IMPORTANT SERVICE INFORMATION

Read this manual before attempting to setup or use this instrument. It contains important information regarding safe installation and use. Keep this manual for future reference. Also save the carton, packaging and proof of purchase to simplify and accelerate any needed action. You can also visit our web site at http://www.nwbphones.com for technical support and information on our other products.

⚠ WARNING

To prevent fire or shock hazard, do not expose this product to rain or any type of excess moisture. If it is accidentally dropped into water, the AC adapter 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.

31070

CARTON CONTENTS

- 31070 Base and Handset
- Rechargeable Ni-Mh Battery Pack
- Telephone Line Cord
- AC Adaptor
- User's Manual
- Warranty Card
- Accessory Order Form

TABLE OF CONTENTS

SAVE THESE INSTRUCTIONS

⚠ **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 the cord will be abused by persons walking on it.
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 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.

⚠ 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

There is the risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to the instruction. Read and follow these instructions:

1. Use only the 2.4V, 600mAh, Ni-Mh 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

     The battery compartment door requires no modification then.
1.   The door of the battery compartment should NEVER be dismantled when charging.
2.   Do not TOUCH, REMOVE or INSTALL the battery pack when charging.
3.   ALWAYS with the compartment door on when charging.
4.   Do not charge the handset when the cover of battery compartment is missing. Call our service center before further operation.

SAVE THESE INSTRUCTIONS

⚠ **FCC NOTICE**

The FCC requires that you be advised of certain requirements involving the use of this telephone.
1.   This telephone is hearing aid compatible.
2.   This equipment complies with 47 CFR Part 68 requirements. On the bottom of this equipment is a label that contains, among other information, the ACTA registration number and Ringer Equivalence Number (REN) for this equipment. If requested, provide this information to your telephone company.
3.   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.
4.   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.

5. Your telephone company may make changes to its facilities, equipment, operations or procedures that could affect the proper function of your equipment. If they do, you will be given advance notice so as to give you an opportunity to maintain uninterrupted service.

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.).

7. USOC jack type is RJ11C and the compatible jack is part 68 compliance.

NOTICE: If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this [Equipment ID] does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

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 ensured 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.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
. Reorient or relocate the receiving antenna.
. Increase the separation between the equipment and receiver.
. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
. Consult the dealer or an experienced radio/TV technician for help.

061210C-1

CAUTION: To maintain the compliance with the FCC's RF exposure guideline, place the base unit at least 20 cm from nearby persons.

For a handset that has the potential to be used in a body worn configuration and has been tested and certified with a specific accessory device(s):
For body worn operation, this handset has been tested and meets the FCC RF exposure guidelines when used with the belt clip supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

SAR (Specific Absorption Rate) STATEMENTS:
1.   The equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment, under 47 CFR 2.1093 paragraph (d) (2).
2.   This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
     The DECT 6.0 Cordless Phone has been tested to the FCC exposure requirements of Specific Absorption Rate.

⚠   **AC ADAPTOR: Use only with Class 2 Transformer, 6VDC output, 250mA, center pin positive.**

31070 HANDSET CONTROLS DIAGRAM

Visual Ringer LED Indicator / IN USE LED Indicator

Dn / Dialed Button

LCD Display

Talk / Spk (Speaker Phone) Button

📖(Phonebook) / Option Button

Up / CID Button

Menu / OK Button

* / ← (Move Left) Button

Int (Intercom) Button

Talk off / Exit Button

Del (Delete) / Flash / ↵(Return) Button

 # / CONF / → (Move Right) / 🔒 (Lock Keypad) Button

Redial Button

Mute Button

Pa (Pause) Button
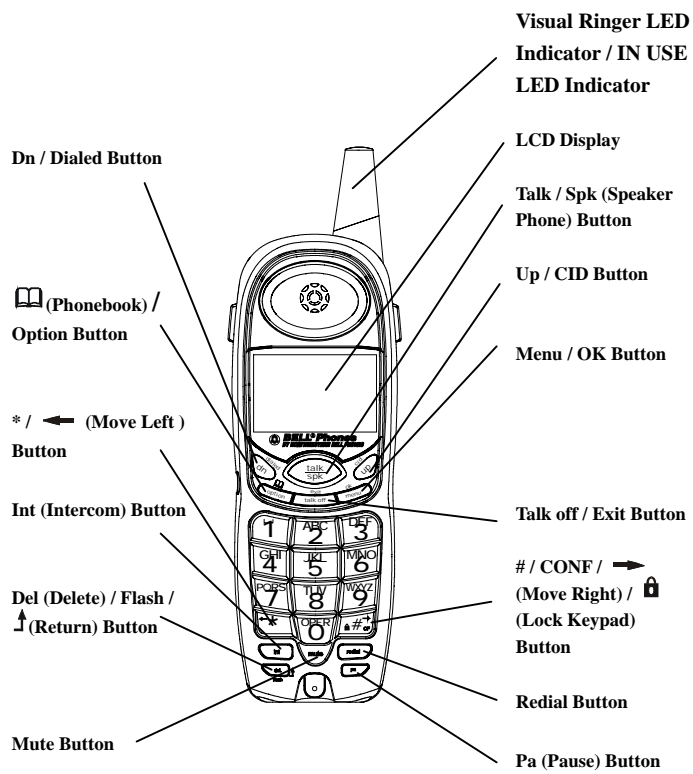
31070 BASE CONTROLS DIAGRAM

DC 6V Jack   Telephone Line Jack

IN USE/CHARGE
LED Indicator

PAGE Button
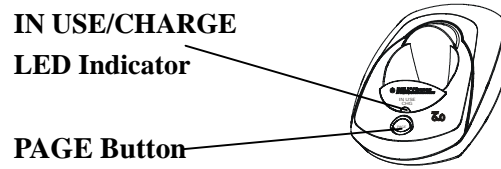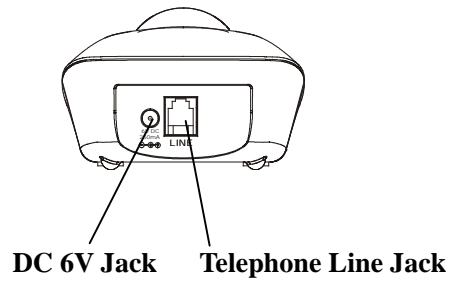
CONTROLS DESCRIPTIONS

HANDSET CONTROLS:

LCD Display - Shows call information, phone status, prompts and Phonebook items.

