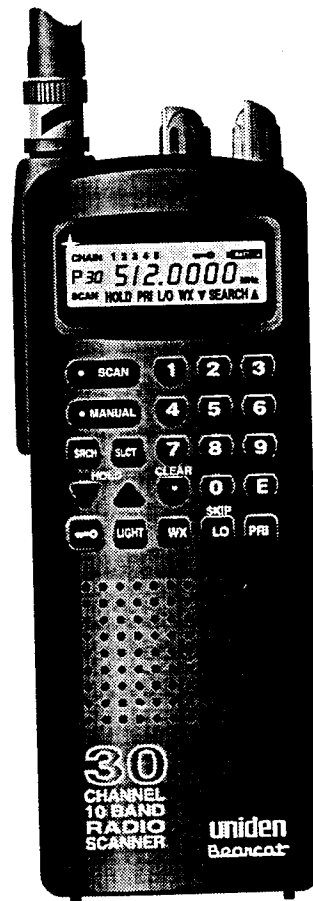


AMW4B296

uniden
Bearcat

BC60XLT-1
*Programmable
Hand-Held
Scanner*



UBZZ01257ZZ

Operating Guide

Precautions

Before you use this scanner, please read and observe the following:

Earphone Warning!

Be sure to use only the recommended optional monaural earphone (EP009). You may also use a 32Ω stereo headset. Use of an incorrect earphone or stereo headset may be potentially hazardous to your hearing. The output of the Phone jack is monaural, but you will hear it in both headphones of a stereo headset.

Set the Volume to a comfortable audio level coming from the speaker before plugging in the monaural earphone or a stereo headset of the proper impedance (32Ω). Otherwise you might experience some discomfort or possible hearing damage if the volume suddenly becomes too loud because of the Volume Control or Squelch Control setting. This may be particularly true of the type of earphone that is placed in the ear canal.

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.

IMPORTANT!

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 jurisdictions. Your local law enforcement officials should be able to provide you with information regarding the laws in your community.

General Battery Warning!

Do not short-circuit any Battery.

Do not discard Batteries in a fire; they may explode.

Alkaline Battery Warning!

Do not recharge Alkaline Batteries in this product. Doing so may cause serious damage to the product and will void the warranty. Uniden does not recommend using rechargeable Alkaline Batteries in this product.

Nickel-Cadmium Battery Warning!

When using Nickel-Cadmium Batteries with this product, take note of the following warnings:
Cadmium is a chemical known to the State of California to cause cancer.

Do not charge Nickel-Cadmium Batteries with any charger other than the one supplied with this product. Using another charger may damage the Batteries, or cause them to explode.

Nickel-Cadmium Batteries must be disposed of properly.

Residents of Minnesota should contact 1-800-225-PRBA for information concerning reclamation and disposal of Nickel-Cadmium Batteries.

Residents outside of Minnesota should contact their local authorities for information concerning reclamation and disposal of Nickel-Cadmium Batteries.

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Introduction

The **BC60XLT-1** Scanner is a sophisticated information radio that allows you to monitor 10 different frequency bands and the NOAA weather information broadcasts. It is a state-of-the-art radio with scanning capabilities, and it can save up to 30 different frequencies in memory.

What is Scanning?

Unlike standard AM or FM radio stations, most two-way communications do not transmit continuously. The **BC60XLT-1** scans *programmed* channels until it finds an active frequency.

Scanning stops on an active frequency and remains on that channel as long as the transmission continues. When the transmission ends, the scanning cycle resumes until another transmission is received.

What is Chain Searching?

You can program five different personal search bands in your new scanner. You simply select a Chain Search location, define the search range, and begin your search. The scanner looks for active communications in the range you've specified, so you can locate frequencies in your area which may not be listed in your *Betty Bearcat Starter Frequency Guide*.

You can set your scanner to search up to all five Chain Search bands at once, or you can turn off those search bands you don't want. This gives you complete control of the search function.

Types of Communications

Monitor communications such as:

- Police and fire department (including rescue and paramedics)
- NOAA weather broadcasts (preprogrammed channels)
- Business/industrial radio
- Motion picture and press relay
- Utilities
- Land transportation frequencies, such as trucking firms, buses, taxis, tow trucks, and railroads
- Marine and amateur (ham radio) bands
- And more in these bands:

Frequency Range	Transmission
29-29.7 MHz	10 Meter Amateur Band
29.7-50 MHz	VHF Low Band
50-54 MHz	6 Meter Amateur Band
137-144 MHz	Military Land mobile
144-148 MHz	2 Meter Amateur Band
148-174 MHz	VHF High Band
406-420 MHz	Federal Govt. Land Mobile
420-450 MHz	70 cm Amateur Band
450-470 MHz	UHF Standard Band
470-512 MHz	UHF "T" Band

NOTE:

The 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.

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 Operating Guide, could void your authority to operate this product.

