

**uniden**<sup>®</sup>  
**Bearcat**<sup>®</sup>

**BC148XLT**  
**16-Channel Base Scanner**



OPERATING GUIDE

# PRECAUTIONS

Before you read anything else,  
please observe the following:

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## **WARNING!**

Uniden **DOES NOT** represent this unit to be waterproof.  
To reduce the risk of fire or electrical shock, **DO NOT** expose  
this unit to rain or moisture.

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## **NOTE:**

**The installation, possession, or use of  
this scanning radio in a motor vehicle  
may be prohibited, regulated, or require  
a permit in certain states, cities, and/or  
local jurisdiction. Your local law  
enforcement officials should be able to  
provide you with information regarding  
the laws in your community.**

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## About Scanning

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### Scanning Options

Scanning is easy and fun with the BC148XLT 16-Channel Base Scanner. You can scan in two ways:

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

Unlike standard AM or FM radio stations, most two-way communications (see "Types of Communication" below) do not transmit continuously. The BC148XLT 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 scanner stays on the channel for 2 more seconds, waiting for a responding transmission. If no responding transmission is detected, the scanning cycle resumes until another transmission is received.

### Types of Communication

You will be able to monitor communication 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 29-54 MHz, 137-174 MHz, and 406-512 MHz 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 pamphlets for more information. Additional information is also available through your local library.

## Taking Proper Care of Your Scanner

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- 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 scanner memory loss.

## Unpacking

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Carefully check the contents against this list:

- BC148XLT Base Scanner
- Telescoping Antenna
- AC Adapter (Model AD-140U)
- This Operating Guide
- Registration Form (in this Operating Guide)
- Frequency Directories Order Form and other pamphlets



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



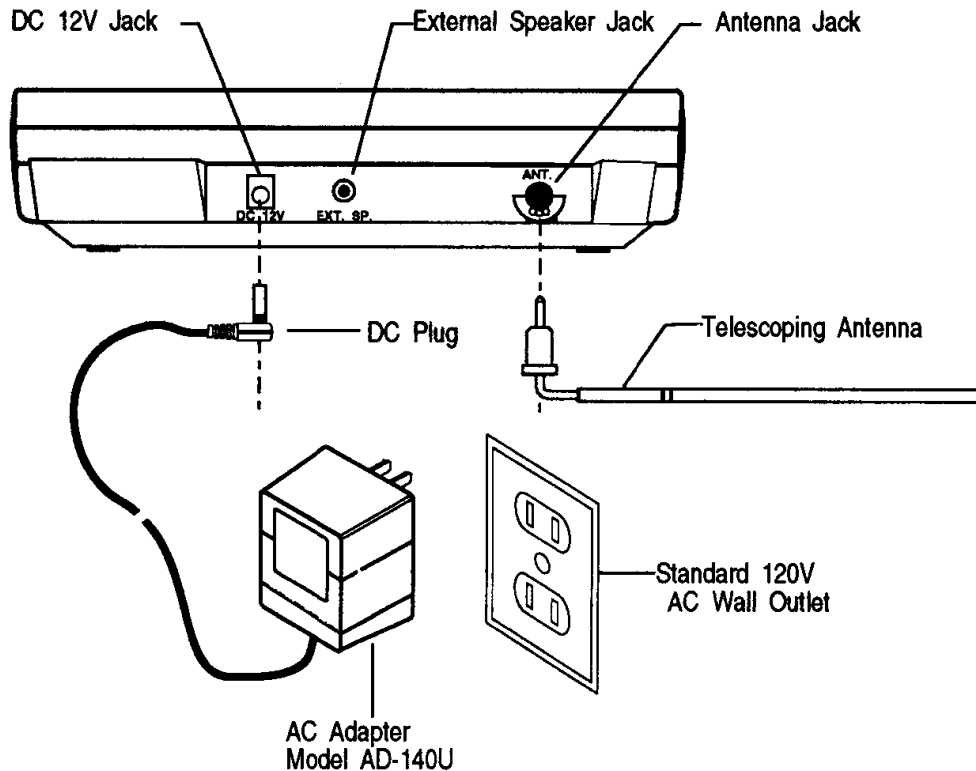
Complete and mail your Registration Form immediately.



Read this Operating Guide thoroughly before operating the scanner.