Visual Ringer LED Indicator / IN USE LED Indicator
(Visual Ringer LED Indicator) - Flashes to indicate the phone is ringing, as a signal to the user, when the ringer is switched off.
(**IN USE LED Indicator**) - Lights solid whenever the handset is in TALK mode. Turns off when the handset is not in use and out of the base unit.

MENU / OK Button - Press to access the program menu. Press to confirm a selection during menu operation.

OPTION / 📖 (Phonebook) Button - Allows you to change the format of displayed number. This button is used to access the Phonebook.

MUTE Button - In talk mode, this button allows you to temporarily disable the handset microphone The LCD Display will show "MUTE".

TALK OFF / EXIT Button – Press to end a call. This key is used to exit all modes of operation and return the handset and base unit to the idle mode.

TALK / SPK (Speaker Phone) Button - Press to make or answer a call. Press again to switch the Speaker Phone on or off.

INT (Intercom) Button - Use this to set up a conference call with an external line and an internal handset, to set up an internal call with another handset, or to transfer an incoming call to another handset.
   Note: Intercom Function is optional for Multi Handset version only.

Redial Button –Press to redial the last number you dialed.

Pa (Pause) Button –Press to insert pause while dialing.

DN (DOWN) / DIALED CALLS Button –Scrolls down through lists and menu options. Decreases the earpiece speaker volume during a call. The 31070 can save the last 10 dialed numbers. Review the redial list from idle mode.

UP/ CID (Caller ID) Button – Increases the earpiece volume during a call. Reviews the Caller List during stand by mode by scrolling UP through lists and menu options.

* / ⬅ **Button** - Used to temporarily change the dialing mode from Pulse to Tone when dialing in the Pulse mode. Press to move left on the large LCD Display.

 # / 🔒 **/ CF (Conference) /** ➡**Button** - Press to lock and unlock the keypad at standby mode. Press to activate 3-way conference. Press to move right on the large LCD Display.

DELETE / FLASH / ↱ **Button** - Press to delete items. Sends a hook flash to access custom calling features such as Call waiting or Three-way calling provided by you local phone company. Press to return to the previous menu. In standby mode to delete the MSG (✉) icon.

Microphone - Used for speaking with callers.

BASE UNIT CONTROLS:

Base Unit Charge Terminals - Used for charging handset batteries. We recommend that you clean these contacts periodically with an alcohol-moistened cloth or cotton swab.

IN USE LED Indicator / Visual Ringer LED Indicator
(**IN USE LED Indicator**) - LED flashes when the phone is in talk mode. LED blinks when you have incoming call. LED flashes when paging the handset. (**Visual Ringer LED Indicator**) Flashes to indicate the phone is ringing, as a signal to the user, when the ringer is switched off.

CHARGE LED Indicator - LED Lights up steadily when the handset is being charged on the base and turns off when the handset is removed from its cradle.

PAGE / Extra Handset Registration Button - Allows you to locate the handset when it is not on the base. Press and hold to enter to the base registration mode.

DC 6V Jack - A jack located on the rear side of the base unit used for connecting the AC adaptor to the base unit.

Telephone Line Jack – Accepts the line cord for connection to the telephone outlet.

INSTALLATION

⚠️ **CAUTION**: **USE ONLY THE Ni-Mh 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-Mh battery pack plug along the slot into the handset's battery connector as shown below.
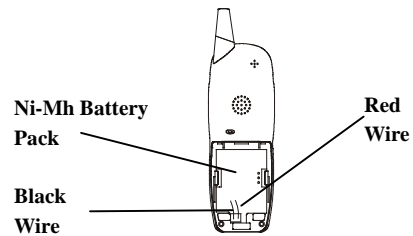
(Figure 1)

3. Insert the Ni-Mh battery into the battery compartment.
4. Replace the battery compartment cover by sliding it up towards the handset.

   Note: Use the type and size of Ni-Mh battery pack, 2.4V, 600mAh. It is recommended that the Ni-Mh battery pack should be fully charged overnight prior to initial use.

Belt Clip Installation

With the back of the handset facing up, insert one side of the belt clip hook into the matching slots at the top side of the handset as shown in Figure 2. Slide the other hook until it locks into place from the opposite side of the handset.

Belt clip hook
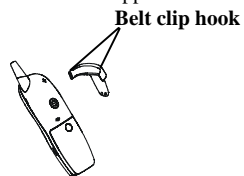
(Figure 2)

WALL USE:

Wall Mounting (Standard Wall Jack)

1. Install the wall mount bracket at the position as shown in Figure 3.
2. Connect the short telephone line cord to the TEL LINE jack.
3. Connect the opposite end of the telephone line cord to the modular wall jack.
4. Align the wall mounting slots with studs located on the modular wall plate and slide base down to lock in place.

Wall Mount Stud

Telephone Modular Jack

Wall Mount Stud
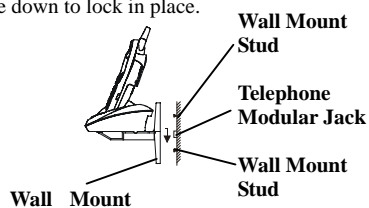
Wall Mount

(Figure 3)

<u>*Wall Mounting (No Standard Wall Jack)*</u>

1. Drill two holes with a vertical distance between the two marked positions of $3^{15/16}$" 100mm as shown in Figure 4.

$$3 \; 15/16"$$
(100mm)
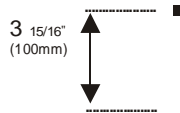
(Figure 4)

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. Place the unit onto the screws, and then slide it down firmly to fasten the base securely.

Uninstalling Wall Mount Bracket

To remove the wall mount bracket from the base unit, pull it forward as shown in Figure 5.
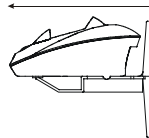
(Figure 5)

POWER CONNECTION

⚠ **CAUTION:** You must use a Class II, 120 Volt AC/6 Volt DC adaptor that delivers at least 250mA for base unit. The center tip must be positive and the plug must correctly fit the base unit's DC 6V 250mA jack.