Feature Highlights

- **30 Channels** – Program one frequency into each channel. You must have at least one channel programmed to use the Scan mode.
- **29 MHz-512 MHz** – Search these frequency ranges with your scanner. (The frequency coverage is not totally continuous from 29 MHz to 512 MHz.)
- **Chain Searching** – You can define five different personal search bands, and search up to all five chain locations at once.
- **Priority Channel Scanning** – Allows you to designate a priority channel which is monitored every two seconds when Priority Scanning is selected.
- **Manual Channel Access** – Go directly to any channel.
- **Memory Backup** – Frequencies programmed in the channels are retained in memory. If the power is disconnected, the memory retains the frequencies for 7 days.
- **Weather Scan** – Use as a weather information radio.
- **Preset Two-second Delay** – Scanner waits two seconds after transmission stops before resuming scanning.
- **LCD Back Light** – An orange LCD light remains on for 15 seconds when  is pressed.

Where to Obtain More Information

Before using your scanner, you must program frequencies into available channels. The *Betty Bearcat Starter Frequency Guide* lists typical frequencies used around the U.S.A. and Canada that you may program into your new scanner.

If the frequencies listed in the starter guide do not work in your area, call the enclosed **Mr. Scanner (800) Number**. A Uniden representative should be able to provide you with sample frequencies, or use the enclosed order form to purchase a local frequency list.

The Bearcat Radio Club and other similar hobby clubs have publications, information on computer bulletin boards, and even contests for the radio enthusiast. Also, your local library has more information.

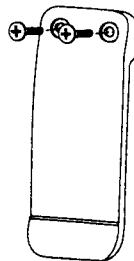
Included with Your Scanner

If any of these items are missing or damaged, immediately contact your place of purchase or Uniden Customer Service at: (800) 297-1023, 8:00 a.m. to 5:00 p.m., Central, Monday through Friday.

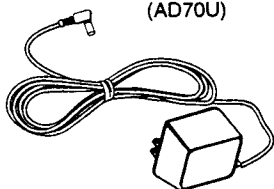
Rubber Antenna
(AT218)



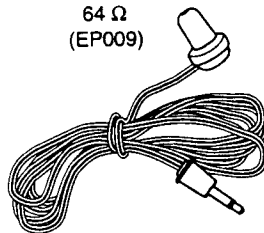
Belt Clip
with
Screws
(BCK150)



AC Adapter
(AD70U)



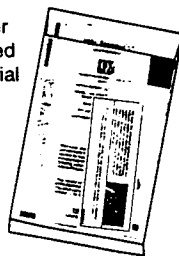
Monaural Earphone
64 Ω
(EP009)



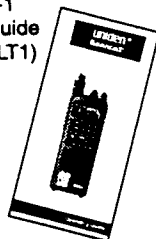
Betty Bearcat
Starter
Frequency
Guide



Other
Printed
Material



BC60XLT-1
Operating Guide
(OMBC60XLT1)



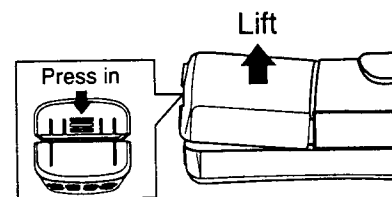
Setup

These are helpful guidelines when using your new scanner:

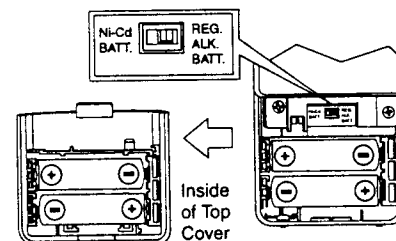
- If your scanner receives interference or electrical noise, move the scanner or its antenna away from the source.
- If you need to improve reception, use an optional antenna designed for multi-band coverage. (You can purchase this type of antenna at a local electronics store.)
- Use the included earphone or an optional stereo headset with proper impedance for private listening. Read the precautions on the inside front cover of this Guide.

Installing the Batteries

1. Open the cover.

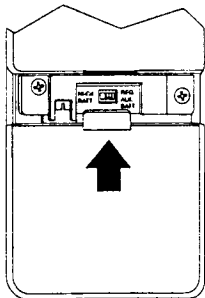


2. Insert batteries.



Note: If you are installing alkaline batteries, set the switch to **REG. ALK. BATT.** If installing Nickel-Cadmium Batteries, set the switch to **Ni-Cd BATT.**

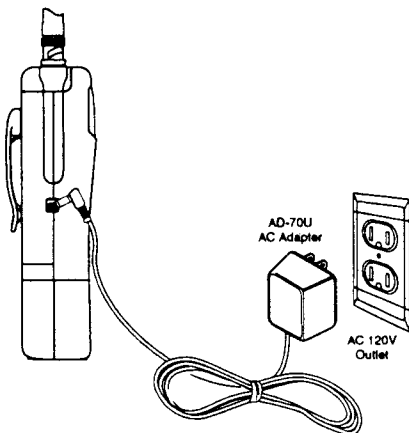
3. Replace cover and press down until it clicks into place.



