

uniden®



Bearcat

BC 560XLT
16 Channel
Mobile/Base Scanner

Welcome

to the exciting world of radio scanners. State-of-the-art engineering and advanced electronics provide programmable operation and dependability. The keyboard of your BC 560XLT has been divided into two parts: PROGRAM, which allows you to control any VHF or UHF frequency on all 16 channels, and OPERATION, which controls Scan, Lockout, Priority, Weather Search, Direct Channel Access and Review.

Volume and Squelch levels are controlled by precision knob adjustments. A two digit LED provides frequency and operation information. A unique capacitor type memory back-up eliminates the need for batteries. The case is constructed of high impact ABS plastic to provide years of trouble-free use. Please read this guide thoroughly before attempting to operate the unit.

WARNING!

Uniden does NOT warrant this unit to be WATERPROOFED. To reduce the risk of fire or electrical shock, do not expose this unit to rain or moisture.

Unpacking

Carefully remove all items from the shipping carton. If there is any visible damage or any item appears to be missing, DO NOT RETURN THE UNIT TO THE PLACE OF PURCHASE. Please call the Uniden Customer Service Center for information or instructions on any problem that you may have: (317) 842-2483 Monday to Friday, 8 a.m. to 5 p.m. EST. The following items are included with your BC 560XLT:

- Uniden Bearcat Scanner
- Mobile Mounting Bracket
- Bracket Attachment Knobs
- Mobile Power Cord
- Operating Instructions
(Read carefully and save)
- Registration Card
(p/o operating instructions; fill out and mail immediately.)

Please keep the shipping carton and packing materials. This carton serves as an excellent method to transport this scanner.

Mobile Installation

Note

The use of this scanner in a motor vehicle may be regulated or require a permit in certain localities. Check with your local authorities before operating this scanner in mobile applications.

Mobile Installation

Plan the location of the radio bracket before starting the installation. Select a location that is convenient for operation and does not interfere with the driver or passenger in the vehicle. The bracket should be securely fastened to a solid surface using the self tapping screws provided. Mount the scanner to the bracket with the thumb screws and adjust the angle of the radio.

Mobile Antenna

In mobile applications the BC 560XLT will require an external vehicle antenna. Use a mobile antenna designed for multi-band coverage. For maximum effectiveness, the external antenna should be fed with low loss 50 ohm coaxial cable such as RGS8 foam. Remember, you have purchased the finest mobile scanner available; don't compromise its performance with an inferior antenna. We recommend using the [optional] Uniden BC-AT1 mobile antenna for best results.

Ideally, the antenna should be mounted directly in the center of the vehicle's roof. The reception pattern of a vehicular antenna always conforms to the ground plane (metal shape) located below the antenna. A roof mounted antenna provides virtually an omnidirectional pattern. If the antenna was mounted on the left rear fender, then best reception would occur from the right front fender of the vehicle, with greatly reduced reception from the left rear. Avoid mounting the antenna on a front fender, as ignition noise can limit reception.

Connecting the power

Note: The BC 560XLT is designed to be used in any vehicle which has a 12-volt DC negative ground electrical system. If you cannot determine the polarity of your vehicle, consult your vehicle dealer for information.

The BC 560XLT should be connected directly to the fuse block or battery of your car. Connect the power cord to the back of the radio to the jack marked "DC 13.8V".

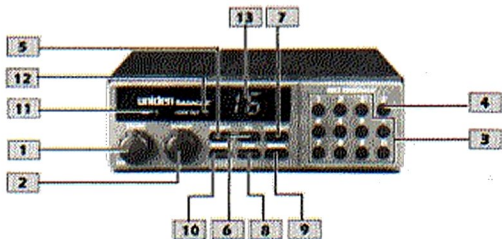
Note: The power cord provided with your BC 560XLT contains a 1 amp fuse. Should replacement ever be necessary, replace it only with a like fuse.

