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Introduction

The BC**9000**XLT is a sophisticated information radio with automatic scanning capabilities. You can use it at home as a base unit, or install in your vehicle as a mobile unit.

The BC**9000**XLT can store frequencies such as, police, fire/emergency, marine, air, weather, and other broadcasts into 20 banks of 25 channels each. The new Rotary Tuner feature enables rapid and easy selection of channels and frequencies. And with AUTO STORE, you can automatically program any channel.

With the BC**9000**XLT, you can scan all 500 channels with Turbo Scan. In the Search Mode, you can choose super fast Turbo Search. In addition, the BC**9000**XLT has AUTO SORT – an automatic frequency sorting feature for faster scanning within each bank.

Types of Communication

You will be able to monitor communication such as:

- Police and fire department (including paramedics)
- NOAA weather broadcasts
- 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
- Air band
- Public Service 800 MHz band

And many more in the 25-1300 MHz range. (**Note:** Cellular telephone frequencies cannot be received.)

Where to Obtain More Information

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

Included with the BC9000XLT



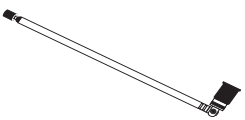
Operating Guide
(OMBC9000XLT)



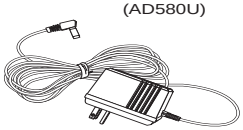
Betty Bearcat
Starter
Frequency
Guide



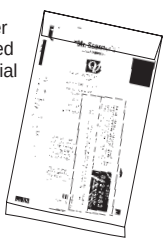
Telescoping Antenna
(AT124)



AC Adapter
(AD580U)



Other
Printed
Material

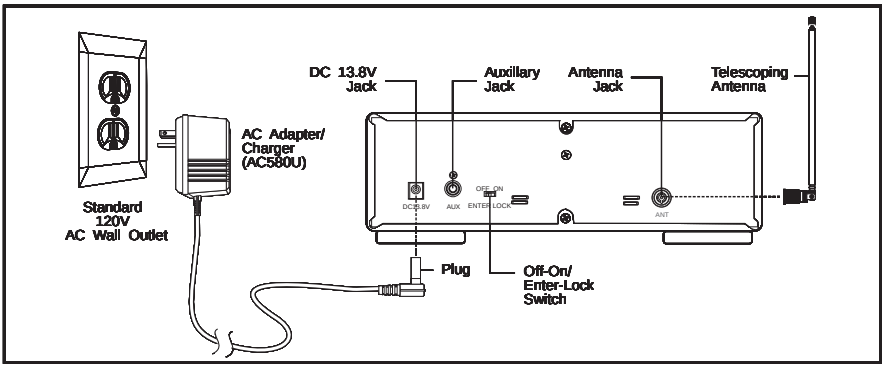


- Read this Operating Guide thoroughly before you use the scanner.
- Immediately fill out and mail the supplied Registration Form.
- If any of the above items are missing or damaged, contact the place of purchase immediately.

Feature Highlights

- ***Twin Turbo Scan/Search*** – This lightning-fast technology enables the BC**9000**XLT to scan up to 100 channels per second and search up to 300 steps per second (in 5kHz steps). Because the frequency coverage is so large (see ÉSpecifications,Ê page 53, for band listing), a very fast scanning system is essential. That is why we combined our latest technology ä Turbo Scan and Search ä into the BC**9000**XLT.
- ***RotaryTuner Control*** – Turn the large Rotary Tuner to select the desired frequency or channel.
- ***500 Channels*** – You can program each of these memory channels to store one frequency.
- ***20 Banks*** – Each bank contains 25 channels, useful for storing similar frequencies in order to maintain faster scanning cycles.
- ***25 - 1300 MHz*** – Indicates the range of frequencies that can be searched within the bands of your scanner. (**Note:** The frequency coverage is not totally continuous between 800-900 MHz.)
- ***10 Priority Channels*** – You can assign one Priority channel for each of the 10 banks, A-J. This allows you to keep track of activity on your most important channel(s) while monitoring other channels for transmissions.
- ***Auto Store*** – Automatically stores all active frequencies within the specified bank(s).
- ***Auto Sorting*** – Programmed frequencies are automatically sorted within each bank for faster scanning.
- ***Auto Recording*** – This feature lets you record channel activity from the scanner onto a tape recorder.
- **Scan/Search Delay**—In the Scan or Search Mode, causes the scanner to remain on a frequency two seconds after the last transmission to wait for a possible reply.
- **Direct Channel Access**—Allows you to manually select a specific channel without scanning.
- **Direct Frequency Programming**—Allows you to program a specific frequency into a channel without searching.
- **Frequency Transfer**—Lets you transfer a frequency into an empty channel, or replace the frequency in the current channel.
- **Programmable Alpha Characters**—You can program channels 1 - 250 with 16 alpha characters for easy reference.

- **Variable Frequency Steps (Increments)**—In the search or Manual Mode, lets you change the steps between frequencies.
- **Channel/Frequency Lockout**—Lets you temporarily remove channels or frequencies from the scanning or search cycle.
- **Signal Attenuation**—Reduces the scanner's sensitivity for unusually strong signals often found on the WFM (wide frequency modulation) bands.
- **Data Skip**—Lets you set the scanner to automatically continue searching or scanning when it encounters an unmodulated or data signal.
- **Enter Lock**—Temporarily disables programming keys to prevent accidental programming.
- **External Speaker Jack**—Allow you to connect an external speaker or earphone for custom listening. See "Included with your Scanner" on page 3, and "Optional Accessories & Replacement Parts" on page 52.
- **Line, and AUX Jacks**—Allow you to connect a tape recorder.
- **Display Light**—Lets you view the display more easily in dark or low-light conditions.



Base Installation

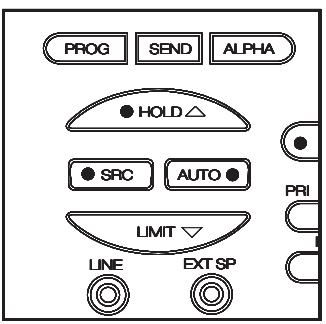
1. Insert the DC plug end of the AC Adapter into the DC 13.8V jack on the rear panel.
2. Plug the AC Adapter into a standard 120V AC wall outlet.
3. Plug the Telescoping Antenna into the "ANT" connector. Extend the antenna to its full height. For frequencies higher than 406 MHz, shortening the antenna may improve the reception.
4. If you need a better viewing angle, flip the folding legs down to raise the front of the scanner.

For use with an optional external speaker:

Plug the external speaker into the "EXT SP" jack located on the front of the scanner.

For use with an optional tape recorder:

Be sure to use a tape recorder with microphone and remote input jacks.



1. Connect a cable from the "LINE" jack on the front of the scanner to the microphone input of a tape recorder.
2. Connect a cable from the RCA-type "AUX" jack on the back of the scanner to the recorder's "REMOTE" jack.

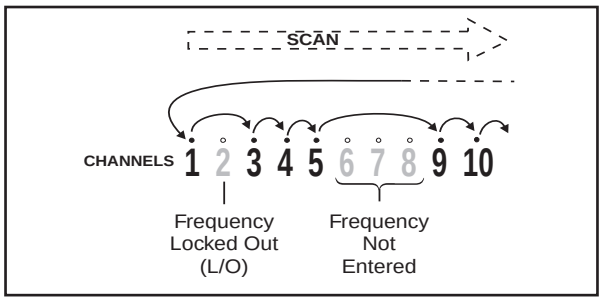
(See "Using Auto Record," page 41.)

For use with an optional CTCSS Tone Board:

See "CTCSS Operation, " page 45.

What is Scanning?

Unlike standard AM or FM radio stations, most two-way communications (listed below) do not transmit continuously. The BC**9000**XLT scans programmed channels at the rate of up to 100 channels per second 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, and no response is detected, the scanning cycle resumes until another transmission is received.



An optional DELAY can be set so that the scanner stays on the channel for 2 more seconds, waiting for another transmission before resuming scanning.

Searching

Scanning and searching are similar in that they both involve finding active frequencies within a group of frequencies. The difference is Scanning looks only at a group of programmed frequencies that are stored in the scanner's channels and grouped into banks.

Searching looks at all the frequencies within a pre-selected range of frequencies.

If you find an interesting frequency while searching, you can store it in a channel for easier access later. See "Programming with Search" on page 14. The main purpose of the Search function is to help you find active frequencies to program into memory.

Banks and Channels

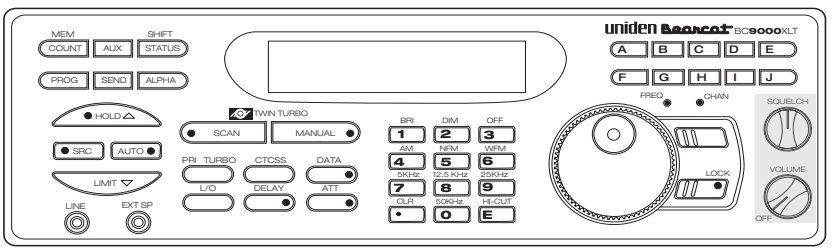
BC**9000**XLT*Banks* and *channels* are the way stored frequencies are organized in your scanner.

A *channel* is a memory location where you store a frequency. The channels in the BC**9000**XLT are numbered 1 - 500. A *bank* is a group of channels. The BC**9000**XLT has 20 banks with 25 channels in each. The banks are useful for storing similar frequencies in order to maintain faster scanning cycles.

