WELCOME

Thank you for choosing the up-to-date CDM-8150X, our new model, developed by top researchers to support the IS-95C system through Qualcom-manufactured MSM510 chips and CDMA technologies. This product allows for high speed communication services, such as web browsing and data & fax service.

Available in the product, the T9 input mode makes it easier to enter letters. In addition, the VR(Voice Recognition) makes it more user friendly, with proven technologies as follows in detail.

- Full graphic display of 5 text input line and 1 icon line with variable font size.
- High capacity batteries allow for longer talk time. 330 hrs of standby time.
- Easier to dial through the VR feature.
- Easier to enter letters through the T9 text input mode.
- Multiligual (English and Spanish available)
- Enhanced for web browsing & data service (i.e. ; wireless internet access, wireless fax send/ receive, Phone.com, Up browser)

IMPORTANT INFORMATION

This CDM-8150X user guide contains very important information about how to handle and use this product. So please read this manual thoroughly and make sure that you don't drop , apply any physical impact on, and immerse the phone. And also pay attention to the warranty on the back page and be alert to the exclusions and limitations of your warranty, which are caused by unauthorized use of components.

TABLE OF CONTENT

CHAPTER 1. BEFORE USING YOUR PHONE 5
INSIDE THE PACKAGE 6
HANDSET DESCRIPTION 7
THE FUNCTION KEYS 8
DISPLAY INDICATORS 9
BATTERY USAGE 10
BATTERY INSTALLATION 10
BATTERY REMOVAL 10
BATTERY CHARGING 11
POWER CONNECTION 11
CHARGING THE BATTERY WITH THE HANDSET 11
CHARGING THE BATTERY ONLY 12
BATTERY LIFE (FOR NEW BATTERY) 12
BATTERY HANDLING INFORMATION 13
DO 13
DON'T 13

CHAPTER 2. BASIC OPERATION 15
TO TURN THE PHONE ON / OFF 16
TURNING THE PHONE ON 16
TURNING THE PHONE OFF 16
TO ACCESS THE MENU 17
MENU SUMMARY 18
BASIC FUNCTIONS 20
TO MAKE A CALL 20
PAUSE FEATURE 21
TO ANSWER A CALL 22
CALLER ID FUNCTION 22
CALL WAITING FUNCTION 23
MISSED CALL DISPLAY 23
TO ADJUST VOLUME 23
DURING A CALL 24
SENDING YOUR NUMBER TO A PAGER 24
SCRATCH PAD 24
MUTE 24
VIEW PHONE# 24
VOICE PRIVACY 24
TO MAKE AN EMERGENCY CALL 25
E911 IN LOCK MODE 25
E911 USING ANY AVAILABLE SYSTEM 25

CHAPTER 3. MEMORY FUNCTION 27
TO STORE A PHONE NUMBER 28
TO ENTER LETTERS, NUMBERS, AND SYMBOLS 29
STANDARD INPUT MODE 30
T9 INPUT MODE 31
NUMERIC MODE 31
SYMBOL MODE 32
TO MAKE A CALL THROUGH THE PHONEBOOK 33
ONE-TOUCH DIALING 33

CHAPTER 4. MENU FUNCTION 35
- PHONEBOOK 36
  - CALL LOGS 36
    - MISSED CALLS 36
    - ANSWERED CALLS 37
    - DIALED CALLS 37
  - RECALLING BY LOCATION 38
  - RECALLING BY NAME (ALPHA) 39
- SETTING 40
  - AUTO RETRY 40
    - RETRY TIME 40
    - REPEAT 40
  - AUTO ANSWER 40
  - ONE-TOUCH DIALING 41
  - VOICE PRIVACY 41
  - BACKLIGHT 41
  - LCD CONTRAST 42
  - LANGUAGE 42
  - WEB MENU 42
- TONE 43
  - RING MODE 43
  - RING TYPE 43
  - KEY BEEP 43
- TIMER 44
  - LAST CALL 44
  - ALL CALLS 44
  - HOME CALLS 44
  - ROAM CALLS 44
- SPECIAL 45
  - SCHEDULE 45
    - LIST ALL 45
    - INPUT SCHEDULE 45
    - PAUSE ALL SCHEDULE 45
  - STOPWATCH 46
  - CALCULATOR 46
  - BIO-RHYTHM 47
- ALERTS 48
  - MIN ALERT 48
  - ROAM ALERT 48
  - FADE ALERT 48
  - LOW SIGNAL ALERT 49
  - CONNECT ALERT 49
- DATA SERVICE 50
  - DATA SERVICE 50
    - RECEIVE MODE 50
    - FLOW CONTROL 50
    - CONNECT SPEED 51
- CHANGE SYSTEM 52
  - PREF SYSTEM 52
  - CHANGE NAM 52
  - AUTO NAM 53
  - PRL ID 53
  - FORCE ANALOG 53
- MY NUMBER 54
  - CHECKING MY NUMBER 54

Chapter 4

CHAPTER 5. SECURITY FEATURES 55
- TO LOCK YOUR PHONE 56
  - AUTO LOCK 56
- TO CHANGE YOUR CODE 57
  - CHANGE CODE 57
  - CHANGE BANNER 58
- TO RESTRICT YOUR PHONE 58
  - RESTRICT 58
    - INCOMING CALLS 59
    - OUTGOING CALLS 59
    - MEMORY 60
    - LONG DISTANCE CALLS 60
    - 900 #'S 61
- TO RESET YOUR PHONE 61
  - RESET 61
- TO CLEAR YOUR MEMORY 62
  - CLEARING THE PHONEBOOK 62
  - CLEARING SCHEDULES 62
  - CLEARING CALL LOGS 63
  - CLEARING HOME CALLS 63
  - CLR ROAM CALLS 64
- VERSION 64
  - VERSION 64

CHAPTER 6. VOICE MAIL AND TEXT MESSAGE 65
- WHEN A NEW MESSAGE ARRIVES, ...66
- VOICE MAIL 66
- SEND NEW 67
  - 1. SEND 67
  - 2. EDIT RECIPIENT 67
  - 3. EDIT MESSAGE 68
  - 4. PRIORITY 68
  - 5. CALL BACK 68
  - 6. SAVE 68
  - 7. DELIVERY ACK 68
- INBOX 69
  - 1. REPLY 69
  - 2. ERASE 69
  - 3. FORWARD 70
  - 4. SAVE 70
  - 5. SAVE ADDRESS 70
  - 6. LOCK 70
- OUTBOX 71
  - CHECKING SENT TEXT MESSAGES 71
    - 1. RESEND 71
    - 2. ERASE 71
    - 3. SEND TO 72
    - 4. SAVE 72
    - 5. STATE 72
- SETTINGS 73
  - SAVE SENT MESSAGES ? 73
  - DEFAULT CALL BACK NUMBER 73
  - MESSAGE ALERT 73
  - DELIVERY ACK 74

Chapter 6

TABLE OF CONTENT

AUTO ERASE....74
FILED....75
FILED....75
ERASE MESSAGES....76
ERASE MESSAGES....76

CHAPTER 7. WEB BROWSING....77
START INTERNET BROWSER....78
ACCESS THE INTERNET....78
BROWSER MENU....78
RELOAD....78
HOME....78
BOOKMARKS....79
MARK SITE....79
ABOUT PHONE.COM....79
ADVANCED....80
SHOW URL....80
HOMEPAGE....80
SET UP.LINK....80
OFFLINE SERVICES....81
OUTBOX....81
RESTART UP.BROWSER....82
ENCRYPTION....82

CHAPTER 8. SAFETY AND WARRANTY....83
SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES....84
SAFETY INFORMATION FOR FCC RF EXPOSURE....89
SAR INFORMATION....90
PROTECT YOUR WARRANTY....92
12 MONTH LIMITED WARRANTY....93

Chapter 1

BEFORE USING YOUR PHONE

This chapter describes what you have to know before using the phone. First of all, you have to make sure that you have all the items that are listed in the following page. Then, the chapter guides you through description of the handset, keypad arrangement, LCD display indication, and so on. Through easy to follow instructions, you also learn how to install, remove, and charge batteries as well as battery handling information. All the information helps make the phone your own.

