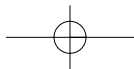# COVER

INTRODUCTION
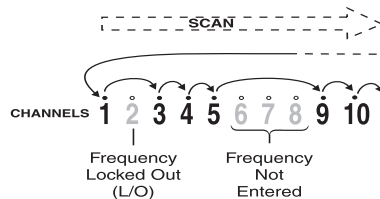
About Scanning

Scanning Options

Scanning is easy and fun with the BC244CLT 30-Channel Base Scanner. You can scan in 2 ways:

- Scan channels you have programmed
- Scan pre-programmed weather channels.

Unlike standard AM or FM radio stations, most 2-way communications do not transmit continuously (see Types of Communication below).

The BC244CLT scans programmed channels at the rate of about 15 channels per second until it locates an active frequency. When the scanning stops on an active frequency, it remains on that channel as long as the transmission continues. When the transmission ends, the scanning cycle resumes until another transmission is received. You can set a 2 second delay (refer to 2 Second Delay, page .)

Types of Communication

You can monitor communications such as:

- Police and fire department (including rescue and paramedics)
- NOAA weather broadcasts (7 pre-programmed channels)
- Business/industrial radio
- Motion picture and press relay
- Utility
- Land transportation frequencies such as trucking firms, buses, taxis, tow trucks, and railroads
- Marine and amateur (ham radio) bands
- And many more in the 29-54MHz, 137-174MHz, and 406-512MHz ranges

You must program a frequency into each channel you want to use. If you do not

have any known local frequencies to program, call the 800 number on the yellow sheet enclosed in this package. A Uniden representative should be able to provide you with a few sample frequencies. Or, use the enclosed order form to purchase a local frequency list.

Where to Obtain More Information

The Bearcat Radio Club and other similar hobby clubs have publications, information on computer bulletin boards, and contests for the radio enthusiast. See the enclosed printed material for more information. Additional information is also available through your local library.

Taking Proper Care of Your Scanner

■ Do not use the scanner in high-moisture environments such as the kitchen or bathroom.
■ Avoid placing the unit in direct sunlight or near heating elements or vents.
■ Do not plug the scanner into an outlet controlled by a wall switch as prolonged periods without power causes clock reset.

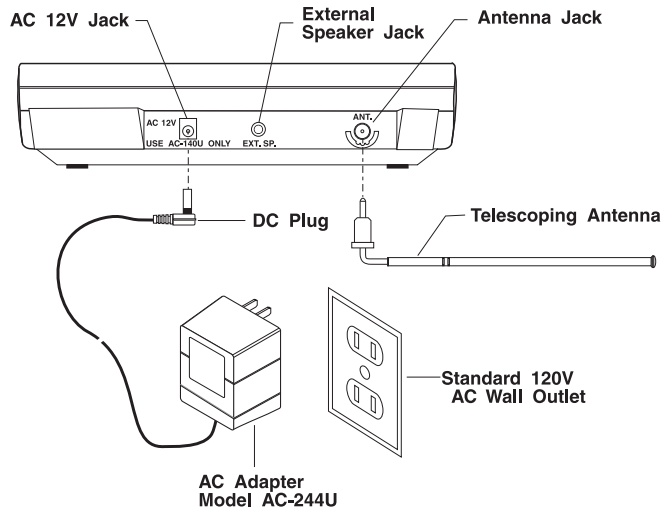## Unpacking

Carefully check the contents against this list:

■ BC244CLT Base Scanner

■ Telescoping Antenna

■ AC Adapter (Model AC-244U)

■ This Reference Guide

■ Registration Form (in this Reference Guide)

■ Frequency Directories Order Form and other printed information

☞ If any items are missing or damaged, contact your place of purchase immediately.

☞ Complete and mail your Registration Form immediately.

☞ Read this Reference Guide thoroughly before operating the scanner.

CAUTION Changes or modifications to this product not expressly approved by Uniden, or operation of this product in any way other than as detailed by this Reference Guide, could void your authority to operate this product.

INSTALLATION

Installing the BC244CLT

AC 12V Jack
External Speaker Jack
Antenna Jack
DC Plug
Telescoping Antenna
Standard 120V AC Wall Outlet
AC Adapter Model AC-244U

1. Insert small plug at the end of the AC Adapter cord into the AC 12V jack on the scanner.

2. Plug the AC Adapter into any standard 120VAC wall outlet. Do not plug into an outlet controlled by a wall switch; it could cause clock reset.

