FCC PART 15 Subpart C

EU User Manual

FOR

UNICAL ENTERPRISES, INC.

16960 Gale Avenue
City of Industry, CA 91745

FCC ID: LZX39231

March 29, 2000

This Report Concerns:	**Equipment Type:**
☒ Original Report	900 MHz Cordless Phone – Household Appliances

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Test Date:	March 24, 2000
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Note: This report may not be duplicated without prior written consent of Bay Area Compliance Laboratory Corporation. This report **must not** be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

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1 - GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

The UNICAL ENTERPRISES, INC.'s 39231 or the "EUT" as referred to in this report is a 900 MHz cordless telephone. The EUT was composed of two parts, one is a Handset which measured 7.5" L x 2.25" W x 1.5"H, and the other is a Base which measures 8.00"L x 4.25"W x 1.75"H.

1.2 Purpose

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the 900 MHz Cordless Phone, Model is 39231. The EMI measurements were performed according to the measurement procedure described in ANSI C63.6: 1992. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the specification limits defined by FCC Title 47, Part 15, Subpart C, section 15.205, 15.207, and 15.249.

1.3 Related Submittal(s)/Grant(s)

No Related Submittals

1.4 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4 –1992, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory, Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

1.5 Test Facility

The Open Area Test site used by Bay Area Compliance Laboratory Corporation to collect radiated and conducted emission measurement data is located in the back parking lot of the building at 230 Commercial Street, Suite 2, Sunnyvale, California, USA.

Test sites at Bay Area Compliance Laboratory Corporation has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-1992.

The Federal Communications Commission and Voluntary Control Council for Interference has the reports on file and is listed under FCC file 31040/SIT 1300F2 and VCCI Registration No.: C-674 and R-657. The test sites has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratory Corporation is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (NVLAP). The scope of the accreditation covers the FCC Method - 47 CFR Part 15 - Digital Devices,

IEC/CISPR 22: 1993, and AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment test methods under NVLAP Lab Code 200167-0.

1.6 Test Equipment List

Manufacturer	Description	Model	Serial Number	Cal. Due Data
HP	Spectrum Analyzer	8566B	2610A02165	12/6/2000
HP	Spectrum Analyzer	8593B	2919A00242	12/20/2000
HP	Amplifier	8349B	2644A02662	12/20/2000
HP	Quasi-Peak Adapter	85650A	917059	12/6/2000
HP	Amplifier	8447E	1937A01046	12/6/2000
A.H. System	Horn Antenna	SAS0200/571	261	12/27/2000
Com-Power	Log Periodic Antenna	AL-100	16005	11/2/2000
Com-Power	Biconical Antenna	AB-100	14012	11/2/2000
Solar Electronics	LISN	8012-50-R-24-BNC	968447	12/28/2000
Com-Power	LISN	LI-200	12208	12/20/2000
Com-Power	LISN	LI-200	12005	12/20/2000
BACL	Data Entry Software	DES1	0001	12/20/2000

1.7 Equipment Under Test (EUT)

Manufacturer	Description	Model	Serial Number	FCC ID
Unical Enterprises, Inc.	Cordless Phone	39231	None	LZX39231

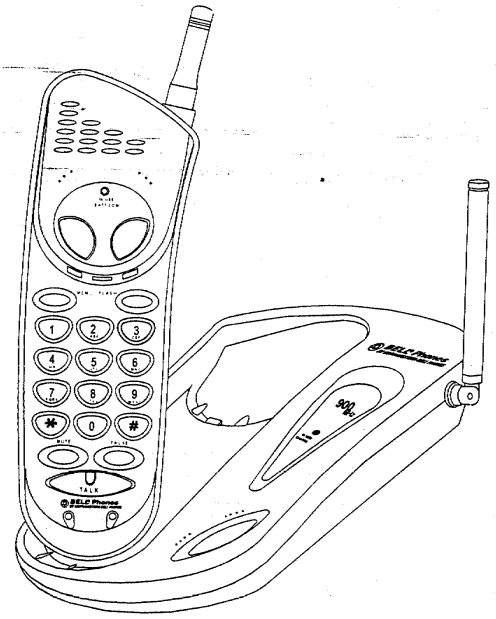
Appendix A – USER MANUAL

FCC Part 15 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.