INSIDE THE PACKAGE

CH 1

Welcome to our new model, CDM-8150. Please check out each item to make sure that you have all the items described below.

Handset

Desktop Charger

Standard Battery

User Manual

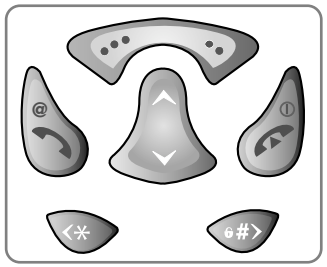
Handstrap

Please report to the place of purchase immediately when you find any item missing or wrong with it.

HANDSET DESCRIPTION

CH 1

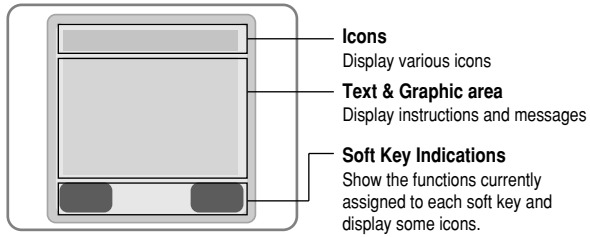
THE FUNCTION KEYS



Front Key

	To make or receive a call.
	To terminate a call or exit a current page, and turn the phone on/off.
	(Soft 1) To access the menu or function as shown in the bottom line of the display.
	(Soft 2) To access and review a voice or text message, and return to the previous page.
	Press and hold it to set up the Manner mode. where the keypad tone is off and the vibrator on as a ring mode.
	Press and hold it to set up the Lock mode.

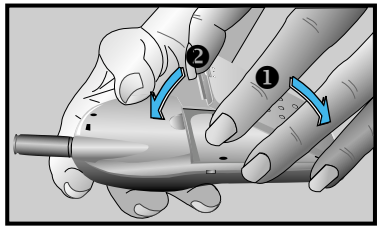
DISPLAY INDICATORS



	Signal Strength Indicates current signal strength. The more lines,the stronger signal.
R	**Roaming** Indicates the phone is out of its home area.
	Service Indicator indicates that a call is in progress, indicates the phone is in standby mode, and indicates the phone does not receive a signal from the system.
	Message Indicates a new text or voice message is waiting.
D	**Digital mode** Indicates the phone is operating in digital mode.
	Battery Indicates the battery charging level. The more blocks, the greater charging level.
M	**Mute** Indicates the phone is mute during a call.
S	**Scratchpad** Appears when scratchpad is in use during a call.
E	**Emergency Call** Blinks when an emergency call is in progress.

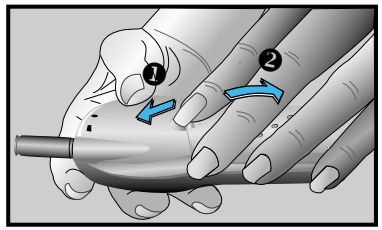
BATTERY INSTALLATION

1 ❶ Place the battery on the back of the handset and slide it down into place. ❷ Push the battery down until it locks into place.



BATTERY REMOVAL

1 ❶ Pull down the release latch and lift the upper part of battery, and ❷ remove the battery from the handset.



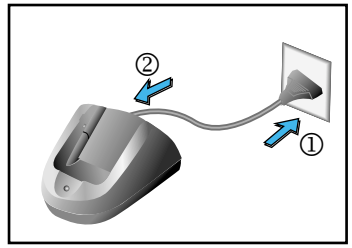
NOTE

The battery should be in place lest it should slip out of place during a call. Please turn the phone off before removing the battery unless you want to lose any unsaved feature or message.

BATTERY CHARGING

POWER CONNECTION

1 Plug the desktop charger to the standard AC 120V outlet as below.



CHARGING THE BATTERY WITH THE HANDSET

1 Charge the battery, being attached to the handset.

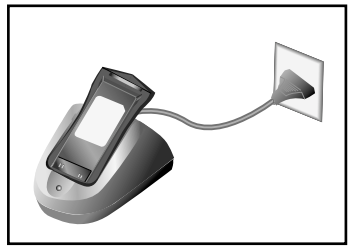
NOTE

- It is less efficient for complete charging to charge the battery with the phone turned on than with the phone off.
- Please check the power connection or the placement of either handset or battery into the desktop charger when the red LED is not on.

CHARGING THE BATTERY ONLY

1 Charge the battery, being detached from the handset.

- The red LED indicates charging is in progress.
- The green LED indicates charging is complete.



NOTE Please make sure to charge the battery fully before use because it is not charged when purchased.

BATTERY LIFE (FOR NEW BATTERY)

The operating time is subject to your handset usage and configuration.

Type / Status	Standard Battery *(1000 mAh)*
Talk (min)	240
Stand by (hrs)	180

DO

- Use only the battery and charger approved by the manufacturer.
- Use the battery only for its intended purpose.
- Keep the battery in the temp between 41°F and 95°F .
- Allow the battery to warm up and cool down after being stored in extreme temps, so that the phone could work properly.
- Fully discharge the battery before recharging. A fully charged battery may completely drain in 1 to 4 weeks.
- Store the battery discharged in a cool, dark, and dry place.
- Purchase a new one when its operating time is getting shorter after hundred times of recharging.
- Dispose of the battery in accordance with local regulation, or recycle it.

DON'T

- Don 't attempt to disassemble the battery, a sealed unit with no serviceable parts.
- Don 't use a charger or a battery that is damaged or worn out.
- Don 't short-circuit the battery. Accidental short-circuiting could result in critical damage to the battery. It occurs when you carry the battery with metallic objects such as coins, clips and pens in your pocket or wallet.
- Don 't leave the battery in hot or cold temps. Otherwise, it could reduce the capacity and lifetime of the battery.
- Don 't dispose of the battery in a fire.

MEMO

Chapter 2

BASIC OPERATION

In this chapter, you go over the basics of the most common features of your phone. With each given instruction, you get more familiarized with the basic features, each of which helps you utilize the more advanced features to be described in the following chapters. Please take a few moments to know the basics of your phone.

TO TURN THE PHONE ON / OFF

TURNING THE PHONE ON

1 Press and hold [ ], until the logo appears and the tone sounds.

- Enter the 4 digit lock code to unlock your phone when “Password ” appears on the display.
- The default lock code is the last 4 digits of your phone number.

TURNING THE PHONE OFF

1 Press and hold [ ], until “Power off” is displayed.

NOTE

- Change or recharge the battery immediately when “Low Battery Warning Power Off ”appears on the display because there is a possibility to damage the memory when the phone is forced to be turned off.
- The removal of battery when the phone is on could give rise to a data loss of last call.

TO ACCESS THE MENU

The menu enables you to customize your phone through various functions. You can access each function by scrolling through with the navigation key or pressing it’s corresponding number of a menu or an item, etc.