1. Plug the AC adaptor into a standard AC outlet.
2. Insert the small plug into the DC 6V 250mA jack on the rear of the base unit and Insert the small plug into the DC 6V 250mA on the rear of the charger as shown in Figure 6.
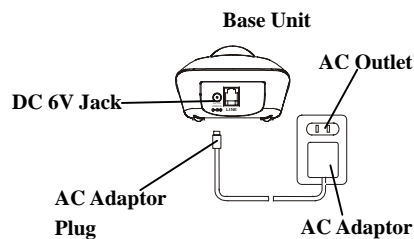
(Figure 6)

INITIAL SETUP

Setting to TONE or PULSE Dialing Mode:
- If your home is equipped with tone-dialing service set the TONE/PULSE setting to TONE (default setting of your phone is TONE).
- If you have a Pulse (Rotary) dialing service, set the TONE/PULSE change the setting to Pulse following the procedure on setting the TONE/PULSE.

If you are not sure which system you have, set the TONE/PULSE Set the phone to TONE. Press the [TALK Button] the handset to get a dial tone, and press any button on the [TELEPHONE Keypad] except the zero. If the dial tone continues, it means that you do not have TONE dialing service. Press the [OFF Button] on the handset to hang up. Set the TONE/PULSE setting to the PULSE and then try again.

TELEPHONE OPERATION

A. PLACE a CALL
1. Pick up the handset and Press [TALK/SPK Button]. The LCD Display will show " ☎ ".
2. Listen for a dial tone.
3. Dial the telephone number. The phone numbers appear on the LCD Display as you enter the number.
4. When finished with your call, Press [TALK OFF Button]. The Base IN USE LED indicator will light up steadily.

B. PLACE a CALL with SPEAKER PHONE
1. Press [TALK/SPK Button] twice for speaker mode. The Base unit IN USE LED indicator will flash.
2. Listen for a dial tone.
3. Dial the telephone number. The phone numbers appear on the LCD Display as you enter the number.
4. When finished with your call, Press [TALK OFF Button]. The Base IN USE LED indicator will light up steadily.

C. ANSWER a CALL
1. When the phone rings, the LCD Display will show "CALL", Press [TALK/SPK Button] on the handset.
2. Start your conversation.
3. To end your conversation, Press [TALK OFF Button].

D. ANSWER a CALL with SPEAKER PHONE
1. When the phone rings, the LCD Display will show "CALL", Press [TALK/SPK Button] twice on the handset for Speaker Phone mode.
2. Start your conversation.
3. To end your conversation, Press [TALK OFF Button].

If the Handset is on the Base:

1. When the phone rings, the LCD Display will show "CALL", simply pick up the handset from the base cradle if the unit is set to auto-answer ON mode. If the unit is set to auto-answer OFF mode, and Press [TALK/SPK Button] on the handset. The Base unit IN USE LED Indicator will flash.
2. Start your conversation.
3. To end your conversation, Press [TALK OFF Button], the Base IN USE LED Indicator will light up steadily.

DIAL ONE of the LAST 10 DIALED NUMBERS

1. Press [DIALED Button].
2. Press [UP or DN Button] to scroll through to the 10 previously called numbers, select the number you want to call back.
3. Press [TALK/SPK Button]. The selected number will be dialed automatically.

LAST NUMBER REDIAL

A.   After hearing a Busy Tone when placing a call.

1. If you get a busy tone, Press [TALK OFF Button] to hang up.
2. Press [TALK/SPK Button] again and listen for a dial tone.
3. Press [REDIAL Button]. This will automatically redial the last telephone number you called (up to 32 digits).
4. When finished with your call, Press [TALK OFF Button] or place the handset on the base unit. The Base IN USE LED indicator will light up steadily.

B.   When the Handset is "off" the Base Unit and in stand by Mode.

1. Press [TALK/SPK Button] on the handset and listen for a dial tone.
2. Press [REDIAL Button]. This will automatically redial the last telephone number that you called (up to 32 digits).
3. When finished with your call, Press [TALK OFF Button] or place the handset on the base unit. The Base IN USE LED indicator will light up steadily.

INTERCOM CALL *(Optional feature for Multi-Handset version only)*
1. In stand by mode, Press [INT Button] on the handset, and then enter the handset number that you want to call. The internal called handset will ring.
2. To answer the intercom call, Press [TALK/SPK Button] on the called party handset.
3. To end intercom mode, Press [TALK OFF Button].
    Note: After the Intercom Call is established between two handsets, the third handset can still make or answer a call to the external line.

CALL TRANSFER *(Optional feature for Multi-Handset version only)*
You can transfer an external call from on handset to another handset.
1. During an external call, Press [INT Button] and the corresponding handset number that you want to transfer.
2. The external call is put on hold and the internal called handset rings.
3. After the internal called handset has answered, Press [TALK OFF Button] to hang up your handset to complete the call transfer.
    Note: If the internal called handset does not answer the internal call with 30 seconds, the handset will return to the external call again.

CONFERENCE CALL *(Optional feature for Multi-Handset version only)*
When you are on an external call, you can invite another internal handset to join your conversation. A 3-way Conference can be established using the following procedure.
1. During a call, Press [INT Button] and corresponding handset number that you want to call.
2. The external call is put on hold and the internal called handset rings.
3. After the internal called handset has answered, you can Press [CONF Button] to activate 3-way conference call.
    Note: During a conference call, either handsets can hang up and it will not effect the conversation between another handset and the external call.

PAUSE FUNCTION

- In some cases, such as PABX or long distance service, a pause may be needed in the dialing sequence. Pressing [PA (Pause) Button] inserts a "pause" programmed time interval between dialed numbers.

FLASH FUNCTION

- Press [FASH Button] to access custom calling features such as Call Waiting or Three-Way Calling provided by your local phone company. Press [Flash Button] during dialing or placing calls, can also be used to restore a dial tone to make a new call.

