and RSSI Level Display

RSSI levels are the signal strength of the current channel of operation represented in voltage. The higher the voltage (the bigger the number) represented in the display, the better the connection and the clearer communications will become.

By following the procedure below, the channel number currently in use and the RSSI level will be displayed in the display panel and will be refreshed with current data every second.

To display the Channel Number and RSSI Level, simply press “FNC”, “*”, “6”.

To clear the display, press “CLR”.



The RSSI level is in dBm, and is negative. Numbers with smaller magnitudes, which are less negative, represent stronger signals.

Electronic Serial Number (ESN)

The cellular phone has an electronically encoded serial number, which may be displayed as desired.

To display the Electronic Serial Number, press “FNC”, “#”, “2”.

To clear the display, just press “CLR”.

■ INSTALLATION

This section outlines attaching to the soft bag and connections.



There are some basic rules that apply to most hardware installation procedures and need to be observed to prevent damage or injury.

Always make sure that any power is disconnected before handling any electrical components like wiring, fuseboxes, connectors, etc.

Never force any connection between components, electrical connectors or the like.

Always use the proper tools for the task at hand. Using improper tools may cause damage to yourself, or your cellular telephone system.

Think through all the necessary steps of installation before actually beginning the procedure and equip yourself for all steps to be preformed.

Always make sure your workspace and your tools are clean. The introduction of dirt or grease may hinder the performance of your cellular telephone and related components.

Parts List

FWT-8100 and FWT-8000 Basic Kit



Included in the Giftbox

Before We Begin

You will need the following items in order to properly install the FWT-8100/FWT-8000 cellular telephone.

Included

1. Transceiver unit
2. Handset
3. Coiled cord
4. AC/DC Adapter
5. Antenna

Refer to “Parts List” for visual conformation.

GENERAL SPECIFICATIONS

Frequency Range	
Transmit	: 824.040 to 848.970 MHz
Receive	: 869.040 to 893.970 MHz
Number of RF Channels	: 832 Channels, Full Duplex
Channel Spacing	: 30 KHz
Duplex Spacing	: 45 MHz
Frequency Stability	: +2.5 PPM
Operating Temperature	: 0°C to +60°C
Supply Voltage	: 6.0Vdc ±10%.
RF Power Output	: 3 W (MAX) for FWT-8100
	: 0.6 W (MAX) for FWT-8000
Dimensions (W x D x H)	: approx. 165 x 220 x 50mm
Transceiver	
	: approx. 50 x 205 x 30mm
Handset	
Weight	:
Transceiver	:
Handset	

* Subject to change without notice.

TABLE OF KEY OPERATIONS

Key Operation	Function
Phone Number+  + 	Store to Scratch Pad Memory
 +  +  /  + 	Selects ringer melody.
 + 	
	Turns on and off the DTMF tones.
 +  + 3Digit Code	
	Locks your phone electronically.
 +  + 	Displays system type
 +  + 	
	Switches Message Beep mode on and off.
 + 	
	Turns the Silent Alert mode on and off.

FNC + * + OPER 0 Rcvd SID _ _ _ _	Displays current receiving SID.
FNC + * + 1 Warn beep off	Turns the Call Time Warning Tone on and off.
FNC + * + ABC 2 + OPER 0 Function Call 0000	Displays the temporarily accumulated number of calls.
FNC + * + ABC 2 + 1 + 2 Digit Code o-C 0000	Displays the number of outgoing calls.
FNC + * + ABC 2 + ABC 2 + +2 Digit Code C-C 0000	Displays the Accumulated number of calls.
FNC + * + DEF 3 + OPER 0 AIR 0000:00 _m:s	Displays the Air time of last call.