Warning: Do not mix alkaline batteries with Ni-Cd Batteries. Be sure to install four batteries of the same type.

AC Adapter/Charger

Use the AC Adapter/Charger to power the **BC60XLT-1** from an AC outlet.



Use only the supplied AC Adapter (AD70U) or one of the optional power cords (UA502 or UA510).

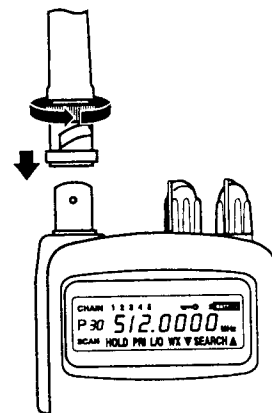
Charging Warning

Do not charge alkaline batteries in this scanner. Doing so may cause serious damage to the product and void the warranty. Before attempting to recharge batteries, make sure you have installed four rechargeable nickel-cadmium batteries and the selector switch is set to **Ni-Cd BATT.**

Adapter Safety Feature

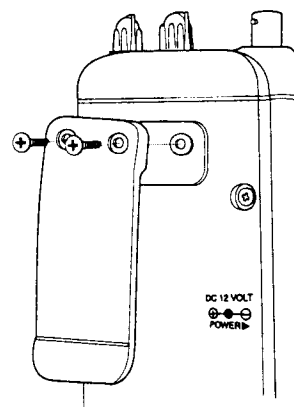
The AC Adapter included with this scanner may be equipped with a polarized line plug — a plug with one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug.

Flexible Antenna



Attach the flexible antenna to the **BNC** connector.

Belt Clip



Do not tighten the screws too tight. You can damage the case or clip.

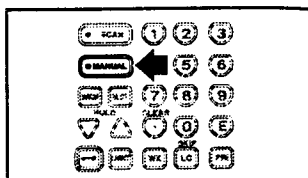
Basic Operation

Note: You can fold out the Front Cover to see the Controls and Indicators while reading this Guide.

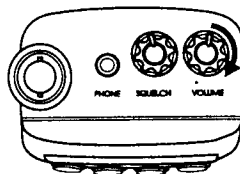
Setting the Squelch

To set the Squelch, you must be in the Manual Mode. No signal should be present when adjusting squelch.

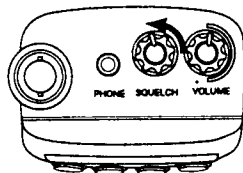
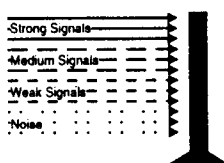
1. Press **MANUAL** until you do not hear a signal.



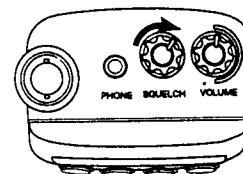
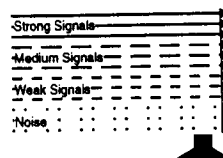
2. Adjust **VOLUME** to a comfortable listening level.



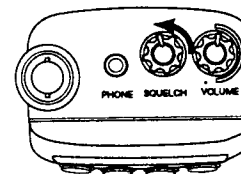
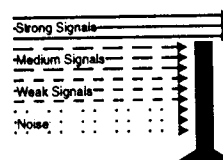
3. Think of the Squelch Control as a gate. Turn **SQUELCH** fully counter-clockwise. This raises the "Squelch Gate" so high that no signals can get through.



4. Turn **SQUELCH** fully clockwise until you hear a hiss. This lowers the "Squelch Gate" so that everything gets through—noise, weak signals, and strong signals.



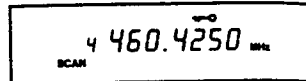
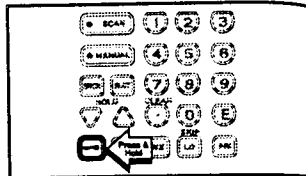
5. Turn **SQUELCH** back counter-clockwise just until the hiss stops. Now the "Squelch Gate" allows only strong signals through.



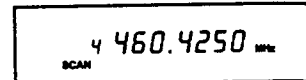
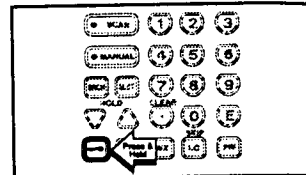
Keylock

Key Lock prevents accidental key entries during scanning.

1. To lock the keypad, press and hold  until the key symbol appears.



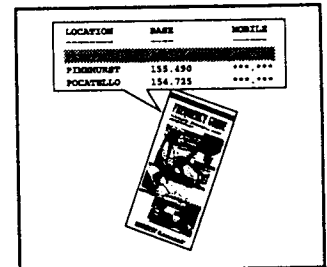
2. To unlock the keypad, press and hold  until the key symbol disappears.