1 In the standby mode, press [ ] to access the menu.

2 Use the navigation key or the volume buttons to scroll through the menu.

3 Press [ ] to return to the previous page.
Press [ ] to exit the current menu.

4 Select an item with the navigation key when it is highlighted.
Or press its corresponding number with the digit keys.

5 Navigation key enable you to scroll through the menu.

1 : PHONE BOOK	1 : CALL LOGS	1 : MISSED CALL 2 : ANSWERED CALL 3 : DIALED CALL
	2 : BY LOCATION	
	3 : BY NAME	
2 : SETTING	1 : AUTO RETRY	1 : RETRY TIME 2 : REPEAT
	2 : AUTO ANSWER	
	3 : ONE-TOUCH	
	4 : VOICE PRIVACY	
	5 : BACKLIGHT	
	6 : LCD CONTRAST	
	7 : LANGUAGE	
	8 : WEB MENU	1 : WEB IDLE TIME 2 : UP PROXY IP
3 : TONE	1 : RING MODE	
	2 : RING TYPE	
	3 : KEY BEEP	
4 : TIMER	1 : LAST CALL	
	2 : ALL CALLS	
	3 : HOME CALLS	
	4 : ROAM CALLS	
5 : SPECIAL	1 : SCHEDULE	1 : LIST ALL 2 : INPUT SCHEDULE 3 : PAUSE ALL
	2 : STOPWATCH	
	3 : CALCULATOR	
	4 : BIORHYTHM	1 : TODAY 2 : SOMEDAY 3 : BIRTHDAY

6 : ALERTS	1 : MIN ALERT	
	2 : ROAM ALERT	
	3 : FADE ALERT	
	4 : LOW SIG ALERT	
	5 : CONNECT ALERT	
7 : DATA SERVICE	1 : RECEIVE MODE	
	2 : FLOW CONTROL	
	3 : CONNECT SPEED	
8 : CHANGE SYSTEM	1 : PREF SYSTEM	
	2 : CHANGE NAM	
	3 : AUTO NAM	
	4 : PRL ID	
	5 : FORCE ANALOG	
9 : MY NUMBER		
0 : SECURITY	1 : AUTO LOCK	
	2 : CHANGE CODE	
	3 : CHANGE BANNER	
	4 : RESTRICT	1 : INCOMING 2 : OUTGOING 3 : MEMORY 4 : LONG DISTANCE 5 : 900# ' S
	5 : RESET	
	6 : CLEAR	1 : CLR PHONEBOOK 2 : CLR SCHEDULE 3 : CLR CALL LOGS 4 : CLR HOME CALLS 5 : CLR ROAM CALLS
	7 : VERSION	

TO MAKE A CALL

1 Enter a phone number.

NOTE

To modify the phone number you have entered :

- Press [ ] to erase the entire number and start over.

2 Press [ ].
The indicator, , appears on the display

NOTE

- Press [ ] and [ ] to redial when “CALL FAILED” appears on the display or the line is busy.
- If you activate the AUTO RETRY function, a call will be retried automatically the times you have selected. (refer to page 42)

3 Press [ ] to end the call.

PAUSE FEATURE

You can dial or save a phone number with pauses for use in the automated systems where you need to enter a creditcard number, a social security number, and so on. This feature will be convenient when you are linked to ARS (Advanced Record System)

1 Enter a phone number, then press [ ].

2 Select one desired pause.

In standby mode	*In receiving mode*
1 : STORE	1 : SEND PHONE#
2 : BY NUMBER	2 : SCRATCH PAD
3 : HARD PAUSE	3 : MUTE
4 : ONE HYPHEN	4 : VIEW PHONE#
	5 : VOICE PRIVACY

(Refer to page 25 for more details)

NOTE

Pause Definitions

- To dial or save a phone number with pauses:
  When you select Hard Pause,the next numbers are sent by pressing [ ] key.

3 Press [ ] to dial or [ ] to store.

Please refer to page 30 for more details about storing a phone number.

TO ANSWER A CALL

1. When the phone rings, press either send key, digit keys, or soft keys to answer the call.

2. Press [ ] to end the call.

NOTE
A call is automatically answered after the preset number of ring tones, when Auto Answer is activated.
Please refer to page 36 for more details.

CALLER ID FUNCTION

This function allows you to know who is calling by displaying the caller 's phone number with name,if available, in the phonebook.

NOTE
The caller ID is stored in the call log.

CALL WAITING FUNCTION

This function notifies you of another incoming call when you are on a call by sounding a beep with the caller 's phone number displayed on the screen.

1. Press [ ] when you have another call, which puts the first caller on hold and answers the second call.
   Press [ ] again to switch back to the first caller.

MISSED CALL DISPLAY

1. Displays the number of missed calls along with the time of last missed call.

Press [ ] or [ ] to clear up the missed call display.

TO ADJUST VOLUME

You can adjust volume in either way, through the menu entry or the navigation button.

1. Below follows the volume control in each mode through the navigation buttons.

- During a call : Earpiece volume
- When the phone rings : Ringer volume
- In hands-free car kit : Kit volume.(Press [ ] to mute the ringer when the phone rings)

DURING A CALL

SENDING YOUR NUMBER TO A PAGER

This function enables your phone number to be transmitted automatically to a pager during a call without entering the number. It depends on a pager service available in your area.

1. While connected to a pager and asked to enter your phone number, press .

SCRATCH PAD

This function allows you to store a new phone number during a call while keeping the calling party from hearing the keypad tone.

1. While on a call, press .
2. Enter a phone number, press [ ], then save the phone number in the phonebook. (refer to page 30)

MUTE

The caller cannot hear you and any noise on your side, while you still hear his or her voice.

1. Press .

- To unmute, press [ ].

VIEW PHONE#

This function allows you to view your phone number during a call. In 5 minutes, it will automatically return to the receiving mode.

VOICE PRIVACY

With this function on, you can enhance voice privacy during a call.

TO MAKE AN EMERGENCY CALL

This is the enhanced 911 feature that puts your phone on the Emergency Call Mode when you dial the preprogrammed emergency number, 911. This function is still enabled even in the lock mode and out of service area.

E911 IN LOCK MODE

The 911 call service is still available even in the lock mode.

1. Enter “911” and press [ ].

2. The call connects.
3. The phone exits the Emergency Mode in 5 minutes.

When the call ends, the phone returns to the Emergency Mode.

E911 USING ANY AVAILABLE SYSTEM

1. Enter “911” and press [ ].
2. The call connects.
3. The phone exits the Emergency Mode in 5 minutes.

- When the call ends, the phone returns to the emergency mode.
- The phone continuously attempts to receive service from any available system.

Chapter 3

MEMORY FUNCTION

The phone has a memory function that enables you to store a large number of phone numbers, e-mail addresses.
You can, under one name, save up to 3 different numbers, mobile/home/office, and make them secret for enhanced privacy.
In this chapter, you take a thorough lesson on ways to enter letters, numbers and symbols, which will make it convenient to use the memory function.

TO STORE A PHONE NUMBER

You can store up to 100 phone numbers in the phonebook.

1 Enter a phone number (more than 3 digits) you want to store and press [ ] and [ ].

2 The first available location number is displayed. Press [ ] to store.

- Enter the location number if you have a specific location number in mind or when you add another phone number to the location already put to use.
- "XX LOCATION IS USED" indicates that the location number already has a stored phone number.
- Press [ ] to accept the existing name in the location number.