You can turn each bank on or off to control whether its channels are included during scanning. When you turn off a bank, its channels are not erased, but are only temporarily excluded from scanning. You can also temporarily *lock out* individual channels within a bank during scanning.

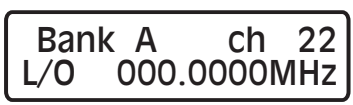
Setting the Squelch

Use these controls:

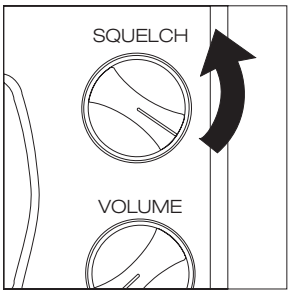


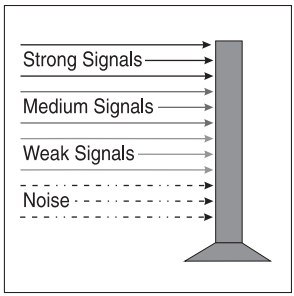
ON/OFF/VOLUME and SQUELCH Controls

1. Press MANUAL until you do not hear a signal.
   Adjust **VOLUME** to a comfortable listening level.

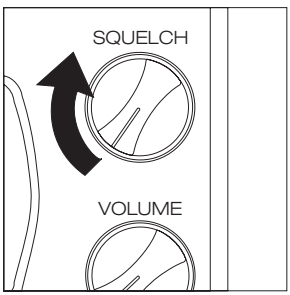


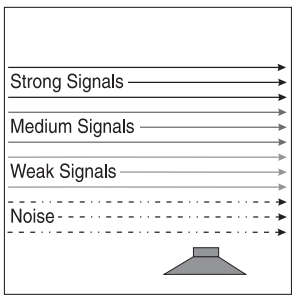
2. Think of the Squelch Control as a gate. Turn **SQUELCH** fully counterclockwise. This raises the “Squelch Gate” so high that no signals can get through.



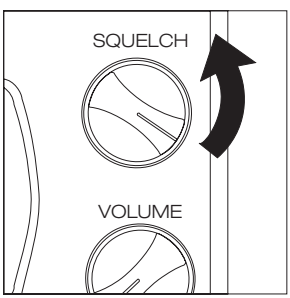


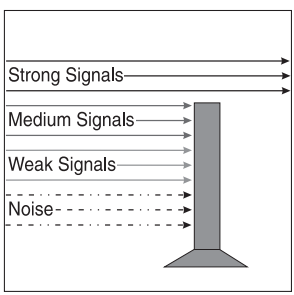
3. Turn **SQUELCH** fully clockwise until you hear a hiss. This lowers the “Squelch Gate” so that everything gets through ... noise, weak signals, and strong signals.



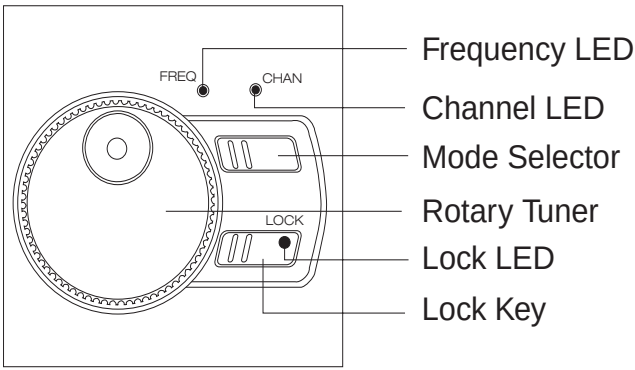


4. Turn **SQUELCH** back counter clockwise just until the hiss stops. Now the “Squelch Gate” allows only strong signals through.





Using the Rotary Tuner



Rotary Tuner and Controls

This unique feature allows easy, rapid, and precise selection of frequencies and channels in the BC**9000**XLT.

Frequency/Channel Mode Selector - Press to switch between channel or frequency mode. When the CHAN LED is on, you can step rapidly through channels with the Rotary Tuner. When the FREQ LED is on, you can tune quickly and accurately through frequencies with the Rotary Tuner.

Rotary Tuner - Use the Rotary Tuner to step through channels or frequencies, depending on the setting of the Frequency/Channel Mode Selector. Turn the knob clockwise to step up, counter clockwise to step down.

Lock Key/LED - The LED lights when the Rotary Tuner is locked. Press **LOCK** to enable the Rotary Tuner.

Programming Channels

Before you can scan, you must program the channels within a bank. You can store one frequency per channel, up to 500 channels. These are the banks and their associated channels:

Bank	Channel Number	Bank	Channel Number
A	1 - 25	1	251 - 275
B	26 -50	2	276 - 300
C	51 - 75	3	301 - 325
D	76 - 100	4	326 - 350
E	101 - 125	5	351 - 375
F	126 - 150	6	376 - 400
G	151 - 175	7	401 - 425
H	176 - 200	8	426 - 450
I	201 - 225	9	451 - 475
J	226 - 250	0	476 - 500

Auto Sort

Each time you store a frequency, the list of scanning frequencies in the bank is automatically sorted by frequency number. This unique Auto Sort feature enables faster scanning. When you manually step through a bank, however, frequencies are sorted according to channel number.

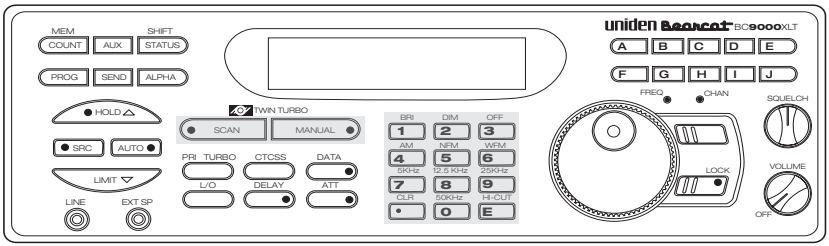
Choosing a Programming Method

With the BC**9000**XLT, there are five ways to program a channel:

- Manually selecting a channel and frequency, using the numeric keypad
- Using the Rotary Tuner to select a channel and frequency
- Searching a band to find active frequencies, and then storing them into channels
- Using the Auto Store feature to automatically program channels
- Transfer a programmed frequency from another channel

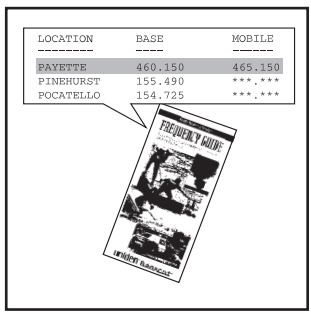
Programming By Manual Entry

Use these keys :



Scan and Numeric Keys

1. Select a frequency.
   Example: Program 482.7625 MHz into Channel 1.



2. Press [MANUAL] to enter the Manual Mode.

```
Bank A    ch 22
L/O  000.0000MHz
```

3. Enter the channel number, then press [MANUAL].

```
Bank A P ch  1
L/O  000.0000MHz
```

4. Enter the frequency. Then press [E].
   Example: 482.7625
   If you make a mistake, press [CLR] twice to erase.

```
Bank A P ch  1
L/O  482.7625MHz
```

If an error is made during programming, or if the frequency is out of range, this screen appears. Enter a valid channel or frequency number.



If the frequency is stored in another channel, the display will indicate the original channel for that frequency.

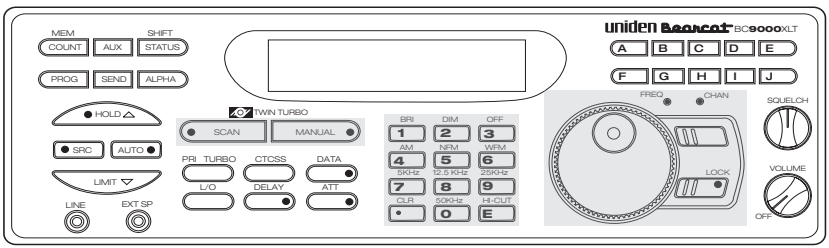


To program more channels, repeat steps 3 and 4.

Press [E] to store the same frequency into the selected channel.
Or, select another channel.
Or, press [CLR] twice to clear.

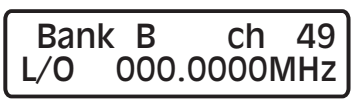
Programming With the Rotary Tuner

Use these controls:



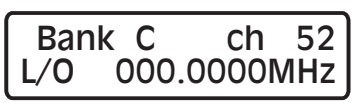
Scan, Numeric Keys, and Rotary Tuning Controls

1. Press [MANUAL] to enter the Manual Mode.
   OR
   Press LOCK, then turn the Rotary Tuner.



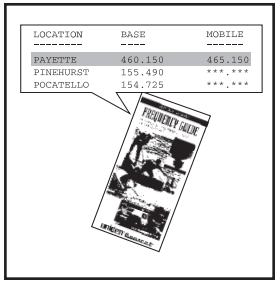
Note: Make sure the **LOCK** LED is out.

2. Press **CHAN**, then turn the knob.
   Example: Channel 52
   Turn right to step up through channels, left to step down through channels.



Note: The channel selection flashes on the display, indicating that the frequency displayed is not programmed in that channel.

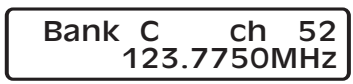
3. Select a frequency.
   Example: 123.7750



4. To tune in the frequency, select **FREQ** with the Rotary Tuner Mode Selector then turn right to step up, left to step down.