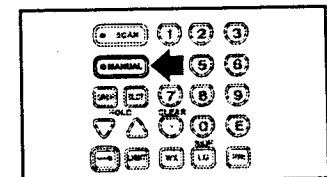
Programming

Before the **BC60XLT-1** can receive radio broadcasts, you must program a frequency into at least one channel. Before scanning, repeat this procedure for each channel you program.

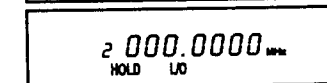
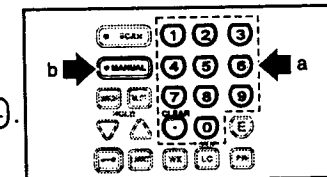
1. Select frequencies from your starter guide.



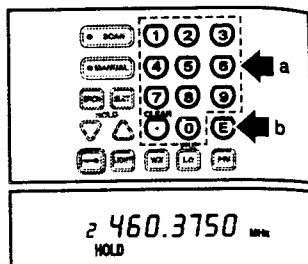
2. Press .



3. Select a channel.
 - a. Enter the channel number.
 - b. Then press .



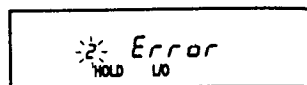
4. Enter the frequency.
- Enter the frequency number.
 - Then press (E).



Note: To clear a mistake while entering the frequency, press (C) twice, and start over.

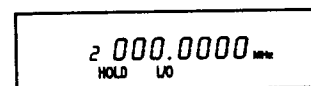
If the frequency entered is outside the Frequency Range of the scanner, a distinctive beep sounds. (See the Table on page 3 or the Band List on the back of the scanner).

Press (C) and go back to Step 4.



Programming Tips

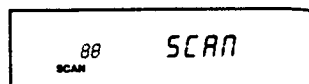
- Do not program a weather frequency into one of the channels, since weather channels transmit continuously. Use (WX) for weather information.
- Group similar frequencies into adjacent channels. For example, program police frequencies in channels 1 through 10 and fire/emergency into channels 11 through 20, and so on.
- Put the frequency that you listen to the most or the most important frequency into a Priority channel.
- 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 finish programming a channel, press (MANUAL) or (C) to go to the next higher channel.
- To erase the channel, press (0), and then press (E). Channels with no frequencies are automatically locked out.



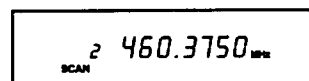
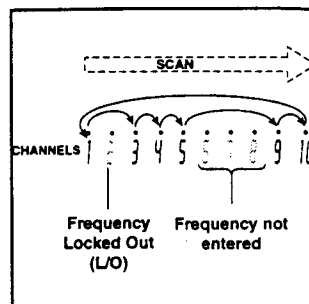
- Record channels and frequencies in some convenient place in case the scanner memory is lost.

Scanning

When you turn on the power, the **BC60XLT-1** automatically starts in the Scan mode.

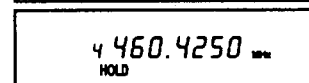
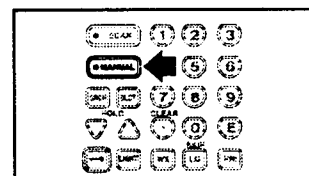


During normal scanning the scanner skips unprogrammed or locked out channels.

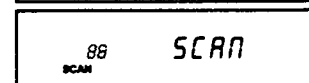
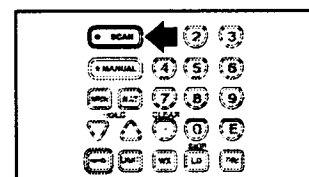


When a transmission is received, the Scanner stops on that channel. When the transmission ends, scanning resumes automatically after two seconds.

To stop on a channel during scanning, press **MANUAL**.



To resume scanning, press **SCAN**.

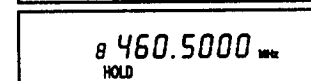
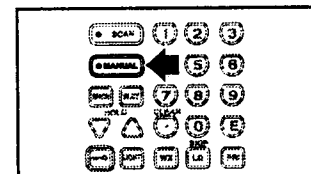


Channel Lockout

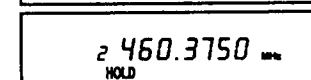
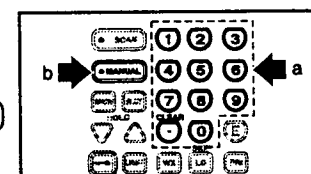
You can *lockout* any channel so it is not reviewed during normal scanning. You can restore the channel to scanning whenever you wish.

