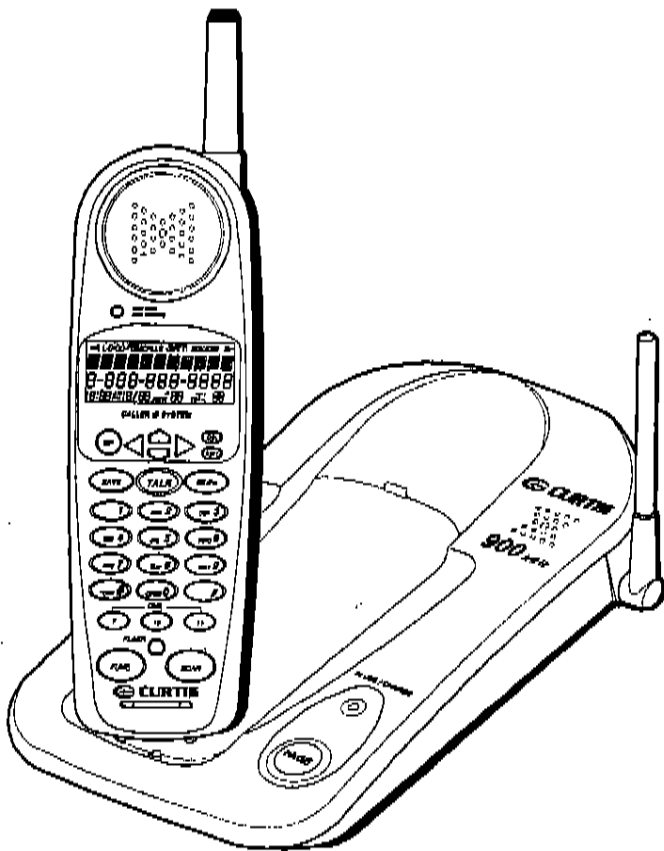


CURTIS

OWNER'S MANUAL




900MHz Cordless/Caller ID Telephone

PLEASE READ BEFORE OPERATING THIS EQUIPMENT

Model: TC950

CURTIS TC950

CARTON CONTENTS

-  **CURTIS TC950 Base and Handset**
- Rechargeable Ni-Cd Battery Pack
- Telephone Line Cord (Short and Long)
- AC Adaptor (9VDC, 300mA, **Center Positive**)
- User's Manual
- Warranty Card
- Wall Mount Screws and Hardware

WARNING

To prevent fire or shock hazard, do not expose this product to rain or any type of excess moisture. If accidentally dropped into water, the AC adaptor should immediately be unplugged from the wall along with the telephone line cord.


 **THIS SYMBOL IS INTENDED TO ALERT THE USER OF THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE OWNER'S MANUAL.**

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IMPORTANT SAFETY INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water, for example, near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement or near a swimming pool.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation, to protect it from overheating. These openings should never be blocked or covered. The openings should never be blocked by placing the product on the bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where people will step on the cord.
9. Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
10. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
11. To reduce the risk of electric shock, do not disassemble this product, but take it to a qualified service contractor when some service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
12. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power supply cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the product.
 - C. If the product has been exposed to rain or water.
 - D. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustments of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - E. If the product has been dropped or the cabinet has been damaged.
 - F. If the product exhibits a distinctive change in performance.
13. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.

14. Do not use the telephone to report a gas leak in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

INSTALLATION PRECAUTIONS

1. Never install telephone wiring during a lightning storm.
2. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
3. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
4. Use caution when installing or modifying telephone lines.

MAINTENANCE

1. Use a damp cloth to clean the plastic cabinet. A mild soap will help to remove grease or oil. Never use polish, solvents, abrasives or strong detergents since these can damage the finish.
2. Your phone should be situated away from heat sources such as radiators, heaters, stoves or any other appliance that produces heat.

BATTERY CAUTIONARY INSTRUCTION

CAUTION: To reduce the risk of fire or injury to persons, read and follow these instructions:

1. Use only the battery pack type provided with the unit.
3.6V, 600mAh
BYD, Model: D-AA600Bx3
Ni-Cd Battery Pack
2. Do not dispose of the battery in a fire. The cell may explode. Check with local codes for possible special disposal instructions.

3. Do not open or mutilate the battery. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
4. Exercise care in handling the battery in order not to short the battery with conducting material such as rings, bracelets and keys. The battery or conductor may overheat and cause burns.
5. Recharge only the battery provided with or identified for use with this product. The battery may leak corrosive electrolyte or explode if it is not the correct type.
6. Do not attempt to rejuvenate the battery provided with or identified for use with this product by heating them. Sudden release of the battery electrolyte may occur causing burns or irritation to eyes or skin.
7. When inserting the battery into this product, the proper polarity or direction must be observed. Reverse insertion of batteries can cause charging that may result in leakage or explosion.
8. Do not store this product, or the battery provided with or identified for use with this product, in high-temperature areas. Batteries that are stored in a freezer or refrigerator for the purpose of extending shelf life should be stabilized at room temperature prior to use after cold storage.
9. Disconnect telephone lines before installing batteries.

FCC NOTICE

The FCC requires that you be advised of certain requirements involving the use of this telephone.

1. This equipment complies with Part 68 of the FCC rules. On the bottom of this equipment is a label that contains, among other information, the FCC registration number and Ringer Equivalence Number (REN)

- for this equipment. If requested, provide this information to your telephone company.
2. The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all of those devices ring when your number is called. In most, but not all areas, the sum of the RENs of all devices should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should call your local telephone company to determine the maximum REN for your calling area.
 3. If your telephone causes harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice is not practical, you will be notified as soon as possible. You will be advised of your right to file a complaint with the FCC.
 4. Your telephone company may make changes to its facilities, equipment, operations or procedures that could affect the proper operation of your equipment. If they do, you will be given advance notice so as to give you an opportunity to maintain uninterrupted service.
 5. If you experience trouble with the telephone, please contact Northwestern Bell Phones for repair/warranty information. The telephone company may ask you to disconnect this equipment from the network until the problem has been corrected or you are sure that the equipment is not malfunctioning.
 6. This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs. (Contact your state public utility commission or corporation commission for information.)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Privacy of communications may not be insured when using this phone.