3 Enter a name with digit keys (refer to page 31).

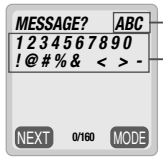
4 Select one of the phone types; mobile/home/office and press [ ].

5 Select "No "unless you want to make it secret and enter the lock code whenever you need to view the number and press [ ].

TO ENTER LETTERS, NUMBERS, AND SYMBOLS

The input mode will be automatically activated when necessary to enter letters and numbers. As shown below, there are 4 available modes ; Standard input mode(abc), T9 input mode(T9abc), Numeric mode(123), and symbol mode.

The input mode indicator will appear on the upper right of the display when you need to enter letters and numbers.
press [ ] to select the required input mode among the above 4 different modes, then enter letters and numbers you want.



Text input mode indicator
ABC : ABC mode
123 : Number mode
: T9 mode

Symbolic mode

The following table shows how you can utilize the available functions with each assigned key.

KEY	*FUNCTION*
Mode	Press to change the modes. [T9Abc][Abc][123][Symbol mode]
[0] Next	Press to view the next matching word if the highlighted word is not the word you intended.
[#] Space	Press once to accept a word and add a space.
[*] Shift	Press to select a letter case of the standard text input or T9 text input mode. [Abc], [ABC], and [abc] indicate the standard text input. [T9Abc], [T9ABC], and [T9abc] indicate the predictive text input.
Clear	Press once to delete a character to the left of the cursor.
Left, Right	To move the cursor.

STANDARD INPUT MODE

The standard input mode allows you to enter letters, using a digit keys repeatedly.

1 Input the letters you want to enter, using the keypad as follows.

Keypad	1 Repetitions	2 Repetitions	3 Repetitions	4 Repetitions	5 Repetitions
1	1	.	@	-	1
2ABC	A	B	C	2	A
3DEF	D	E	F	3	D
4GHI	G	H	I	4	G
:	:	:	:	:	:
9WXYZ	W	X	Y	Z	9

You can change the input mode by pressing [ ]

2 Press [ ] to add a blank.
The cursor automatically moves to the next column in two seconds.

3 Repeat until you enter all the letters you want.There is a 16-digit limit in the Name entry of the phonebook

4 Erasing letters
Press [ ] to delete one digit.
Press and hold [ ] to delete the entire number.

e.g.

Select Abc mode, by pressing [ ].
When you select this mode, the abc icon appears as a visual confirmation.
- "Find the key that corresponds to the letter you want to enter."
- Press it as many times as needed for the letter to appear on the screen.
- To enter the name "John":

Press [ ]	*J*
Press [ ]	*o*
Press [ ]	*h*
Press [ ]	*n*

e.g.

To write "phonebook" in the T9 input mode.

- Press [ ] to select the T9 input mode and [ ] to choose the small letter case (T9abc).

- Press [ ] and you will see "phone" highlighted. Press [ ] to move to the next matching word and [ ] to determone it.

- Press [ ] and you will see "book" highlighted. Press [ ] to move to the next matching word and [ ] to determine the compound word and add a space.

NUMERIC MODE

This mode allows you to enter numbers.

1 Press [ ] until a current input mode changes to the Numeric mode.

2 Press a digit key to enter a number.

SYMBOL MODE

This mode allows you to enter symbols.

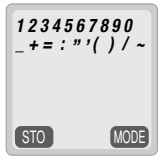
1 Press [ ] until the symbol mode is on.

2 Press the number above the symbol you want to enter.

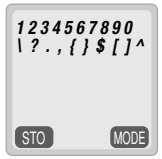
- Use the navigation key to view a different line of symbols.

Press [ ],

Press [ ],



Press [ ],



ONE-TOUCH DIALING

The function allows you to dial a phone number (simply) by pressing its location number in the phonebook.

00~99 : Press and hold a location number of the phonebook number until a call is made successfully.

NOTE

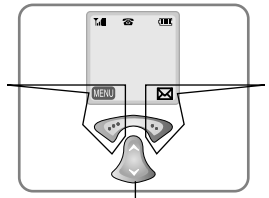
- "Empty Location "will be displayed when there is no available phone number in the location.
- The phone number won 't be displayed when it is made secret.
- You can also make a call by pressing a location number and [ ].

Chapter 4

MENU FUNCTION

In this chapter you will learn how to access the menu and enable each function and feature to customize your phone. Each function will be accessed through the menu and described in easy-to-follow instructions. This chapter will guide you to better understanding of upgraded functions and features, which will maximize the effective use of the state-of-the-art technologies. Hopefully it will make you feel much closer to this model.

You can access the menu via [ ] in the standby mode. Once you entered the menu, both [ ] and [ ] function as shown in the bottom line of the display.



Press [ ] in the standby mode to access menu function.

Press [ ] in the standby mode to access voice and text messages.

Press [▲] and [▼] to directly access the phonebook

CALL LOGS

The function allows you to review information of the 10 recently missed, answered, and dialed numbers and place a call simply by pressing [ ].

MISSED CALLS

1. Press [ ].

2. Press [ ] to view the detail of a missed call when its number is highlighted.

NOTE: The detail includes date, time, and phone number of missed calls.

3. Use the navigation key to scroll through the 10 missed calls.
4. Press [ ] to dial the phone number of the missed call when selected.

ANSWERED CALLS

1. Press [ ].

2. Press [ ] to view the digital of an answered call when it's number is highlighted.
3. Press [ ] to dial the phone number of the answered call when selected.

NOTE: The detail includes date, time, and phone number of answered calls.

DIALED CALLS

1. Press [ ].

2. Press [ ] to view the digital of a dialed call.
3. Press [ ] to dial the phone number of the dialed call when selected.

NOTE: The detail includes date, time, and phone numbers of dialed calls.

RECALLING BY LOCATION

This function allows you to recall a number from the phonebook by pressing its location number.

1. Press [ ].

2. Enter a location number.

NOTE: Use the navigation key instead of entering a location number to search through, and press [ ] to view the detail.

3. Search a phone number with the navigation key.

- [ ] scrolls through the phonebook
- [ ] edits the phone#.
- [ ] returns to the previous page.
- [ ] erases the number.

4. Press [ ] to dial the phone number when selected.

RECALLING BY NAME (ALPHA)

The function allows you to retrieve the phonebook by name or its character string and simply make a call by pressing [ ].

1. Press [ ].

2. Enter a name or its character string and press [ ] to sort out and display the searched names in an alphabetical order regardless of letter case.

3. Search the name you want to make a call to and locate a phone number using the navigation key.

- [ ] scrolls through the phonebook
- [ ] edits the phone#.
- [ ] returns to the previous page.
- [ ] Erases the number.

4. Press [ ] to dial the number you search.

AUTO RETRY

With this function on, a call is automatically retried either once, 3, or 5 times after a set time period.

RETRY TIME

1. Press [2ABC 1 1].
2. Select one of the options (Off,10,7,5,3 seconds) with the navigation key.
   And press [ ] to save it.

REPEAT

1. Press [2ABC 1 2ABC].
2. Select one of the options (1 time,3 times,5 times) with the navigation key.
   And press [ ] to save it.

AUTO ANSWER

A call is automatically answered after the certain number of rings you set. It will be convenient when you have your phone in the hands-free car kit.

1. Press [2ABC 2ABC].

2. Select one from Off/1 ring/3 rings with the navigation key. Press [ ] to save it.

NOTE
This function won 't be activated when you select Slide bell or Silent as a ring mode.

ONE-TOUCH DIALING

This function allows you to dial a phone number with one touch pressing its location number.