5. Press [E] to program the channel.

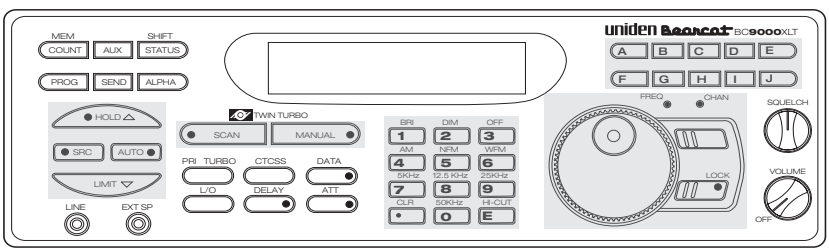


To program more channels with the Rotary Tuner, repeat steps 2 - 5.

Programming with Search

The Search feature lets you search for active frequencies in a range you choose and store any or all of those frequencies into channels.

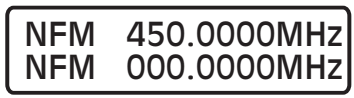
For more information about searching, see “The Search Mode," page 29.
Use these keys:



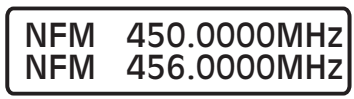
Search, Scan, Numeric, and Bank Keys,
and Rotary Tuning Controls

Note: Be sure to set SQUELCH before you begin a search. See “Setting the Squelch," page 8.

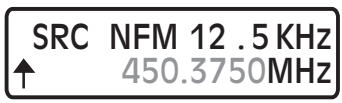
1. Select a frequency range.
   See page 53, or see the included Betty Bearcat Starter Frequency Guide. **Example: 450.000MHz to 456.000 MHz**
2. Press MANUAL.
3. Enter the frequency and press LIMIT to enter the lower limit of the search range.
   Example: 450.000 MHz



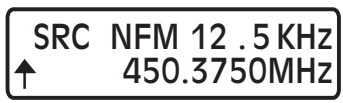
4. Enter the frequency and press LIMIT to enter the upper limit of the search range.
   Example: 456.000 MHz



5. Press SRC to begin the search function.
   To exit search, press MANUAL.

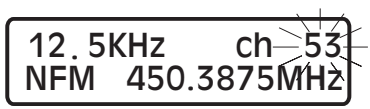


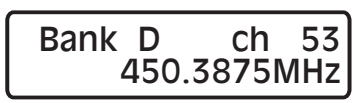
   The scanner stops on the first active frequency it finds.



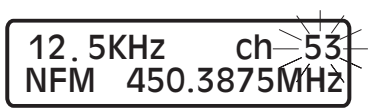
- To program the frequency, press HOLD to stop searching. Then, proceed to step 6a, 6b, or 6c.
- If you do not want to program the frequency, press SRC to continue searching.

6a. Program the frequency into the current channel.
   Press E.





6b. Program the frequency into another channel:
   1. Press HOLD to stop the search.



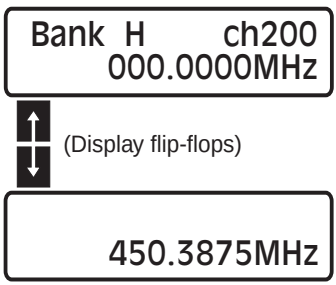
2. Press SEND to enter the Transfer Mode.



3. Enter the channel number.
Example: Channel 200.



4. Press HOLD.

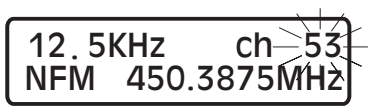


5. Press E to Program the frequency.



6c. Program the frequency into the first open channel of another bank.

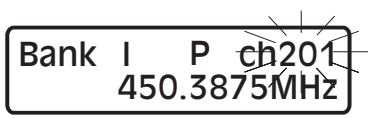
1. Press HOLD to stop the search.



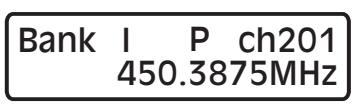
2. Press SEND to enter the Transfer Mode.



3. Choose a bank.
Example: Press D .



4. Press E .

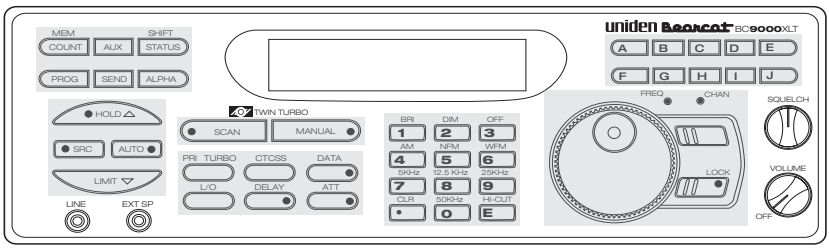


Programming With AUTO STORE

This procedure searches a frequency range and automatically stores active frequencies into empty channels of the selected bank(s).

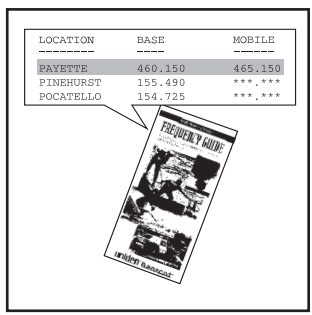
Note: Be sure to set **SQUELCH** before you begin a search. See "Setting the Squelch" on page 8.

Use these keys:



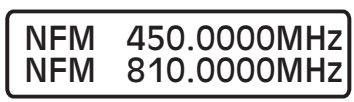
Programming, Search, Scan, Mode, Numeric, and Bank Keys and Rotary Tuning Controls

1. Select a frequency range. See page 53, or see the Betty Bearcat Starter Frequency Guide.
   Example: 810.000 MHz to 856.000 MHz

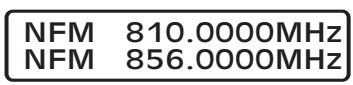


2. Press MANUAL.

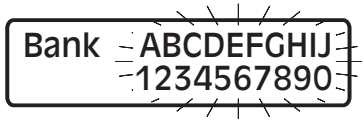
3. Enter the frequency and press LIMIT to enter the lower limit of the search range.
   Example: 810.000 MHz



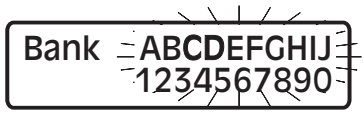
4. Enter the frequency and press LIMIT to enter the upper limit of the search range.
   Example: 856.000 MHz



5. Press AUTO to enter the Auto Store Mode.



6. Select the bank(s) for programming. The selected bank indicator(s) stop blinking. ***Example:*** Press C and D .



7. Press AUTO to begin the Auto Store.

   The LED on the AUTO key flashes.

Note: You hear no audio during Auto Store.

Note: If the bank you chose is already fully programmed, a double beep sounds. Choose another bank.

Searching frequencies



Storing an active frequency.



Search resumes.



To stop Auto Store, press MANUAL, SCAN, or PROG.

You can change these functions during Auto Store:
Frequency Step (See page 35.)
Turbo Search (See page 31.)
Signal Mode (See page 36.)

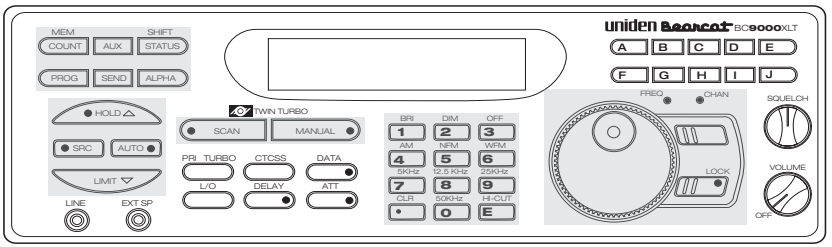
8. The unit tells you when Auto Store is complete.



Deleting a Programmed Frequency

Use this procedure when you want to delete a frequency from a channel without storing a new frequency in its place.

Use these keys:



Programming, Search, Scan, and Numeric Keys, and Rotary Tuning Controls

1. Enter the channel number.

```
Bank D     ch  86
     854.8625MHz
```

2. Press [O] .
3. Press [E] .

```
Bank D     ch  86
L/O  000.0000MHz
```

Transferring a Programmed Frequency

This procedure lets you transfer a programmed frequency to another channel.

1. Press [MANUAL] .

```
Bank D     ch  53
     450.3875MHz
```

2. Enter the channel number and press [MANUAL], or select **CHAN** with the Rotary Tuner Mode Selector and locate the channel.

```
Bank D     ch  83
     855.9125MHz
```

3a. To select the transfer channel, press SEND ...

```
Enter Bank or ch
      855.9125MHz
```

3b. Then enter the channel number...

```
                 8
      855.9125MHz
```

3c. Then press HOLD.

```
Bank A       ch  8
      000.0000MHz
```

(Display flip-flops)

```
Bank D       ch 83
      855.9125MHz
```

4. Press E to transfer the frequency.

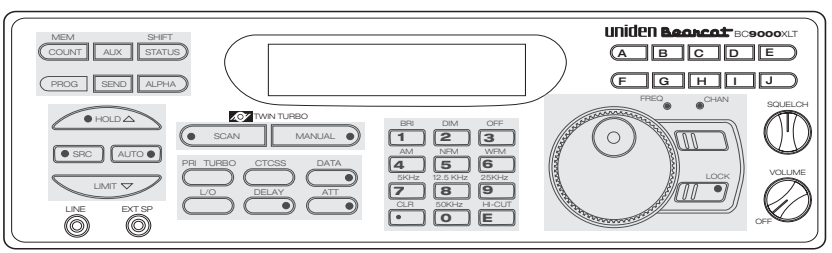
```
Bank A       ch  8
      855.9125MHz
```

Programming Channels with Alpha Characters

Use this feature to name programmed channels (from 1 - 250) for easy reference.