Lockout in Manual Mode

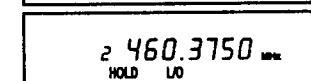
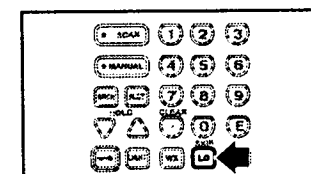
1. Press **MANUAL**.



2. Select a channel.
 - a. Enter the channel number.
 - b. Then press **MANUAL** again.



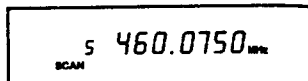
3. Press **LO** to lockout the channel.



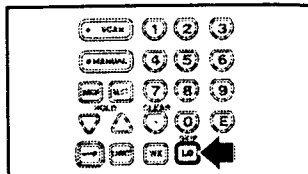
Locking a Channel While Scanning

If the scanner keeps stopping on a particular channel due to noise or too frequent transmissions, you may want to keep that channel from scanning.

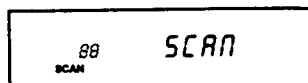
1. Wait until the scanner stops at the channel.



2. Then press **LO**.



3. The scanner immediately resumes scanning because the locked out channel is no longer in the scanning sequence.

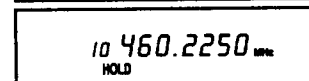
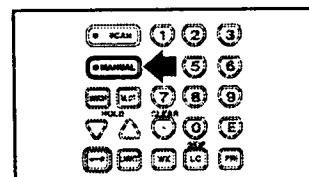


Lockout Tips

- To quickly lockout a series of channels, start with the lowest number channel.
For example, if you are locking out channels 4, 7, 8, 12, and 15, start with Channel 4. After selecting channel 4, press **LO**. Then press **MANUAL** one or more times to step up to the next channel to be locked out.
- Record the locked-out channels in some convenient place so you can restore them.

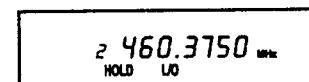
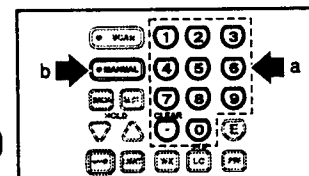
Restore a Locked Out Channel

1. Press **MANUAL**.

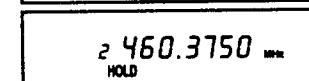
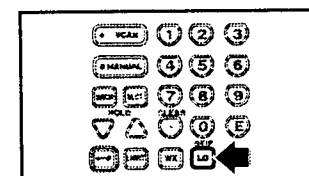


2. Select a locked out channel.

- a. Enter the channel number.
- b. Then press **MANUAL** again.



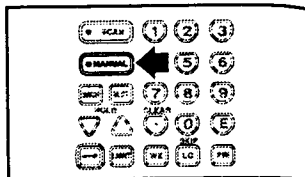
3. Press **LO** to unlock the channel.



Restore All Locked-out Channels

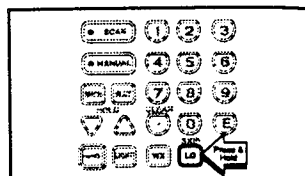
1. Press **MANUAL**.

Note: You must be in Manual Mode before restoring all locked-out channels.



2. Press and hold **LO** for about two seconds.

You will hear two beeps when all the channels have been restored.

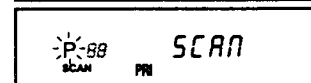
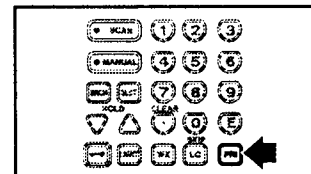


Priority Scan

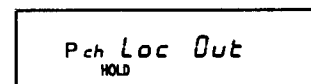
When Priority Scan is turned on, your scanner checks the priority channel every two seconds for activity. If a signal is present on the priority channel, your scanner monitors the channel until the transmission ends, then resumes normal scanning. You can designate any of the 30 available channels as your Priority Channel.

To activate Priority Scan (in either Manual or Scan Mode):

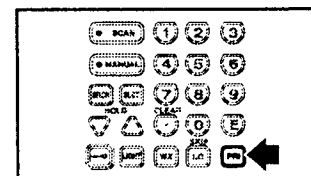
1. Press **PRI**.



Note: If you have locked out the priority channel, this message appears when you select Priority Mode.



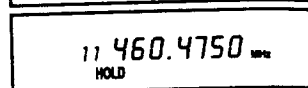
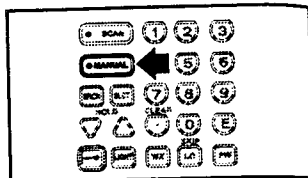
2. Press **PRI** again at anytime to deactivate Priority Scan.



Changing the Priority Channel

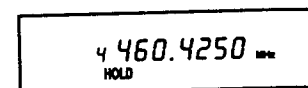
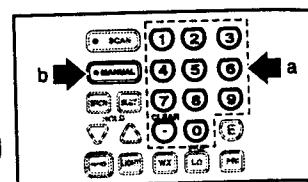
You cannot *eliminate* the Priority Channel, but you can change it to any other of the 30 available channels.

