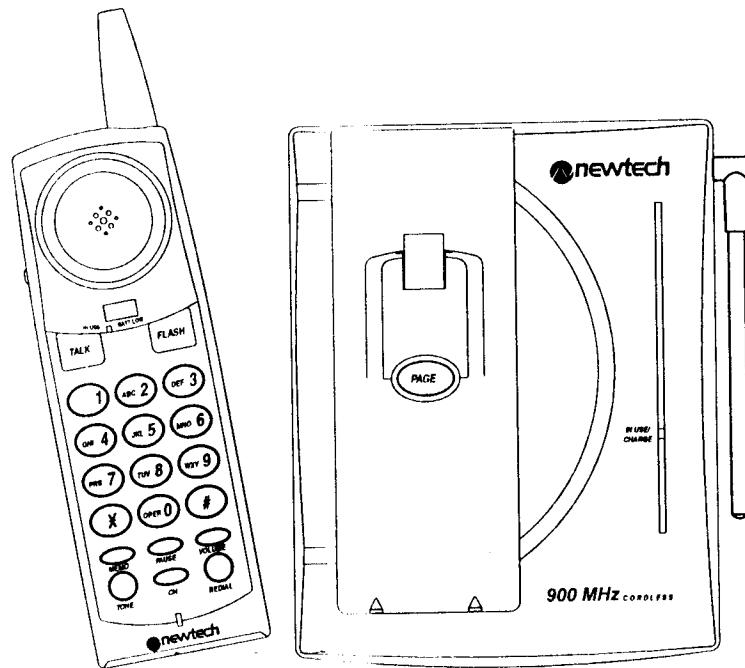# ⋀newtech®

OWNER'S MANUAL

900 MHz CORDLESS TELEPHONE
PLEASE READ BEFORE OPERATING THIS EQUIPMENT

Model : CP-5900

⚠ IMPORTANT

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, packing and proof of purchase to simplify and accelerate any needed action. If you need assistance or service, call 1-800-231-9069.

⚠ 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.**

CP-5900

CARTON CONTENTS

- CP-5900 Base and Handset

- AC Adaptor (12Vdc, 200 mA, Center Positive)

- Owner's Manual

- Warranty Card

- Memory Index Card

- Ni-Cad Battery Pack

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TABLE OF CONTENTS

⚠ 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.

⚠ 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. 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, other similar surface. 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 the 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 telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.

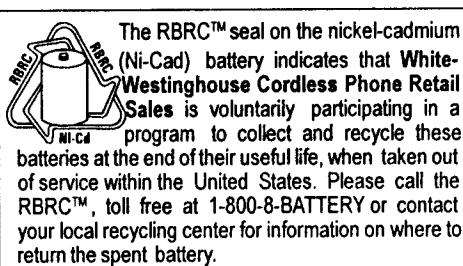14. Do not use the telephone to report a gas leak in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

⚠ BATTERY 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.

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 conductive material such as rings, bracelets and keys. The battery or conductors 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 a 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 RBRC™ seal on the nickel-cadmium (Ni-Cad) battery indicates that White-Westinghouse Cordless Phone Retail Sales is voluntarily participating in a program to collect and recycle these batteries at the end of their useful life, when taken out of service within the United States. Please call the RBRC™, toll free at 1-800-8-BATTERY or contact your local recycling center for information on where to return the spent battery.

RBRC™ is a trademark of the Rechargeable Battery Recycling Corporation

⚠ FCC NOTICE

The FCC requires you to 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 RENs of all devices should not exceed five (5). To be certain of the number of devices you may connect to your line, as determined by REN, you should call your local telephone company to determine the maximum REN for your calling area.

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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 call 1-800-231-9069 or write to P.O. Box 69-4176 Miami, Fla. 33269-4176 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 tarrifs. (Contact your state public utility commission or corporation commission for information).