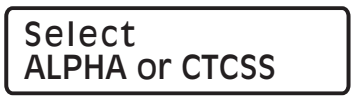
Example: Channel 1, Local Police.

Use these keys:

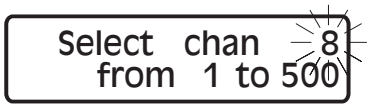


Programming, Search, Scan, Mode, and Numeric Keys, and Rotary Tuning Controls

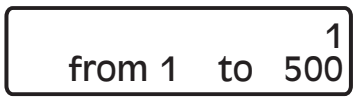
1. Press PROG ...



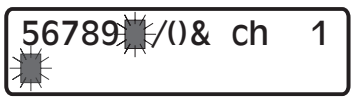
Then press ALPHA.



2. Enter the channel number...
   Note: *You must select a programmed channel.*
   Example: Channel 1



   Then press HOLD. The Alpha Edit Screen appears.



3. Turn the Rotary Tuner left/right to choose a letter from the upper line of characters.
   Example: "L"



Press HOLD for uppercase characters, LIMIT for lowercase letters.



Repeat to choose more characters. You can enter up to 16 characters.

Note: Press AUTO to move the edit cursor on the lower line to the right.
Press SRC to move the edit cursor to the left.

4. Press E to program the Alpha entry into the channel.



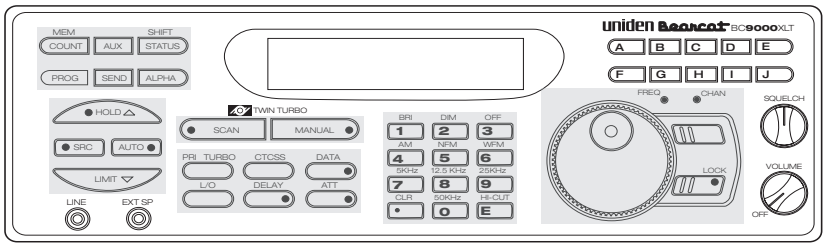
You can program channels 1 through 250 with alpha characters. If you try to program channels above number 250, the scanner returns to the "SELECT CHAN" screen.

Press SCAN, MANUAL, or PROG to exit the Program Alpha mode.

To display the alpha characters, press ALPHA while in the Scanning or Manual Mode.

To Delete Alpha Characters

Use these keys:



Program, Search, Scan, Mode, and Numeric Keys, and Rotary Tuning Controls

1. Press MANUAL.
2. Press PROG ....

   Then press ALPHA.

```
Select
ALPHA or CTCSS
```

```
Select chan   8
from  1 to 500
```

3. Enter the channel number with the alpha characters you want to delete, then press HOLD.

```
                1
from 1   to  500
```

4. Turn the Rotary Tuner and select the space between the "**9**" and the "**/** " characters.

```
56789 /()& ch  1
ocal  Police
```

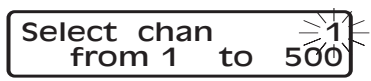
5. Press HOLD to erase the first letter.

```
56789/()& ch  1
cal  Police
```

6. Press HOLD repeatedly to erase all the letters.

7. Press [E] to store the changes.

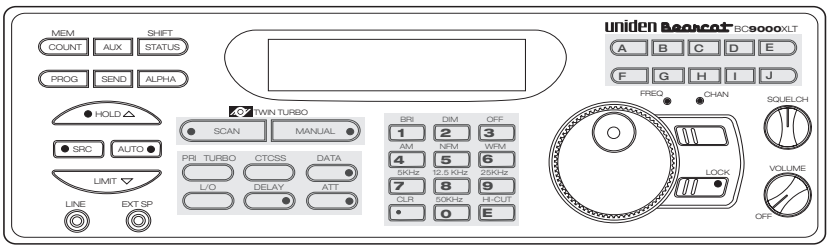




8 Press (SCAN), (MANUAL), or (PROG) to exit the Program Alpha Mode.

Scanning All Programmed Channels and Banks

Use these keys:

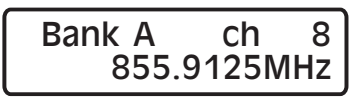


Scan, Mode, Numeric, and Bank Keys

1. Turn on the scanner
   OR
   Press SCAN to begin scanning.



2. When the scanner stops on a channel you can:



2a. Press MANUAL to stay on the channel.

2b. Press DELAY to turn on Delay.

2c. Or press SCAN to resume scanning.



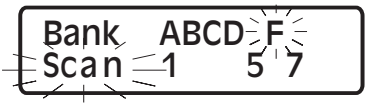
Turning Banks ON or OFF

After you have programmed channels in several of the scanner's banks you can customize which channels you scan by turning the banks on or off.

1. Press SCAN.



2. To turn a Bank OFF, press the letter or number.
   Example: E, G, H, J, 2, 3, 4, 6, 8, 9, 0.



3. To turn a Bank ON, press the number or letter again.
   Example: E, I, O.



Locking Out Channels

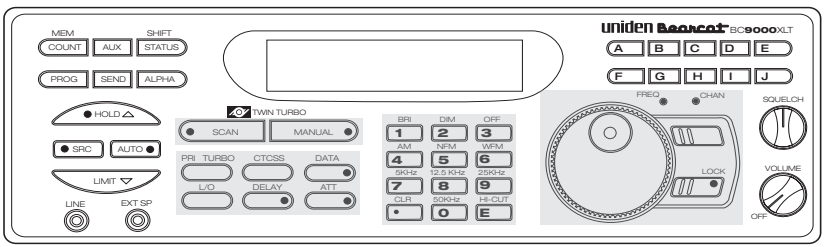
The lock-out feature lets you further customize the channels that you want to scan at a particular time.

For example, if a stored frequency broadcasts almost all the time, the scanner will stop on it and stay. You can lock out that channel when you are more interested in the other channels for the current scanning session.

When you lock out a channel, it is temporarily excluded from scanning, but it remains programmed so that you can easily unlock it for scanning later.

You can select a locked out channel using the Manual Mode. See page 12.

Use these keys:



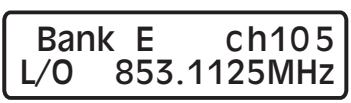
Scan, Mode, and Numeric Keys,
and Rotary Tuning Controls.

Locking Out a Channel

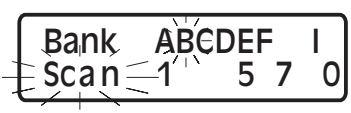
1. Press SCAN.



2. Scanner stops on an undesired channel.

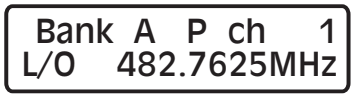


3. Press L/O to lock out the channel.
   Scan resumes immediately.

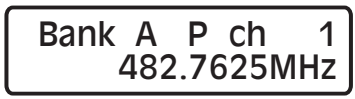


Unlocking a Channel

1. Press MANUAL.
2. Enter the channel or press the Channel Mode Selector and use the Rotary Tuner to find the channel you want to unlock.



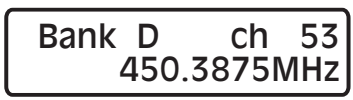
3. Press L/O.



4. Press SCAN to resume scanning.

Unlocking All Channels

1. Press MANUAL.



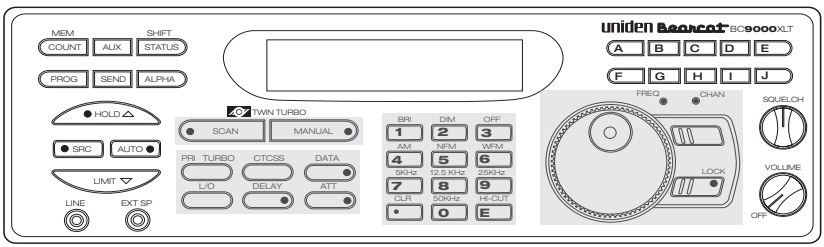
2. Press and hold L/O.

You hear a double beep when all channels are unlocked.

Using Priority Scan

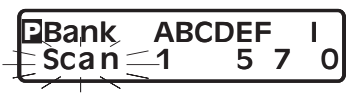
You can program one Priority Channel in each of the first 10 banks. During Priority Scanning, your scanner checks these special channels every two seconds, whether or not the scanner has located an active channel.

Use these keys:



Scan, Mode, and Numeric Keys,
and Rotary Tuning Controls.

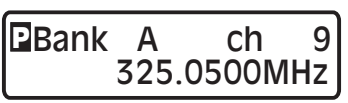
Press PRI .
You can turn Priority Scan ON in Scan Mode or Manual Mode.

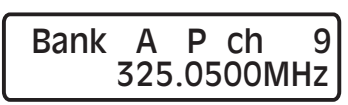


Moving the Priority Channel

The scanner is pre-programmed with the first channel of each bank as a priority channel. However, you can change the priority channel to be any other channel within the bank.

1. Press MANUAL .
2. Select the new priority channel.
   Example: Press 9 .
   OR
   Use the Rotary Tuner.
3. Press and hold PRI for two seconds. You hear a double beep.