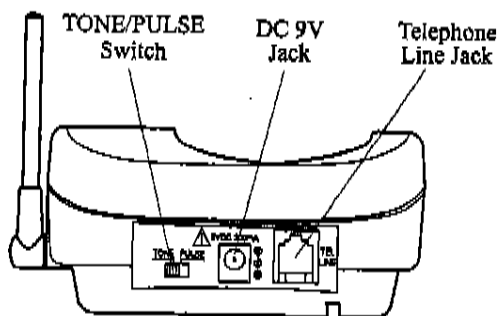
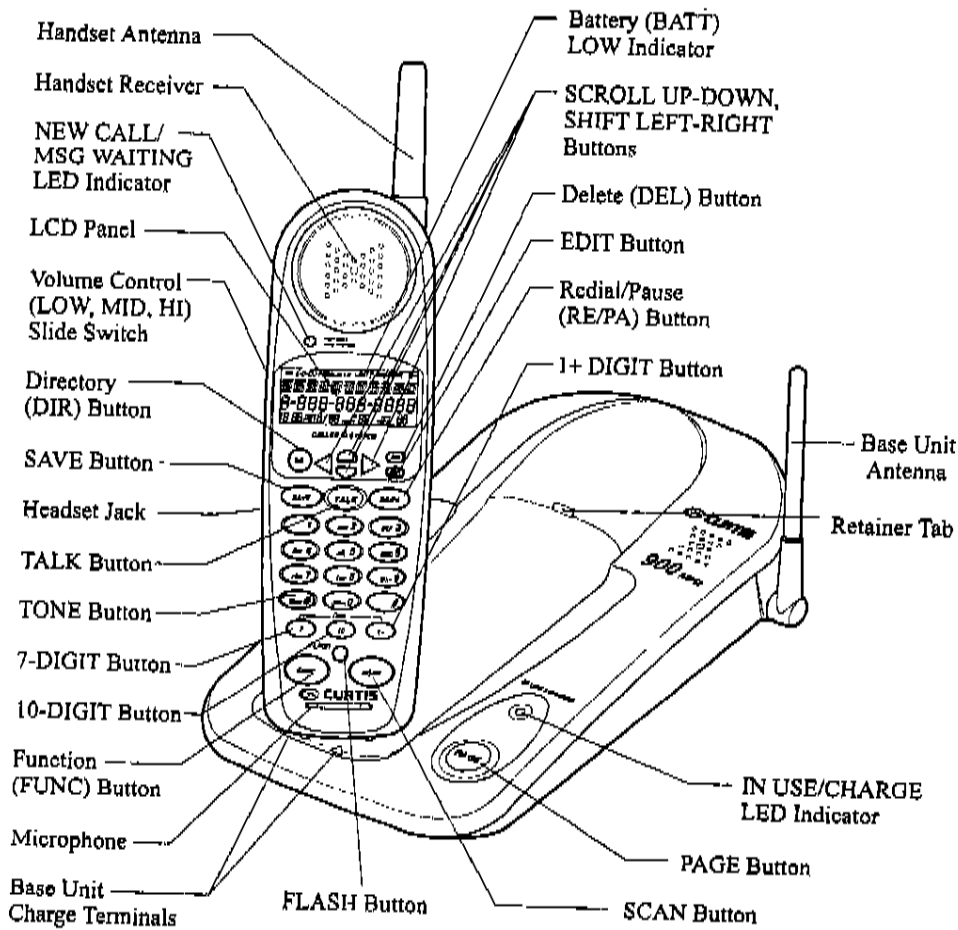
Changes or modifications not expressly approved in writing by Northwestern Bell Phones may void the user's authority to operate this equipment.

Some cordless phones operate at frequencies that may cause interference to nearby TVs and VCRs; to minimize or prevent such interference, the base of the cordless phone should not be placed near or on top of a TV or VCR; and, if interference is experienced, moving the cordless telephone farther away from the TV or VCR will often reduce or eliminate the interference.



AC ADAPTOR: Use only with Class 2 Power Source, 9VDC output, 300mA.

Ⓢ CURTIS TC950 CONTROLSDIAGRAM



Base Unit (Rear View)

CALLER ID Q&A

Caller ID devices allow you to take advantage of the Caller Identification Delivery service offered by your local telephone company. For more information, you can refer to the following Questions and Answers table:

Questions	Answers
What is Caller ID?	A Caller ID is a device that identifies the calling party before you answer a call. This device can be used to screen unwanted calls and eliminate harassment from annoying calls.
How does Caller ID work?	When used with Caller ID service, the Caller ID device displays the name (if available), and the phone number (if available) of the person calling before you pick up your telephone.
Who provides Caller ID service?	Your local telephone company. However, not all local telephone companies provide Caller ID service. Please call your local phone company to confirm that the service is available before you install the Caller ID.
How can I activate my Caller ID?	For your Caller ID unit to function, you must first arrange with your local telephone company to have Caller ID service installed on your line. There is an extra charge added to your monthly telephone bill for this service. Before using your Caller ID device, please read this instruction manual carefully.

DESCRIPTIONS

Handset Controls:

NEW CALL/MSG WAITING LED

Indicator - RED LED Blinks when there are new Caller ID call records stored in memory. GREEN LED blinks when you have new message(s) from Message Waiting (an optional service provided by your local phone company). LED indicators will turn off when you have either reviewed your call records on the unit, or if you have retrieved your message(s) from Message Waiting.

LCD Panel - Shows the Caller ID call record information and function menus.

Volume Control (LOW, MID, HI) Slide Switch - Select the receiver volume level (Low, Mid, Hi).

Directory (DIR) Button - Allows you to retrieve a memory (name and phone number) from the personal directory (up to 40 memories) and to transfer Caller ID memory to personal directory.

SAVE Button - Saves the name and number into the personal directory.

Headset Jack - For connecting your headset plug to enjoy hands-free communication.

TALK Button - Allows you to put the handset in the off-hook (TALK) and on-hook (STANDBY) modes to place or receive a call.

TONE Button - Used to temporarily change the dialing mode from Pulse to Tone when dialing in the Pulse mode. Provides tone function to access special services such as phone banking services.

7-DIGIT Button - Press and hold down to place a local call.

10-DIGIT Button - Press and hold down to place a local call with Area Code.

Function (FUNC) Button - While in STANDBY mode, this button allows you to set the handset in Function Programming mode.

FLASH Button - Momentarily hangs up the phone to access custom calling features such as Call Waiting or Three-Way Calling provided by your local phone company.

SCAN Button - While in TALK mode, it is used to manually select one of the 40 operating channels when you experience interference on the handset.

Battery (BATT) LOW Symbol Appears on the LCD Panel when the battery power is low. A "beep" sound will be heard every 10 seconds. Return the handset on the base unit for charging.