WARNING : Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE : This equipment has been tested and found to comply with the limits for 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. Some cordless telephones operate at frequencies that may cause interference to nearby TV's and VCR's; to minimize or prevent such interference, the base of the telephone should not be placed near or on top of the TV or VCR; and, if interference is experienced, moving the Cordless Phone farther away from the TV or VCR will often reduce or eliminate the interference.

NOTICE TO HEARING AID WEARERS: This Cordless Telephone has been registered with the FCC as hearing aid compatible.
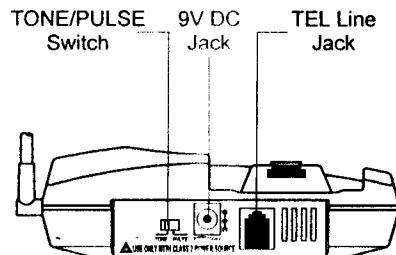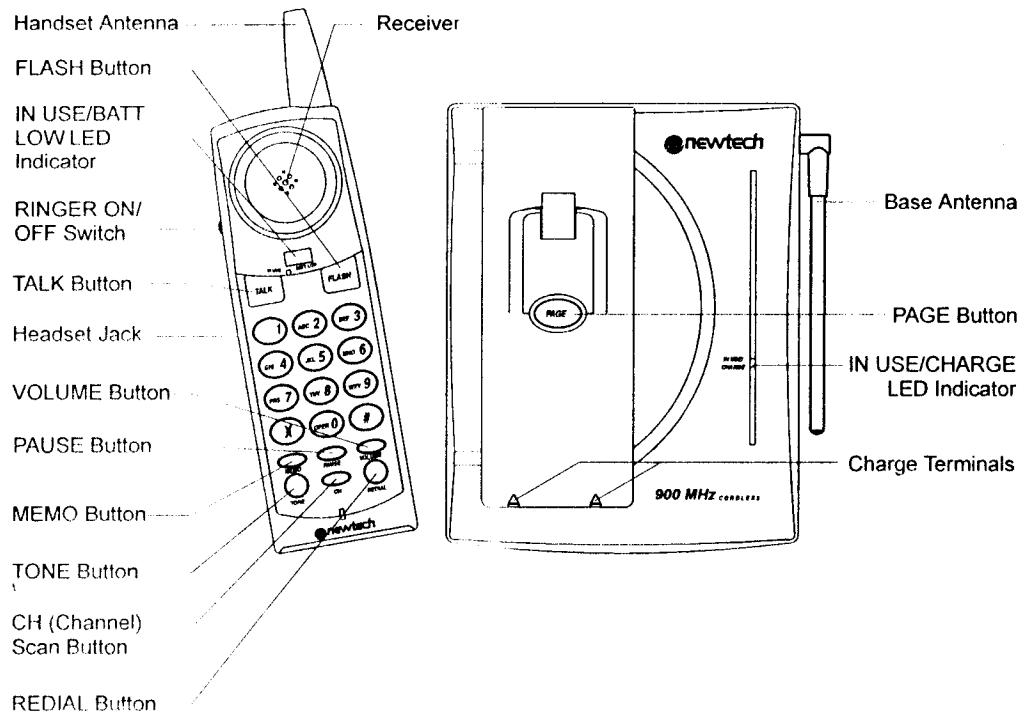
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one 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.

⚠ AC ADAPTOR
Use ony with Class 2 Transformer, 120V AC, 9V DC output, 200mA.

CP-5900 CONTROLS DIAGRAM

Handset Antenna — Receiver

FLASH Button

IN USE/BATT
LOW LED
Indicator

RINGER ON/
OFF Switch

TALK Button

Headset Jack

VOLUME Button

PAUSE Button

MEMO Button

TONE Button

CH (Channel)
Scan Button

REDIAL Button

Base Antenna

PAGE Button

IN USE/CHARGE
LED Indicator

Charge Terminals

900 MHz cordless

TONE/PULSE   9V DC   TEL Line
Switch   Jack   Jack

**Base Unit
(Rear Side View)**

DESCRIPTIONS

HANDSET CONTROLS :

Antenna - A user replaceable, rubber antenna which is designed for best reception.