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# Installing the BC148XLT

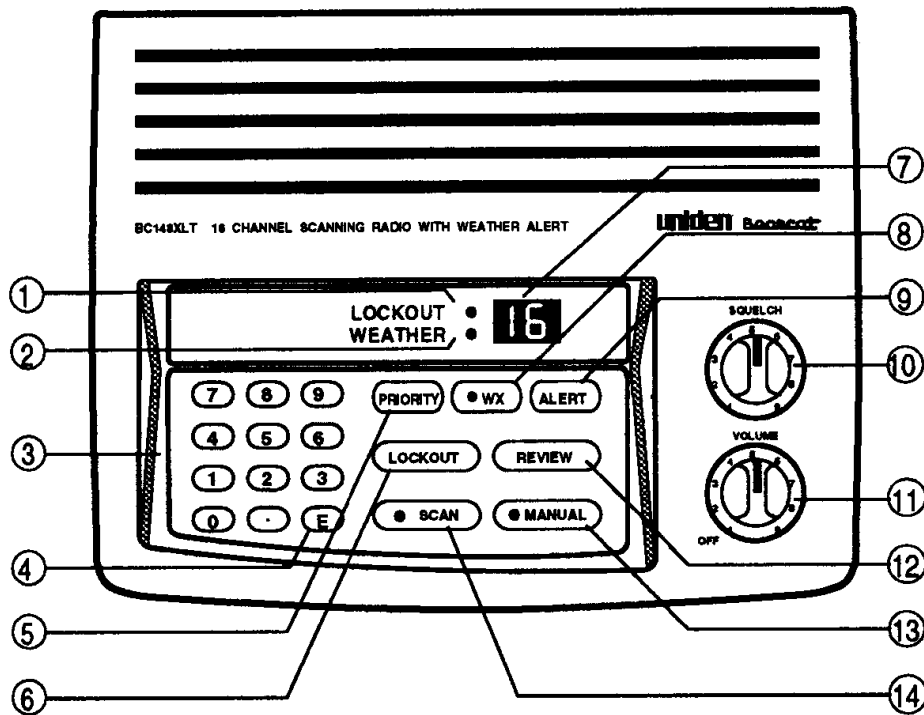


1. Insert the DC plug end of the AC Adapter into the DC12V jack on the scanner.
2. Plug the AC Adapter into any standard 120V AC wall outlet. **Do not** plug into an outlet controlled by a wall switch; it could cause scanner memory loss.
3. Plug the Telescoping Antenna into the ANT. jack. Extend the 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.

## Notes

- If strong interference or electrical noise is received, relocate the scanner or its antenna away from the source.
- 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.

# Controls and Functions



1. **LOCKOUT LED** Lights when the current channel is locked out.
2. **WEATHER LED** Lights when in Weather Search (WX) mode. Flashes when searching for the active weather channel in your area.
3. **NUMERIC KEYS** Use to program a frequency into each channel for scanning. Also, use for direct channel access with **MANUAL**.
4. **ENTER KEY**  
**E** Press **E** to complete the programming of a frequency to the selected channel.
5. **PRIORITY KEY**  
**PRIORITY** Press **PRIORITY** to turn Priority mode on or off. In Priority mode, the scanner samples Channel 1 every two seconds, regardless of any other mode the scanner is in, except Weather Alert. If a transmission on Channel 1 is detected, the scanner monitors Channel 1 until no signal is present. Priority mode is cancelled when you turn off the scanner.
6. **LOCKOUT KEY**  
**LOCKOUT** Press **LOCKOUT** to prevent scanning of the displayed channel. The LOCKOUT LED lights when the current channel is locked out. Lockout is retained in memory. Press **LOCKOUT** again to unlock the channel. The LOCKOUT LED turns off. Lockout is active only when the scanner stops on an active channel or a channel selected in Manual mode.



**7. CHANNEL DISPLAY**

Display	Mode
Current channel.	Scan or Manual
Channel before <b>WX</b> was pressed.	Weather
Each numeric entry, decimal (-), and <b>E</b> if entry error.	Programming
When <b>REVIEW</b> is pressed, displays programmed frequency, digit-by-digit.	Review
<b>L</b>	Memory Loss
<b>A</b>	Weather Alert
<b>P</b> , when scanner stops on the Priority Channel.	Priority

**8. WX KEY**



Press **WX** to find the local weather channel.