BELL® Phones
BY NORTHWESTERN BELL PHONES

Excursion® 39231



Congratulations on your selection of the Excursion® 39231 from Northwestern Bell Phones. This quality 900 MHz cordless telephone, like all Genuine BELL® products, has been designed to give you many years of continuous service and represents the best value for your money. It requires little maintenance and is easy to setup and operate.

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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, packing and proof of purchase to simplify and accelerate any needed assistance. If you need assistance or service, call (800) 888-8990 between 8:00 a.m. and 4:30 p.m. Pacific Standard Time, Monday through Friday. 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 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.

Excursion® 39231

CARTON CONTENTS

- Excursion® 39231 Base and Handset
- Rechargeable Battery pack
- Telephone Line Cords
- Short Telephone Line Cord
- Wall Mount Bracket
- Belt Clip
- AC Adaptor (Class II, DC12V, 200mA, CT:POS)
- User's Manual
- Warranty Card

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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, washbowl, 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 surfaces. 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.

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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 SAFETY INSTRUCTIONS

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 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. Remove the batteries from this product if the product will not be used for a long period of time (several months or more) since during this time the battery could leak in the product.
9. Discard "dead" batteries as soon as possible since dead batteries are more likely to leak in the product.
10. 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.
11. Disconnect telephone lines before installing the battery pack.

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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 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.
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 REN's 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 operation of your equipment. If they do, you will be fiven advance notice so s to give you an opportunity to maintain uninterrupted service.
6. If you experience trouble with the telephone, please contact VTC Manufacturing & Service at (800) 888-8990 between 8:00 a.m. and 4:30 p.m. Pacific Standard Time, Monday through Friday , for repair/warranty information. The telephone company may ask you to disconnect this equipment from the network until the problem has been corrected or your are sure that the equipment is not malfunctioning
7. 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.

Charges of 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. If interference is experienced, moving the cordless telephone farther away from the TV or VCR will often reduce or eliminate the interference.

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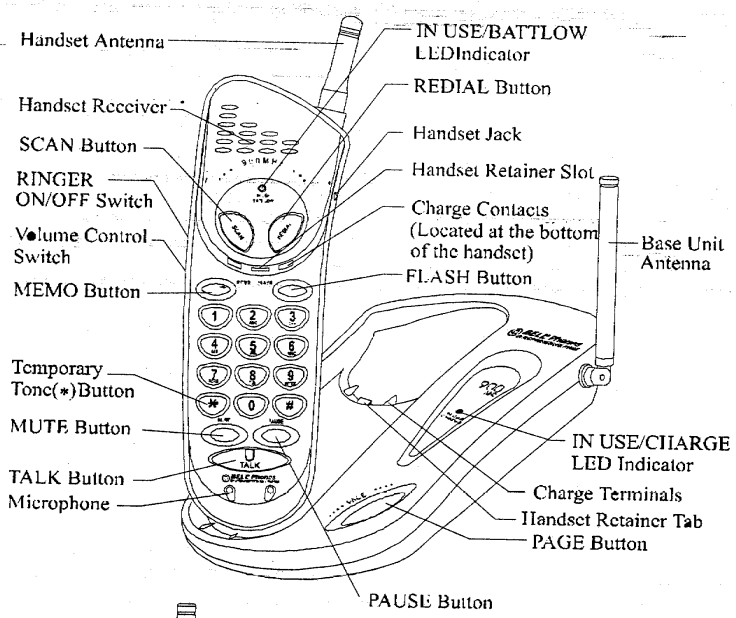
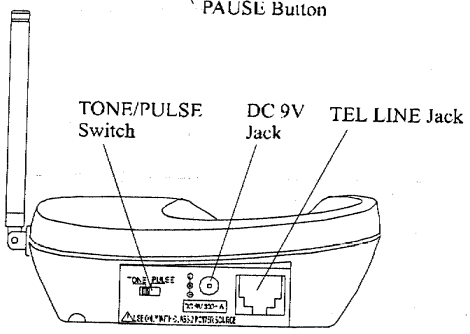
EXCURSION® 39231 CONTROLS DIAGRAM





Base Unit (Rear View)

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DESCRIPTIONS

HANDSET CONTROLS:

Scan Button -Used to manually select one of the 40 operating channels when you experience interference on the handset.