Base Installation

While the BC 560XLT is designed for mobile installation, you can use it for base applications with the addition of the [optional] AD 580U AC adapter and the AT-034 telescoping antenna. To use, just plug telescoping antenna into the antenna jack on the rear of the unit, plug the AD 580U adapter into the jack marked "DC 13.8V" and plug the adapter into a 120v AC 60 Hz wall outlet. Operation of the scanner is then the same as for mobile use.

Controls and Functions

- 1. ON/OFF/Volume Control** — Turns on the scanner and adjusts to the desired volume.
- 2. Squelch Control** — Eliminates the annoying "rushing" sound heard between transmissions when no transmission is being received. Proper adjustment of this control keeps the receiver quiet and allows scanning until a signal is received.
- 3. Numeric Keypad (0-9 and *,#)** — Used to program all frequencies into memory and for direct channel access.
- 4. Enter** — The "E" is used to enter frequencies into the scanning memory.
- 5. Priority** — Press to sample the activity on channel one every two seconds regardless of other operational settings. If a transmission is found the scanner will monitor channel one until no signal is present. Pressing the priority key again disables the priority function.
- 6. Weather Search** — Press to search all 7 pre-programmed NOAA weather frequencies to find the active one for your area. Pressing Scan or Manual exits weather search mode.
- 7. Lockout** — Press to lockout the reception of frequencies on selected channels during scanning. Lockout is retained in memory. Press again to delete the lockout function.
- 8. Scan** — Press to start scanning all frequencies programmed in memory that are not locked out.
- 9. Manual** — Press to stop scanning. Press to step to the next channel. Press the channel number and then press the manual key to go directly to that channel.
- 10. Review** — Press to review the frequency of the currently selected channel.
- 11. WX LED** — Lit when weather mode is operational, flashing when searching for the active weather channel in your area.
- 12. Lockout LED** — Lit when the channel currently selected is locked out.
- 13. Channel LED** — Displays the current channel being scanned or its frequency.



Operation

Operation - General

The BC 560XLT has 16 memory channels, each of which can be programmed to store one frequency. When Scan is pressed, each of the programmed frequencies will be sampled for a transmission at the rate of 15 channels per second. Locked channels will be skipped. If an active frequency is found, the unit will stop and monitor that frequency until there is no longer any activity. An automatic two second delay will allow the unit to monitor the frequency for a return or continued transmission. If, after two seconds, the frequency remains inactive, the scanning cycle will resume.

When the unit is first turned on each channel will contain a test frequency. When new frequencies are programmed, the test frequency will be erased. If an invalid frequency is entered, an "E" will be displayed and the old frequency will not be erased.

To operate the scanner, first make sure that power is supplied to the unit. Turn the Volume control on and adjust to the desired level. Adjust the Squelch by turning the knob clockwise until a "rushing" sound is heard. Turn the knob back just a little way past the point where the receiver becomes quiet. This sets the squelch to maximum sensitivity. After the channels have been programmed, operation is simple. Press the Scan key to scan all of the channels. Press the Manual key to stop scanning.

LED Display

The BC 560XLT has a two digit LED display which normally shows the current channel. When the unit is scanning, the number displayed will indicate the channel that is being sampled. When the scanner is stopped the current channel will be displayed. When frequencies are programmed the display will show the digits being programmed one at a time. Pressing the Review key will display the programmed frequency one digit at a time. The decimal point is displayed as a dash [-].

Memory Backup

The BC 560XLT has a built-in capacitor type memory backup. When the power switch is in the off position, the programmed frequencies will be retained for up to sixty days; however, it is a good idea to keep a list of the programmed frequencies.

Programming Frequencies

To program a frequency into a channel, use the Manual key to go to the desired channel, press the digits of the desired frequency (including the decimal point) and then press the "E" [Enter] key. To confirm proper entry, press the Review key to see the programmed frequency.

Programming Examples

To program 162.55 MHz into channel 2:

Press: **2** **Manual**

Press: **1** **6** **2** **.** **5** **5** **E**

Check the frequency entered by pressing the Review key.