**9. ALERT KEY**



Weather Alert can be activated only while you are listening to a local weather channel. Press **WX** to find your local weather channel. Then press **ALERT** to activate the Weather Alert mode. When you press **ALERT**, Weather Alert mutes the normal weather broadcast audio. A siren will sound when a severe weather emergency tone signal is received.

**10. SQUELCH CONTROL**

Adjust SQUELCH to set the scan threshold. When you are monitoring a single channel in Manual mode, adjust SQUELCH to eliminate the background “rushing” noise heard in the absence of an incoming signal.

**11. VOLUME CONTROL / POWER SWITCH**

Turn VOLUME clockwise to turn the scanner on and increase the volume. Turn counterclockwise to decrease the volume or turn the scanner off.

**12. REVIEW KEY**



Press **REVIEW** to review the frequency of the current channel.

**13. MANUAL KEY**



Press **MANUAL** 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.

**14. SCAN KEY**



Press **SCAN** to start scanning.

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## Scanning Overview

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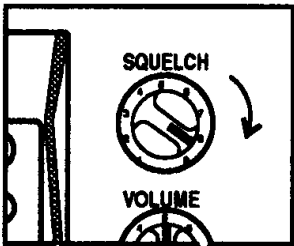
The BC148XLT has 16 memory channels, each of which can be programmed to store one frequency within the band of frequency coverage. (For a listing of frequency ranges and bands, see "Technical Specifications" on page 19.)

When you press **SCAN**, each of the programmed frequencies is scanned for an active frequency (channels that are locked out are skipped) at the rate of about 15 channels per second.

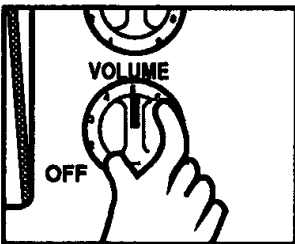
When the scanning stops on an active frequency, it remains on that channel as long as the transmission continues. When the transmission ends, the scanner will remain on the same channel for 2 more seconds, waiting for a responding transmission. If there is no responding transmission within 2 seconds, the scanning cycle resumes.

## Getting Started

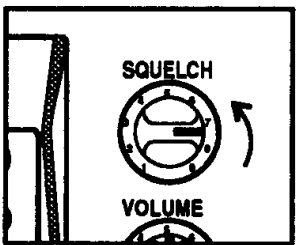
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Turn **SQUELCH** fully clockwise to the highest number setting (9).



Turn on the power by turning **VOLUME** clockwise. Adjust the volume to where you can hear a steady noise.



Set the squelch at the scanning threshold by turning **SQUELCH** *counterclockwise* just until the noise disappears.

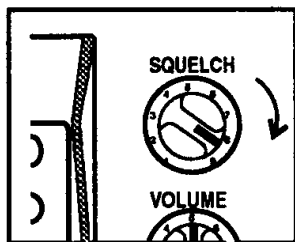
The scanner automatically starts scanning.

If you have not programmed any channel, press **WX** to hear your local weather broadcast.

Adjust the volume to a comfortable listening level.

## Adjusting the Squelch

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Open the squelch by turning SQUELCH *clockwise* to position 8 or 9. You should hear a steady sound (scanning stops).

Now turn SQUELCH *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.

When squelch is open, you can hear the voice (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.

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

## Programming Tips

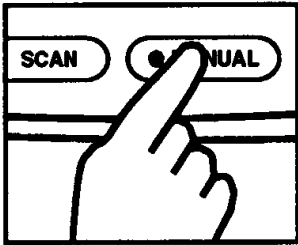
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- You can program *one* frequency per channel.
- Channel 1 is the fixed priority channel. Program the most important frequency, or the one of major interest, into Channel 1.
- To quickly program a series of channels, start programming at the lowest number channel you want to program. For example, when you are programming five new frequencies into Channels 4 through 8, start with Channel 4. After you complete the programming in one channel by pressing (E), press (MANUAL) to step up to the next channel to be programmed.
- If you make an error during programming, or the frequency is out of range, "E" will appear on the channel display.
- During numeric entry, if you know that you pressed the wrong number, simply press (●) twice. This will cancel the entire numeric entry, and display the current channel number you are on.
- Above 406 MHz, the frequency steps are in 12.5 kHz increments. To enter a frequency such as 450.4875, press each key in sequence. You will not see the last digit entered in the display (even when reviewed). However, the correct frequency is stored in the scanner.
- 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.
- In the event you want to manually erase *all* the memory, first turn off the scanner. Then press and hold (MANUAL), (2), and (9) simultaneously while you turn the scanner back on. The channel display shows "L", and all memory is erased.