Charge Contacts - For charging the handset battery pack. We recommend that you clean these contacts periodically with an alcohol-moistened cloth or cotton swab.

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.

Handset Antenna - A flexible antenna.

Handset Retainer Slot - Allows you to hang the handset on the base while in the wall mount position.

Headset Jack - A jack located on the side of the handset used for connecting your headset to enjoy a hands-free communication.

IN USE/ BATT LOW LED Indicator - (IN USE) Flashes rapidly while auto-scanning. Lights solid whenever the handset is in TALK mode. Turns off when the handset is not in use and out of the base unit. (BATT LOW) This LED flashes slowly if the handset battery needs charging.

Memory (MEMO) Button - Used for storing/retrieving phone numbers to/from the 10 memory locations.

PAUSE Button - Allows you to insert a 4-second delay between dialed numbers in PABX systems or long distance services.

REDIAL Button- Press to automatically dial the last phone number dialed up to 32 digits.

RINGER ON/OFF Switch - For normal use, set switch to ON. To save battery power and to turn off the handset ringer, switch to OFF.

TALK Button - Press this button to place a call, answer a call, or end a call.

Temporary TONE (*) Button - Press to temporarily change the dialing mode from Pulse to Tone when dialing in the Pulse mode.

Mute Button - Used to turn off the handset's microphone so the other party can not hear your side of the conversation. Press the MUTE button again to return to the conversation.

VOLUME Switch - Allows you to switch the handset volume to either low or high.

BASE UNIT CONTROLS:

Base Unit Antenna - Raise or reposition for best reception.

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

DC 9V jack - A jack located on the rear side of the base unit used for connecting the AC adaptor to the base unit.

Handset Retainer Tab - Allows the handset to hang from the base unit when the base unit is placed in the wall mount position.

IN USE/CHARGE LED Indicator - Lights up to indicate the unit is ON or when the handset is placed on the base unit for charging. It flashes to indicate the page function is in use.

PAGE Button - Allows you to locate the misplaced handset or alert the user.

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TONE/PULSE Switch - A switch located on the rear side of the base unit that allows you to set the dialing mode to either Tone dialing or Pulse (rotary) dialing.

PRE-INSTALLATION NOTES

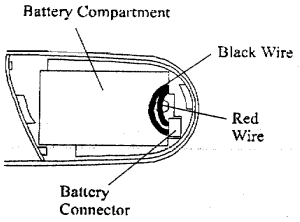
- Ensure that the rechargeable Ni-Cd battery pack is installed inside the handset battery compartment.
- Set the RINGER ON/OFF switch on the handset to the ON position for normal use.
- It is strongly recommended that the Ni-Cd battery be fully charged for at least 12 hours before initial use.
- Raise the base unit antenna to the upright position to maximize cordless phone operating range and sound quality.

BATTERY 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 (HANDSET)

1. Remove the battery compartment cover of the handset by pressing the top of the cover and sliding it down.
2. Connect the rechargeable Ni-Cd battery pack as shown below.



(Figure 1)

Insert the Ni-Cd battery pack into the battery compartment of the handset.

3. Replace the battery compartment cover.

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.

BELT CLIP INSTALLATION

With the back of 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.

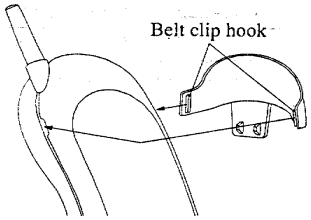
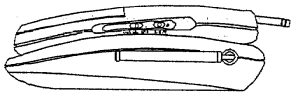


Figure 2

Desktop Connection

Plug the telephone line cord into the TEL LINE jack located on the rear of the *Excursion® 39231* and connect the other end into the modular jack located on your wall.

1. *Normal Position (Mounting Bracket not required)*
   For normal position, as shown in figure 3, place the base unit on any desired but suitable location.



(Figure 3)

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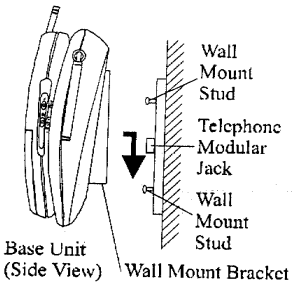
Wall Mounting

You may choose to install the *Excursion® 39231* base unit onto a wall with a standard AT & T or GTE modular wall jack.