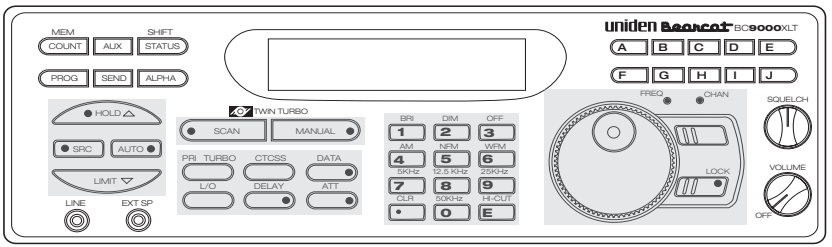


The Search Mode

In the Search Mode, the scanner looks for any active frequencies within a range of frequencies you select. It is best to select a narrow range, so that you have a better chance of finding all the active channels.

Use Search if you don't have a frequency directory handy, or if new stations have been added since the directory was published.

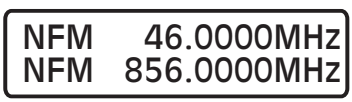
Use these keys:



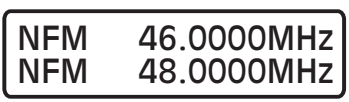
Search, Scan, Mode, Numeric and Special Function Keys, and Rotary Tuning Controls

Beginning a Search

1. Select a frequency range (See page 53, or see the Betty Bearcat Starter Frequency Guide.)**Example: 46.000 MHz to 48.000 MHz**
2. Press MANUAL.
3. To enter the lower limit of the search range, enter the frequency and press LIMIT.



4. To enter the upper limit of the search range, enter the frequency and press LIMIT.



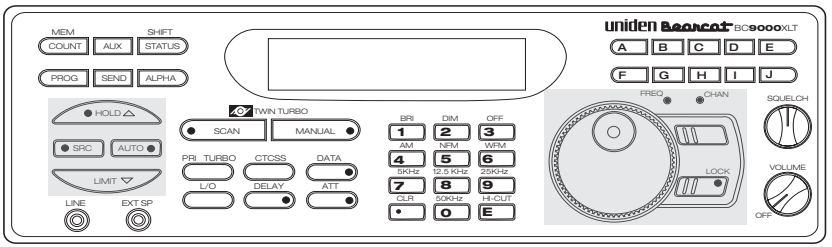
5. Press SRC to begin the search.



Scrolling Frequencies During a Search

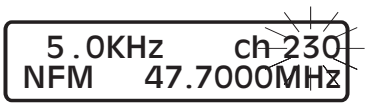
Scrolling temporarily suspends a search and allows you to manually move up or down through the frequencies.

Use these keys:

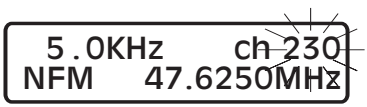


Search Keys, and Rotary Tuning Controls

To begin scrolling, press ▲ to step up ...



Or press ▼ to step down.



Press and hold ▲ or ▼ to scroll rapidly.

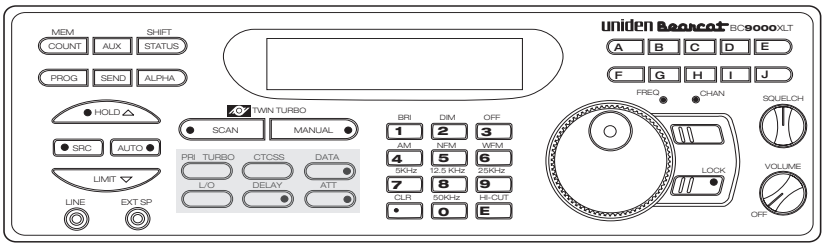
OR

Press the **FREQ** mode selector and use the Rotary Tuner.
Turn the knob right to step up, left to step down.

Using Turbo Search

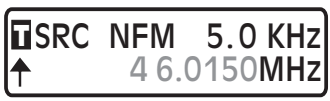
Turbo Search increases the search speed from 100 frequencies per second to 300 frequencies per second in ranges where the frequencies are spaced 5 kHz apart.

Use these keys:



Mode Keys

While searching, press TURBO.



Using Search Delay

On some two-way channels there might be short lapses in the signal before a reply. The Search Delay feature causes the scanner to wait two seconds after the end of a transmission before resuming searching, in case there is a reply.

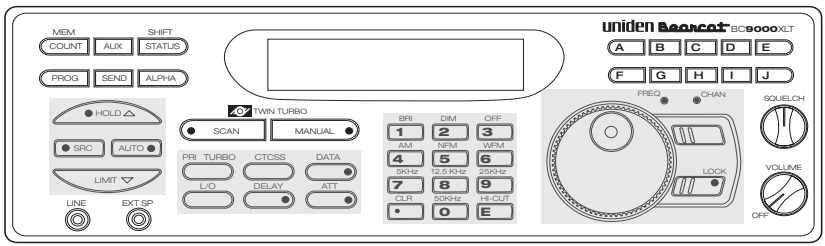
Unlike Scan Delay, you don't have to turn on Search Delay for each frequency in the search range. Search Delay works for the entire frequency range you chose.

Press DELAY to turn Search Delay ON.

Locking Out Frequencies

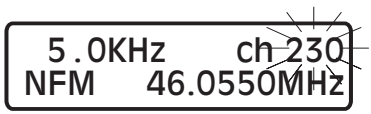
This feature is similar to locking out a programmed channel, except you can only lock out 50 frequencies.

Use these keys:



Search, Mode, and Numeric Keys, and Rotary Tuning Controls

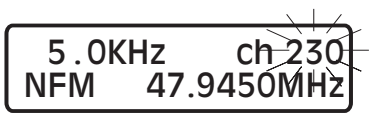
While searching press L/O when the scanner stops on an undesired frequency.



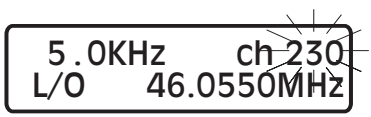
Search resumes immediately.

Unlocking a Frequency

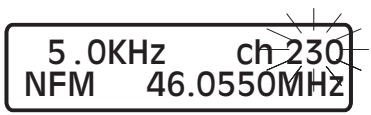
1. Press HOLD to stop the search.



2. Press ▲ or ▼ to find the frequency you want to unlock. Or choose **FREQ** with the Rotary Tuner Mode Selector and tune in the frequency.

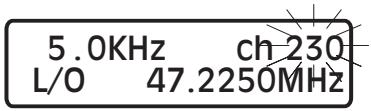


3. Press L/O.

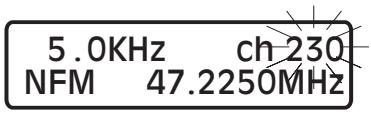


Unlocking All Frequencies

1. Press HOLD to stop the search.
2. Find any locked-out frequency.



3. Press and hold L/O for two seconds.



You hear a double beep when all frequencies are unlocked.

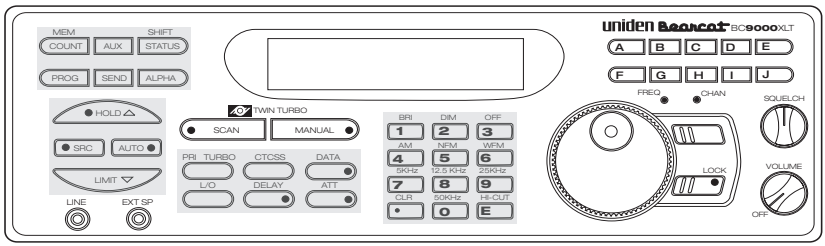
Birdies

Birdies are internally generated frequencies that cause the scanner to stop during search. If you have problems with these frequencies, use the lockout features to keep the scanner from stopping.

Birdie Frequencies in MHz	
32.000	428.5875
74.200	431.9875
128.000	443.9375
139.995	447.9875
140.000	471.9875
167.995	483.9250
171.250	511.9250
312.4375	794.5500
312.4625	811.9750
383.9875	967.9125
407.9875	967.9875
415.9375	1084.0625
423.5875	1084.1375
423.9875	

Additional Scanner Features

Use these keys:



Status, Search, Mode, Numeric and Special Function Keys

Scanning Weather Channels

The BC**9000**XLT is not preprogrammed with NOAA Weather frequencies. See the Betty Bearcat Frequency Guide for a list of weather frequencies in your area. Then, see page 11 of this Operating Guide to program the frequencies into the BC**9000**XLT.

Using Data Skip

Some frequencies carry un-modulated signals or data signals (such as pager preamble signals or telefax signals). You can set the scanner to continue scanning after a 3-second delay, when it encounter such signals.

Press (DATA) to turn Data Skip ON.

Note: *Data Skip* is not available for the AM band and is not active during Priority scan.

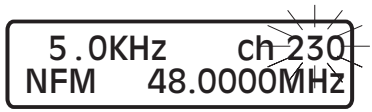
Note: You can turn *Data Skip* on or off at any time during scanning, searching and during Auto Store.

Changing the Frequency Step

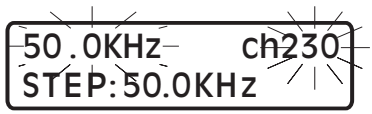
The frequency step is the minimum space between frequencies in the Manual or Search Mode.