To program 465.125 into channel 14:

Press: **1** **4** **Manual**

Press: **4** **6** **5** **.** **1** **2** **5** **E**

Press Review to check the frequency you just entered.

To Lockout (or unlock) channel 14:

Press: **1** **4** **Manual** **Lockout**

If the Lockout LED is lit, then the channel is locked out. Press Lockout again to unlock.

Helpful Hints

The BC 560XLT is a high quality electronic radio receiver. The following hints should help you understand and enjoy your unit.

1. Make sure the unit is turned off before disconnecting the power. You may want to record the programmed frequencies before power is interrupted in case memory is lost.
2. If memory is lost, simply reprogram each channel. Memory loss will be indicated by unfamiliar frequencies in each channel.
3. If strong interference or electrical noise is received, you may need to relocate the scanner or its antenna away from the source of the noise.
4. Whenever the keypad is used it is important to press firmly on the center of each key.
5. Do not use the scanner in high moisture environments such as the bathroom or kitchen. Avoid placing the unit in direct sunlight or near heating elements or heating vents.
6. Clean the outside of the cabinet with a mild detergent. Do not use abrasive cleaners or solvents. Be careful not to scratch the LED window area. Do not use excessive amounts of water.

Caution: Disconnect the power to the unit before cleaning.

7. There are no user serviceable parts inside. Do not attempt any repairs. If a problem is suspected, call the Uniden Customer Service Center or refer to a qualified repair technician.

Birdies

All radios are subject to receiving 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 the Scan key to continue scanning.

Troubleshooting

If your BC 560XLT is not performing up to your expectations, try the steps listed below. If you cannot get satisfactory results, please call the Uniden Customer Service Center for assistance:

(317) 842-2483 8 am – 5 pm EST, Monday through Friday.

1. Scanner is not working properly.

- A. Check power cord and in-line fuse.
- B. Check Volume and Squelch controls.
- C. Make sure programmed frequencies are correct.

2. Signal is weak or distorted.

- A. Check antenna connection
- B. Check proper frequencies.
- C. Make sure frequency is active.

3. Improper Reception.

- A. Check proper frequencies.
- B. Reposition scanner.
- C. Check antenna connection.

4. Scan won't stop.

- A. Check Squelch adjustment.
- B. Check proper frequencies.
- C. Check antenna connection.
- D. Check lockout.

5. Incomplete reception.

- A. Fringe area of signal.
- B. Check Squelch adjustment.

6. WX Search won't work.

- A. Check Squelch adjustment.
- B. Check if Priority is on.
- C. No active station within range.

7. Priority won't work.

- A. Check squelch adjustment.
- B. Improper frequency in channel 1.

Specifications

Size	5 1/2" x 6 7/8" x 1 3/4"
Weight	1 lb 12 oz
Power	13.8 V DC (from auto battery or AD 580U AC adapter)
Antenna	External
RF	0.4µV 29-54 MHz
Sensitivity (nominal)	0.4µV 136-174 MHz 0.5µV 406-512 MHz
Frequency Coverage	±3 KHz deviation 12dB SINAD 29-54 MHz 136-174 MHz 406-512 MHz
Channels	16
Scan Rate	15 channels per second
Audio output (nominal)	3 Watts Max, 4 Ohms

Certified in accordance with FCC Rules and Regulations Part 15 as of date of manufacture.

Specifications are typical and subject to change without notice.

Optional Accessories

The following optional accessories are available for your BC 560XLT at your local Uniden Dealer or from the Uniden Customer Service Center: (317)842-2483, 8a.m. to 5p.m. EST, Monday through Friday.

BC-AT1 Mobile Antenna — Don't compromise the performance of your BC 560XLT with an interior antenna. The BC-AT1 mobile antenna has been designed specifically for use with Uniden Bearcat scanners for maximum performance.

AT-034 Telescoping Antenna — For base use of your BC 560XLT the AT-034 telescoping antenna offers excellent performance.