Wall Mounting (Standard Wall Jack)

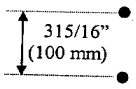
1. Connect the short telephone line cord to the telephone line jack on the rear of the base unit. Insert the other end through the hole of the mounting bracket.
2. Insert the hooks of the wall mount bracket into the matching slots at the bottom of the base unit then slide them upwards until they lock into place. Plug the free end of the short telephone line cord into the modular wall jack.
3. Mount the base unit to the modular wall jack by hooking the studs of the wall plate into the keyhole slots of the wall mount bracket. Pull the base unit down until it is securely seated as shown in figure 4.



(Figure 4)

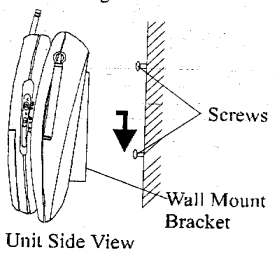
Wall Mounting (No Standard Wall Jack)

1. Drill two holes with a vertical distance between the two marked positions of 3 15/16" (100 mm) as shown below.



(Figure 5)

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 base unit by hooking the screws into the keyhole slots of the wall mount bracket. Pull the base unit down until it is securely seated as shown in figure 6.



(Figure 6)

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 positions that would allow you to hang your handset facing either up or down on the base unit.

POWER CONNECTION

⚠ **CAUTION:** Use only a Class II AC Adaptor with a rating of AC 120V input, DC 12V, 200 mA output with a center tip that is positive. The adaptor plug should correctly fit the base unit's DC 12V jack.

1. Plug the AC adaptor into a standard AC outlet.
2. Connect the small adaptor plug into the DC 12V jack on the rear of the base unit as shown in figure 7.

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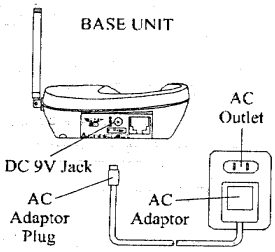
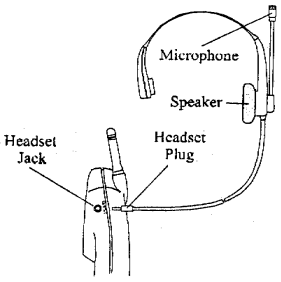


(Figure 7)

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 in figure 9. Follow the procedures discussed in "Placing a Call" and "Receiving a Call" when to place and receive a call.



(Figure 8)

NOTE: The headset jack of your *Excursion® 39231* 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.

TELEPHONE OPERATION

TONE / PULSE Dialing

- 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.

Mixed Mode (Temporary Tone) Dialing

If you only have pulse (rotary dialing) service in your area and want to access Tone dialing services, set the base unit's TONE/PULSE switch to the PULSE position. Dial the desired number and when tone signals are required press the Temporary Tone (*) button once. Subsequent digits will be dialed in tone mode. Dialing will be reset to Pulse mode when handset is returned on-hook.

Placing a Call

1. Pick up the handset and press the TALK button. The *Excursion® 39231* will automatically scan for the best channel available, as indicated by the flashing IN USE/ BATT LOW LED indicator.
2. Once it finds a clear channel, the IN USE/BATT LOW LED indicator will light solid and a dial tone will be heard. You can then dial the desired phone number on the handset keypad.

Receiving a Call

If the handset is on the base:

- Since the *Excursion®39231* features "Auto Answer", simply pick up the handset from the base cradle. The unit will scan for a clear channel then you can talk to the calling party after it has found one.

If the handset is out of the base:

- Press the TALK button on the handset. The unit will scan for a clear channel.
- The IN USE/BATT LOW LED indicator will flash rapidly (to

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indicate that it is auto-scanning). After it has found a clear channel, the IN USE/BATT LOW LED indicator will light solid. You can then start conversation with the calling party.

Channel Selection (40 Channels)

Channel Scan (Auto-Scan)

- When you initiate or receive a call, the *Excursion® 39231* auto-scans for the best channel available.

Channel Scan (Manual Scan)

- If the existing channel becomes noisy or starts having radio interference, press the CHN button repeatedly until a clear channel is found.

NOTE: When there is excessive static and causes the handset to lose link with the base, return the handset to its cradle on the base unit to re-establish the security link.