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.

IN USE/BATT LOW LED Indicator - Lights solid when handset is in use. Blinks when battery power is low.

RINGER ON/OFF Switch - Switch to OFF to conserve battery power. Set to ON for normal use.
NOTE: Handset ringer is temporarily disabled in RINGER OFF mode.

TALK Button - Use to place, receive or terminate a call.

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

Volume Button - Press this button to toggle between high or low handset receiver volume.

PAUSE Button - Used to insert a "pause" in the dialing sequence while storing numbers in memory (for use in PABX or long distance services).

Memory (MEMO) Button - Used to store 10 phone numbers (up to 16 digits each) or dial any of the stored phone numbers in the 10 memory locations.

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.

Channel (CH) Button - Used to manually select one of the 40 operat-ing channels when you experience interference on the handset.

REDIAL Button - Used to automatically dial the last phone number dialed from the handset.

BASE CONTROLS:

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

PAGE Button - Allows you to locate the handset when it is not on the base.

IN USE/CHARGE LED Indicator - Lights solid when the handset is in the TALK mode. Lights solid when the handset is being charged by the base unit.

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

TONE/PULSE Dialing Switch - Allows you to switch the dialing mode to either Tone or Pulse dialing.
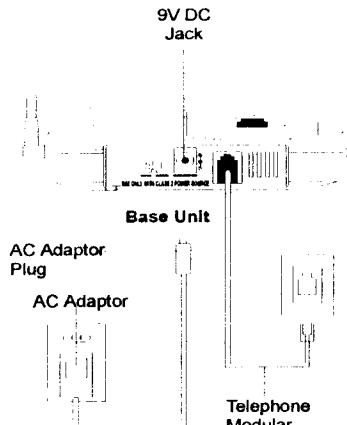
9V DC Jack - Used for connecting the small plug of the AC adaptor.

TEL Line Jack - A modular RJ-11 connector where one end of the telephone line cord connects to.

Wall Mount Hook - Reverse the position for wall mounting purpose.

INSTALLATION

⚠ **CAUTION** : You must use a Class II, 120 Volt AC/12 Volt DC Adaptor that delivers at least 200 mA. The center tip must be positive and the plug must correctly fit the unit's DC 9V jack.
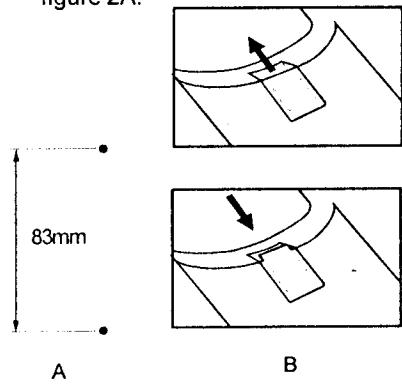
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9V DC
Jack

Base Unit

AC Adaptor
Plug

AC Adaptor

Telephone
Modular
Line Jack

(Fig. 1)

Desk Top Installation

1. Plug telephone line cord into modular jack.
2. Press until locking lever clicks.
3. Connect AC adaptor into back of the unit and plug directly into standard 120 volt outlet.
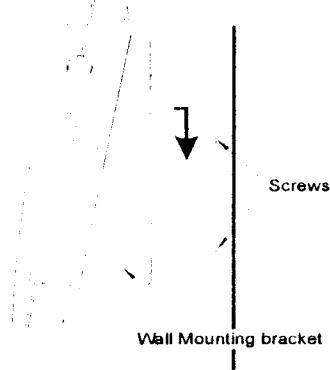
Wall Mounting

1. Drill two holes with a vertical distance between the two marked positions of 83mm as shown in figure 2A.

83mm

A   B

(Fig. 2)

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. Reverse the position of wall mount hook on base as shown in figure 2B.
4. Insert AC adaptor Plug into back of base unit.
5. Plug the telephone line cord into the wall modular jack.
6. Hang the unit onto the screws, then slide it down firmly to fasten the base securely, as shown in figure 3.
7. Plug AC adaptor directly into standard 120 volt outlet.