3. Plug the Telescoping Antenna into the ANT. jack. Extend the antenna to its full height. For UHF frequencies, shortening the antenna may improve the reception.

4. Plug an optional external speaker (8-ohm) into the EXT. SP. jack.
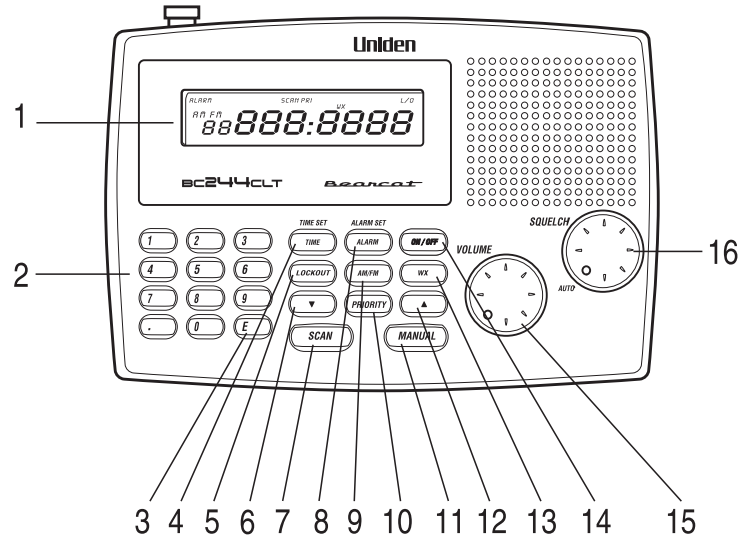
NOTE
If your scanner receives strong interference or electrical noise, relocate the scanner or its antenna away from the source.

NOTE
If you are operating the scanner in the fringe area or need to improve reception, use an optional antenna designed for multi-band coverage. (You can purchase this type of antenna at a local electronics store.) If the optional antenna has no cable, use 50-70 ohm coaxial cable for lead-in. A mating plug may be necessary for the optional antennas.

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OPERATION

Controls and Functions

1. **LCD Display**   Displays channel frequency and functions.

2. **Numeric Keys** Use to program a frequency into each channel for scanning. Also, use for time entries and direct channel access with **MANUAL** key.

3. **E Key**   Use to complete the entry whether it be programming of a frequency to the selected channel or setting the time.

4. **TIME Key**   Use the TIME key to view and set time

5. **LOCKOUT Key** Use to prevent scanning of the displayed channel. The LCD display indicates L/O when channel is locked out. Lockout is retained in memory. Press **LOCKOUT** again to unlock the channel. Lockout is active only when the scanner stops on an active channel or a channel selected in Manual Mode.

6. **▼ Key**   The down arrow key allows you to scoll down through the options.

7. **SCAN Key**   Use to start scanning mode.

8. **ALARM Key**   Press ALARM to set the time for the alarm to sound.

9. **AM/PM Key**   Press AM/PM to indentify AM or PM while setting the time or alarm.

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10. **PRIORITY Key**	Use to turn Priority mode on or off. In Priority mode, the scanner samples the designated Priority Channel every 2 seconds, regardless of any other mode the scanner is in. If a transmission on designated Priority Channel is detected, the scanner monitors that channel until no signal is present. Priority mode cancels when you turn off your scanner.
11. **MANUAL Key**	Use to stop scanning. Press **MANUAL** again to step to the next channel. Also, use for direct channel access by first entering the channel number and then pressing **MANUAL** to go directly to that channel.
12. **▲ Key**	The up arrow key allows you to scoll up through the options.
13. **WX Key**	Use to set in Weather Mode.
14. **ON/OFF Key**	Use to turn scanner on or off.
15. **VOLUME Control**	Turn VOLUME clockwise to increase the volume. Turn counterclockwise to decrease the volume.
16. **SQUELCH Control**	Adjust SQUELCH to set the scan threshold or use AUTO for the factory setting.