Ending a Call

Upon completion of a call, you can hang up the *Excursion® 39231* by returning the handset back to its cradle on the base unit (this feature is also called Auto-Standby), or by pressing the TALK button on the handset.

Last Number Redial

The last number redial feature may be used to dial the last number called (up to 32 digits).

1. Pick up the handset and press the TALK button.
2. Listen for a dial tone.
3. Press the REDIAL button. The *Excursion® 39231* will automatically redial the last phone number you dialed.

Flash

Pressing the FLASH button (while the phone line is in use) momentarily hangs up the phone to access custom calling features such as Call Waiting or Three-Way Calling provided by your local phone company. For other Custom Calling features, refer to the instructions provided by your local phone company.

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 inserts a 4-second delay between dialed numbers. Pauses may be programmed into the memory. Each 4-second pause occupies one digit of the available 16 digits per memory location.

Memory Dialing

You can store and recall up to 10 frequently called telephone numbers (up to 16 digits each) from the handset.

Storing Telephone Numbers into Memory

1. Ensure that the base unit IN-USE LED indicator is off and the handset is in standby mode (IN USE/BATT. LOW LED indicator is off).
2. Press the MEMO button on the handset.
3. Dial the phone number you want to store.
4. Press the MEMO button again.
5. Press a memory location where you want to store the phone number (from 0 to 9). You will hear one confirmation beep.
6. To store more phone numbers or modify existing numbers in memory, repeat steps 1-5.

NOTES:

- The maximum number of digits that can be stored for each phone number is 16 digits both in pulse and tone mode.
- Pause can be programmed into a memory dialing sequence. Each pause occupies one digit. If you are using a switchboard system to access an outside line, press the PAUSE button on the handset to store a pause.

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Dialing a Number from Memory

1. Pick up the handset and press the TALK button. The handset IN USE/ BATT. LOW LED indicator flashes while auto scan locates the best channel available. A dial tone will be heard when the IN USE/BATT. LOW LED indicator lights solid.
2. Press the MEMO button.
3. Press the memory location (0-9) on the keypad for the number you have stored. The stored number will be dialed automatically.

NOTE: If you have difficulty storing or recalling numbers from memory, refer to the "Troubleshooting" chart of this user manual on page 13 and 14.

Changing Stored Phone Numbers

1. Follow the steps described in "Storing Telephone Numbers into Memory."
2. The new phone number will automatically replace the previous one.

PAGE Function

To alert the handset user or to locate the misplaced 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 located within transmitting range.

NOTE: The base unit could page the handset regardless if the handset ringer is set either to ON or OFF.

RINGER ON/OFF SWITCH

You can set the handset to the following settings:

- **ON** - The handset rings when receiving incoming calls. For normal use, always set the switch to this position.
- **OFF** - Turns off the handset ringer. However, please note that you will not be able to place or receive calls in this mode.

NOTE: The handset will not ring when the RINGER ON/OFF switch is set to OFF.

Low Battery Warning

When the handset battery voltage level is low, the IN USE/BATT LOW LED indicator on the handset will start to blink and a beep sound will be heard every 12 seconds. Return the handset to its cradle on the base unit for charging.

65,536 Combination Security Coding

The *Excursion® 39231* has a digital coding security system to prevent unauthorized use of your telephone line by other cordless phones nearby. The Excursion has 65,536 possible security code combinations. Each combination code is randomly generated every time the handset is picked up.

Resetting Security Code and Channel information

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. 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.

Out of Range Detection

The *Excursion® 39231* is equipped with an Out-of-Range detection system. If you have the handset too far away from the base unit during a call, the handset may lose its link with the base unit. When this happens, the handset emits a beeping sound every second to warn you that the background noise level is too high for proper communication between the handset and the base unit. When you hear this sound, you should move closer to the base unit to reduce the noise level.

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Otherwise, the call will automatically cut off.

OPERATING RANGE

The phone operates at the maximum radio frequency allowed by the Federal Communications Commission (FCC). Even so, the maximum operating range may be limited because of conditions like weather, construction of the building, and interference from other sources.

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 electrical 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 *Excursion® 39231* where it is closest to the center of your home or office. This will improve the operating range of the unit.
- Keep the *Excursion® 39231* 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 battery pack charged as much as possible. Weak handset battery pack 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 appliance 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.