LOW BATTERY WARNING

- When the handset battery voltage level is low, the "BATTERY LOW" icon will flash. When the battery is full, all cells will be shaded on the icon.
- Return the handset on the base cradle for charging the battery.
  Note: If the battery is low during a call, a warning beep will be emitted every 10 seconds to alert the user to charge the battery.

PAGING the HANDSET

- If you have misplaced the handset or need to alert a person near the handset, Press [PAGE Button] on the Base unit. Each press of [PAGE Button] will activate the handset to beep for 60 seconds. The LCD Display shows "PAGING…" and the Base IN USE LED Indicator will start to blink. Press [PAGE Button] again to stop.
  Note: Even if the handset is in RING OFF mode, the Base unit can still "Page" the handset.

HANDSET KEYPAD LOCK and UNLOCK

1. Press [MENU/OK Button].
2. Press [🔒 Button] to LOCK keypad, repeat procedure to UNLOCK.
Or Press and hold [🔒 Button] to LOCK keypad, repeat procedure to UNLOCK.

MENU FUNCTION PROGRAMMING

This phone contains the following special MENU Functions. To access, Press the [MENU/OK Button] at stand by mode, then Press [UP or DN Button] to select the function.

```
CALL LOG ──┬─ RECEIVED ──→ CID BOOK ──┐
           └─ DIALED ────→ LIST ──────┴──→ ADD TO PB
                                            DELETE
                                            DELETE ALL

PHONE BOOK ──┬─ LIST
             ├─ ADD ITEM ───→ NAME? ──→ NUMBER? ──→ MELODY ──→ MELODY1-12
             ├─ CHANGE ITEM
             ├─ DEL ITEM ────→ SELECT ENTRY ──→ CONFIRM?
             ├─ DELETE ALL ──→ CONFIRM?
             └─ PB STATUS

BS SETTING ──┬─ DEREGIS HS ──→ PIN? ──→ HS1
             │                          HS2
             │                          HS3
             ├─ DIAL MODE ──→ TONE      HS4
             │               PULSE      HS5
             ├─ FLASH TIME ─→ 100 ms
             │                250 ms
             │                300 ms
             │                600 ms
             ├─ MODIFY PIN ──→ PIN? ──→ NEW PIN ──→ CONFIRM
             └─ BS DEFAULT ──→ PIN?

HS SETTING ──┬─ ALARM ──→ ALARM ON ──→ HH:MM ──→ SNOOZE ON
             │            ALARM OFF              SNOOZE OFF
             │
             ├─ RING SET ──┬─ INT RING ──→ MELODY ──→ MELODY1-12
             │             │              VOLUME ──→ VOLUME OFF-3
             │             └─ EXT RING ──→ MELODY ──→ MELODY1-12
             │                            VOLUME ──→ VOLUME OFF-3
             │
             ├─ TONE SET ──┬─ KEY TONE ──→ ON
             │             │               OFF
             │             └─ BATTERY LOW ──→ ON
             │                                OFF
             │
             ├─ LANGUAGE ──→ ENGLISH
             │               FRENCH
             │               SPANISH
             ├─ HS LABEL
             ├─ AUTO ANSWER ──→ ON
             │                  OFF
             ├─ BARRING ──→ PIN? ──→ ON ──→ NUMBER 1 ──→ NUMBER ?
             │                       OFF    NUMBER 2
             │                              NUMBER 3
             │                              NUMBER 4
             ├─ DATE&TIME ──┬─ DATE FORMAT ──→ DD-MM
             │              │                  MM-DD
             │              ├─ SET DATE
             │              ├─ TIME FORMAT ──→ 12-HOUR
             │              │                  24-HOUR
             │              └─ SET TIME
             ├─ CONTRAST ──→ LEVEL 1
             │               LEVEL 2
             │               LEVEL 3
             ├─ AREACODE SET ──→ ***
             ├─ SELECT BS ──→ BASE 1
             │                BASE 2
             │                BASE 3
             │                BASE 4
             │                AUTO
             └─ HS DEFAULT ──→ PIN? ──→ PB CLR? Y/N

REGISTER ──→ BASE 1 ──→ PIN?
             BASE 2
             BASE 3
             BASE 4
```

CALLER ID OPERATION

Getting to know your New Telephone

IMPORTANT: Subscription to Caller ID (CID)/Call Waiting ID services from your Local Phone Company is required for using the Caller ID/Call Waiting ID features of 31070. Your new 31070 telephone gives you the ultimate in cordless telephone sound quality with the luxury of Caller ID and Call Waiting ID.

If this is your first cordless telephone, you will soon discover that your cordless is similar to regular telephones, except without the cord. If you have owned a cordless telephone in the past, you will discover that the 31070 telephone is the most powerful and full-functioned Call Waiting ID cordless telephone on the market, some key features are:

- 40 name and number Caller ID/Call Waiting ID memory (Call List)
- 50 name and number programmable memory (Phonebook)
- Hearing Aid Compatibility

Unlike regular telephones, your cordless telephone does not work during power failures. We do not recommend that you use a cordless telephone as the only phone in your residence.

INTRODUCTION to CALLER ID and CALL WAITING ID

The 31070 Caller ID/Calling Waiting 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:

Caller ID Questions and Answers:

| QUESTIONS	ANSWERS
What is Caller ID?	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.

What is Caller Waiting ID?	Call Waiting ID is a device that can also identifies the call waiting party before you answer a call.
How does Caller ID and Call Waiting ID work?	When used with Caller ID/Call Waiting service, the Caller ID/Call Waiting ID device displays the name (if available), and the telephone number (if available) of the person calling before you answer your telephone.
Who provides Caller ID service?	Your local telephone company. However, not all local telephone companies provide Caller ID service. Please call you local phone company to confirm that the service is available before you install the device.
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/Call Waiting ID service installed on you line. There is an extra charge added to your monthly telephone bill for this service. Before using this unit, please read instruction manual carefully.

Main MENU Function Programming 1 - CALL LOG:

RECEIVING a NEW CALL

- When you receive a New Call, the call information is stored in the CALLER ID List. The "NEW NUMBER" segment of the LCD Display shows the number of calls not yet reviewed.