SCROLL UP-DOWN, SHIFT LEFT-RIGHT Buttons (SCROLL UP-DOWN) - Allows you to scroll through the stored list of incoming calls. (SHIFT LEFT-RIGHT) - Used for moving to the next character / digit when entering information during EDIT mode.

Delete (DEL) Button - Used to delete one or the entire Caller ID call records.

EDIT Button - While in Function Programming mode, this button allows you to change current function settings.

Redial/Pause (RE/PA) Button - (REDIAL) Allows you to automatically dial the last phone number dialed (up to 32 digits) from the handset. (PAUSE) Used to insert a pause in the dialing sequence while storing numbers in memory (for use in PABX or long distance services). Pause time is programmable and can be stored when programming a number in memory.

1+ DIGIT Button - Press and hold down to place a long distance call. (Automatically adds the number 1 at the beginning of the displayed telephone number.)

Base Controls:

Antenna - Raise for best reception or reposition for storage purposes.

IN USE/CHARGE LED Indicator - (IN USE) - Lights solid when the handset is in the TALK mode. (CHARGE) - Lights solid when the base unit is charging the handset.

... allows you to locate the handset when it is not on the base, or to alert the person near the handset.

Base Unit Charge Terminals - Used for charging handset batteries. Clean periodically with an alcohol moistened swab.

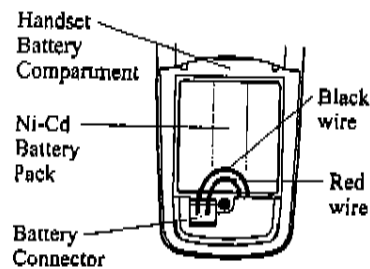
TONE/PULSE Switch - Allows you to switch the dialing mode to either Tone or Pulse dialing.

INSTALLATION

CAUTION: USE ONLY THE NICKEL CADMIUM (Ni-Cd) BATTERY TYPE INCLUDED WITH THIS UNIT. USE OF OTHER BATTERY TYPES MAY CAUSE INJURIES OR DAMAGE.

Battery Installation

1. Remove the battery compartment cover of the handset by pressing the top of the cover and sliding it down.
2. Connect the Ni-Cd battery pack plug along the slot into the handset's battery connector as shown below.



(Figure 1)

3. Insert the Ni-Cd battery pack into the battery compartment. The LCD panel will turn on in standby mode.
4. Replace the battery compartment cover by sliding it up towards the handset.

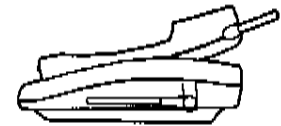
NOTE: Use the type and size of Ni-Cd battery pack, 3.6V, 600mA. It is recommended that the Ni-Cd battery pack should be fully charged overnight prior to initial use.

Desktop Connection

Your TC950 is equipped with a unique design of Mounting Bracket which can hold your phone at an angle of 38° and 58° when desk mounting.

1. Normal Position (Mounting Bracket not required)

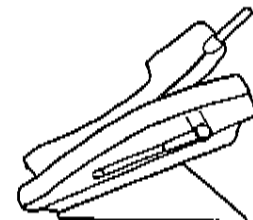
For normal position, as shown in figure 2, place the base unit on any desired but suitable location.



(Figure 2)

2. 38° Position (See figure 3)

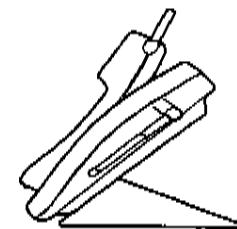
With the back of the base unit facing up, insert the hooks of the Mounting bracket (marked "38° DESK MOUNT" into the matching slots of the base unit. Then slide the Mounting bracket into place as indicated by the arrow.



(Figure 3)

3. 58° Position (See figure 4)

With the back of the base unit facing up, insert the hooks of the Mounting bracket (marked "58° DESK MOUNT" into the matching slots of the base unit. Then slide the Mounting bracket into place as indicated by the arrow.



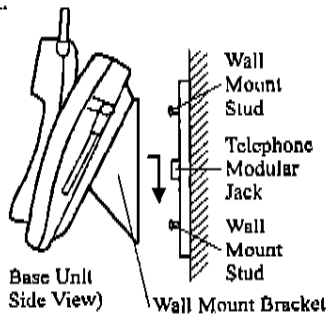
(Figure 4)

Wall Mounting (With a standard A1 & 1 or GTE modular wall jack)

You may choose to install the Telephone base unit onto a wall.

Wall Mounting (Standard Wall Jack)

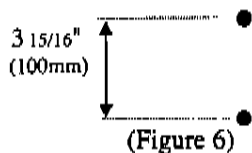
1. Connect the short telephone line cord to the telephone line jack on the rear of the base unit.
2. Route the short line cord into the groove on the back of the base unit.
3. With the rear of the base unit facing up, insert the flange of the wall mounting bracket into the bottom slots on the back of the unit and push the wall mount bracket until it locks into place.
4. Plug the free end into the wall modular jack.



(Figure 5)

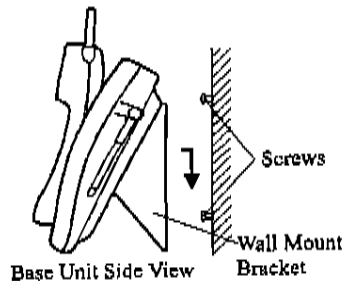
Wall Mounting (No Standard Wall Jack)

1. Drill two holes with a vertical distance between the two marked positions of $3 \frac{15}{16}$ " (100mm) as shown in figure 6.



2. Drive a screw into each of the holes. Tighten them to the end of the screw lines, only leaving the smooth part of the screw head outside the wall.
3. Insert the hooks of the wall mount bracket into the matching slots at the bottom of the base unit then slide them upwards until they lock into place.

4. Hang the unit onto the screws, then slide it down firmly to fasten the base securely, as shown in figure 7.



(Figure 7)

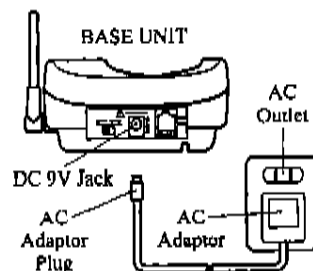
Handset Retainer Tab

If the base unit is to be placed in the wall mount position, the retainer tab allows the handset to hang onto the base unit. Your handset has been designed with two retainer slot position that would allow you to hang your handset facing either up or down on the base unit.