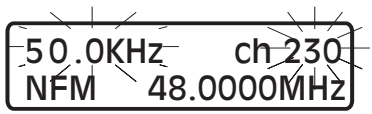
Your scanner is pre-programmed with a default frequency step for each of its frequency bands. You can override the default frequency step to search in larger or smaller increments when searching, during Auto Store, or when stepping through frequencies with HOLD, LIMIT, or the Rotary Tuner.

1. Press HOLD to stop the search.

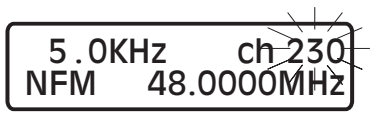


2. Press SHIFT.
3. Press the desired step on the numeric keypad.
   Example: Press 50KHz.





To return to the original frequency step, press CLR twice.



Setting the Signal Mode

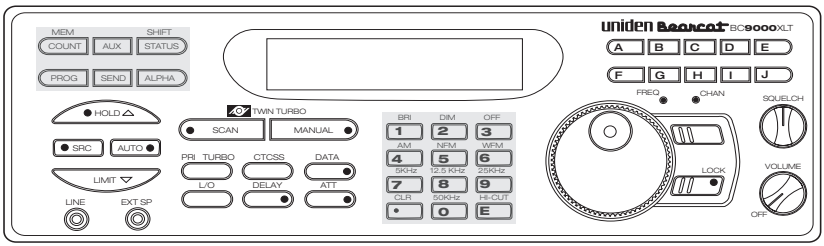
Your scanner is capable of receiving three signal modes:

AM Amplitude Modulation

NFM Narrow Frequency Modulation

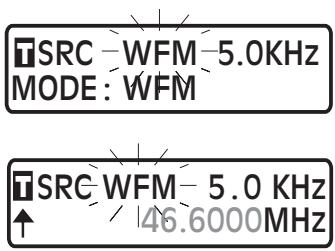
WFM Wide Frequency Modulation

Each of the scanner's frequency bands is pre-programmed with a default signal mode. If you want to override the default signal mode for a particular frequency, use these keys:



Status, Numeric and Special Function Keys

1. Press SHIFT .
2. Press the signal mode.
   Example: WFM .

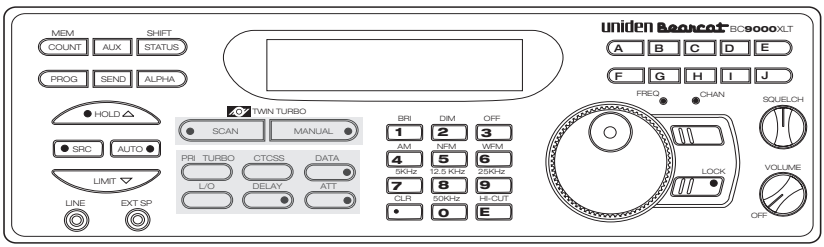


Using Signal Attenuation

When the **ATT** LED is on, the incoming signal strength is attenuated (reduced) by about 15 dB. This prevents unusually strong signals from over-loading the scanner.

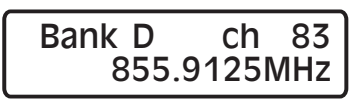
In the Scan Mode, you must individually program each channel you want to use the Signal Attenuation feature. You can use the Signal Attenuation feature in the Manual, Search, or Scan Mode.

Use these keys:



While Scanning:

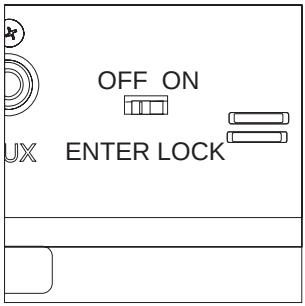
1. Press MANUAL .



2. Press ATT . The display does not change.
   While Searching, press ATT .

Preventing Accidental Programming

The BC**9000**XLT has a lock feature to prevent accidental programming entries. To disable the [E], [PROG], [SEND], and [AUTO] keys, move the rear panel switch to ON.



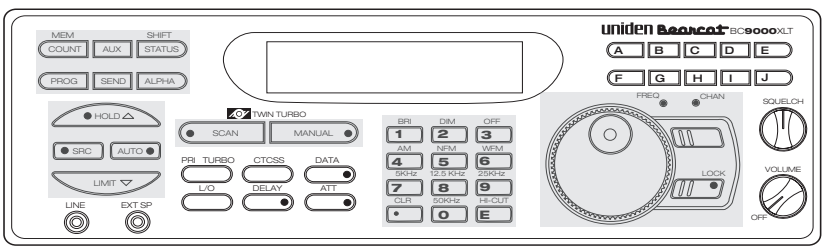
When you press [E], [PROG], [SEND], or [AUTO], a message appears.

```
Bank C ch 69
ENTER LOCKED
```

Using COUNT to Monitor Channel Activity

The Count feature counts the number of times scanning stops on an active channel. Use Count to determine the amount of activity on channels during a scanning session.

Use these keys:



Scan, and Mode Keys

1. Press [MANUAL].

```
Bank A P ch 1
482.7625MHz
```

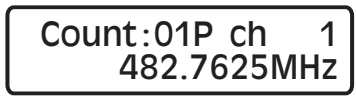
2. Press [COUNT].

```
Count:01P ch 1
482.7625MHz
```

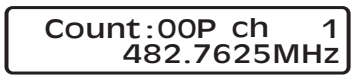
3. Press MANUAL, ▲, ▼, or use the Rotary Tuner to see the count for each channel.

Counter counts up to 99. To reset the counter for individual channels

1. Press MANUAL.
2. Enter the channel number or use ▲, ▼, or the Rotary Tuner to select the channel.



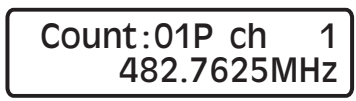
3. Press CLR twice.



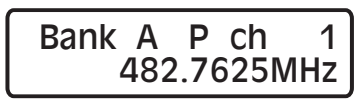
Note: Turning off power resets the counter for all channels.

To turn COUNTOff:

1. Press MANUAL.
2. Select a channel with the Count feature ON.



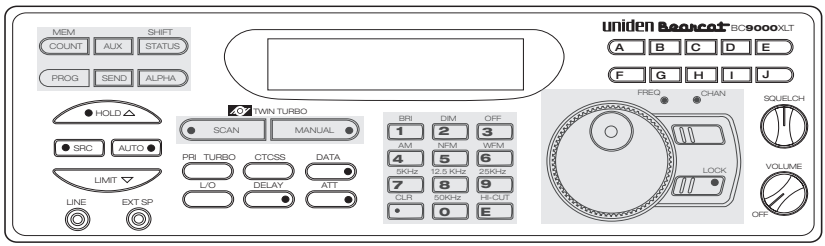
3. Press COUNT.



Displaying Bank Memory Status

This feature shows the programming status of the channels in a bank.

Use these keys:



1. Press MANUAL.
2. Enter the channel number or use the Rotary Tuner to select any channel in the bank.

```
Bank E      ch 110
      854.9800MHz
```

3. Press and hold COUNT for two seconds.

```
Bank  E P**_*__*L
L L*_____________
```

The display shows:

The bank (**A** through **J** or **0** through **9**)
An asterisk character (✻) to represent each programmed channel.
An underscore (_) character for an unprogrammed channel
A "**P**" to designate a Priority channel
An "**L**" to show a channel that is locked out.

To check bank memory status in other banks, turn the Rotary Tuner to move from one bank to the next.

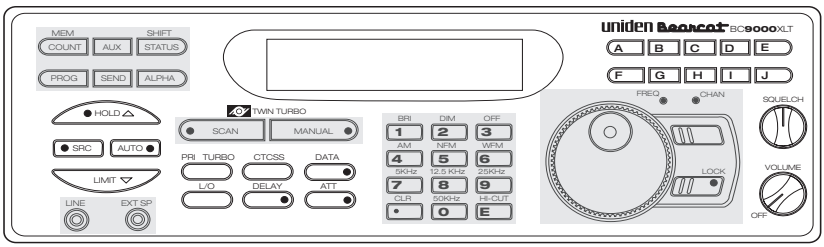
To exit from this mode, press MANUAL or SCAN.

Using Auto Recording

The Auto Recording feature allows you to automatically tape record activity from any channel of your scanner. When scanning stops on the assigned channel, the recorder records the broadcast.

Before using the Auto Tape feature, connect the scanner to a tape recorder. (See page 6.)

Use these keys:



Status, Scan, and Numeric Keys,
Rotary Tuning Controls, Line jack

1. Press SCAN.

```
Bank A  P ch   1
482.7625MHz
```

2. When the scanner stops on a channel you want to record, press MANUAL, then press AUX.

```
Record    ch   1
482.7625MHz
```

Note: You can also select the channel manually.

To select other channels for recording, repeat steps 1 and 2.

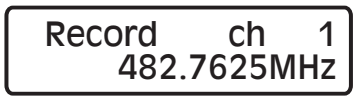
To record transmissions, you need a tape recorder with Remote and Microphone inputs.

1. Connect the REMOTE jack of your tape recorder to the AUX jack on the rear of the BC**9000**XLT. This can be used to start and stop your recorder.
2. Put a tape in your recorder, and put it in the Record mode.
3. Press SCAN.

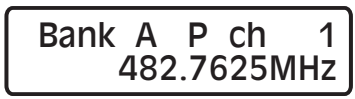
When scanning stops on a channel that displays "**Record**", the channel will automatically be recorded.