- When you receive a call, the system displays the caller information sent by the telephone company, called a Call Record. The Call Record consists of the following information:
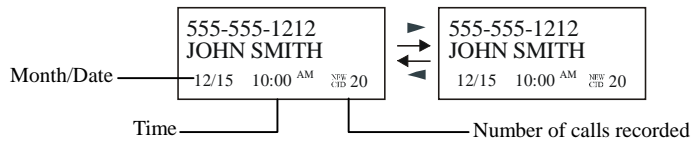
a.	The caller's telephone number
b.	The caller's name (if available)
c.	The date and time of the call

```
555-555-1212
JOHN SMITH
12/15   10:00 AM   NEW CID   20
```
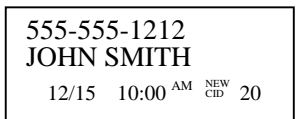
- If there are no call records, the LCD display shows "EMPTY" by pressing the CID button.

VIEWING the CALLER ID LIST

1. In stand by mode, Press [CID Button] to enter Caller ID list. If there is a new call(s), the new call(s) will be displayed first.

```
                              555-555-1212          ►   555-555-1212
                              JOHN SMITH           ⇄    JOHN SMITH
Month/Date ——— 12/15  10:00 AM  NEW CID 20     ◄    12/15  10:00 AM  NEW CID 20

              Time ———                                          ——— Number of calls recorded
```

2. Press [UP or DN Button] to scroll to the next call. The [DN Button] will go through the calls from the last call received to the first. The [UP Button] will allow you to view the calls from the first call received to the last.
3. Press [⬏ Button] to finish.
    Note: If no active buttons are pressed within 20 seconds, the LCD Display will automatically return to stand by mode.

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. If a second call comes in while you are having a conversation, you will hear a notification tone from the handset and volume is momentarily muted. The LCD Display will automatically show the name and number of the second caller.

2. Press [FLASH Button] to answer the second caller.
3. When you are finished, Press [FLASH Button] to continue your conversation with the first caller.

MESSAGE WAITING

When the Caller ID receives the Message Waiting signal from your local phone company, the ✉ icon on the LCD panel will be flashed. The ✉ icon will turn off after you have reviewed your messages. Message Waiting is an optional, extra service provided by your local phone company.

DELETE MESSAGE (✉) ICON
1. In standby mode, Press and hold [DEL/FLASH/↵ Button]. The LCD will show "DEL MESSAGE?".
2. Press [MENU/OK Button] to delete message icon.

PLACING a CALL from the CALLER LIST – OPTION DIALING
1. Press [CID Button].
2. Press [UP or DN Button] to select the call record you wish to call back. Each press of [OPTION Button] will change the format of display as follows;

> **7 – Digits:** 7 Digits Phone Number
> **10 – Digits:** 3 Digit Area Code + 7 Digits Phone Number
> **11 – Digits:** Long Distance Code "1" + 3 Digit Area Code + 7 Digits Phone Number.

3. Press [TALK/SPK Button] to dial out.
4. To end your conversation, Press [TALK OFF Button].

SAVING NAME and NUMBER from CALLER LIST into the PHONE BOOK
1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "CALL LOG".
3. Press [MENU/OK Button].

4. Press [UP or DN Button] to select "RECEIVED".
5. Press [MENU/OK Button].
6. Press [UP or DN Button] to scroll the call record you wish to store.
7. Press [MENU/OK Button].
8. Press [UP or DN Button] to select "ADD TO PB".
9. Press [MENU/OK Button] three times to confirm.
10. Press [UP or DN Button] to select the Melody 1-12.
11. Press [MENU/OK Button] to confirm.
12. Press [TALK OFF Button] to return to Idle Mode.

SELECTIVE DELETING from CALLER LIST
1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "CALL LOG".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "RECEIVED".
5. Press [MENU/OK Button].
6. Press [UP or DN Button] to scroll the call record you wish to delete.
7. Press [MENU/OK Button].
8. Press [UP or DN Button] to select "DELETE".
9. Press [MENU/OK Button] to confirm. The LCD will show "CONFIRM?".
10. Press the MENU/OK button to confirm.
11. Press the TALK OFF button to return to Idle Mode.

DELETING ALL RECORDS from CALLER LIST
1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "CALL LOG".
1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "RECEIVED".
3. Press [MENU/OK Button] twice.
4. Press [UP or DN Button] to select "DELETE ALL".
5. Press [MENU/OK Button] to confirm. The LCD will show "CONFIRM?".

6. Press [MENU/OK Button] to confirm.
7. Press [TALK OFF Button] to return to Idle Mode.

Main MENU Function Programming 2 -PHONEBOOK SETTING

SAVING in the PHONEBOOK
1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select " PHONE BOOK"
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "ADD ITEM".
5. Press [MENU/OK Button]. The LCD will show "NAME?".
6. Use [TELEPHONE KEYPAD Button] (0-9) to enter the name; (see the "TELEPHONE KEYPAD CHARACTERS SETTING" section) you can store up to 12 characters.
7. Press [MENU/OK Button]. The LCD will show "NUMBER?"
8. Enter the telephone number using the TELEPHONE KEYPAD button (0-9). You can store up to 20 digits.
9. Press [MENU/OK Button]. The melody name is displayed; the ringer tone will also be sounded. The default name to be displayed is "Melody 1". The user can move through the melody options using [UP or DN Button].
10. Press [MENU/OK Button] to confirm.
   Note: If there are no memory locations left in the phonebook, the unit will display "PB FULL". To continue with memory programming, you must delete or edit existing speed dial numbers. If no active buttons are pressed for 20 seconds, the LCD Display will automatically return to idle mode.

TELEPHONE KEYPAD CHARACTERS
The [TELEPHONE KEYPAD Buttons] (0-9) are used to enter the characters when entering names. Press the appropriate KEYPAD button to get the following characters.

KEYPAD BUTTON	CHARACTERS				
1	Space				
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
0	0				

For example, if you want to enter the character "C", Press "2" KEYPAD Button 3 times - 1st Press, letter "A" will be displayed, 2nd Press "B" will be displayed, and the 3rd Press will display "C".