POWER CONNECTION

CAUTION: You must use a Class II, 120 Volt AC / 9 Volt DC adaptor that delivers at least 300 mA. The center tip must be positive and the plug must correctly fit the unit's DC 9V jack.

1. Plug the AC adaptor into a standard AC outlet.
2. Insert the small plug into the DC 9V jack on the rear of the base unit as shown in figure 8.

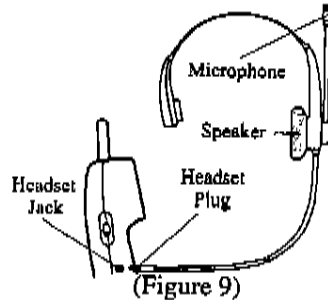


(Figure 8)

HEADSET CONNECTION

One of the special features of your phone is that your handset could utilize a headset for hands-free communication. Insert the small plug at the end of your headset cord to the headset jack at the side of the handset as shown in figure 9. Follow the procedures discussed in "Placing a Call" and "Receiving a Call" when to place and receive a call.

NOTE: The headset jack of your TC950 is compatible with 2.5 mm headset plugs only. When you plug in the headset into the headset jack, it automatically mutes the microphone and speaker of the handset. Unplug the headset to return the handset to normal use.



GETTING STARTED

Please follow these steps before using the TC950 for the first time.

1. Ensure that the handset battery pack is installed and charged fully for at least 12 hours.
2. Raise or reposition the base unit antenna for the best reception.
3. Ensure that all connections (line cord and adaptor cord) are properly inserted into the rear of the base unit.

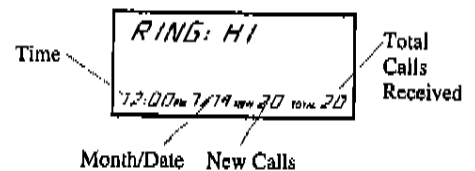
Setting the TONE/PULSE Switch

- If your home is equipped with tone-dialing service set the TONE/PULSE switch to TONE position.
- If you have a pulse (rotary) dialing service, set the TONE/PULSE switch to PULSE position.

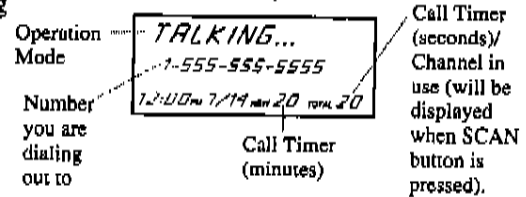
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LCD INFORMATION

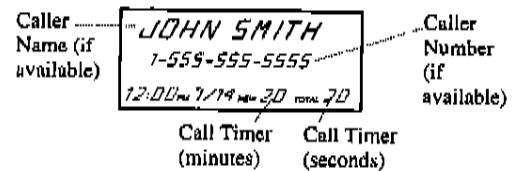
During idle / standby mode, the handset LCD panel will display information in the following format:



During active or TALK mode (after placing a call), the handset LCD panel will display the following:



During active or TALK mode (after receiving a call), the handset LCD panel will display the following:



NOTE: The time and date will be set automatically when the first Caller ID call is received. You can also manually set the time as described in "Setting the Time" of the "Functions Programming" section of this manual.

TELEPHONE OPERATION

To Place a Call

1. Press the TALK button on the handset. The LCD will show "WAITING" while it auto-scans for the clearest channel. It will then display "TALKING..." after finding the best channel to use, the call timer will start to count.

2. Listen for a dial tone.
3. Dial the phone number.
4. When you have finished your call, press the TALK button or place the handset on the base unit.

OR

1. Dial the phone number.
2. Press and hold down the 7 DIGIT button or 10 DIGIT button or 1+ DIGIT button.

NOTE: If you cannot get a dial tone, check your telephone line cord connection and power connection. Refer to the troubleshooting section of this manual for more solutions.

Extension Phones

Extension telephones can be connected. When an extension telephone is being used, the base unit IN USE/CHARGE LED indicator will start to blink and the handset LCD screen will display, "EXT IN-USE."

To Receive a Call

If the Ring Mode is set to HI or LOW and you receive an incoming call, the handset will ring and the LCD panel will display "RINGING..." when you are receiving an incoming call.

If the handset is on the base or out of the use:

Simply pick up the handset and review caller ID information, press the TALK button on the handset and start conversation with the caller.

NOTES:

You can also program to turn the ringer OFF, as described in Function ④ of the "FUNCTION PROGRAMMING Section" of this manual.
No auto Turn On feature.

To End a Call

Since the unit features "Auto-Standby," simply return the handset to the base unit to hang up. You can also press the TALK button to hang up if you are away from the base unit.

Last Number Redial

If you get a busy signal, you can use the Redial (RE/PA) button to automatically dial the last phone number dialed (up to 32 digits)

1. Pick up the handset and press the TALK button.
2. Listen for a dial tone.
3. Press the RE/PA button to automatically dial the last phone number you dialed.

Flash Function

While in TALK mode, use the FLASH button to access custom calling features such as Call Waiting or Three-Way Calling provided by your local phone company. Consult your local phone company for more details.

Pause Function

In some cases, such as PABX or long distance service, a pause may be needed in the dialing sequence. Pressing the Pause (RE/PA) button on the handset inserts a few seconds of delay between dialed numbers. Pause(s) can be inserted into the programmed dialing sequence in memory dialing. See the "FUNCTION PROGRAMMING Section" to edit the time delay for the Pause time setting.

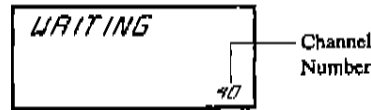
Mixed Mode Dialing (Temporary Pulse to Tone Dialing)

If you only have pulse dialing available in your area, accessing special services (bank by phone, etc.) require a tone signal. Ensure that your TONE/PULSE switch is set to PULSE. While in TALK mode, press the TONE (*) button to switch from Pulse to Tone dialing temporarily. Pulse dialing mode resumes when the call is

Channel Selection (40 Channels)

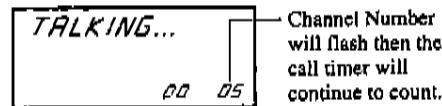
Channel Scan (Auto-Scan)

- If you are receiving a call or dialing out and TALK button is pressed, the unit auto-scans for the best channel available.
- The current channel number will be displayed on the lower right-hand corner of the LCD panel while "WAITING" is on display.