## Programming Frequencies

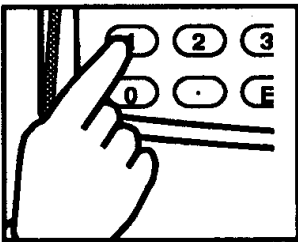
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Before you can use your BC148XLT, you must follow these steps to program the channels, except weather frequencies.



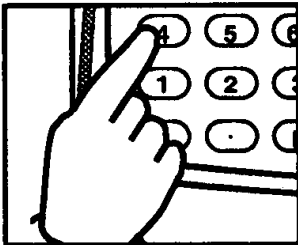
*Example:* Program 420.150 MHz into Channel 12.

Press **MANUAL** to stop scanning.



Press **1** **2** on the numeric keypad.

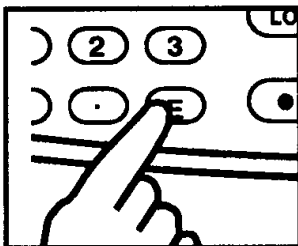
Then press **MANUAL** again.



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

**4** **2** **0** **.** **1** **5** **0**

*The decimal point ( **.** ) appears as a dash ( - ) on the channel display.*



Press **E** to complete the entry.

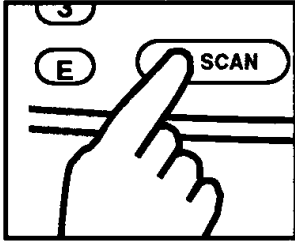
## A Word About Memory Back-up

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Your BC148XLT has a convenient type of memory back-up system. In the event of a power failure, the scanner provides approximately 3 days of memory retention so you don't immediately lose the frequencies stored in any of the channels.

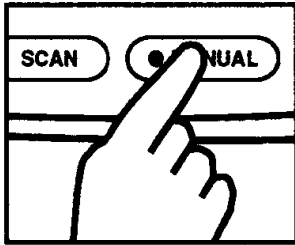
## Scanning

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Turn on the power adjust SQUELCH until the hissing sound stops and then, press **(SCAN)** to start scanning. (When the scanner is turned on, it is automatically in Scan mode.)

Scanning stops on any active channel automatically, except those channels programmed with **(LOCKOUT)**. Scanning resumes automatically 2 seconds after the channel becomes inactive.



You can 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 one channel.

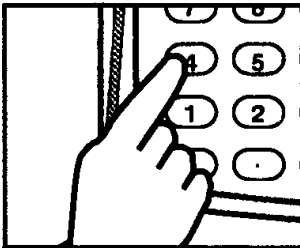
If desired, you can press **(MANUAL)** repeatedly to manually scan all 16 channels, one press per channel, including the locked out channels.

## Direct Channel Access

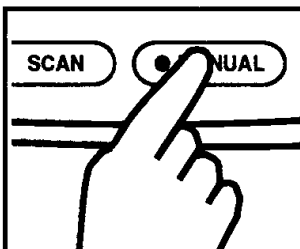
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This feature allows you to instantly access a specific channel you want to monitor.

*Example:* Select Channel 4.



Press **(MANUAL)** and then **(4)**.

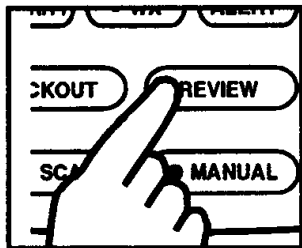


Press **(MANUAL)**

When you press **(4)**, the display changes to "4", but the scanner still monitors the previous channel displayed. You must press **(MANUAL)** to successfully complete the direct access to Channel 4.

## Checking the Programmed Frequency

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Press **REVIEW** to check the frequency programmed in the display channel.

Each digit of the frequency is displayed individually, and then the channel number returns.

Repeat these steps to review additional frequencies in the other channels.