To deselect a channel so that it is not recorded:

1. Display the assigned channel on your screen.

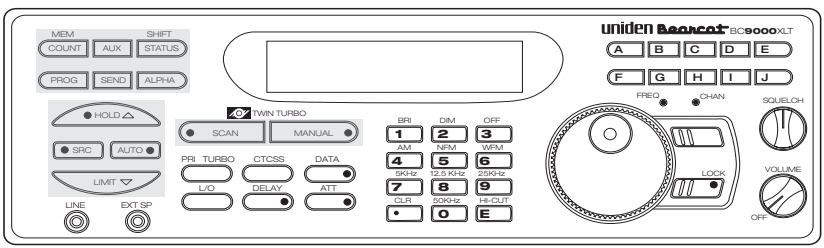


2. Press AUX .
"**Record**" disappears on the display to indicate that channel will not be recorded.



Viewing Scanner Status Information

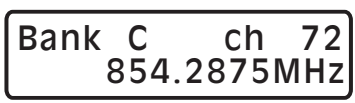
This feature lets you quickly review the settings for several features of the BC**9000**XLT. Use these keys:



Status, Search, and Scan Keys

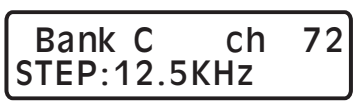
In Scan Mode:

1. Press MANUAL .



2. Press and hold STATUS for two seconds. You hear two beeps, then the status information scrolls across the display.





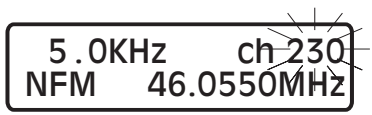








In Search Mode:
1.Press HOLD to stop the search.



2. Press and hold STATUS for two seconds.
   You hear two beeps, then the status information scrolls across the display.

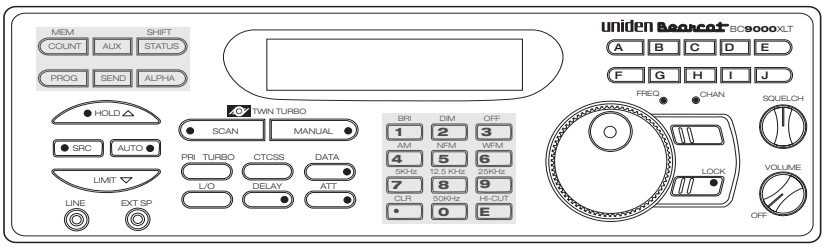








Use these keys for **Display Light** and **Hi-Cut**



Status and Special Function Keys

Display Light

The Display Light has three settings: BRIGHT, DIM, and OFF.

1. Press SHIFT.
2. Press the setting.
   Example: Press OFF.



Using Hi-Cut

To Turn HI-CUT ON or OFF:

1. Press SHIFT.
2. Press .



You can turn HI-CUT on or off while searching or scanning.

CTCSS Operation

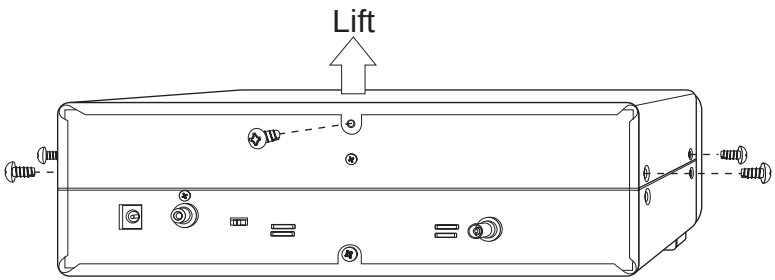
This section applies only if you are installing and using an optional CTCSS Tone Board with your scanner.

Installing the CTCSS Board

Installing the CTCSS Tone Board is a simple procedure, and requires only a few minutes following the steps below.

CAUTION: ***Be sure to turn the scanner off and disconnect the power cord before attempting to open the scanner.***

1. Remove the five screws from the top cover.

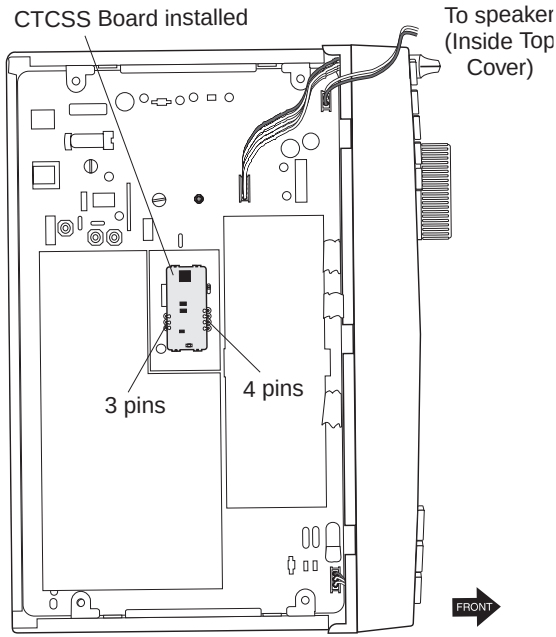


2. Carefully lift the cover up from the back of the unit and turn it to the left - being careful not break the speaker wire.
3. Stand the cover on its left side panel.

(Continued, next page)

4. Align the pins on the CTCSS Board with the sockets on the mother board. Make sure they go **straight** into the sockets.

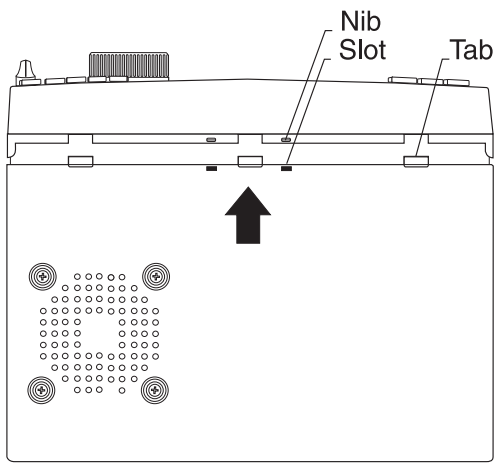
   The 4 pin socket is toward the front of the scanner.
   The 3 pin socket is toward the back of the scanner.



5. Gently push straight down on the CTCSS Board until the pins are fully seated in the sockets.

6. Carefully replace the cover and the five screws.

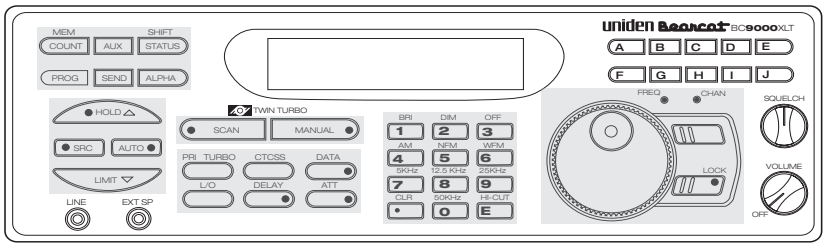
   Note: The tabs on the cover hook under the front part of the chassis.



Using CTCSS

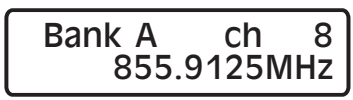
The CTCSS (**C**ontinuous **T**one **C**ontrol **S**quelch **S**ystem) feature allows squelch to be broken during scanning only when a CTCSS Tone is received.

To program a channel for CTCSS, use these keys:

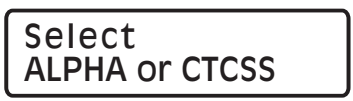


Program, Search, Scan, Mode, and Numeric Keys, and Rotary Tuning Controls

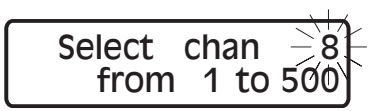
1. Press MANUAL .



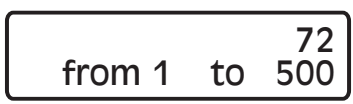
2. Press PROG .



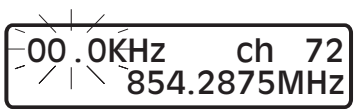
3. Press CTCSS .



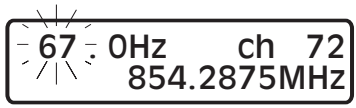
4. Enter the channel number.



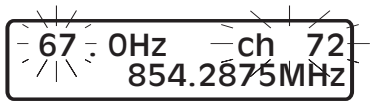
5. Press HOLD .



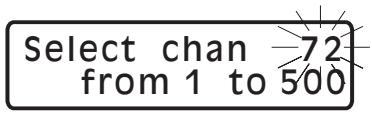
6. Use the Rotary Tuner to select a tone frequency. (See page 49 for a list of tone frequencies.)



7. Press [E] to program the frequency.

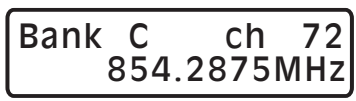


After programing the frequency, the scanner returns to step three. Continue programming CTCSS frequencies , or press [MANUAL] to exit.

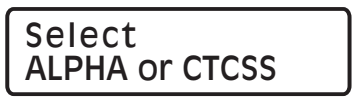


To Change the CTCSS Tone Frequency

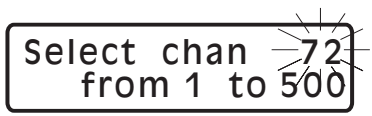
1. Press [MANUAL] .
2. Find the channel and CTCSS Tone Frequency you want to change.