VIEWING the PHONEBOOK [📖]

The Phonebook lets you scroll through the Phone Book directory to find the name and telephone number of the person you need for one touch dialing. You can store up to 50 names and telephone numbers in the Memory.

1. Press [📖 Button].

2. Press [UP or DN Button] to find the name or telephone number you need.

```
┌──────────────┐         ┌──────────────┐
│ 6045551212   │    ►     │ 6045551212   │
│ ALEX BROWIN  │  ──────  │ ALEX BROWIN  │
│              │    ◄     │              │
└──────────────┘         └──────────────┘
```

Note: To exit the Phonebook at anytime, Press [↵ Button].

EDITING NAME and NUMBER in the PHONEBOOK

1. Press [MENU/OK button].
2. Press [UP or DN Button] to select " PHONE BOOK"
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select " CHANGE ITEM"
5. Press [MENU/OK Button].
6. Press [UP or DN Button] to select desired change.
7. Press [MENU/OK Button].
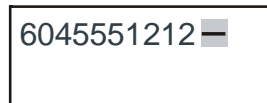8. Press [TELEPHONE KEYPAD button to edit the name.

```
ALEX BROWIN
```
   ▓ cursor is blinking

To erase, Press [DELETE Button] to remove previous letter.
To add, use [TELEPHONE KEYPAD Buttons] (0-9).

9. Press [MENU/OK Button] to edit the number.
10. Press [TELEPHONE KEYPAD Button] to edit the number you want to change.

```
6045551212 ▬
```
   ▓ cursor is blinking

To erase, Press [DELETE Button] to remove previous number.
To add, use [TELEPHONE KEYPAD Buttons] (0-9).

11. Press [MENU/OK Button]. The melody name is displayed; the ringer tone will also be sounded. The default name to be displayed is the "Melody 1". The user can move through the melody options using [UP or DN Button].
12. Press [MENU/OK Button] to confirm.
    Note: When no active buttons are pressed within 20 seconds, the LCD Display will automatically return to stand by mode.

PLACING CALLS from the PHONEBOOK

1. Press [📖 Button].
2. Press [UP or DN Button] to find the contact you want to call.
3. Press [TALK/SPK Button] to dial out the telephone number.
4. Start your conversation.
5. To end your conversation, Press [TALK OFF Button].

     NOTE: Be sure to check that the line is not in use by another extension.

DELETING a STORED NUMBER

1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "PHONE BOOK".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "DEL ITEM".
5. Press [MENU/OK Button].
6. Press [UP or DN Button] to select desired deletion.
7. Press [MENU/OK Button], the LCD will show "CONFIRM?".
8. Press [MENU/OK Button] to confirm.
9. Press [TALK OFF Button] to return to stand by Mode.

DELETING ALL STORED NUMBERS

1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "PHONE BOOK".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "DELETE ALL".
5. Press [MENU/OK Button], the LCD will show "CONFIRM?"
6. Press [MENU/OK Button] to confirm.
7. Press [TALK OFF Button] to return to Idle Mode.

(PHONEBOOK) PB STATUS

This function allows the user to see how many entries in the Phone Book are occupied. On entering the Phone Book function, the user will see the number of Phone book entries.

1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "PHONE BOOK".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "PB STATUS".
5. Press [MENU/OK Button] to see how many entries.
6. Press [TALK OFF Button] to return to Idle Mode.

Main MENU Function Programming 3 – BASE (BS) SETTING

(Handset De-Registration) DEREGIS HS SETTING
(DE-REGISTRATION for Multi Handset version only)
This function allows the user to delete (De-Register) a handset from the Multi handset set-up.
1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "BS SETTING".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "DEREGIS HS".
5. Press [MENU/OK Button].
6. Enter the PIN number.
7. Press [MENU/OK Button].
8. Press [UP or DN Button] to select HS (Handset) number.
9. Press [MENU/OK Button].
10. Press [TALK OFF Button] to return to idle mode.

DIAL MODE SETTING
The user can select to change the Dialing Mode from TONE or PULSE.
1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "BS SETTING".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "DIAL MODE".

5. Press [MENU/OK Button].
6. Press [UP or DN Button] to select TONE or PULSE.
7. Press [MENU/OK Button] to confirm.
8. Press [TALK OFF Button] to return to idle mode.

FLASH TIME SETTING

The user can select to change the Flash Time.
1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "BS SETTING".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "FLASH TIME".
5. Press [MENU/OK Button].
6. Press [UP or DN Button] to select 100MS, 250MS, 300MS or 600MS.
7. Press [MENU/OK Button] to confirm.
8. Press [TALK OFF Button] to return to idle mode.

MODIFY PIN SETTING

This function allows the user to change the pin number of the currently active
Base.
1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "BS SETTING"
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "MODIFY PIN".
5. Press [MENU/OK Button].
6. Enter PIN NUMBER. **(The factory default is "0000")**
7. Press [MENU/OK Button]. The LCD will show "NEW PIN".
8. Enter the new pin number.
9. Press [MENU/OK Button]. The LCD will show "CONFIRM".
10. Enter the new pin number again.
11. Press [MENU/OK Button] to confirm.
12. Press TALK OFF Button] to return to Idle mode.

Note: The PIN number is very important. If you lost the PIN number, you can not restore to the factory default setting.

(BASE) BS DEFAULT SETTING

This function allows the user to restore the Base setting to the factory default.
1.   Press [MENU/OK Button].
2.   Press [UP or DN Button] to select "BS SETTING".
3.   Press [MENU/OK Button].
4.   Press [UP or DN Button] to select "BS DEFAULT".
5.   Press MENU/OK Button].
6.   Enter the modified PIN NUMBER.
7.   Press [MENU/OK Button] to confirm.

Main MENU Function Programming 4 - HANDSET (HS) SETTING

ALARM SETTING

The alarm feature can alert you at a set time. When the alarm is alerting, your handset ring for 30 seconds. To stop the alarm, simply press any key on the handset.
1.   Press [MENU/OK Button].
2.   Press [UP or DN Button] to select "HS SETTING".
3.   Press [MENU/OK Button].
4.   Press [UP or DN Button] to select "ALARM".
5.   Press [MENU/OK Button].
6.   Press [UP or DN Button] to select ALARM ON.
7.   Press [MENU/OK Button] to set ALARM TIME.
8.   Press [TELEPHONE Keypad Button] to enter the hour and minute, Press [UP or DN Button] to select PM or AM.
9.   Press [MENU/OK Button] to confirm.