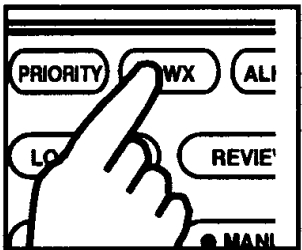
### Note

- If you enter a frequency that is not an exact step within the range (e.g., 151.056 instead of 151.055), the nearest correct frequency will automatically be stored and displayed when you press **REVIEW**.

## Weather Channel Scan

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The BC148XLT allows you to search for your local NOAA weather channel.



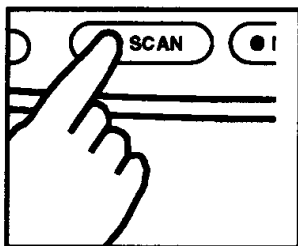
Press **WX** to find the active weather channel in your area from 7 pre-programmed NOAA channels.

It is possible that your area is covered by more than one weather station.

When you press **WX**, the BC148XLT will find an active broadcast immediately. If the broadcast sounds weak and distant, press **WX** again to look for a closer station.

### Note

- All weather channels transmit continuous broadcasts. Once the Weather scan stops on a transmission, it will remain on that channel. Weather scan will not resume automatically. You must press **WX** again to reactivate scanning.
- 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 will improve the reception.



To exit Weather mode, press **SCAN** or **MANUAL**, or turn off the scanner.

### **Note**

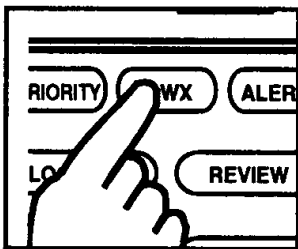
- It is *not* recommended to program a weather frequency into one of the 16 channels. Because weather channels transmit continuously, the scanner will stop on that channel, disrupting the scanning cycle. The Weather Scan feature was provided specifically to avoid this occurrence.

## **Weather Alert**

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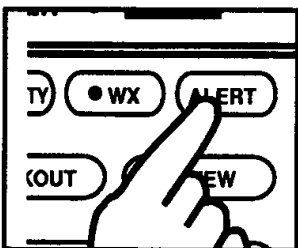
With this unique feature, the BC148XLT can function as a severe weather warning radio. This is especially useful when your area is expecting severe weather conditions late at night. Just set the scanner to Weather Alert mode and sleep peacefully! The BC148XLT will awaken you with a loud siren whenever your local NOAA weather station broadcasts a severe weather emergency tone.

To use Weather Alert:



First, press **WX** a few times to find your best local weather broadcasting.

The Weather LED must be lit in order to activate the Weather Alert mode.



Press **ALERT**.

The channel display changes to "A", and the BC148XLT will be silent.

The BC148XLT now functions as a Weather Alert radio, waiting to receive a severe weather emergency tone.

When the BC148XLT receives an emergency tone from your local NOAA weather station, it will respond with a loud siren at maximum volume (regardless of the volume control setting). The siren will continue until the emergency tone stops transmitting.



When the siren stops, you can hear the emergency message being broadcast. The "A" display will blink to indicate that the BC148XLT has received an emergency tone at least once. The BC148XLT remains in Weather Alert mode and will respond with a siren if another emergency tone is broadcast.

To stop the siren manually and exit Weather Alert mode, press any of these keys:

**ALERT**, **WX**, **MANUAL**, or **SCAN**.

### **Note**

- If you press **ALERT** while in Scan mode, "E" appears on the display.

### **Testing the Weather Siren**

You can test the siren in any mode to hear how it sounds, and to ensure that the circuitry is working.

Press and hold **WX**, then press **ALERT** to start the siren.

To stop the siren, press any of these keys:

**ALERT**, **WX**, **MANUAL**, or **SCAN**.

## **Priority Scanning**

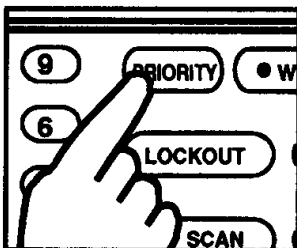
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Your BC148XLT has a fixed Priority Channel, Channel 1. Priority Scan works like a "dual watch" function. When you activate Priority Scan mode, the scanner starts "sampling," or keeping track of the activity on Channel 1 while listening to other channels.