Screws

Wall Mounting bracket

Base Unit (Side View)

(Fig. 3)

Installing the Battery

1. Remove battery compartment cover of the handset by pressing the raised rib and sliding it down.
2. Plug the battery pack plug along the slot into the handset's battery connector.
3. Insert the battery pack into the battery compartment.
4. Return the battery compartment cover by sliding it up towards the handset.

NOTE: It is recommended that the Ni-Cad battery should be fully charged overnight prior to initial use. Refer to the "Maximizing Ni-Cad Battery Life" section of the manual.

For battery replacement please call 1-800-321-6993 and order Part # WW01

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TELEPHONE OPERATION

Preparing for inital Use

1. Charge the Ni-Cad battery as described in the "Maximizing Ni-Cad Battery Life" section on page 12.
2. Raise the antenna on the base unit for best reception.
3. Push the handset **TALK** button to confirm that you have a dial tone.
4. If you do not get a dial tone, review the steps mentioned in the Installation section of this manual.

NOTE: Refer to the Troubleshooting section of the manual if you still cannot get a dial tone.

To Place a Call

1. Press the **TALK** button on the handset. The **IN USE/BATT LOW LED** indicator will flash rapidly while scanning for a clear channel. The indicator will light up solid when it finds a clear channel.
2. Listen for the dial tone.
3. Dial the phone number.

To Receive a Call

If the handset is on the base:
* Since the **CP-5900** features "Auto-Answer", simply pick up the handset from the base cradle when the phone rings and start conversation with the caller.

If the handset is out of the base:
* Press the **TALK** button on the handset and start conversation with the caller.

To End a Call

Since the **CP-5900** features "Auto-Standby," simply return the handset to the base or press the **TALK** button if you are away from the base unit.

Last Number Redial

If you get a busy signal, you can use the Redial function to automatically dial the last phone number dialed.

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

Flash Function

Used 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** button once on the handset inserts a 2-seconds delay between dialed numbers. Pause(s) can be inserted into the programmed dialing sequence in memory dialing.

Mixed Mode Dialing (Temporary Tone Dialing)

If you have pulse dialing, to access special services (Bank by one,etc), requires a touch tone signal. Press the **TONE** button to switch from Pulse to Tone dialing temporarily. Pulse dialing mode resumes when the call is ended.

Using the Headset Feature

Your telephone can utilize a headset (not included) to be connected to your handset for you to enjoy a hands free communicaton.

NOTE: When you plug in the headset plug into the headset jack it automatically mutes the microphone and speaker of the handset. Unplug the headset to return the handset to normal use.

Headsets are available at most retail outlets that sell telephone equipment. The headset jack is compatible with 2.5 mm headset plugs only.

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.

Channel Scan (Manual)
- If the existing channel becomes noisy or starts having interference, press the **CH** button on the handset. The unit will automatically scan for the best channel available.

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

Memory Dialing
You can store and recall up to 10 phone numbers (up to 16 digits each) from the handset. A memory index card is provided to record the stored numbers.
Storing Telephone numbers
1. Make sure that the handset is in the standby mode (**IN USE/BATT LOW LED** indicator is off and the base unit **CHARGE/IN USE LED** indicator is off).
2. Press the memory (**MEMO**) button on the handset.
3. You will hear one beep.
4. Enter the telephone number you want to store (maximum of 16 digits) on the handset.
5. Press the **MEMO** button again.
6. Press a memory location where you want to store the phone number (0 to 9). You will hear one confirmation beep.
7. Write the name of the person or company beside the corresponding memory index card that is provided with the unit.
8. Repeat steps 1 to 6 to store additional telephone numbers.

Example:
To store the number 115-1968 under index number 1 on the keypad:
1. Press **MEMO** button.
2. Enter 115-1968.
3. Press **MEMO** button again.