AD-580U AC Adapter — The AD-580U AC Adapter has been designed to convert 120V AC 60 Hz power from your wall socket to operate the BC 560XLT.

Allocations

155 160-155 400	Sp. Emer., P.D.
156 045-156 240	L. Govt., Hwy., P.D.
156 275-157 425	Marine
157 456-157 500	Auto Emer.
157 530-157 710	Taxi
157 740-158 100	Mob. Tel. & Page
158 130-158 460	Power, For. Prod.
158 490-158 700	Mob. Tel.
158 730-158 970	P.D., L. Govt.
158 985-159 210	P.D., Hwy.
159 225-159 465	For. Cons.
159 510-160 200	Trucks
160 215-161 565	R.R.
161 600-162 000	Marine
162 026-162 175	Bur. Recl.
162 400-162 550	U.S.W.B.
163 125	IA
163 175	Bur. Recl.
163 275	U.S.W.B.
163 388-163 538	MIL
163 875-163 975	Govt.
164 025-164 075	U.S.C.G.S.
164 175-165 188	Bur. Recl., Nat. Pk.
169 300	FAA
169 450-169 725	Nat. Pk., Ind., Data
170 150	F.D., B.C.R.
170 200-170 220	U.S.C.G.S.
170 225-170 325	Ind. Land Tr.
170 425-170 575	For. Cons.
170 975-171 250	Govt., Sp. Ind.
171 388-172 725	Bur. Recl.
172 775	Nat. Pk.
173 025	U.S.W.B.
173 075	U.S.C.G.S.
173 204-173 375	Press Relay, Mot. P.

420 - 512 MHz Band

470 000-450 000	Ham
450 050-450 950	Remote Br.
451 000-451 150	Util.
451 175-451 750	For. Prod., Pet.
451 775-451 975	Spec. Ind.
452 000-452 500	Taxi, Motor Carrier
452 525-452 600	Auto Club
452 625-452 975	B.C.R., Mtr. Carrier
453 000-453 975	L. Govt. P.D., F.D.
454 000-454 975	Mob. Tel. & Page
455 000-455 975	Remote Br.
456 000-458 975	P.D., F.D., Ind.
459 000-459 975	Mob. Tel., Page
460 000-460 625	P.D., F.D.
460 650-462 175	Bus.
462 000-462 450	Taxi
462 550-462 725	C.B.
462 750-462 975	Bus.
463 000-463 175	Medical
463 200-464 975	Bus.
465 000-467 500	P.D., F.D.
467 537-467 737	C.B.
467 737-467 925	Pub. Safety

In some large metropolitan areas, 1 or 2 channels of the "TV Band" (470 to 512 MHz) are used for communication purposes. Each TV Channel utilizes 6 MHz:

470-476 MHz	Channel 14
476-482 MHz	Channel 15
482-488 MHz	Channel 16
488-494 MHz	Channel 17
494-500 MHz	Channel 18
500-506 MHz	Channel 19
506-512 MHz	Channel 20

Where these frequencies are assigned for communication purposes, in lieu of a TV station, the 6 MHz segment is allocated as shown here for channel 14 (470-476 MHz)

470 0125-470 2875	Domestic Public
470 3125-471 1375	Public Safety
471 1625-471 2875	Reserve Pool A
471 3125-471 4125	Power, Tel. Maint.
471 4375-471 6375	P.D., Spec. Ind.
471 6625-471 7875	Reserve Pool B
471 8125-472 3375	Bus.
472 3625-472 4375	Taxi
472 4675-472 7875	R.R., Motor Carrier
472 8125-472 9875	Pet., For. Prod.
473 0125-473 2875	Domestic Public
473 3125-474 1375	Public Safety
474 1625-474 2875	Reserve Pool A
474 3125-474 4125	Power, Tel. Maint.
474 4375-474 6375	Spec. Ind.
474 6625-474 7875	Reserve Pool B
474 8125-475 3375	Bus.
475 3625-475 4375	Taxi
475 4675-475 7875	R.R., Motor Carrier
475 8125-475 9875	Pet., For. Prod.