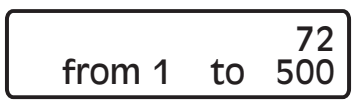
3. Press [PROG] .



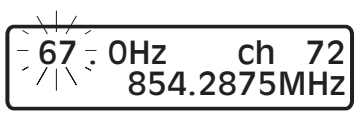
4. Press [CTCSS].



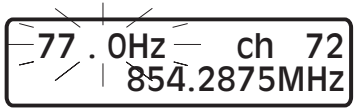
5. Enter the current channel number.



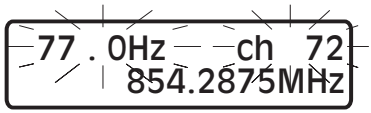
6. Press [HOLD] .



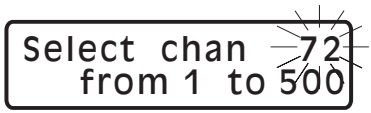
7. Use the Rotary Tuner to select a new frequency. (See below for a list of CTCSS tone frequencies.)



8. Press [E] .



After programming the frequency, the scanner returns to step four. Continue programming CTCSS frequencies, or press [MANUAL] to exit.



Note: To remove a CTCSS Tone Frequency, from a channel, program the frequency as "00.0."

CTCSS Tone Frequencies

000.0	→	67.0	71.9	74.4	77.0	79.7	82.5	85.4	88.5	91.5
94.8	97.4	100.0	103.5	107.2	110.9	114.8	118.8	123.0	127.3	131.8
136.5	141.3	146.2	151.4	156.7	162.2	167.9	173.8	179.9	186.2	192.8
203.5	210.7	218.1	225.7	233.6	241.8	250.3	∂	000.0		

Care and Maintenance

General Use

Write down the programmed channels/frequencies in case of a memory loss.

Firmly press each scanner key so that you hear the entry tone.

Location

If strong interference or electrical noise is received, move the scanner. Also, a higher antenna location usually results in better reception.

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

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

Do not plug the scanner's AC adapter into an outlet controlled by a wall switch. Prolonged periods without power can cause loss of memory.

Cleaning

Disconnect the AC adapter while you clean the scanner.

Clean only the outside of the scanner with a mild detergent.

To prevent scratches, do not use abrasive cleaners or solvents to clean the scanner.

Do not rub the display window.

Do not use excessive amounts of water.

Repairs

Do not attempt any repairs. The scanner contains no user-serviceable parts. Contact the Uniden Customer Service Center at 800-297-1023, or take the scanner to a qualified repair technician.

Troubleshooting

If your BC**9000**XLT is not performing properly, try the steps listed below.

PROBLEM	SUGGESTION
Scanner won't 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. Make sure the power switch is turned on.
Poor reception.	Check the antenna and its connection. You may be in a fringe area. This may require an optional multi-band antenna. Check with your dealer or local electronics store.
Scan won't stop.	Adjust the Squelch Control. Check the antenna connection. It is possible that none of the programmed channels are active at the time. Try the band search.
Scan won't start.	Press the bank key again. Make sure there are some programmed channels. Adjust the Squelch Control.
Search won't start.	Adjust the Squelch Control.
Scanner won't allow any program inputs	Check the Enter Lock feature.
Can't program channel with alpha character	Alpha character programming is available on channels 1 - 250. Make sure the channel is within that range.

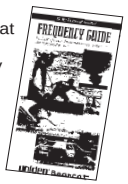
If you still cannot get satisfactory results and want additional information, or to return the unit for service, please call Uniden Customer Service at 800-297-1023.

Optional Accessories and Replacement Parts

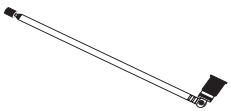
Operating Guide
(OMBC9000XLT)



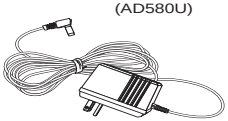
Betty Bearcat
Starter
Frequency
Guide



Telescoping Antenna
(AT124)



AC Adapter
(AD580U)



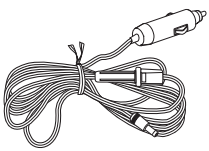
External Speaker
(ESP25, 8Ω)



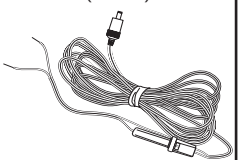
Mobile Mounting Bracket
Assembly Kit
(MB001)



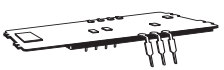
Cigarette Lighter
Power Cord Adapter
(PS001)



Hard Wire Cord
(PS002)



CTCSS Board
(BC005)



Specifications

Banks: Total 20 banks
Channels: 500 channels
Search Band: Total 17 Search bands (AM, NFM, WFM)

Frequency (MHz)			Mode	Steps
25.000	-	25.9950	AM	5.0kHz
26.000	-	28.9950	AM	5.0kHz
29.000	-	53.9950	NFM	5.0kHz
54.000	-	71.500	WFM	50kHz
72.000	-	75.9950	NFM	5.0kHz
76.000	-	107.9500	WFM	50kHz
108.000	-	136.9950	AM	12.5kHz
137.000	-	173.9950	NFM	5.0kHz
174.000	-	215.9500	WFM	50kHz
216.000	-	224.9950	NFM	5.0kHz
225.000	-	399.9875	AM	12.5kHz
400.000	-	511.9875	NFM	12.5kHz
512.000	-	549.9500	WFM	50kHz
760.000	-	805.9500	WFM	50kHz
806.0000	-	823.9875	NFM	12.5kHz
849.0125	-	868.9875	NFM	12.5kHz
894.0125	-	1300.0000	NFM	12.5kHz

Scan Rate: Up to 100 channels per second
Search Rate: Up to 300 channels per second (Turbo Mode)
Up to 100 channels per second (Normal Mode)
Scan Delay: 2 seconds
Audio Output: Max 3W (8 Ω load)
Antenna: 50 ohms (Impedance)
Operating Temperature: - 20⊃C (- 4⊃F) to + 60⊃C (+ 140⊃F)
Size: 10-1/2" (W) x 7-1/2" (D) x 3-1/2" (H)
Weight: 4 lbs.

Certified in accordance with FCC Rules and Regulations Part 15 Subpart C as of date of manufacture. Features, specifications, and availability of optional accessories are all subject to change without notice.

uniden®
Bearcat®

BC**9000**XLT

Auto Scanner



UBZZ01248ZZ

OPERATING GUIDE

Precautions

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

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.

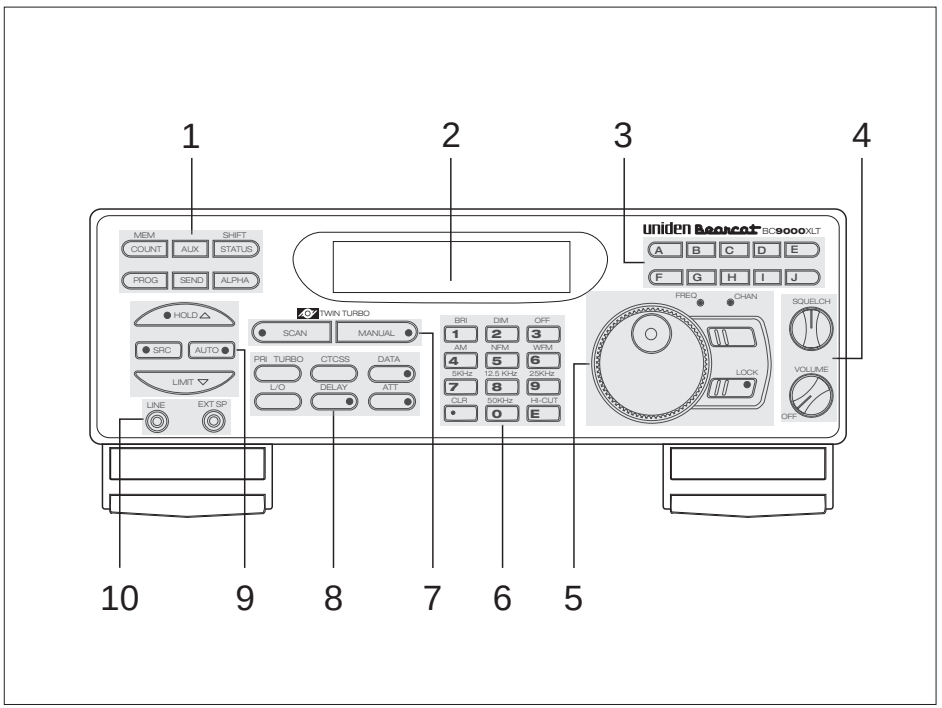
IMPORTANT!

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

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BC9000XLT Controls



1. Programming and Status Keys
2. Display
3. Bank Keys
4. ON/OFF/VOLUME and SQUELCH Controls
5. Rotary Tuning Controls
6. Numeric and Special Function Keys
7. Scan Keys
8. Mode Keys
9. Search Keys
10. Output Jacks.

One Year Limited Warranty

WARRANTOR: UNIDEN AMERICA CORPORATION (“Uniden”)

ELEMENTS OF WARRANTY: Uniden warrants, for one year, 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 12 months 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, programmed by anyone other than as detailed by the operating guide 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 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 representatives in connection with the performance of this warranty. 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 this Operating Guide you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). Include evidence of original purchase and a note describing the defect that has caused you to return it. The Product should be shipped or delivered freight prepaid by traceable means, or delivered, 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