Channel Scan (Manual)

- If the existing channel becomes noisy or starts having interference, press the SCAN button on the handset. The unit will automatically scan for the best channel available.
- The current channel number will be temporarily flashed on the lower right-hand corner of the LCD panel while in TALK mode then the call timer will continue to count.



NOTE: It takes about 2 seconds for the unit to scan to the next clear channel.

PAGE Function

If you have misplaced the handset or need to alert the person nearby the handset, press the PAGE button on the base unit. First press of this button will activate the handset to beep continuously for 50 seconds, provided that the handset is on standby mode and located within transmitting range. The handset LCD panel will display "PAGING..." while it is being paged by the base unit. Pressing this button the second time will terminate the beep sound.

65,536 Combination Security Coding

The telephone use a digital coding security system to prevent unauthorized use of your telephone line by other cordless phones

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nearby. The unit has 65,536 possible security code combinations. Each combination of the code is randomly generated every time the handset is picked up.

Resetting Security Code and Channel
Communication between the handset and the base unit may not be possible in any of the following situations:

1. After a power failure.
2. After relocating the base unit by disconnecting the AC adaptor.
3. The handset goes out of range from the base unit.

To reset, place the handset on the cradle of the base unit for five seconds.

CALLER ID OPERATION

This telephone automatically displays incoming caller's name and telephone number together with the date and time of the call. It records up to 80 calls and stores the data in Memory.

IMPORTANT: *Subscription to Caller ID (CID) service from your local phone company is required for using the Caller ID features of the unit. Other optional services such as Message Waiting and Caller ID Call Waiting can be ordered from your local phone company.*

Receiving Caller ID Information

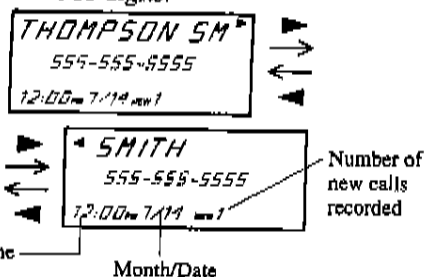
Between the first and second ring, the LCD panel will display the Caller ID information such as name (if available), phone number (if available), date and time of call.

NOTE: The Caller ID information will not be displayed if you pick up the phone before the second ring.

Viewing Caller Information during Incoming Calls

1. When there is an incoming call, the name and the telephone number of the caller will automatically appear after the second ring. Press the SHIFT

RIGHT button to view a name of more than 11 digits.



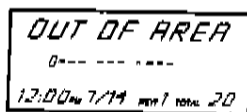
OR

Caller's telephone number will appear if the caller's name is not available.

OR

"OUT OF AREA" will appear if the origin of the incoming call does not support the Caller ID system.

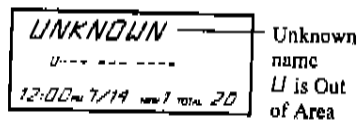
e.g.



OR

"UNKNOWN" will appear if the origin of the incoming call has no name and does not support the Caller ID system.

e.g.



OR

"PRIVATE" and/or "P- - - - -" will appear if the caller's name and/or telephone number is blocked.

OR

"EXT IN USE" will appear when an extension phone is being used

OR

"DATA ERROR" will appear if the wrong data was received from the telephone line.

OR

The name stored in the DIRECTORY will appear for an incoming call with matching telephone numbers.

"MSG WAITING" (Message Waiting)

The MSG WAITING GREEN LED indicator will blink when there is a message for you from your telephone company if you have subscribed to Voice Mail message service and if you have requested Visual Message Indication from your local telephone company. "MSG WAITING" will appear on the LCD Screen in STANDBY mode. (To remove the MESSAGE WAITING indicator, see page 21 for detail.)

Call Waiting

When you subscribe to Call Waiting service from your local telephone company, this telephone will display the name and number of the second caller while you are having a conversation.

1. When you are having a conversation, this telephone will automatically display the name and number of the second caller.
2. Press the FLASH button to answer the second caller. The first caller's name and number will be displayed.
3. When you have finished, press the FLASH button to continue with your conversation with the first caller.

"Call-FWD" (Forwarded Call)

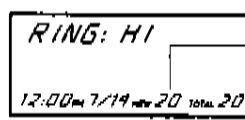
Appears on the upper left-hand side, when the incoming call has been assigned to your telephone number.

"L-D-C" (Long Distance)

Appears on the upper left-hand side, when the incoming call is a long distance call and the service is provided by your local telephone company.

Caller List

Records call information for up to 80 incoming calls such as caller's name and telephone number together with the date and time of the call. After recording a new incoming call, the NEW CALL RED LED indicator will blink and the display will look as shown below:



No. of new calls.
Maximum calls = 80

Viewing the Caller List

1. Press the **SCROLL DOWN** button to view the latest record, or press the **SCROLL UP** button to view the first record, press the **SHIFT RIGHT** button if the name has more than 11 digits.
2. Press the **Directory (DIR)** button to go back to standby mode. (If no active buttons are pressed for 10 seconds or you have viewed the last record in the Caller's List, the LCD Screen will automatically return to **STANDBY** mode.)

Placing a Call from the Caller List

1. Press the **SCROLL DOWN** button to select from the latest record, or press the **SCROLL UP** button to select from the first record.
2. Press and hold down the **7-DIGIT** button for local call, or the **10-DIGIT** button for local call with area code, or the **1+** button for a long distance call.
3. To end your conversation, either press the **TALK** button or place the handset on the base unit.
4. To place a call from the Caller's List in **TALK** mode, press the **TALK** button, then follow steps 1 to 3.

NOTE: You can edit the number before dialing, but you cannot **SAVE** any changes in the Caller List.

Editing the Caller List before Dialing

1. Press the **SCROLL UP** or **DOWN** button to find the caller.
2. Press the **EDIT** button.
3. Move the cursor by pressing the **SHIFT LEFT** or **RIGHT** button to the digit you want to change. To erase digits, press the **DELETE** button. To add digits, use the **TELEPHONE KEYPAD** (0~9) buttons.

16

4. Press and hold down the **7-DIGIT** button for local call, or the **10-DIGIT** button for local call with area code, or the **1+** button for a long distance call.
5. To end your conversation, either press the **TALK** button or place the handset on the base unit.

NOTE: The name of the caller and time called cannot be edited.

Saving the Name and Number in the Caller List into the DIRECTORY

1. Press the **SCROLL UP** or **DOWN** button to find the caller.
2. Press and hold down the **SAVE** button.

NOTE: It is not advisable to save a telephone number without the corresponding name. This will lead to improper display on **Private** and **Out of Area** calls.