### **Note**

- Priority Scan mode does not work when the scanner is in Weather Alert mode.

Every 2 seconds, the scanner checks Channel 1 for activity. If a signal is present, Channel 1 will be monitored until the transmission ends, and a constant "P" appears on the channel display. When the signal stops for more than 2 seconds, normal operation resumes.



First program the frequency most important to you into Channel 1.

Press **PRIORITY** to set the scanner in Priority Scan mode. "P" appears on the display momentarily every 2 seconds to indicate that the Priority scan is on.

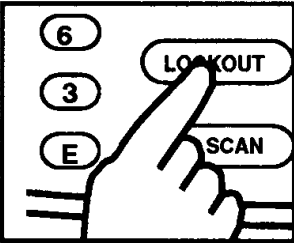
To exit Priority scan, press **PRIORITY** again.

## Channel Lockout

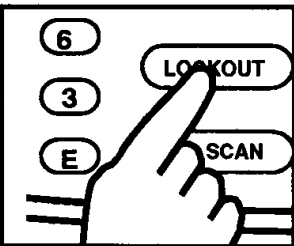
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You can lock out a channel so it is not scanned. This *does not* erase the frequency from the channel when it is locked out. You can lock out up to 15 channels, including the Priority channel, but not *all* 16 channels.

*Example:* Suppose you want to lock out Channel 2 because it stops on transmissions you don't want to hear.



Press **LOCKOUT** when the scanner stops on Channel 2. The scanner locks out Channel 2 and immediately advances to the next channel to resume scanning.



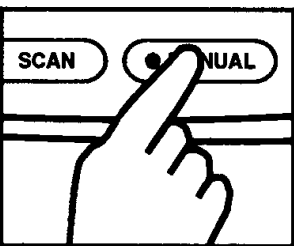
In the Manual mode, press **LOCKOUT** to lock out the displayed channel. Pressing **LOCKOUT** will not advance to the next channel in Manual mode.

The LOCKOUT LED lights to indicate the displayed channel is locked out.

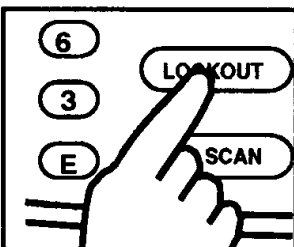
Whenever you want to search for locked out channels, press **MANUAL** repeatedly to go through all 16 channels. If a channel is locked out, the LOCKOUT LED will light.

### Restoring a Locked Out Channel

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



Use **MANUAL** to find the locked out channel.



Press **LOCKOUT** to unlock the displayed channel.

The LOCKOUT LED for the displayed channel will turn off.

## Helpful Hints

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- 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 "L" when memory is lost.
  - 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. A higher elevation, if possible, may provide better reception. You might 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 scanner memory loss.
- Cleaning**
- Disconnect the power to the unit before cleaning.
  - Clean the outside of the scanner with a mild detergent. To prevent scratches, **do not** use abrasive cleaners or solvents. Be careful not to rub the LED 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 BC148XLT is not performing properly, try the steps listed below.

PROBLEM	SOLUTION
Scanner won't work.	<ul style="list-style-type: none"><li>• Check the connections at both ends of the AC Adapter.</li><li>• Turn on the wall switch of your room. You could be using an outlet controlled by the wall switch.</li><li>• Move the AC Adapter to another wall outlet.</li></ul>
Improper reception.	<ul style="list-style-type: none"><li>• Check antenna connection</li><li>• Move or angle the antenna.</li><li>• If programmed frequency is higher than 406 MHz, a shorter antenna length may improve the reception.</li><li>• Relocate the scanner.</li><li>• You may be in a fringe area. This may require an optional multi-band antenna. Check with your dealer or local electronics store.</li></ul>
Scan won't stop.	<ul style="list-style-type: none"><li>• Adjust Squelch to the threshold (see page 10, "Adjusting the Squelch.")</li><li>• Check the antenna connection.</li><li>• Check to see if many of the channels are locked out. If so, the scanner has less chance of finding an active channel.</li><li>• Review each channel's frequency to see if it is correct and no memory has been lost.</li><li>• It is possible that none of the programmed frequencies are active at this time.</li></ul>
Scan won't start.	<ul style="list-style-type: none"><li>• Press the Scan button again.</li><li>• Adjust the Squelch Control.</li><li>• Check to see if 15 channels are locked out. If so, unlock the channels as needed.</li></ul>
Weather Scan won't work.	<ul style="list-style-type: none"><li>• Adjust Squelch to the threshold (see page 10, "Adjusting the Squelch.")</li><li>• Check antenna.</li><li>• No active station within range.</li></ul>
Cannot set Weather Alert.	<ul style="list-style-type: none"><li>• Press the WX button again to find the active channel. Then press the Alert button again.</li></ul>

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).