1. Press **MANUAL**.

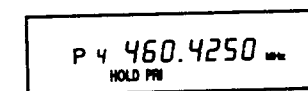
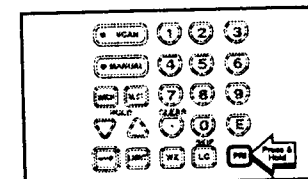


2. Select a new Priority Channel.

- a. Enter the channel number.
- b. Then press **MANUAL** again.



3. Press and hold **PRI** for two seconds to designate this channel as your new Priority Channel.



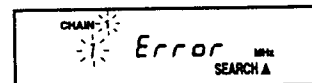
Two beeps indicate that the Priority Channel is changed.

Chain Search

Use Chain Search to find active frequencies in your area. You can search up to all five personal bands or turn off those bands you don't want to hear. This gives you flexibility of searching for any channel between 29 and 512 MHz, as long as they are within the 10 frequencies bands covered by the **BC60XLT-1**. See the table on page 3, the Technical Specifications on page 35, or the table on the back of the **BC60XLT-1**.

Setting a Search Range

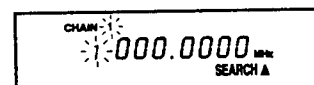
An error message displays when **SRCH** is pressed and you have not either specified a search range in at least one Chain Search band



—OR—

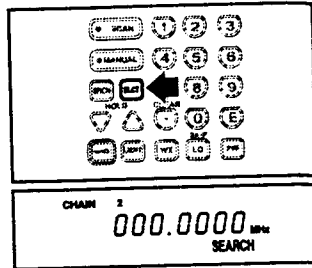
If you attempt to turn off all Personal Chain Search bands.

The *Error* message turns off automatically and Chain 1 is selected when all search locations are empty. Press **MANUAL** to return to normal scan, or press **SLCT** to select the band you want to program.

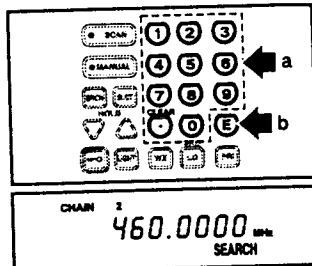


To program a frequency range into one of the five personal Chain Search bands, follow these steps:

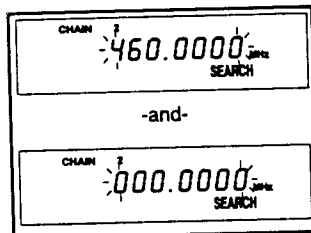
1. Press **[SLCT]** until the search location you want appears in the display.



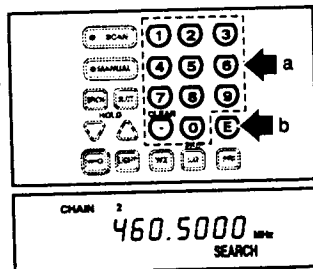
2. Enter lower limit of the search band.
 - a. Enter the frequency number.
 - b. Then press **(E)**.



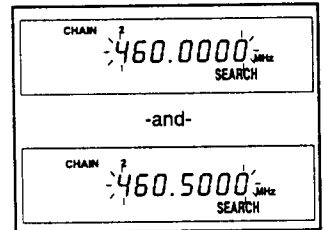
Note: The display alternates between the upper and lower ranges.



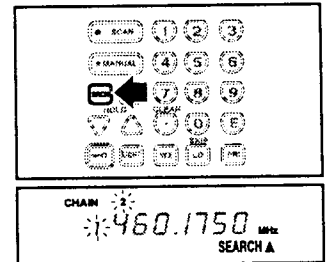
3. Enter upper limit of the search band.
 - a. Enter the frequency number.
 - b. Then press **(E)**.



Note: The display alternates between the upper and lower ranges. If you program the wrong limit, press **(0)** and **(E)**, then press **(0)** and **(E)** again to erase the error and reset the limits to zero. Then begin again.

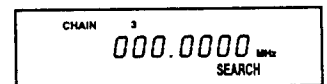


4. Press **[SRCH]** to begin your search.



Note: Your scanner searches each selected Personal Chain Search band. The display flashes the number of the band while it's scanned. Other bands which are programmed and selected are displayed but do not flash.

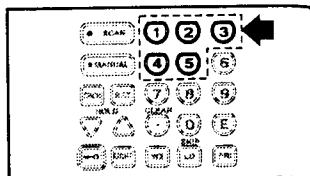
5. Press **[SLCT]** to move to the next chain location



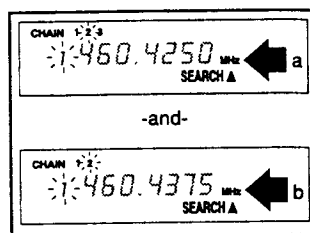
—OR—

Press the Chain Search band number, followed by **[SLCT]** to access the location directly.