1. Press [2ABC 3DEF].
2. Select “Yes ”or “No ”with the navigation key.
   And press [ ] to save it.

VOICE PRIVACY

This function allows you to enhance voice privacy and keep from tapping during a call.

1. Press [2ABC 4GHI].
2. Select either “Standard mode” or “Enhanced mode”, if available. And press [ ] to save it.

BACKLIGHT

The display and the keypad can be back lighted for you to view the screen and recognize the keypad arrangement more easily even in a dark place.

1. Press [2ABC 5JKL].
2. Select one of the following options;Off, 10 sec, 20 sec, 30 sec, Off in day.
   And press [ ] to save it.

- Off : Turn the backlight off.
- 10 sec, 20 sec, 30 sec : Backlight on for 10, 20, or 30seconds respectively after a touch on the keypad.
- Off in day : Always off in a daytime.

LCD CONTRAST

The LCD display contrast can be controlled in 7 levels.

1. Press [2 6].
2. Adjust the LCD contrast for your better view and press [ ]to save it.

LANGUAGE

This function permits you to select a language in which a letter is displayed on the screen.

1. Press [2 7].
2. Select either “English ”or “Spanish ”and, then, press [ ] to save it.

WEB MENU

This function permits you to adjust or change the setting for web browsing.

WEB IDLE TIME

This function disconnects your phone from a network when there is no key input for a certain time period.

1. Press [2 8 1]. Set the web idle timer.
2. Use the navigation key to set the web idle timer or press digit keys to enter the time on your own

UP PROXY IP

The phone can have up to 4 sets of the server IP(Internet Protocal) addresses and Port numbers to access your service provider’s website. These may already be preset or be advised by your service provider. Please be noted that any change to these settings may disable the Web access capability.

RING MODE

This function alerts you of an incoming call in various modes as follows.

1. Press [3 1].
2. Select one of the following options with the navigation key.
   - Ringer
   - Slide bell : The bell volumes up in 5 steps.
   - Silent
3. Press [ ].

RING TYPE

You are to choose a ring type to inform yourself of an incoming call.

1. Press [3 2].
2. Select one ring type that best fits your favor.There are 13 different types available.
   - Different tones (1-6).
   - Different melodies (7-13).
3. Press [ ].

KEY BEEP

This function enables you to control the keypad tone.

1. Press [3 3] to adjust the keypad volume.

The keypad tone won’t be heard when you have an alert for low battery.

2. Adjust the keypad tone through the navigation key.
3. Press [ ].

TIMER

This function helps you to check the talk time and manage your calling within your financial limit.There are 4 timers available in the phone.

LAST CALL

The talk time of last call is displayed.

1 Press [ ].

ALL CALLS

The talk time of all incoming and outgoing calls is displayed, web access calls excluded.

1 Press [ ].

HOME CALLS

The talk time of all calls made within Home area is displayed.

1 Press [ ].

ROAM CALLS

The talk time of roaming calls is displayed.

1 Press [ ].

SPECIAL

SCHEDULE

This function helps organize your schedule and remind you of each schedule when it is due.

LIST ALL

The function enables you to list and view all the schedules you input.

1 Press [ ].
By pressing [ ], you can view more details about each schedule.

INPUT SCHEDULE

The function allows you to input your schedule and set up its alarm.

1 Press [ ].

2 Select a date in the calendar and press [ ].

[ ] / [ ] - month input.
[ ] / [ ], numeric key - day input.

3 Select one of the following options.

Alarm type : Press and select “one time ”or “daily ”
Schedule title : Press and input a schedule title
Phone number : Press input a phone number and reserve a call.

4 Then press [ ].

PAUSE ALL SCHEDULE

The function puts all your schedules on hold.

1 Press [ ].

2 Select “Yes” or “No” with the navigation key and press [ ].

STOPWATCH

This function enables you to measure a time period.

1 Press [ ].

2 Press [ ] /[ ] to use the stopwatch.

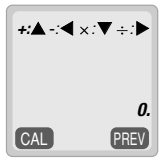
> Press [ ] to start or stop.
> Press [ ] for Split/Split Release /Initial/Previous.
> The time unit is displayed in a 100th of a second.

3 press [ ] to exit and return to the initial display.

CALCULATOR

This function enables you to add, subtract, multiply and divide.

1 Press [ ].



2 Using the calculator.

> Definitions
> + : [▲], - : [◀], ×: [▼], ÷ :[▶]
> You can enter up to 8 integer digits.
> There is no way to enter a decimal point.
> To express a negative number, you subtract its absolute value from 0.

e.g.

To calculate 128 × 32 =

1. Enter 128
2. Press[▼]
3. Enter 32
4. Press [ ] to calculate it.

BIO-RHYTHM

This function informs you of your physical,emotional and intelligent condition for today or some day. Please make sure to input your birthday before you use this function.

1 Press [ ].

2 Press [ ].
Enter your birthday in year/ month/ day, and, then, press [ ].

3 Select “Today” to check out your biorhythm for today or “Someday” to check out your biorhythm for a specific day.

> - The biorhythm functions only when the phone can synchronize with the network system.
> - You cannot enter a date ealier than your birthday to check out the biorhythm for the specific date.
> - You cannot enter your birthday later than today, either.

NOTE

- **What is the biorhythm?**
  Biorhythm is a life rhythm that consists of three rhythm curves,each of which is a physical,emotional and intelligent one.The rhythm will match up to yourcondition from birth to death.
- **How does it work?**
  You will see a physical,emotional,and intelligent quotient with a number indicating how many days have passed from birth to date.
  The biorhythm is displayed on the upper portion of the screen.

① **Physical rhythm**
The physical rhythm controls your physical condition in a cycle of 23 days,such as resistance to diseases, muscle strength, agility, speed, physiology, and so on.

② **Emotional rhythm.**
The emotional rhythm manages creativity,sensitivity,recognition and human nature in a cycle of 28 days.

③ **Intelligent rhythm.**
The intelligent rhythm affects our susceptibility to fright, acceptance of knowledge, logical and analytic power, and memory in a cycle of 33 days.

MIN ALERT

With this function on, the phone sounds an alert every minute to keep you aware of the time passage while you are on a call.

1. Press [* 6 1].
2. Select “OFF”or “ON” with the navigation key and press [*] to save it.

ROAM ALERT

This function alerts you when you go in and out of a service area and enter a roaming service area.

1. Press [* 6 2].
2. Select “OFF”or “ON” with the navigation key and press [*] to save it.

FADE ALERT

This function sounds an alert when you enter an area in which you cannot make a call due to poor signal strength.The alert sounds in standby mode.

1. Press [* 6 3].
2. Select “OFF”or “ON” with the navigation key and press [*] to save it.

LOW SIGNAL ALERT

This function sounds an alert when you have weak signal strength during a call.

1. Press [* 6 4].
2. Select “OFF”or “ON” with the navigation key and press [*] to save it.

CONNECT ALERT

This function notifies you in different types that you have made a call successfully.

1. Press [* 6 5].
2. Select one of the following options(OFF,LOW, MID, HIGH) with the navigation key.
   Press [*] to save it.

- OFF : Alert Off
- LOW : Calm Alert
- MID : Moderate Alert
- High : Loud Alert

The phone, CDM8150X, allows for data service and voice recognition with various enhanced features.

DATA SERVICE

RECEIVE MODE

You are to set the receive mode lest the phone should function as a wireless modem or fax improperly when connected to a PC.