10. Press [UP or DN Button] to select SNOOZE ON or SNOOZE OFF.
11. Press [MENU/OK Button] to confirm.
12. Press [TALK OFF Button] to return to idle mode.
    Note: If setting the "SNOOZE ON" temporarily halts the alarm from sounding when the alarm rings.

ALARM OFF
1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "HS SETTING".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "ALARM".
5. Press [MENU/OK Button].
6. Press [UP or DN Button] to select "ALARM OFF".
7. Press [MENU/OK Button] to confirm.
8. Press [TALK OFF Button] to return to idle mode.

RING SETTING
The user is able to change the settings for the Handset ringing on Internal Calls. The user is able to adjust the internal ring volume from the range of volume levels available. The user is able to change the settings for the Handset ringing on External Calls. The user is able to adjust the external ring volume from the range of volume levels available.
1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "HS SETTING".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "RING SET".
5. Press [MENU/OK Button].
6. Press [UP or DN Button] to select "INT RING" or "EXT RING".
7. Press [MENU/OK Button].
8. Press [UP or DN Button] to select "MELODY" or "VOLUME".
9. Press [MENU/OK Button].

10. Press [UP or DN Button] to select "MELODY 1-12". Press [UP or DN Button] to select Volume OFF, 1, 2, 3.
11. Press [MENU/OK Button] to confirm.
12. Press [TALK OFF Button] to return to idle mode.

TONE SETTING

A beep will sound when a key is pressed on the handset. A beep will sound then the battery is low. A beep will sound then the Handset is out of range of the Base.

1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "HS SETTING".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "TONE SET".
5. Press [MENU/OK Button].
6. Press [UP or DN Button] to select KEY TONE, BAT LOW.
7. Press [MENU/OK Button].
8. Press [UP or DN Button] to select ON or OFF.
9. Press [MENU/OK Button].
10. Press [TALK OFF Button] to return to idle mode.

LANGUAGE DISPLAY SETTING

This telephone offers ENGLISH, FRENCH, SPANISH languages for your convenience. To select the Language;

1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "HS SETTING".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "LANGUAGE".
5. Press [MENU/OK Button].
6. Press [UP or DN Button] to select desired language.
7. Press [MENU/OK Button] to confirm.
8. Press [TALK OFF Button] to return to idle mode.

HANDSET NAME (HS) LABEL SETTING

1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "HS SETTING".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "HS LABEL".
5. Press [MENU/OK Button].
6. Use the [TELEPHONE KEYPAD button] (0-9) to enter the name. The handset name is limited to 12 characters.
7. Press [MENU/OK Button] to confirm.
8. Press [TALK OFF Button] to return to idle mode.

AUTO ANSWER SETTING

1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "HS SETTING".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "AUTO ANS".
5. Press [MENU/OK Button].
6. Press [UP or DN Button] to select ON or OFF.
7. Press [MENU/OK Button] to confirm.
8. Press [TALK OFF Button] to return to idle mode.

BARRING SETTING

The Handset can be set to disable external outgoing calls. The user is able to select enable/disable for this feature. Note that internal calls to intercom or conference will still be available.

1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "HS SETTING".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "BARRING".
5. Press [MENU/OK Button].
6. Enter PIN NUMBER.

7. Press [MENU/OK Button].
8. Press [UP or DN Button] to select ON or OFF, to select ON, and
    Press [MENU/OK Button]
9. Press [UP or DN Button] select "NUMBER 1, 2, 3, 4".
10. Press [MENU/OK Button]. The LCD will show "NUMBER?"
11. Use the [TELEPHONE Keypad Buttons] enter to disable the previous
    number you want to dial the external outgoing calls (maximum for four
    digits).
    To erase, Press [DELETE button] to remove previous number
    To add, use the [TELEPHONE Keypad] (0-9).
12. Press [MENU/OK Button] to confirm.
13. Press [TALK OFF Button] to return to idle mode.

DATE and TIME SETTING
1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "HS SETTING".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "DATE&TIME".
5. Press [MENU/OK Button].
6. Press [UP or DN Button] to select "DATE FORM", "SET DATE", "TIME
    FORM" or "SET TIME".
7. Press [MENU/OK Button] to confirm.
8. **DATE FORM SETTING** - Press [UP or DN Button] to select "DD-MM"
    or "MM-DD".
    SET DATE - Use the [TELEPHONE Keypad] (0-9) to enter the date.
    TIME FORM SETTING - Press [UP or DN Button] to select 12-HOUR
    or 24-HOUR.
    SET TIME - Use the [TELEPHONE Keypad] (0-9) to enter the time.
9. Press [MENU/OK Button] to confirm.
10. Press [TALK OFF Button] to return to idle mode.

CONTRAST SETTING

1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "HS SETTING".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "CONTRAST".
5. Press [MENU/OK Button].
6. Press [UP or DN Button] to select level 1, 2, 3.
7. Press [MENU/OK Button] to confirm.
8. Press [TALK OFF Button] to return to idle mode.

AREA CODE SETTING

This function allows user to preset an area code for CID incoming call display. (Maximum 3 digits). This feature can hide the area code that you specify, so when a local call is incoming, you will only see the 7 digit telephone number without the area code, even call back the number as 7 digits in caller ID.

1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "HS SETTING".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "AREACODE SET".
5. Press [MENU/OK Button].
6. Use the [TELEPHONE Keypad] (0-9) to enter the AREA CODE.
7. Press [MENU/OK Button] to confirm.
8. Press [TALK OFF Button] to return to idle mode.

SELECT BASE SETTING

This function allows the user to select a base from those already registered to the handset.

1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "HS SETTING".
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "SELECT BS".

5. Press [MENU/OK Button].
6. Press [UP or DN Button] to select "BASE 1, 2, 3, 4 or AUTO".
7. Press [MENU/OK Button] to confirm.