Deleting All Records in the Caller List

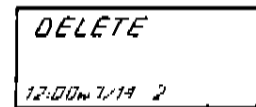
1. Press and hold down the **DELETE** button at the **STANDBY** mode.



2. The LCD Screen will automatically return to **STANDBY** mode.

Selective Deleting in the Caller List

1. Press the **SCROLL UP** or **DOWN** button to find the caller at **STANDBY** mode.
2. Press and hold down the **DELETE** button, then the LCD Screen will display the next item in the directory.



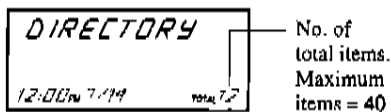
3. Press the **Directory (DIR)** button to return to **STANDBY** mode.

NAME and Telephone Number DIRECTORY

This DIRECTORY lets you scroll through the list to find the person you need for one touch dialing. You can store up to 40 names and telephone numbers in the Memory.

Viewing the DIRECTORY List

1. Press the Directory (DIR) button.



2. Press the SCROLL UP or DOWN button to find the one you need, press the SHIFT RIGHT button if the name or telephone number is more than 11 digits.

NOTE: To exit the DIRECTORY List at anytime, press the Directory (DIR) button.

Speed Viewing the DIRECTORY

1. Press the Directory (DIR) button.
2. Enter the first letter of a name. (See page 22 for detail of entering a letter.)
3. Press the SCROLL DOWN button to find all names with same first letter.

Saving in the DIRECTORY

1. Press the Directory (DIR) button.
2. Press the EDIT button.
3. Use the TELEPHONE KEYPAD button (0-9) to enter the name, (see page 22 for detail of entering a letter) you can store up to 15 characters.
4. Press the SCROLL DOWN button once.
5. Enter the telephone number using the TELEPHONE KEYPAD button (0-9). You can store up to 16 digits.
6. Press and hold down the SAVE button.
7. Press the Directory (DIR) button to go back to STANDBY mode. (If no active buttons are pressed for 10 seconds, the LCD Screen will automatically return to STANDBY mode.)

NOTE: It will not save a duplicate telephone number or a name without the corresponding telephone number in the DIRECTORY.

PREFERRED CALLS

You can assign PREFERRED CALL, which will generate a special ringer sound at the start of the second ring to any welcome caller in the DIRECTORY. When you are saving the name and number into the DIRECTORY, add “#” mark at the beginning of the name by pressing the “#” button.

BLOCKED CALLS

You can assign a BLOCKED CALL, which will disable the ringer sound from the second ring to any caller in the DIRECTORY.

When you are saving the name and number in the DIRECTORY, add “*” mark at the beginning of the name by pressing the “*” button.

Editing Name and Number in the DIRECTORY

1. Press the Directory (DIR) button.
2. Press the SCROLL UP or DOWN button to find the one you want to edit.
3. Press the EDIT button to edit the name. A cursor will blink.
4. Press the SHIFT LEFT or RIGHT buttons to move the cursor to the letter or number you want to change. To erase, press the DELETE button. To add, use the TELEPHONE KEYPAD buttons (0-9). (See page 22 for detail of entering a letter.)
5. Press the SCROLL UP or DOWN button to edit the number.
6. Press the SHIFT LEFT or RIGHT button to move the cursor to the number you want to change. To erase, press the DELETE button. To add, use the TELEPHONE KEYPAD buttons (0-9).

(See page 22 for detail of entering a letter.)

7. Press and hold down the SAVE button to confirm.

IMPORTANT: It is not advisable to save a telephone number without the corresponding name in the DIRECTORY. This will lead to improper displays on Private and Out of Area calls.

NOTE: When no active buttons are pressed for 10 seconds, the LCD Screen will automatically return to STANDBY mode.

Editing the Number in the DIRECTORY before Dialing

1. Press the Directory (DIR) button.
2. Press the SCROLL UP or DOWN button to find the caller.
3. Press the EDIT button to edit the name.
4. Press the SCROLL DOWN button.
5. Press the SHIFT LEFT or RIGHT button to move the cursor to the number you want to change.
6. Press the 7-DIGIT button for local call, or press the 10-DIGIT button for local call with area code, or press the 1+ button for a long distance call.
7. To end your conversation, either press the TALK button or place the handset on the base unit.

NOTE: If you want to save the edited number in the DIRECTORY, follow steps 1 through 5 and then press and hold down the SAVE button.

Placing Calls from the DIRECTORY

1. Press the Directory (DIR) button.
2. Press the SCROLL UP or DOWN button to find the one you want to call.
3. Press the 7-DIGIT button for local call, or press the 10-DIGIT button for local call with area code, or press the 1+ button for a long distance call.

4. To end your conversation, either press the TALK button or place the handset on the base unit.

Deleting All Records in the DIRECTORY

1. Press the Directory (DIR) button.
2. Press and hold down the DELETE button at STANDBY mode.
3. Press the Directory (DIR) button to return to STANDBY mode.

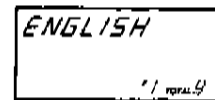
Selective Deleting in the DIRECTORY

1. Press the Directory (DIR) button.
2. Press the SCROLL UP or DOWN button to find the one you want to delete.
3. Press and hold down the DELETE button, then the LCD Screen will display the next item in the DIRECTORY.
4. Press the Directory (DIR) button to return to STANDBY mode.

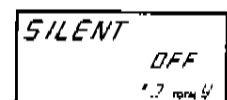
FUNCTION PROGRAMMING

This unit contains the following special functions. To access, press the Function (FUNC) button at STANDBY mode, then press the TELEPHONE KEYPAD (1-9) or the SCROLL DOWN button.

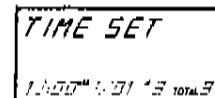
NOTE: When no active buttons are pressed for 10 seconds, the LCD Screen will automatically return to STANDBY mode.



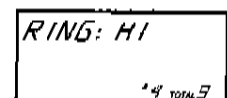
KEYPAD Button # 1



KEYPAD Button # 2



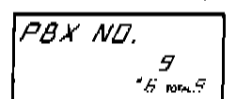
KEYPAD Button # 3



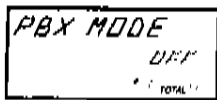
KEYPAD Button # 4



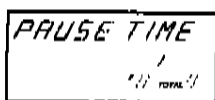
KEYPAD Button # 5



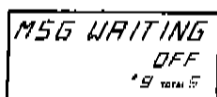
KEYPAD Button # 6



KEYPAD Button # 7



KEYPAD Button # 8



KEYPAD Button # 9

Function ①: Setting the LANGUAGE

This telephone offers English (default), Spanish, French languages for your convenience.