Scanning Overview

The BC244CLT has 30 memory channels; each can be programmed to store 1 frequency within the band of frequency coverage. (For a listing of frequency ranges and bands, see Technical Specifications on page.)

When you press **SCAN**, the BC244CLT scans each programmed frequency for activity (skipping channels that are locked out) at the rate of about 15 channels per second. As the unit scans, the word SCAN moves across the LCD display.

When the scanning stops on an active frequency, it remains on that channel as long as the transmission continues.

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GETTING STARTED

Initial Clock Set-up

NOTE
> You may bypass the steps to set the clock. Scanner will function as normal, but the clock and alarm features will not function. These features will not be functional until the power is removed and restored again.

1. When power is initially applied, the LCD display flashes 12:00 P after a short delay.

2. Enter the correct time using the numeric key or ▲/▼ keys.

3. Press **AM/PM** Key to toggle to desired setting, either AM or PM.

4. Press **E** Key to complete the entry.

After scanner has been turned on, to reset the clock simply press and hold the **TIME SET** key. The LCD display flashes the indicated time. Set the clock as directed above.

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Set the Alarm

1. After clock has been set up, press and
    hold the **ALARM** key until the time indicated
    and ALARM Icon in display flashes.

2. Enter the correct time using the
    numeric key or ▲/▼ keys.

3. Press **AM/PM** Key to toggle to desired setting,
    either AM or PM.

4. Press **E** Key to complete the entry.

5. ALARM Icon stops flashing.

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Alarm will sound as a series of beeps gradually growing louder. Alarm will continue for approximately 15 minutes if no action is taken. To activate the snooze function simply press any key. The alarm will silence but will continue to activate at 9 minute intervals for approximately an hour.
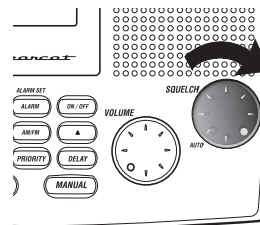
NOTE The snooze alarm continues to operate while Scanner is turned on and in any mode, if you would like to listen to the scanner while waking up.
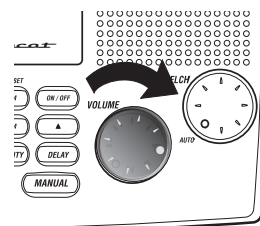
To turn the alarm function off, press the **ALARM** key. ALARM Icon in display extinguishes.
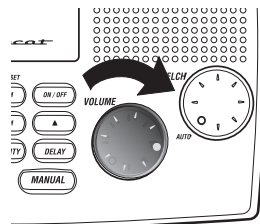
Set the Squelch
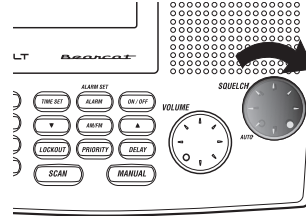
1. Turn SQUELCH fully clockwise to the highest setting.

2. Press **ON/OFF** key to turn on the scanner.

2. Adjust the **VOLUME** control to where you can hear a steady noise.

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3. Set the squelch at the scanning
    threshold by turning SQUELCH
    counterclockwise just until the noise
    disappears or set on AUTO for the factory
    setting.

4. The scanner automatically starts scanning.If you
    have not programmed any channels yet, press
    WX to hear your local weather broadcast.

5. Adjust **VOLUME** to a comfortable listening level.

Adjusting the Squelch

Set the **SQUELCH** control to **AUTO** for the factory setting or manually set squelch.

1. To manually set squelch, open the squelch
    by turning **SQUELCH** control clockwise. You
    should hear a steady sound (scanning stops). Now
    turn **SQUELCH** control counterclockwise slowly
    until the sound disappears. This is the threshold
    point at which scanning starts. At the squelch
    threshold, an incoming signal just slightly stronger
    than the noise will open the squelch.

2. When squelch is open, you can hear the broadcast (scanning is stopped). If squelch
    is set too tight (that is, too far counterclockwise from the threshold point), a
    stronger signal is required to open the squelch.

3. If squelch is set on a point clockwise from the threshold, you hear a constant sound
    (noise, if no signal is present); the scanner does not scan.

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Programming Tips

Program 1 frequency per channel.

Channel 1 is the location of the default priority channel. Program the most important frequency, or the one of major interest, into Channel 1.