HANDSET (HS) DEFAULT SETTING
This function allows the user to restore the Handset settings to the factory default.
1. Press [MENU/OK Button].
2. Press [UP or DN Button] to select "HS SETTING"
3. Press [MENU/OK Button].
4. Press [UP or DN Button] to select "HS DEFAULT"
5. Press [MENU/OK Button]. The LCD will show "PIN?"
6. Press [MENU/OK Button] to confirm. The LCD will show "PB CLR? Y/N"
7. Press [UP or DN Button] to select "YES" to clear all previous phonebook setting.
8. Press [MENU/OK Button] to confirm.

Main MENU Function Programming 5 – REGISTER

EXTRA HANDSET REGISTRATION:
    Note: Maximum of 5 handsets can be registered or linked to the same Base Unit and Maximum of 4 Bases per handset.

You can purchase additional handsets for multi-handset use with many of this telephone's features. Make sure the battery is connected and the base is powered on before starting the operation.
1. Press and hold [PAGE Button] on the base unit until the Base IN USE LED Indicator flashes.
2. Press [MENU/OK Button].
3. Press [UP or DN Button] to select "REGISTER".

4. Press [MENU/OK Button].
5. Press [UP or DN Button] to select desired base number. Press [MENU/OK Button] to confirm. The LCD will show "SEARCHING NUMBER".
6. When the handset has been successfully registered, the PIN Code screen will be displayed, PIN number should be entered.

   The factory preset DEFAULT PIN Number is "0000".

7. Press [MENU/OK Button] to confirm. The tone will be sounded and the Base assigns a number to the Handset.
   Note: When you want to add a new extension handset, you must register the new handset to the base unit (refer to Handset Registration section).

SECURITY CODING
1. The length of the handset security code is 16 bytes, i.e. 128 bits.
2. The length of the base security code is 16 bytes, i.e. 128 bits.
3. The total numbers of possible discrete digital codes are 2^{128}. This is equal to about 3.4 x 1038 different combinations.
4. Each handset or base unit has a unique security code.
5. Generation of the security code is by employing a sequential fixed approach. During manufacturing, the code will be generated and programmed into the EEPROM of the unit.

SELECTED CHANNEL
The unit may pre-scan available channels and store the detected power levels in memory to facilitate fast selection of a channel when access is required. Since some amount of time is required for a complete scan, the stored power level for a selected channel may have "aged' since the measurement was taken. The unit is therefore required to re-monitor the selected channel immediately prior to transmission.

68,719,476,736 COMBINATION SECURITY CODING

The cordless telephone has a digital coding security system to prevent unauthorized use of your telephone line by other cordless phones nearby. The cordless telephone has 68,719,476,736 possible security code combinations. Each combination of the code is randomly generated by factory equipment.

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 degradation in cordless reception.
- Keep the handset batteries charged as much as possible. Weak handset batteries can limit the range of cordless operation.

MAXIMIZING BATTERY LIFE

Repeated use or recharge of Ni-Mh batteries without periodic full discharge results in reduced useable charge time. When you notice the usable charge duration decreasing, fully discharge the Ni-Mh battery and recharge as described:

DISCHARGING

1. Unplug the telephone line cord from the 31070.
2. Make sure that the adapter is connected.
3. Lift the handset out of the base cradle.
   Note: When the handset battery voltage level is low, the "BATTERY LOW" icon will flash. Let it fully discharge for 14 hours. Once the Ni-Mh battery is fully discharged, you should now charge the battery to its full capacity.

CHARGING

1. Make sure the adapter and telephone line cord are connected to the 31070.
2. Place the handset on the base cradle. The CHARGE LED indicator of the base unit will light steadily.
3. Leave the handset charging on the base for 14 hours continuously to get a maximum charge.
4. The 31070 is now ready for regular use. Discharge and charge the Ni-Mh battery again once you notice a decrease in the useable charge time.

MAINTENANCE

1. Your phone should be situated away from heat sources such as radiators, heaters, stoves or any other appliance that produces heat.
2. Use a slightly 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.

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 minor annoyances and should not be interpreted as defects 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.

TROUBLESHOOTING

A. TELEPHONE UNIT TROUBLESHOOTING TABLE

SYMPTOM	SOLUTION
No dial tone	• Check the telephone line cord connectors at both ends to see that they are pushed in firmly until they click. • If you had a power failure or unplugged the base unit, replace the handset on the base unit for two to five seconds to reset the system.
Does not ring	• Check the RINGER mode on the handset. For normal use, set to RING 1,2,3,4. The handset will not ring in OFF mode. • Check the telephone line cord connectors at both ends to see that they are pushed in firmly until they click. • 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.

No power on the handset unit	• Check the Ni-Mh battery pack for proper connection inside the battery compartment on the handset. • The handset rechargeable Ni-Mh pack may need charging.
Does not charge	• Check the Ni-Mh battery pack for proper connection inside the battery compartment on the handset. • Make sure the charging contacts on both the base unit and the handset are in contact during charging. • The charging contacts and terminals may need cleaning with an alcohol-dampened swab.
Range is limited	• 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. • The handset Ni-Mh battery may be weak. Recharge the Ni-Mh battery. • Refer to the section "Improving Cordless Reception".
Calls received flutters or fades	• The handset rechargeable Ni-Mh battery pack may need charging.
Interference on reception	• Refer to the section "Improving Cordless Reception".
Excessive static	• Refer to the section "Improving Cordless Reception".

B. CALLER ID SYSTEM TROUBLESHOOTING TABLE

SYMPTOM	SOLUTION
The Caller ID	• Check the power connection.

display is blank	• Check the telephone line cord connections.
	• Check the batteries for proper installation.
The Caller ID does not show the caller's name and/or phone number	• 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 activated onto your telephone line
	• If you pick up the phone before the second ring, the caller information will not be correctly received. If you have a telephone answering device (TAD) connected to 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.
	• 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. Please call your local phone company to see which service you have.
Random characters and/or "NO DATA" appear on the LCD display	• 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 get Call Waiting identification on the LCD panel	• Subscription to Caller ID Call Waiting (CIDCW) service is required from your local phone company for the CIDCW function to operate properly. Call you local phone company for details.

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