1 Press [7 1 1].

2 Select one from INACTIVE/ DATA/FAX with the navigation key and press [ ].

- INACTIVE : In use of the phone
- DATA : For use of data
- FAX : In use of a fax

FLOW CONTROL

This function allows you to control data flow when you receive data service.

1 Press [7 1 2].

2 Select either “HARDWARE”or “SOFTWARE” with the navigation key and press [ ] to save it.

- HARDWARE : Hardware flow control
- SOFTWARE : Software flow control
- (RECOMMEND : Hardware flow control)

CONNECT SPEED

This function controls the transmission speed between a phone and a PC.

1 Press [7 1 3].

2 Select one from 19200/ 11520/ 230400 bps with the navigation key and press [ ] to save it.

PREF SYSTEM

This is a function to select the Preferred System.

1 Press [8 1].

2 Select one of the following options with the navigation key and press [ ].

Auto A : Scan the radio channels based on the Automatic A setting.
Auto B : Scan the radio channels based on the Automatic B setting.
Home only : Only within your home area or home affiliated area.

CHANGE NAM

The function enables you to change the NAM (Number Assignment Modules)being used by your phone when you have multiple registrations.

1 Press [8 2].

2 Select a NAM(NAM1,NAM2) with the keys of [*] or [#] and press [ ].

AUTO NAM

The function allows your phone switch to the proper NAM for the area where you are, when you have multiple NAM registrations.

1 Press [8 3].

2 Select “Yes” or “No”, then press [ ] to save it.

PRL ID

The function permits you to view the PRL(Preferred Roaming List) version that is programmed in your phone.

1 Press [8 4].

FORCE ANALOG

The function temporarily forces your phone to use Analogue mode. The mode automatically ends after 10 minutes.

1 Press [8 5].

CHECKING MY NUMBER

This function shows you the phone number of your phone.

1 Press [ ], [9].

Chapter 5

SECURITY FEATURES

The chapter will show you the ways to impose various kinds of restrictions on outgoing calls to keep from unintended use by others. You will also learn to put restrictions on the features. The inadvertent use could result in much loss of data in your phonebook and give rise to unwanted changes to your customized features.

TO LOCK YOUR PHONE

AUTO LOCK

The function prevents others from using your phone without permission. You can not dial a number and access the menu when it is locked.

1 Press [ ] and enter "password". Then, press [ ].

NOTE: The default password is the last 4 digits of your phone number.

2 Select one of the following options with the navigation key and press [ ].

"POWER ON" : Lock your phone whenever it is turned on.

"OFF" : Unlock your phone and leave it unlocked.
"ON" : Lock your phone as it is.

NOTE: You can place an emergency call, receive an incoming call and enable an alarm even when your phone is locked.

CH 5

TO CHANGE YOUR CODE

CHANGE CODE

This function is used to change the 4-digit lock code.
The lock code enables you to have access to various features.

1 Press [ ] and enter "password". Then, press [ ].

NOTE: The default password is the last 4 digits of your phone number.

2 Enter a new password and press [ ].

3 Enter the new password again and press [ ].

CH 5

TO CHANGE YOUR BANNER

CHANGE BANNER

The function allows you to change the banner on the screen.
The banner can be 16 digits long or less.

1. Press [ ] and enter "password".
   Then, press [ ].

2. Select a input mode, using [ ].

   (Please refer to page 31 for more details on entering letters and numbers.)

3. Enter a new banner to fit your taste and press [ ].

TO RESTRICT YOUR PHONE

RESTRICT

The function enables you to keep from unauthorized use of the phone and change of its setting. There are 5 different restriction modes as follows.

1. Press [ ] and enter "password".
   Then, press [ ].

NOTE: The default password is the last 4 digits of your phone number.

2. Select "Yes "to enable the restriction with the navigation key and press [ ].

TO RESTRICT YOUR PHONE

INCOMING CALLS

With this function on, your phone cannot receive an incoming call while an outgoing call can still be made.

1. Press [ ] and enter "password", then [ ].
   Select "Yes" and press [ ]

2. Select "Allow "or "Restrict "with the navigation key.

   RESTRICT : Restrict an incoming call.
   ALLOW : Allow an incoming call.

3. Press [ ].

OUTGOING CALLS

With this function on,you cannot make any outgoing calls except an emergency call while you still can answer incoming calls.

1. Press [ ] and enter "password", then [ ].
   Select "Yes" and press [ ]

2. Select "Allow "or "Restrict "with the navigation key.

   RESTRICT : Restrict an outgoing call.
   ALLOW : Allow an outgoing call.

3. Press [ ].

MEMORY

This function keeps from accessing your phonebook and adding changes to your phonebook.

1. Press [ ] and enter "password", then [ ]. Select "Yes" and press [ ]

NOTE: The default password is the last 4 digits of your phone number.

2. Select "Allow "or "Restrict "with the navigation key.

   RESTRICT : Restrict an access to the phonebook.
   ALLOW : Allow an access to the phonebook.

3. Press [ ].

LONG DISTANCE CALLS

This function restricts use of long distance calls so, the phone is limited to the use of callings within an area.

1. Press [ ] and enter "password", then [ ]. Select "Yes" and press [ ]

2. Select "Allow "or "Restrict "with the navigation key.

   RESTRICT : Restrict a long distance call.
   ALLOW : Allow a long distance call.

3. Press [ ].

900 #'S

This function keeps your phone out of 900-dial service.

1. Press [ ] and enter "password", then [ ]. Select "Yes" and press [ ]

2. Select "Allow "or "Restrict "with the navigation key.

   RESTRICT : Restrict a 900-dial service.
   ALLOW : Allow a 900-dial service.

3. Press [ ].

NOTE: You will see "This phone is restricted" on the display when you make a restricted call.

TO RESET YOUR PHONE

RESET

This function allows you to reset your phone to the default.

1. Press [ ] and [ ]. Enter [PASSWORD] and press [5].

2. Select "Yes "or "No " with the navigation key. Press [ ].

   When you select "Yes", you will see "Reset "on the display and your phone turning to the standby mode.

CLEARING THE PHONEBOOK

This function clears up all the phonebook entries.

1 Press [ ] and enter “password”. Then press [ ].

NOTE The default password is the last 4 digits of your phone number.

2 Select “Yes ”or “No ”with the navigation key. Press [ ].

CLEARING SCHEDULES

This function clears the schedules.

1 Press [ ] and enter “password”. Then press [ ].

NOTE The default password is the last 4 digits of your phone number.

2 Select “Yes ”or “No ”with the navigation key. Press [ ].

CLEARING CALL LOGS

This function clears up all the dialed numbers in the call logs.

1 Press [ ] and enter “password”. Then press [ ].

NOTE The default password is the last 4 digits of your phone number.

2 Select “Yes ”or “No ”with the navigation key. Press [ ].

CLEARING HOME CALLS

This function clears up the airtime used for home calls.

1 Press [ ] and enter “password”. Then press [ ].

NOTE The default password is the last 4 digits of your phone number.

2 Select “Yes ”or “No ”with the navigation key. Press [ ].

TO CLEAR YOUR MEMORY

CLR ROAM CALLS

This function clears up the airtime used for roaming calls.

1 Press [ ] and enter “password”. Then, press [ ].

NOTE The default password is the last 4 digits of your phone number.

2 Select “Yes ”or “No ”with the navigation key. Press [ ].

CH 5

VERSION

VERSION

This function permits you to view the version of your phone.

1 Press [ ] and enter “password”. Then, press [ ].

NOTE The default password is the last 4 digits of your phone number.