Charging

1. Make sure the AC adaptor and telephone line cord is connected to the *Excursion® 39231*.
2. Place the handset on the base cradle. The IN USE/CHARGE LED indicator will steadily light up on the base unit.
3. Leave the handset charging on the base for 12 hours continuously to get a maximum charge. The *Excursion® 39231* is now ready for regular use.

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TROUBLESHOOTING

SYMPTOM	SOLUTION
No dial tone	• Check to see if the handset battery pack is connected inside the handset battery compartment. • Make sure that the adaptor plug is connected to the base unit. • Check for the telephone line cord connections. Ensure that both connectors are plugged securely on the jacks. • Ensure that no other telephone is sharing the same line as the *Excursion® 39231* when off-hook. • Test the phone at a different telephone wall jack and listen for a dial tone. • Test a different phone in the wall jack and listen for a dial tone.
Will not ring	• Check the handset RINGER ON/OFF switch. For normal use, set to ON. The handset will not ring in OFF mode. • The phone or another phone connected to the same line may be in the off-hook (IN USE) position. • Try a different phone, if the problem still exists, the fault is not with the unit. • Look for the Ringer Equivalence Number (REN) number printed underneath your phone(s). Sum up the total REN numbers for all the phones or answering machines connected to your telephone line. Your phone(s) may not ring if the REN total exceeds five (5). Please call your local company to determine the maximum REN for your calling area.
Static	• The Ni-Cd battery pack might be weak. Allow the Ni-Cd battery pack to charge fully before using. • Try a different phone, if the problem still exists, the fault is not with the unit. • Some atmospheric conditions such as very low humidity can cause static build-up.
Cannot dial out	• Press the TALK button on the handset and listen for a dial tone before dialing out. • Are you in a rotary only area? Set the TONE/PULSE switch to PULSE. • Try a different phone in the jack. If the problem persists, the fault is not in the *Excursion® 39231*. • Is the phone connected to an answering machine? Disconnect the answering machine and try to have the phone plugged into the jack alone. If it works alone, there is a compatibility problem. Purchase a 2 for 1 adaptor at any phone or electrical supply store. Plug the 2 for 1 adaptor into the modular wall jack, and then plug the phone into one side and the answering machine on the other side of the adaptor.
Memory feature does not work	• Make sure that the unit is in the standby mode before storing a phone number. • The maximum number of digits that you can store for each memory location is 16 digits. See the "Memory Dialing" section for more details.
No link between the base and handset	• You may have taken the handset at a distance away from the base that is beyond its normal operating range. Refer to the section of "Operating Range" in the manual for more details.

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SYMPTOM	SOLUTION
The unit locks up and becomes inoperable	• In the unlikely event that the unit locks up and becomes inoperable, you can reset the system by momentarily disconnecting and reconnecting the handset battery pack. Afterwards, return the handset to its cradle on the base unit to reset the security code before using the unit. • Should a power outage occur while the handset is away from the base unit, the handset must be returned to its cradle on the base unit to reset the security code when power is resumed.

AC ADAPTOR: USE ONLY WITH CLASS 2 POWER SOURCE, RATED OUTPUT 12VDC, 200mA.

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

BELL® Phones
BY NORTHWESTERN BELL PHONES

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Appendix B – AGENT AUTHORIZATION LETTER

NORTHWESTERN BELL PHONES
Distributed Exclusively Worldwide by
UNICAL ENTERPRISES, INC.

16960 Gale Avenue, City of Industry, CA 91745 (626) 965-5588 Fax: (626) 965-6998

March 23, 2000

Federal Communications Commission
7435 Oakland Mills Road
Columbia, Maryland, 21046

Sir/Madam,

Reg: FCC grant for 39231 Cordless Telephone

This letter is an authorization to accept Bay Area Compliance Lab. Corporation as an agent for Unical Enterprises, Inc., to sign applications before the Commission on our behalf, to make representations to you on our behalf, and to receive and exchange data between our company and the commission in connection with certification of the following Northwestern Bell Phones product:

900 MHz Cordless Telephone 39231

Under FCC docket number 20780 and general docket number 80-284 pursuant to part 15, FCC rules and regulations.

Sincerely,

Andy Chung,
Assistant to the President