6. To turn off a Chain Search band during search scanning, press its location number.



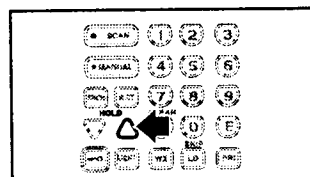
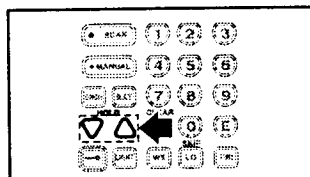
For example, (a) if Chain Search locations 1, 2 and 3 are selected, (b) press (3) to turn off band three so that it's not scanned during your search.



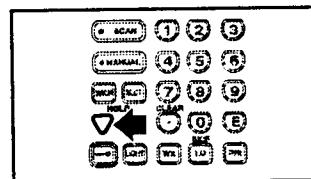
Search Hold Feature

1. Press Δ or ∇ at anytime to stop the search.
2. Press Δ to move to the next higher frequency

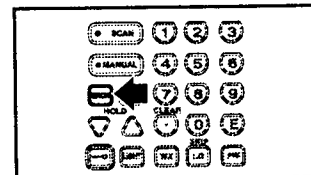
—OR—
(See Step 3)



3. Press ∇ to move down to the previous frequency.



4. Press Δ to resume searching.



Note: The search continues toward either the upper or lower search limit, depending on which direction key (Δ or ∇) was pressed last.

Channel Skip

If a particular channel continues to interrupt search scanning, it is possible to set your scanner to skip the frequency.

If your scanner stops while searching, press **SKIP** to lockout the frequency from the search range.

Note: You can program 10 skip frequencies. The 11th skip frequency entered causes the 1st skip frequency to unlock.

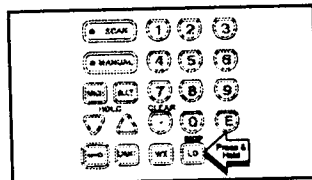
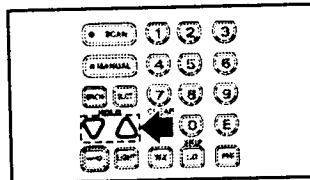
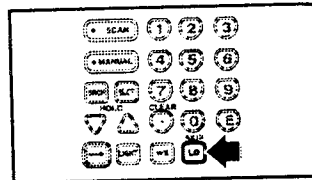
To unlock all skip frequencies at once, follow these steps:

1. Press either **△** or **▽** during a search.

Note: You must be in **Search Hold** before restoring all skipped frequencies.

2. Press and hold **SKIP** for about two seconds.

You will hear two beeps when all the channels have been restored.

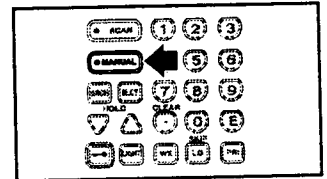


Storing Search Frequencies

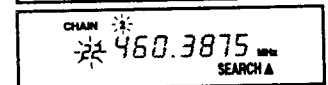
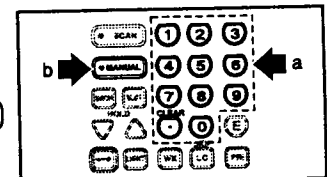
You can quickly store any frequency you find during Search.

Caution: You must select the channel in which you will store the frequency before entering the search mode. Otherwise, you may erase a stored frequency that you want to keep.

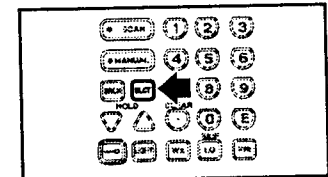
1. Press **MANUAL**.



2. Select a channel.
 - a. Enter the channel number.
 - b. Then press **MANUAL** again.

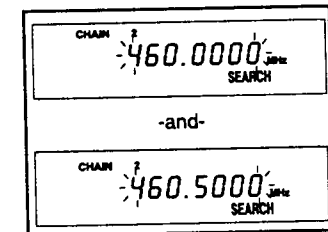


3. Select one or more of the personal search bands.

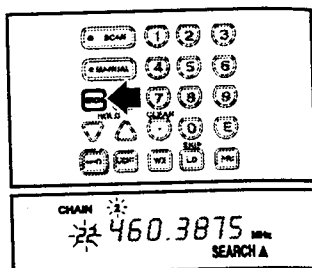


For example, select **CHAIN 2**.

Note: These frequencies were used during "Setting a Search Range," on page 23.