To quickly program a series of channels, start with the lowest number channel. For example, when you are programming five new frequencies into Channels 4 through 8, start with Channel 4. After you complete the programming in 1 channel (by pressing **E**), press **MANUAL** to step up to the next channel.

If you make an error during programming, or the frequency is out of range, Error appears on the channel display.

If you program the same frequency in two channels, the display will indicate the channel in which the duplicate frequency resides.

During numeric entry, if you know that you pressed the wrong number, press **.** (decimal point) twice. This cancels the entire numeric entry, and displays the current channel number.

Above 406MHz, the frequency steps are in 12.5kHz increments. To enter a frequency such as 450.4875, press each of the seven digits in sequence.

Once you have programmed a channel, you cannot erase the frequency in that channel. However, you can change the frequency in a specific channel by programming a new frequency over the existing one.

If you want to manually erase all the memory, first remove power from the scanner. Then, press and hold **MANUAL**, **2**, and **9** simultaneously while you reconnect the power to the scanner. CLEAr appears in the LCD Display, indicating that all user entered information is erased. (This clears the non-volatile memory.)

> **NOTE**
> When you first turn the scanner on after erasing all the channel information, All Loc Out appears in the display, indicating all channels set to 0.0MHz.

Programming Frequencies

Before you can use your BC244CLT scaner, you must program the channels except weather frequencies. Follow these steps:

Example: Program 420.150 MHz into Channel 12.

1. Press **MANUAL** to stop scanning.

2. To select the channel (12), press **1**, then **2** on the numeric keypad. Then press **MANUAL** again.

3. Type in the frequency numbers, including the decimal point, using the numeric keypad: 420.150.

4. Press **E** to complete the entry.

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About Memory Back-up

Your BC244CLT has a convenient type of memory back-up system. In the event of a power failure, the scanner will retain channel information that was entered for an indefinite amount of time. Channel information is stored in non-volatile memory. If the memory is erased, CLEAr is displayed

Scanning

Press **ON/OFF** key, if in clock mode or press **SCAN** if in scanner mode to start scanning. (When the scanner is turned on, it is automatically in Scan mode.) Scanning automatically stops on any active channel, except those channels locked out.

Press **MANUAL** anytime to stop scanning. When you press **MANUAL**, you are out of Scan mode, and the scanner remains on the displayed channel. Press **SCAN** to start scanning again, or press **MANUAL** to step up to the next channel. If desired, you can press **MANUAL** repeatedly to manually scan all 30 channels, 1 press per channel, including the channels that are locked out. To scroll through the channels more quickly, press and hold **MANUAL** key.

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Direct Channel Access

This feature allows you to instantly access a specific channel you want to monitor.

Example: To select Channel 4. Press **4**. Then press **MANUAL**. When you press **4**, the display changes to 4, but the scanner still monitors the previous channel displayed. You must press **MANUAL** key to successfully complete the direct access to Channel 4.

Weather Channel Scan

The BC244CLT allows you to search for your local NOAA weather channel.

Press **WX** to find the active weather channel in your area from 7 pre-programmed NOAA channels. It is possible that your area is covered by more than 1 weather station.

> **NOTE**
>
> All weather channels transmit continuous broadcasts. Once the Weather Scan stops on a transmission, it remains on that channel. Weather Scan does not resume automatically. You must press **WX** again to resume weather scanning.

When you press **WX**, the BC244CLT immediately finds an active broadcast. If the broadcast sounds weak and distant, press W again to look for a closer station.

> **NOTE**
>
> In some parts of the country, you may not be able to monitor weather broadcasts, such as in low-lying areas. Normally a higher location improves the reception.

To exit Weather mode, press **SCAN**, **MANUAL**, or **ON/OFF** key.

> **NOTE**
>
> Do not program a weather frequency into 1 of the 30 channels. Because weather channels transmit continuously, the scanner remains on that channel, disrupting the scanning cycle. The Weather Scan feature is provided specifically to avoid this occurrence.

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Priority Scanning

Your BC244CLT has a default Priority Channel, Channel 1, but may be assigned to another channel. Priority Scan works like a dualwatch function. When you activate Priority Scan mode, the scanner starts sampling, or keeping track of the activity on the priority channel while listening to other channels. A constant PRI appears on the LCD display

NOTE Priority Scan mode does not operate when the scanner is in Weather Alert mode.