FNC ✱ DEF 3 1 + 2 Digit Code o-A 0000:00 h:m	Displays the accumulated time of outgoing calls.
FNC ✱ DEF 3 ABC 2 C-A 0000:00 h:m	Displays the cumulative call time.
FNC ✱ CH 4 +3Digit Code+▲/▼ E-on 1234567	Changes one-touch emergency call phone number or turns emergency call mode on and off.
FNC ✱ MNO 6 Channel RSSI 11C -72	Displays the channel number and RSSI Level.
FNC ✱ PORS 7 + 3-digit code ▲/▼ STO Auto-redial on/off	
FNC ✱ TUV 8 Displays the preceding digits.	
FNC ✱ WXYZ 9 OPER 0 ▲/▼ earpiece vol 0	Displays the earpiece volume level

FNC + * + WXYZ 9 + 1 + ▲ /▼ ring vol 0	Adjusts the alert sound output volume level.
FNC + * + WXYZ 9 + ABC 2 + ▲ /▼ Key vol 0	Adjusts the loudspeaker output volume level for keypad tone.
FNC + * + WXYZ 9 + DEF 4 + ▲ /▼ monitor vol 0	Adjusts the monitor speaker output volume level.
FNC + # + 1 1234567890	Displays own telephone number.
FNC + # + ABC 2 ESN 12345678901	Displays the Electronic Serial Number (ESN).
FNC + # + DEF 3 Home SID 00001	Displays the Home System ID

FNC + # + JNL 5 + 1 Unlock P___	Changes your Unlock Code.
FNC + # + JNL 5 + DEF 3 Call Count P __	Changes your Call Counter Access Code.
FNC + # + JNL 5 + GH 4 Call Time P __	Changes your Call Timer Access Code.
FNC + # + PORS 7 + ▲/▼ + digits	Clock/date setup.
FNC + # + TUV 8 DTMF Long Off	Changes the Keypad Tone (DTMF) Duration in conversation.
FNC + RCL + ▲/▼	View last 20 Caller ID numbers.
CLR	Clears the last digit. If held in, erase the entire number from display.
Phone Number + STO + Memory Location Number	Store the telephone number in the memory.
Phone Number + STO + STO	Searches the vacant memory and stores the telephone number automatically.

Phone ▲/▼ + SEND	Number + STO +	Searches for a vacant memory address to store in, “SEND” to store.
RCL + # + OPER 0 WKY 9 ▲/▼/+ SEND	or	Displays the telephone number of ten latest calls, “SEND” to dial a number.
RCL + # + OPER 0 + SEND		Redials the last number dialed.
RCL + Memory Number	Location	Recalls the telephone number from the memory.
RCL + ▲/▼		Recalls telephone numbers in address order.
RCL + * + ▲/▼ or Memory Location Number + SEND		Sends the DTMF tones of the recalled number.
M1		In standby mode, holding M1 initiates a call to the number stored in One Touch Memory. During conversation, pressing switches the Mute mode on and off.
SEND		Receives the call when “CALL” is flashed in the display.
Phone Number + SEND		
IN USE 1234567		Processes the call.
MONITOR		
Speaker Off		Switches the monitor mode on and off.

END

Terminates the call.

12 MONTH LIMITED WARRANTY

AUDIOVOX COMMUNICATIONS CORPORATION (the Company), warrants to the original retail purchaser of this Audiovox Cellular Telephone, that should this product or any part there of (except the items listed below), under normal use and conditions, be proven defective in material or workmanship within the first twelve (12) month period from the date of purchase, such defect(s) will be repaired or replaced (with new or rebuilt parts) at the Company's option, without charge for parts or labor directly related to the defect(s).

The following items, if supplied, are similarly warranted from the date of purchase for 90 Days: Retractable antenna, transportable antenna, rechargeable battery, AC/DC adapter.

To obtain repairs or replacement within the terms of this Warranty, the product should be delivered with proof of warranty coverage, specification of defect(s), transportation prepaid, to the Company at the address shown below.

In the United States call toll free to (800) 229-1235 (in NY State and other areas, call (516) 233-3410).

This Warranty does not apply to fuses, or costs incurred for removal, reinstallation, testing, evaluation, or to any product or part thereof which has suffered through alteration, serial number defacement, improper installation, excessive temperature or humidity, environmental conditions, mishandling, misuse, neglect or accident. This Warranty is not assignable or transferable.

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 PAID BY PURCHASER FOR THE PRODUCT.

The Company disclaims liability for geographic coverage, inadequate signal to antenna, communications range or operation of the Cellular System as a whole.

ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 24 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER.

No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitation or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

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