1. Press the Function (FUNC) button while in standby mode. The LCD panel will display "FUNCTIONS."
2. Press the KEYPAD # 1 button. The LCD will show "ENGLISH". This is the default setting.
3. Press the EDIT button. The LCD will flash "ENGLISH."
4. Press the SCROLL UP or DOWN button to select the language you desire. To set the desired language, press and hold the SAVE button for about two seconds.
5. After the language is set, press the Function (FUNC) button to return to standby mode.

Function ②: Setting SILENT ON/OFF

This telephone will generate the first ring sound even in the BLOCKED CALL mode to indicate that you have an incoming call. To keep silent in BLOCKED CALL mode, you can turn off the first ring sound.

1. Press the Function (FUNC) button while in standby mode. The LCD panel will display "FUNCTIONS."
2. Press the KEYPAD # 2. The LCD will show "SILENT"
3. Press the EDIT button. The LCD will flash "OFF." The default setting is OFF.

4. Press the SCROLL UP or DOWN button.
5. To save the desired mode, press and hold the SAVE button for about two seconds.
6. Press the Function (FUNC) button to return to standby mode.

Function ③: Setting TIME & DATE

Although the LCD time and date are automatically set when the first Caller ID call is received, you can change the time and date as follows:

1. Press the Function (FUNC) button while in standby mode. The LCD panel will display "FUNCTIONS."
2. Press KEYPAD # 3. The LCD will show "TIME SET."
3. Press the EDIT button. The LCD will flash the digit to be changed.
4. Press one of the number keys 0 to 9 to select the desired digit.
5. To select AM or PM, press KEYPAD # 1 for AM and KEYPAD # 2 for PM when the LCD is blinking AM / PM.
6. If you make a mistake while entering the date and time, press the EDIT button twice to start over.
7. After the time and date is set, press the Function (FUNC) button to return to standby mode.

Function ④: Setting the RINGER VOLUME (HI, LOW, OFF)

This function enables you to adjust the ringer volume from HI, LOW and OFF as desired.

1. Press the Function (FUNC) button while in standby mode. The LCD panel will display "FUNCTIONS."
2. Press KEYPAD # 4. The LCD will show "RING: HI." The default setting is HI.
3. Press the EDIT button. The LCD will flash the current ringer volume setting.
4. Press the SCROLL UP or DOWN button to select the desired ringer volume setting (HI, LOW, OFF)

5. To save the desired ringer volume setting, press and hold the SAVE button for about two seconds.
6. After the ringer volume is set, press the Function (FUNC) button to return to standby mode.

Function ⑤: Setting the LCD CONTRAST

This unit enables you to select 8 brightness levels for the Large LCD screen

1. Press the function (FUNC) button while in standby mode. The LCD panel will display "FUNCTIONS."
2. Press KEYPAD # 5. The LCD will show "CONTRAST." The default setting is 4.
3. Press the EDIT button. The LCD will flash the current contrast number setting.
4. Press the SCROLL UP or DOWN button to select the desired contrast level (1 to 8).
5. Press and hold the SAVE button for about two seconds.
6. After the contrast is set, press the Function (FUNC) button to return to standby mode.

Function ⑥: Setting PBX NUMBER

This unit enables you to preset the PBX number (such as an 8 or 9) while you are using a switchboard system.

1. Press the Function (FUNC) button while in standby mode. The LCD panel will display "FUNCTIONS."
2. Press KEYPAD # 6. The LCD will show "PBX NO." and the current one-digit PBX number setting. The default setting is 9.
3. Press the EDIT button. The LCD will flash the current PBX number setting.
4. Press the SCROLL UP or DOWN button to select the desired PBX number (1-9).
5. Press and hold the SAVE button for about two seconds.

6. After the PBX number is set, press the Function (FUNC) button to return to standby mode.

Function ⑦: Setting PBX ON/OFF

This unit enables you to turn ON/OFF the PBX system depending on the telephone system you are using. You can not activate the Callback Function when the PBX is set to ON.

1. Press the Function (FUNC) button while in standby mode. The LCD panel will display "FUNCTIONS."
2. Press KEYPAD # 7. The LCD will show "PBX MODE" and the current PBX mode setting (ON/OFF). The default setting is OFF.
3. Press the EDIT button. The LCD will flash the current PBX setting.
4. Press the SCROLL UP or DOWN button to select PBX ON or PBX OFF mode.
5. Press and hold the SAVE button for about two seconds.
6. After the PBX mode is set, press the Function (FUNC) button to return to standby mode.

Function ⑧: Setting PAUSE TIME

This unit enables you to adjust the pause time when placing a call using a switchboard system or dialing long distance calls.

1. Press the Function (FUNC) button while in standby mode. The LCD panel will display "FUNCTIONS."
2. Press KEYPAD # 8. The LCD will show "PAUSE TIME" and the current pause time (in seconds). The default time is 4 seconds.
3. Press the EDIT button. The LCD will flash the current pause time setting.
4. Press the SCROLL UP or DOWN button to select the desired pause time
5. Press and hold the SAVE button for about two seconds.
6. After the pause time setting is saved, press the Function (FUNC) button to return to standby mode.

Function (☺): Setting MSG WAITING (Message Waiting)

The unit's Message Waiting setting is defaulted to "OFF". Message Waiting will turn on automatically only when your local phone company sends you the signal provided that this optional service is available in your area.

Your local phone company will send you a Message Waiting OFF signal after you have finished retrieving your messages from your voice mail. The Message Waiting On signal will be turned off automatically. In an unlikely event the Message Waiting On signal fails to turn off due to data capturing error, simply follow the procedures below to turn it off:

1. Press the Function (FUNC) button while in standby mode. The LCD panel will display "FUNCTION."
2. Press KEYPAD # 9. The LCD will show "MSG WAITING" and the current Message Waiting status (On or Off).
3. Press the EDIT button. The LCD will flash the current Message Waiting status.
4. Press the SCROLL UP or DOWN button to turn off the Message Waiting signal.
5. Press and hold the SAVE button for about two seconds.
6. After the Message Waiting mode is set, press the Function (FUNC) button to return to standby mode.

TECHNICAL INFORMATION

This cordless phone uses radio frequencies to allow mobility. There are certain difficulties in using radio frequencies with a cordless telephone. While these are normal, the following could affect the operation of your system.