The same allocation pattern is repeated for each of the TV channels 14 through 20. For example, if channel 17 is assigned for communications in your area, "Taxi" would be 490.3625 to 490.4375. Note that in the example, we added 3 TV channels (18 MHz) to the channel 14 frequencies.

Uniden BC 560XLT PRODUCT REGISTRATION CARD

Thank you for choosing a Uniden[®] Personal Communications product. You have chosen one of the most sophisticated, technologically advanced electronic products available. Please fill out the requested information on this card so that we can better understand our customers and their needs. With this information we can plan new products, advertising, and guide our customer service programs. Thanks for your help.

1. Mr. 2. Mrs. 3. Ms. 4. Miss

5. First Name

6. Initial

7. Last Name

8. Street

9. Apt. No.

10. City

11. State

12. Zip

13. Date of Purchase:

Mo.	Day	Yr.
<input type="text"/>	<input type="text"/>	<input type="text"/>

14. Serial No.

15. Is this the first scanner you have purchased or received as a gift?

YES NO

16. If NO, please specify brand and model number purchased.

A. _____

B. _____

C. _____

17. Where did your purchase the product?

- Department Store
- Discount Store
- Catalog Showroom
- Electronics Specialty Store
- Local Electronics Dealer
- Mail Order
- Gift
- Truck Stop

18. How did you become aware of this product?

- TV Advertisement
- Magazine Advertisement
- Newspaper Advertisement
- Store Display
- Friend's Recommendation
- Salesperson's Recommendation
- Previous Use

19. Please check two of the factors that most influenced your purchase of this product.

- Style or Appearance
- Price
- Uniden Reputation
- Warranty
- Previous Use
- Features
- Quality

20. Please check your age category

- Under 20
- 20-25
- 26-30
- 31-35
- 36-40
- 41-45
- 46-50
- 51-55
- 56-60
- 61-65
- 66 & Over

21. Occupation

- Homemaker
- Teacher/Educator
- Professional Driver
- Executive/Administrator
- Civil Servant
- Sales/Marketing
- Clerical
- Farmer/Agriculture
- Military
- Technical/Professional
- Business/Professional
- Craftswoman
- Machine Operator/Laborer
- Retired
- Student

22. Please check your approximate family income.

- Under \$10,000
- \$10,000-19,999
- \$20,000-29,999
- \$30,000-39,999
- \$40,000-49,999
- \$50,000-59,999
- \$60,000 & Over

PLACE
FIRST CLASS
STAMP
HERE

uniden®

4700 Amon Carter Boulevard
Fort Worth, Texas 76155

ATTN: PC MARKET RESEARCH DEPARTMENT

Please do not send any products or service related correspondence to this address.

Please fold here

23. What types of credit cards do you use?

- American Express, Diners Club, Carte Blanche
- Bank Card (Master Card, Visa, etc.)
- Gasoline Card. Name _____
- Department Store Card
- None of the above

24. What type of car(s) do you drive?

- Compact
- Mid Size
- Sports
- Full Size
- Station Wagon
- Van
- Recreation Vehicle
- Specialty
- Motor Cycle
- Pick Up

25. What magazine(s) do you read?

- Road & Track
- Car & Driver
- Motor Trend
- Auto Week
- American Truckee
- Road King
- Playboy
- Sports Illustrated
- Penthouse
- Time
- Newsweek
- Popular Science
- Popular Mechanics
- Consumer Reports
- People

Thank you for taking the time to complete this questionnaire. If you have any other comments or suggestions please write to

UNIDEN AMERICA CORPORATION

Product Development Dept.
4700 Amon Carter Boulevard
Fort Worth, Texas 76155

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INSTRUCTIONS: Fill out both sides of card. Cut out on dashed line.
Fold on dotted line. Fold over flap and seal with glue or paste.
Affix postage and mail.

Please fold here