Chapter 6

VOICE MAIL AND TEXT MESSAGE

This chapter describes a function that sends and receives text messages and supports voice mail notification.The function is helping you stay connected all the time even when you are not available.You will go through all the messaging features available on your phone.

CH 6

WHEN A NEW MESSAGE ARRIVES,

1. The following display appears when a new message arrives.

2. Press [ ] to display the received message.

VOICE MAIL

This function allows you to view how many voice mails you've got and listen to each of the voice mails simply by pressing[ ].

1. Press [ ].

   The screen displays the number of new voice mails in your voice mailbox.

   Press [ ] to access your voice mailbox.

CH 6

SEND NEW

Please follow these steps to send a new message. Through the steps, you could learn each feature about how to send the messsage in more detail.

1. Press [ ].

2. Input a phone number and press [ ].

3. Input a text message and press [ ].

   (Please refer to page 31 for more details on entering letters and numbers.)

1. SEND

This helps you to send the message you just writes

1. Press [ ] to send the text message.

   Press [ ] to choose the Auto Retry when you fails in sending a message and see the message, "Delivery Failed Retry in 3 mins?".

2. EDIT RECIPIENT

This helps you to edit the recipient. Please select this in case you input a wrong number.

1. press [ ] to change the recipient.
2. Input a new phone number, and press [ ].

3. Input a new text message, and press [ ].
4. Then, press [ ] to send the message.

CH 6

3. EDIT MESSAGE

This permits you to edit the message; change, add and delete.

1. Press [3] to change the text message.
2. Input a new text message, and press [ ].

4. PRIORITY

When you send an urgent message, please use this to notify the recipient of an urgency of your message.

1. Press [4] to send an urgent message. And select “Normal” or “Urgent”with the navigation key and press [ ].

5. CALL BACK

Please edit the call back number when you want the recipient to call you back at a specific number. The default is the phone number your phone uses now.

1. Press [5] to change the call back number.
2. Input a call back number and press [ ].

6. SAVE

This allows you to save the message for you to send later on.

1. Press [6] to save the text message.

7. DELIVERY ACK

With this feature on, you could confirm whether your message is delivered successfully or not.

1. Press [7] to confirm that your message is delivered. Select “Yes”or “No”with the navigation key.
2. Press [ ]

This allows you to manage received text messages; Reply, Erase, Forward, Save address, and Lock.

1. Press [ ] and, [3].

: Urgent New Msg
: New Msg (unread)
: Old Msg (read)
: Lock (read)

2. Select a message and press [ ]. The message is displayed.

3. Then press [ ].

1. REPLY

1. Press [1] to reply to the text message.
2. Write your reply and press [ ].

2. ERASE

1. Press [2] to erase the text message
2. press [ ] when you see “Erase This Message?”

3. FORWARD

1 Press [3] to forward the text message. Input a phone number and a text message.

4. SAVE

1 Press [4] to save the received text message in the "Filed" Folder.

5. SAVE ADDRESS

1 Press [5] to save the call back number of the message into the phonebook.

6. LOCK

1 Press [6] to lock or unlock the text message.

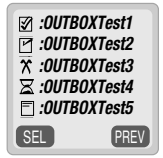
2 Select "Lock "or "Unlock" with the navigation key.
Then, press [ ].

CH 6

This allows you to manage sent text messages; Resend, Erase, Send to, Save, and State.

CHECKING SENT TEXT MESSAGES

1 Press [ ], and [4].
Select a message with the navigation key.
Then, press [ ].



- : Pending to be sent later
- : Not delivered
- : Sent to BS
- : Successfully delivered
- : Not send

2 The text message is displayed.

3 Then press [ ].

1. RESEND

1 Press [1] to resend the text message.

2. ERASE

1 Press [2] to erase the text message and press [ ].

CH 6

3. SEND TO

1. Press [3] to send the message to another person.
2. Input a phone number and press [ ].

3. Input a text message and press [ ].

4. Press [ ].

4. SAVE

1. Press [4] to save the sent text message in the “Filed” folder.

5. STATE

1. Press [5] to display the state of the sent message.

This enables you to set up several items that help manage your messaging features as described below.

SAVE SENT MESSAGES ?

This feature enables you to save every sent message.

1. Press [ ] and, [5].
2. Press [1].
   Select one from No/Yes/Prompt with the navigation key.
   Press [ ].

DEFAULT CALL BACK NUMBER

This feature enables you to edit a default call back number, so that the recipient can call back or reply to the call back number.

1. Press [ ] and, [5].
2. Press [2].
   Input a call back number.
   Then press [ ].

MESSAGE ALERT

This feature enables the phone to alert you of an incoming message in five different types; Ringer, Silent, Vibrate, Ringer & Remind, Vibrate & Remind.

1. Press [ ] and [5].
2. Then press [3].
   Select one from the Ringer/Silent/Vibrate Ringer & Remind/Vibrate & Remind with the navigation key.

> Ringer & Remind or Vibrate & Remind rings or vibrates respectively every 2 minutes to remind you of an incoming message. Those two selections will be cleared when any key is pressed.

3. Press [ ].

DELIVERY ACK

This feature enables you to activate Delivery Acknowledgement so that you can confirm the delivery of mails.

1. Press [ ].
2. Then press [ ].
   Select “Yes’ or “No” with the navigation key.
3. Press [ ].

AUTO ERASE

With this feature activated, you can have inbox messages automaticallly erased as new messages arrive.

1. Press [ ] and [ ].
2. Then press [ ].
   Select “Disabled ”or “Old Inbox ”with the navigation key.
3. Press [ ].

FILED

This function enable you to review and manage the saved messages from the Inbox/Outbox.

1. Press [ ] and [ ].
   Select a text message with the navigation key.
   press [ ].

2. The text message is displayed.
   press [ ].

3. 3.1 if the text message is saved from “Inbox” menu, this screen will be displayed.

   3.2 If the text message is saved from “Outbox ”menu, this screen will be displayed.

4. Select one by pressing [ ].

ERASE MESSAGES

This feature allows you to erase all the messages from the Inbox, Outbox, or filed folder.

ERASE MESSAGES

1 Press [ ].

2 2.1 Press [ ] to erase the inbox messages.

2.2 Press [ ] to erase the outbox messages.

2.3 Press [ ] to erase the filed messages.

3 Select “Yes” or “No” with the navigation key and press [ ].

CH 6

Chapter 7

WEB BROWSING

This chapter describes a function that allows you to access a variety of websites and enjoy Internet services through your phone, CDM-8150X. Please contact your service provider for more details on the web browsing.

CH 7

START INTERNET BROWSER

ACCESS THE INTERNET

1 To access the Internet through your wireless handset, press [ ] key.
Then, the Internet browser will start.

BROWSER MENU

The browser menu is a list of actions necessary for full operation of the browser. To enter the browser menu, press and hold [ ].

RELOAD

1 Press and hold [ ] and, then, press [ ] to reload the current page.

HOME

1 Press and hold [ ] and then, press [ ] to display the homepage.

BROWSER MENU

BOOKMARKS

1 Press and hold [ ] and, then, press [ ] to view your bookmark list.
The list of frequently visited websites will easily connect you to a website without entering its URL.

MARK SITE

1 Press and hold [ ] and, then, press [ ] to add the current page to your bookmark list.

"No bookmark service site "is displayed, when the Internet site cannot support the bookmark service.

ABOUT PHONE.COM

1 Press and hold [ ] and, then, press [ ] to view the browser version and copyright information.

ADVANCED...