Noise: Electric pulse noise is present in most homes at one time or another. This noise is most intense during electrical

storms. Certain kinds of electric equipment such as light dimmers, fluorescent bulbs, motors, and fans also generate noise pulses. Because radio frequencies are susceptible to these noise pulses, you may occasionally hear them in your handset. Generally they are a minor annoyance and should not be interpreted as a defect in your system.

Range: Because radio frequencies are used, location of the base unit can affect operating range. Try several locations in your home or business and pick the one that gives you the clearest signal.

Interference: Some electronic devices operate in and/or generate interference near the operating frequencies of your cordless telephone. While several protection circuits are used to prevent unwanted signals, there may be periods when these unwanted signals cause interference. If interference occurs frequently, it can be minimized or eliminated by lowering the height of your base antenna or by relocating the base unit. You can check for interference before selecting the final base unit location by plugging in the phone.

Improving Cordless Reception

Follow these guidelines to improve cordless sound quality:

- Select an area to install the unit where it is closest to the center of your home or office. This will improve the operating range of the unit.
- Keep the base unit away from electrical equipment. Radio Frequency Interference (RFI) is sometimes generated by these appliances, which can cause a degradation in cordless reception.
- Keep the handset batteries charged as much as possible. Weak handset batteries can limit the range of cordless operation.

CHARACTER ENTRY TABLE

If you are assigning names for stored phone numbers into memory, please follow the table below to determine the equivalent keypad keystrokes are needed for a certain character. Please refer to "Storing Phone Numbers into Memory" on how to store phone numbers.

KEYPAD BUTTON	CHARACTERS							
	(space)	&	'	()	*	.	1
①								
②	A	B	C	2				
③	D	E	F	3				
④	G	H	I	4				
⑤	J	K	L	5				
⑥	M	N	O	6				
⑦	P	Q	R	S	7			
⑧	T	U	V	8				
⑨	W	X	Y	Z	9			
⑩	0							
#	#							
*	*							

HOW TO USE THIS TABLE

1. Select the appropriate character to be entered from the CHARACTERS columns.
2. Find the corresponding KEYPAD BUTTON located on the same row.
3. Press the corresponding KEYPAD BUTTON several times (depending on which column where the selected character is located). For example: if the letter "C" was chosen, press KEYPAD # 2 thrce times until "C" appears on the LCD panel.

EXAMPLE:

If you want to enter "12 ACME &CO.", then the following keystrokes will be needed:

Character	Keypress Needed
1	Press ① eight times, then press the → key to shift right.
2	Press ② four times, then press the → key to shift right.
(space)	Press ① one time, then press the → key to shift right.
A	Press ② one time, then press the → key to shift right.
C	Press ② three times, then press the → key to shift right.
M	Press ⑥ one time, then press the → key to shift right.
E	Press ③ two times, then press the → key to shift right.
&	Press ① two times, then press the → key to shift right.
C	Press ② three times, then press the → key to shift right.
O	Press ⑥ three times, then press the → key to shift right.
.	Press ① seven times, then press the → key to shift right.

TROUBLESHOOTING

TELEPHONE UNIT TROUBLESHOOTING TABLE

SYMPTOM	SOLUTION
No dial tone	<ul style="list-style-type: none"> • Check for the telephone line cord connectors at both ends that they are pushed in firmly until they click. • If you had a power failure or had unplugged the base unit, return the handset on the base unit for two to five seconds to reset the system.
Does not ring	<ul style="list-style-type: none"> • Check to see if the programmable ringer volume is set to OFF. Refer to the "Function ④: Setting Ringer Volume" section of the manual. • You may have exceeded the Ringer Equivalence Number (REN) limit of how many phones can be connected to the same line. The REN total of all devices (printed on the bottom label of each unit) should not exceed five (5). Disconnect the appropriate units to lower the REN total. • Check to see if you have programmed a number to be a blocked call. Refer to the "BLOCKED CALLS" section of the manual.
No power on the handset unit	<ul style="list-style-type: none"> • Check for the Ni-Cd battery pack connection inside the battery compartment on the handset. • The handset rechargeable Ni-Cd battery pack may need charging.
Does not charge	<ul style="list-style-type: none"> • Make sure the charging contacts on both the base unit and the handset is in contact during charging. • The charging contacts may need cleaning with an alcohol-moistened cloth.
Range is limited	<ul style="list-style-type: none"> • Raise or reposition the antenna on the base unit. • Move the base unit so that it is centrally located in your residence or office and make sure that the base unit is not located near appliances. • Refer to the "Technical Information" section regarding range.
Calls received flutters or fades	<ul style="list-style-type: none"> • The handset rechargeable Ni-Cd battery pack may need charging.
Interference on reception	<ul style="list-style-type: none"> • Choose an alternate channel using the SCAN button on the handset.

CALLER ID SYSTEM TROUBLESHOOTING TABLE

SYMPTOM	SOLUTION
The Caller ID LCD panel is blank	<ul style="list-style-type: none"> • Check the power connections. • Check the telephone line cord connections. • Check the batteries for proper installation. • The handset LCD panel will only start displaying information after the first call is received.
The Caller ID LCD panel does not show the caller's name and/or phone number	<ul style="list-style-type: none"> • The Caller ID unit will not function until you have Caller ID service provided by your local phone company. Call your local phone company to have Caller ID installed on your telephone line. • Check your telephone line connections. Make sure all connections are secure and connected. • If you have a telephone answering device (TAD) connected with the unit, set the TAD to answer after two rings or more. • If it is a blocked call or an out-of-area call, the caller's name and/or phone number will not appear on the display. Please refer to the "Receiving Caller ID Information" section for more details. • If only the caller's phone number appears on the display, it may be a Single Data Message Format (SDMF) call, as opposed to a Multiple Data Message Format (MDMF) call.
Random characters and/or "NO DATA SENT" appear on the LCD panel.	<ul style="list-style-type: none"> • On rare occasions, the Caller ID information sent by the telephone company may have an error in the transmission. This is not the fault of your Caller ID unit. It can only capture and store the data that was received.
Cannot erase call records in memory	<ul style="list-style-type: none"> • The Delete (DEL) button must be pressed and held for at least two seconds to erase a single call record. To erase all call records, press and hold the Delete (DEL) button for at least five seconds.
Cannot get Call Waiting identification on the LCD panel.	<ul style="list-style-type: none"> • Subscription to Caller ID Call Waiting (CIDCW) is required from your local phone company for the CIDCW function to operate properly. Call your local phone company for details.

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