4. Press ① on the keypad.
5. You have stored 115-1968 in memory location 1.

NOTES:
- The maximum number of digits that can be stored for each phone number is 6 digits both in pulse and tone mode. The limit is only 15 digits when using Mixed Mode Dialing.
- Pauses can be programmed into a memory dialing sequence. Each pause occupies one digit. If you are using switchboard system to access an outside line, press the **PAUSE** button on the handset to store a pause.

Recalling a Number from Memory
1. Press the **TALK** button on the handset.
2. Press the **MEMO** button on the handset.
3. Press the index number (0 - 9) on the keypad for the number you have stored. The stored number will be dialed automatically.

Example:
To recall the number 115-1968 stored under index number 1 on the keypad:
1. Press the **TALK** button.
2. Press **MEMO** Button.
3. Press ① on the keypad.
4. The unit will automatically dial 115-1968 stored in memory.

Changing Stored Phone numbers
1. Follow the steps described in the Memory Dialing section "Storing Telephone Numbers."
2. The new phone number will automatically replace the previous one.

Page Function
If you have misplaced the handset, press the **PAGE** button on the base unit. Each press of this button will activate the handset to sound 4 short beeps, provided that the handset is on standby mode and located within transmitting range.

65,536 Combination Security Code

The **CP-5900** uses a digital coding security system to prevent unauthorized use of your telephone line by other cordless phones nearby. The **CP-5900** 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 Information.

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

1. After power failure.
2. After relocating the base unit by disconnecting the AC adaptor.
3. After replacing the handset battery.
4. 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.

TECHNICAL INFORMATION

This cordless telephone 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 office 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 signal cause interference. If interference occurs frequently, it can be minimized or eliminated by changing the position 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 **CP-5900** 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.

⚠ MAINTENANCE

Your phone should be situated away from heat sources such as radiators, heaters, stoves or any other appliances that produces heat.

Cleaning the unit

Use a slightly damp cloth to clean the plastic cabinet. Never use polish, solvents, abrasives or strong detergents since these can damage the finish.

Maximizing Ni-Cad Battery Life

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

Discharging

1. Unplug the telephone line cord from base unit.
2. Make sure that the AC adaptor is connected.
3. Press the **TALK** button of the handset (**IN USE/BATT LOW LED** indicator should light).
4. Place the handset out of the base cradle to start discharging.

5. Once the **IN USE/BATT LOW LED** indicator starts flashing, it means that the battery level is low. Let it fully discharge for 12 hours. Once the Ni-Cad battery is fully discharge, you may now charge the battery to its full capacity.

Charging

1. Make sure the AC adaptor and telephone line cord is connected to the base unit.
2. Place the handset on the base cradle. The **CHARGE/IN USE LED** indicator will steadily light up on the base.
3. Leave the handset charging on the base for 12 hours continuously to get a maximum charge.
4. The **CP-5900** is now ready for use. Discharge and charge the Ni-Cad battery again once you notice a decrease in the usable charge time.

TROUBLESHOOTING

SYMPTOM	SOLUTION
No dial tone	• Check for the telephone line cord connection into the modular jack on your wall. Make sure it is plugged firmly. • If you had a power failure or had unplugged the base unit, place the handset on the base unit for three to five seconds to reset the system.
Does not ring	• 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 for the Ni-Cad battery pack connection inside the battery compartment on the handset. • The handset rechargeable Ni-Cad battery pack may need charging. Refer to the Maintenance section on how to discharge and charge the Ni-Cad battery pack.
Does not charge	• Make sure that the charging contacts on both the base unit and the handset are in contact during charging. • The charging contacts may need cleaning with alcohol-moistened cloth. • The Ni-Cad battery pack may need to be discharged first to charge it fully. Refer to the Maintenance section on how to discharge and charge the Ni-Cad battery pack.
Range is limited	• 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	• The handset rechargeable Ni-Cad battery pack may need charging. Refer to the Maintenance section on how to discharge and charge the Ni-Cad battery pack.
Interference on reception	• Choose an alternate channel using the **CH** button on the handset.