Every 2 seconds, the scanner checks the priority channel for activity. If a signal is present, the priority channel is monitored until the transmission ends. When the reception of the priority signal stops for more than 2 seconds, normal scan operation resumes.

To Set the Priority Channel

1. Determine the frequency most important to you and program into desired channnel location.

2. Press **MANUAL** key to exit the Scan Mode.

3. Press **PRIORITY** key to set the scanner in Priority Scan mode. PRI appears on the display.

4. Enter the desired channnel you'd like to make the Priority Channel using the numeric keys or the ▲ / ▼ keys.

5. Press and hold **PRIORITY** key. The PRI Icon
    appears in the LCD display.

To enter the Priority Scan Mode

Momentarily press the **PRIORITY** key. PRI Icon appears in the display.

To exit the Priority Scan Mode

Momentarily press the **PRIORITY** key again. PRI Icon disappears from the display.

Channel Lockout

You can lock out a channel so it is not scanned. Locked out does not erase the
frequency from the channel. You can lock out up to 29 channels, including the
Priority channel, but not all 30 channels. Lockout information is retained in
memory when the scanner is turned off.

To Lockout a Channel

Example: Suppose you want to lock out Channel 2 because it stops on transmissions
you dont want to hear.

Press **LOCKOUT** when the scanner stops on
Channel 2. The scanner locks out Channel 2,
immediately advances to the next channel
that is not locked out, and resumes
scanning. In the Manual mode, press
LOCKOUT to lock out the displayed
channel. Pressing **LOCKOUT** does not
advance to the next channel in Manual mode.

L/O appears in the LCD display to indicate the displayed channel is locked out.

Whenever you want to search for channels that are locked out, press **Manual**
repeatedly to go through all 30 channels. If a channel is locked out, the L/O Icon
is displayed.

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To Restore a Locked Out Channel

To unlock a channel so that it can be monitored during scanning:

1. Press the **MANUAL** key repeatedly to find the locked out channel.

2. Press **LOCKOUT** again to unlock the displayed channel. The L/O Icon disappears from the display.

ABOUT THE UNIT

Helpful Hints

General Use

Turn the scanner off before disconnecting the power.

Always write down the programmed frequencies in the event of memory loss.

If memory is lost, simply reprogram each channel. The display shows CLEAr indicator when there has been a memory loss.

Always press each keypad button firmly until you hear the entry tone for that key entry.

Location

If strong interference or electrical noise is received, relocate the scanner or its antenna away from the source of the noise. If possible, a higher elevation, may provide better reception. Also try changing the height or angle of the antenna.

Do not use the scanner in high-moisture environments such as the kitchen or bathroom.

Avoid placing the unit in direct sunlight or near heating elements or vents.

Do not plug the scanner into an outlet controlled by a wall switch as prolonged periods without power will cause the clock to reset.

Cleaning

Disconnect the power to the unit before cleaning.

Clean the outside of the scanner with a mild detergent. To prevent scratches, donot use abrasive cleaners or solvents. Be careful not to rub the LCD Display window.

Do not use excessive amounts of water.

Repairs

Do not attempt any repair. The scanner contains no serviceable parts. Contact the Uniden Customer Service Center or take it to a qualified repair technician.

Birdies

All radios are subject to receiving undesired signals or birdies. If your scanner stops during Scan mode and no sound is heard, it may be receiving a birdie. Birdies are internally-generated signals inherent in the electronics of the receiver. Press SCAN to resume scanning.

TROUBLESHOOTING

If your BC244CLT is not performing properly, try the following steps.

Problem	Solution
■ Scanner wont work.	■ Check the connections at both ends of the AC Adapter. ■ Turn on the wall switch of your room. You could be using an outlet controlled by the wall switch. ■ Move the AC Adapter to another wall outlet.
■ Improper reception.	■ Check antenna connection ■ Move or angle the antenna. ■ If programmed frequency is higher than 406MHz, a shorter antenna length may improve the reception. ■ Relocate the scanner. ■ You may be in a fringe area. This could require an optional multi-band antenna. Check with your dealer or local electronics store.
■ Scan won't start.	■ Press the Scan key again. ■ Adjust the Squelch control. ■ Check to see if 29 channels are locked out. If so, unlock the channels as needed.