## Technical Specifications

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<b>Band Coverage:</b>	10 bands plus Weather Channel	
<b>Frequency Coverage:</b>	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
	<i>Above bands in 5 kHz steps</i>	
	406-420 MHz	Federal Government
	420-450 MHz	70cm Amateur Band
	450-470 MHz	UHF Standard Band
	470-512 MHz	UHF-"T" Band
	<i>Above bands in 12.5 kHz steps</i>	
<b>Sensitivity (nominal)</b>	0.3 $\mu$ V 29-54 MHz	
<b>12 dB SINAD:</b>	0.4 $\mu$ V 137-174 MHz	
	0.6 $\mu$ V 406-512 MHz	
<b>Selectivity (nominal):</b>	-6 dB at $\pm$ 10 kHz (162.4 MHz 20 dB)	
	-50 dB at $\pm$ 15 kHz (162.4 MHz 20 dB)	
<b>Channels:</b>	16	
<b>Scan Rate:</b>	Up to 15 channels per second	
<b>Scan Delay:</b>	2 seconds	
<b>Audio Output (nominal):</b>	0.9 W to 1.2 W (max.) 10% TDH	
<b>Power Requirements:</b>	12V DC using AD-140U AC Adapter	
<b>Antenna:</b>	Telescoping (included)	
<b>External Jacks:</b>	Antenna jack External speaker DC 12V power jack	
<b>Size:</b>	9 $\frac{9}{16}$ " (W) x 7 $\frac{7}{8}$ " (D) x 2 $\frac{5}{16}$ " (H)	
<b>Weight:</b>	1 lb. 5 oz.	

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

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

# One Year Limited Warranty

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**WARRANTOR:** UNIDEN AMERICA CORPORATION (“UNIDEN”)

**ELEMENTS OF WARRANTY:** UNIDEN warrants, for one year, UNIDEN Scanners (hereinafter referred to as the Product) to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

**WARRANTY DURATION:** This warranty shall terminate and be of no further effect one (1) year after the date of the original purchase of the Product or at the time the Product is (A) damaged or not maintained as reasonable or necessary, (B) modified, (C) improperly installed, (D) repaired by someone other than warrantor for a defect or malfunction covered by this warranty, (E) used in a manner or purpose for which the Product was not intended, or (F) sold by the original purchaser.

**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 repair the defect and return it to you without charge for parts, service, or any other cost (except shipping and handling) incurred by warrantor or its authorized service centers in connection with the performance of this warranty. **THE ONE YEAR 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 of the United States of America.

**PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY:** If, after following the instructions in this operating guide in the Troubleshooting section, you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging) and include a note describing the defect that has caused you to return it. The Product (with evidence of original purchase) should be shipped or delivered (by UPS or insured parcel post), freight prepaid, to warrantor at:

Uniden America Corporation  
Parts and Service Division  
8707 North By Northeast Blvd.  
P.O. Box 501368  
Indianapolis, IN 46250  
(317) 842-2483 (Monday through Friday, 8:00 am to 5:00 pm EST).

PAT. UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENT NUMBERS:

3,883,808	3,961,261	3,962,644	3,974,450	3,974,452
3,987,400	3,996,521	3,996,522	4,000,468	4,027,251
4,057,760	4,092,594	4,100,497	4,114,103	4,123,715
4,153,877	4,156,193	4,157,505	4,179,662	4,219,821
4,270,217	4,398,304	4,409,688	4,455,679	4,461,036
4,521,915	4,627,100	4,888,815	4,932,074	4,947,456
5,014,348	DES 253,173	DES 272,737	RE 31,523	

OTHER U.S. AND FOREIGN PATENTS PENDING

**uniden®**  

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Printed in the Philippines

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