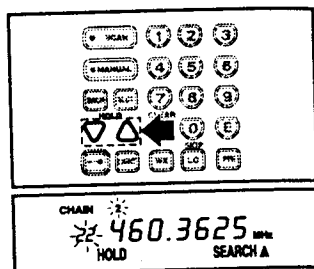


4. Press **SRCH**.



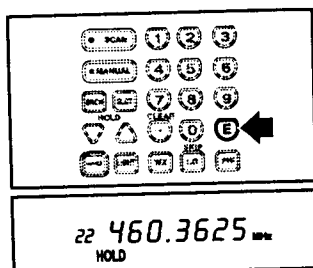
5. When the scanner stops at the frequency you want, press either **▲** or **▼**.

Note: After this step you are in Search Hold mode. Press **SRCH** to resume scanning.



6. Press **E** to store the frequency in the channel you selected.

Note: After this step you are in manual mode.



Repeat steps 2 through 6 for all the Search frequencies you want to store.

Note: Remember that there are only 30 channels available to store frequencies, whether you program them directly or while using the Chain Search mode.

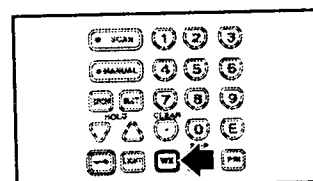
Weather Scan

Your **BC60XLT-1** is designed to scan 8 programmed NOAA frequencies, so you easily find your local NOAA weather broadcast.

Note: It is not advisable to program a weather frequency into one of the 30 channels since weather channels transmit continuously. The scanner will remain on the weather channel, disrupting the scanning cycle.

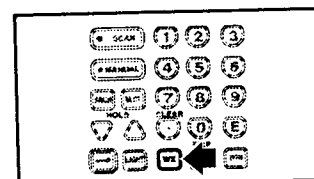
1. Press **WX** to activate the Weather scan.

Note: Be sure **SQUELCH** is set properly.



2. When the Weather Scan finds an active weather channel, it stops.

3. Press **WX** again to find the next active weather channel.



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 or a better antenna improves reception.

4. To exit Weather Scan, press **MANUAL**, **SCAN**, or **SRCH**.

Care and Maintenance

General Use

- Turn the scanner off before disconnecting the power or replacing the batteries.
- Always write down the programmed frequencies in the event of memory loss.
- If memory is lost, simply reprogram each channel. The display shows 000.0000 in all channels when there has been a memory loss.
- Always press each button firmly until you hear the entry tone for that key entry.

Location

- 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.
- If the scanner receives strong interference or electrical noise, move it 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 plug the scanner into an outlet controlled by a wall switch because long power interruptions may cause 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 LCD 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 can receive "birdies" (undesired signals). 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  to lockout the channel, and then press  to resume scanning.

Troubleshooting

If your **BC60XLT-1** is not performing properly, try the following steps.

Problem	Suggestion
Scanner won't work.	1. Check the connections at both ends of the AC Adapter. 2. Turn on the wall switch of your room. You could be using an outlet controlled by the wall switch. 3. Move the AC Adapter to another wall outlet or replace the batteries.
Improper reception.	1. Check the antenna connection or move and reposition the antenna. 2. Move the scanner. 3. You may be in a remote area which could require an optional multi-band antenna. Check with your dealer or local electronics store.
Scan won't stop.	1. Adjust squelch threshold - refer to page 10, <i>Setting the Squelch</i>. 2. Check the antenna connection. 3. Check to see if many of the channels are locked out. If so, the scanner has less chance of finding an active channel. 4. Review each channel's frequency to see if it is still stored in memory and is correct. 5. It's possible that none of the programmed frequencies are currently active.
Scan won't start.	1. Press the SCAN key again. 2. Adjust the SQUELCH control. 3. Check to see if all channels are locked out.
Weather Scan won't work.	1. Adjust squelch threshold - refer to page 10, <i>Setting the Squelch</i>. 2. Check the antenna.

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, or call 1-800-297-1023.

Specifications

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

Channels:	30 (1 Bank)
WX:	7 NOAA Weather Service Channels
Search Bands:	10 Preprogrammed Bands
Frequency Range:	29.0-29.7 MHz 10 Meter Amateur Band 29.7-50 MHz VHF Low Band 50-54 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 70 cm Amateur Band 450-470 MHz UHF Standard Band 470-512 MHz UHF "T" Band <i>Above bands in 12.5 kHz steps</i>
Operating Temperature:	-20°C to +60°C
Scan Rate:	10 Channels per second
Search Rate:	10 Steps per second
Scan Delay:	2 seconds
Audio Output:	18 mW nominal into 8Ω internal speaker 3 mW nominal into 32Ω stereo headphone 8 mW nominal into 64Ω supplied earphone
Power Requirements:	12VDC using AD70U Adapter or 4AA Alkaline or rechargeable Nickel-Cadmium Batteries
Antenna:	Rubber antenna (included)
External Jacks:	External earphone, DC 12V power jack
Size:	2½ in. (W) x 1½ in. (D) x 7 in. (H)
Weight:	12 oz.

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