Problem	Solution
■ Scan won't stop.	■ Adjust squelch threshold(see page , Adjusting the Squelch.) ■ Check the antenna connection. ■ Check to see if many of the channels are locked out. If so, the scanner has less chance of finding an active channel. ■ Review each channels frequency to see if it is correct and no memory has been lost. ■ It is possible that none of the programmed frequencies are active at this time.
■ Weather Scan won't work.	■ Adjust squelch to the threshold(see page , Adjusting the Squelch.) ■ Check the antenna connection. ■ No active station within range.

If you still cannot get satisfactory results and want additional information, or to return the unit for service, please call or write the Uniden Parts and Service Division. The address and phone number are listed in the Warranty at the end of this manual.

At Uniden, we'll take care of you!

If you need any assistance with this product, please call our Customer Hotline at:

1-800-297-1023

PLEASE DO NOT RETURN THIS PRODUCT TO THE PLACE OF PURCHASE.

Our Uniden representatives will be happy to help you with any matters regarding the operation of this unit, available accessories, or any other related matters.

Hours: M-F 8:00a.m. to 5:00p.m., Sat.-Sun. Noon to 5:00p.m. EST
Thank you for purchasing this Uniden product.

TECHNICAL SPECIFICATIONS

Certified in accordance with FCC Rules and Regulations Part 15 Sub-part C as of date of manufacture.

Band Coverage:	10 bands
Frequency Coverage:	29.0-29.7 MHz 10 Meter Amateur Band
	29.7-50.0 MHz Low Band
	50.0-54.0 MHz 6 Meter Amateur Band
	137-144 MHz Military Land Mobile
	144-148 MHz 2 Meter Amateur Band
	148-174 MHz VHF High Band
	Above bands in 5 kHz steps
	406-420 MHz Federal Government
	420-450 MHz 70cm Amateur Band
	450-470 MHz UHF Standard Band
	470-512 MHz UHF-"T" Band
	Above bands in 12.5kHz steps
Sensitivity (nominal)	0.3 μV 29-54 MHz
12dB SINAD:	0.4 μV 137-174 MHz
	0.6 μV 406-512 MHz
Channels:	30
Scan Rate:	Up to 15 channels per second
Audio Output (nominal):	0.9 W to 1.2 W (max.) 10%TDH
Power Requirements:	10 VAC using AC-244U AC Adapter
Antenna:	Telescoping (included)
External Jacks:	Antenna jack
	External speaker
	AC10V power jack
Size:	? (W) x ? (D) x ? (H)
Weight:	1 lb. 6 oz. (without antenna)

Features, specifications, and availability of optional accessories are all subject to change without notice.

TWO-YEAR EXTENDED WARRANTY

Important: Evidence of original purchase is required for warranty service.

WARRANTOR: UNIDEN AMERICA CORPORATION ("Uniden")

ELEMENTS OF WARRANTY: Uniden warrants, for two years, to the original retail owner, this Uniden Product to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION: This warranty to the original user shall terminate and be of no further effect two years after the date of original retail sale. The warranty is invalid if the Product is (A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden, (C) improperly installed, (D) serviced or repaired by someone other than an authorized Uniden service center for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system not manufactured by Uniden, or (F) installed or programmed by anyone other than as detailed by the owner's manual for this product.

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will either, at its option, repair or replace the defective unit and return it to you without charge for parts, service, or any other cost (except shipping and handling) incurred by warrantor or its representatives in connection with the performance of this warranty. Warrantor, at its option, may replace the unit with a new or refurbished unit. THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

LEGAL REMEDIES: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is void outside the United States of America.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: If, after following the instructions in the owner's manual you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). The Product should include all parts and accessories originally packaged with the Product. Include evidence of original purchase and a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid, by traceable means, to warrantor at:

Uniden America Corporation
Parts and Service Division
4700 Amon Carter Blvd
Fort Worth, TX 76155
(800) 297-1023, 8 a.m. to 5 p.m., Central, Monday through Friday

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BACK COVER