1 Press and hold [ ] and, then, press [1] to display the Advanced menu as follows.

SHOW URL

1 Press [1] to display the URL (Uniform Resource Locator) of the current page.
The URL is the address of a website.

HOMEPAGE

1 Press [2] to change your home page. When you start the web browser, the page will be launched as a home page.

SET UP.LINK

1 Press [3] to display a page that allows you to select an alternate up.Link.

OFFLINE SERVICES

1 Press [4] to allow you to navigate through a list of installed channel applications and guide you to the entry point of the applications.

OUTBOX

1 Press [5] to display how many items are delivery-pending and how old the items have remained.

RESTART UP.BROWSER

1 Press [6] to clear up the history of viewed pages and start a new session with the up.Link.

ENCRYPTION

1 Press [7] to use for security.

Chapter 8

SAFETY AND WARRANTY

This chapter outlines the guidelines and precautions for the safety that comes before the optimum use of your cellular phone.Please make sure to be aware of all the details about the safety to operate your phone in the way that you are supposed to.

This chapter contains the terms and conditions of services and the warranty for your phone. Please review them thoroughly.

Read This Information Before Using Your Handheld Portable Cellular Telephone

EXPOSURE TO RADIO FREQUENCY SIGNALS

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

In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

ANSI C95.1 (1992) *
NCRP Report 86 (1986) *
ICNIRP (1996) *

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C951).

The design of your phone complies with the FCC guidelines (and those standards).

*;

American National Standards Institute;
National Council on Radiation protection and measurements;
International Commission on Nonionizing Radiation Protection.

ANTENNA CARE

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

DRIVING

Talking on the phone while driving is extremely dangerous and is illegal in some states. Remember, safety comes first. Check the laws and regulations on the use of phones in the areas where you drive. Always obey them.

Also, if using your phone while driving, please:

- Give full attention to driving. Driving safely is your first responsibility.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call, if driving conditions so require.

If you must use the phone while driving, please use one-touch, speed dialing, and auto answer modes.

An airbag inflates with great force. DO NOT place objects, including both installed or portable wireless equipment, in the area over the airbag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

WARNING: Failure to follow these instructions may lead to serious personal injury and possible property damage.

ELECTRONIC DEVICES

Most modern electronic equipment is shielded from RF energy. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

PACEMAKERS

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.
Persons with pacemakers :

- ALWAYS keep the phone more than six inches from your pacemaker when the phone is turned on.
- Do not carry the phone in a breast pocket.
- Use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

OTHER MEDICAL DEVICES

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

Turn your phone OFF in healthcare facilities when any regulations posted in these areas instruct you to do so. Hospitals or healthcare facilities may be using equipment that could be sensitive to external RF energy.

POSTED FACILITIES

Turn your phone OFF where posted notices so require.

OTHER SAFETY GUIDELINES

AIRCRAFT

FCC and Transport Canada Regulations prohibit using your phone while in the air. Switch OFF your phone before boarding an aircraft.

BLASTING 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.

POTENTIALLY EXPLOSIVE ATMOSPHERES

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include fueling areas such as gas stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or articles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle's engine.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

PRECAUTIONS

Your Handheld Portable Telephone is a high quality piece of equipment. Before operating the equipment, read all instructions and cautionary markings on (1) AC Adaptor (2) Battery and (3) Product Using Battery.

DO NOT use this equipment in an extreme environment where high temperature or high humidity exists.

DO NOT abuse the equipment. Avoid striking, shaking or shocking. When not using the unit, lay down the unit to avoid possible damage due to instability.

DO NOT expose this equipment to rain or spilled beverages.

DO NOT use unauthorized accessories.

DO NOT disassemble the phone or its accessories. If service or repair is required, return unit to an authorized telus cellular service center. If unit is disassembled, the risk of electric shock or fire may result.

DO NOT short-circuit the battery terminals with metal items etc.

SAFETY INFORMATION FOR FCC RF EXPOSURE

WARNING! Read this Information before using

CAUTIONS

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations.
Do not use the phone with a demaged antenna. If a demaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

BODY-WORN OPERATION (HOLSTER PART NUMBER : 2H02065800A)

This device was tested with holster 2H02065800A for body-worn operation with the back of the phone kept 0.98423inchs (2.5cm) from the body. To comply with FCC RF exposure equirements, a minimum separation distance of 0.98423inchs (2.5cm) must be maintained between the user's body and the back of the phone, including the antenna, whether extended or retracted. All belt-clips, holsters and similar accessories used by this device must not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with FCC RF exposure limits and should be avoided.

VEHICLE MOUNTED EXTERNAL ANTENNA (OPTIONAL, IF AVAILABLE)

A minimum separation distance of 7.9 inches (20cm) must be maintained between the user/bystander and the vehicle mounted external antenna to satisfy FCC RF exposure requirements.

NOTE

For more information about RF exposure, please visit the FCC website at www.fcc.gov

THIS MODEL PHONE MEETS THE GOVERNMENT'S
RE-QUIREMENTS FOR EXPOSURE TO RADIO WAVES.

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

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. * Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the ac-tual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not ex-ceed the limit established by the government-adopted require-ment for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as re-quired by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 0.878 W/kg and when worn on the body, as described in this user guide, is 0.446 W/kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC re-quirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in com-pliance with the FCC RF exposure guidelines. SAR informa-tion on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/ oet/fccid after searching on PP4DX-22B.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Asso-ciation(CTIA) web-site at http://www.wow-com.com.

* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a sub-stantial margin of safety to give additional protection for the public and to account for any variations in measurements.

PROTECT YOUR WARRANTY

Read your Warranty carefully, with the special consideration to paragraph seven of the Limited Warranty for your unit.

"Warranty does not apply to... or to any product or part thereof which has suffered through alteration... mishandling misuse, neglect or accident".

Many companies are making look alike accessories and in some cases, promoting that their product is equal to or better than the Telus product. Be careful. Some of these products may not be compatible to use with your Telus product and may damage the unit or cause it to malfunction. If service is required on your unit and it is determined that a non-Telus accessory has created the problem with your unit, the Warranty will not apply. In addition, if the unit has already suffered irreversible damage by reason of a non-compatible accessory, the Warranty will be voided. To protect your Warranty, use only compatible accessories which cannot damage or interfere with the functioning of your Telus product.

TELUS COMMUNICATIONS CORP.
555 Wireless Blvd., Hauppauge, New York 11788, 800-229-1235
16808 Marquardt Avenue, Cerritos, California 90703, 562-802-5100
Telus Canada
5155 Spectrum Way, Unit #5, Mississauga, Ontario
Canada L4W 5A1, 800-465-9672

12 MONTH LIMITED WARRANTY

TELUS COMMUNICATIONS CORP.(the Company) warrants to the original retail purchaser of this Telus Handheld Portable Cellular Telephone, that should this product or any part thereof(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 keypad and display are similarly warranted for ninety (90) days from date of purchase.

The accessories consisting of the antenna and rechargeable battery pack, desktop charger are similarly warranted for twelve (12) months from original purchase.

This Warranty does not apply to batteries, fuses, or costs incurred for testing or checking, or to any product or part hereof 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.

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. For TRAVELERS WARRANTY SERVICE.

Call toll free to (800) 229-1235 for reference to an Authorized Warranty Station in your area.

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 liablity for geographic coverage, inadequates signal to antenna, communications range or operation of the Cellular System as a whole.

12 MONTH LIMITED WARRANTY

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 consaquential 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 which vary from state to state.

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