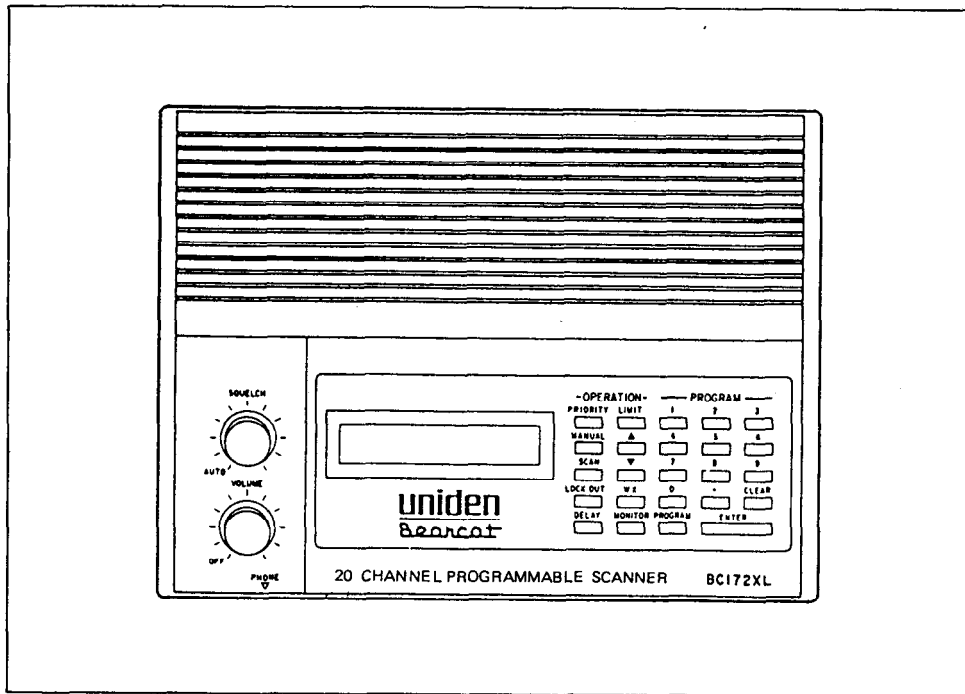


# uniden®



## Bearcat

### BC 172XL

# 20 Channel Base Scanner

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# INTRODUCTION

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Congratulations! You've chosen the Uniden Bearcat BC 172XL as your base scanner. The BC 172XL has been engineered to exacting industrial specifications for reliable, dependable, operation. This radio gives you a full complement of bands, programmable channel frequencies (no crystals required — ever!) and much more. We are sure you will be proud to own the Bearcat BC 172XL, and to insure that you get the most out of all the features, please read this operating guide completely before using your scanner. If you have any questions or comments about the Bearcat BC 172XL, please write the Uniden Customer Service Center listed on the back of this guide. Be sure to include your serial number.

All Uniden Bearcat radio scanners are certified in accordance with FCC Rules and Regulations Part 15 as of the date of manufacture.

## WARNING

*Uniden does not represent this unit to be waterproofed. To reduce the risk of electrical shock, fire hazard, or damage to the unit, do not expose to rain or moisture.*

## UNPACKING YOUR UNIT

Carefully remove the unit from the shipping carton and check the contents against the following list:

- Uniden Bearcat BC 172XL
  
- Telescoping Antenna
  
- Operating Guide  
(read it and save)
  
- Product Registration Card  
(fill out and return)

If any of these items are missing or if there are signs of physical damage, DO NOT attempt to operate the unit. Notify your dealer or shipping carrier immediately.

**Note:** *Keep the shipping carton and packing materials, as well as all printed material. This carton serves as an excellent method to transport your new scanner for service or any other reason.*

# INSTALLATION

## INSTALLING THE ANTENNA



Insert the connector end of the telescoping antenna provided into the receptacle on rear of the unit. An external antenna may be helpful in fringe areas. Always use 50-70 ohm coaxial cable for lead-in. For lengths in excess of 50 feet, RG8AU low-loss foam dielectric coax is recommended. Your scanner is equipped with a Motorola type connector. You may need an adaptor (optional) or other type of mating plug for proper connection.



## Connecting Power

Plug the unit into any standard 120VAC 60 Hz wall outlet for power.

## Unit Placement

Select a convenient place for the unit. It should not be installed in areas of high humidity, or where it could fall into water and create an electric shock hazard (such as kitchen or bathroom).

	<b>CAUTION</b> <b>RISK OF ELECTRIC SHOCK</b> <b>DO NOT OPEN.</b>	
<b>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</b>		

	<b>Explanation of Graphical Symbols</b> The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

<b>WARNING:</b> <b>TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS RECEIVER TO RAIN OR MOISTURE.</b>
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# SPECIFICATIONS

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**Band Coverage:**

11 Bands

**Frequency Range:**

10 Meter "Ham"	29.0 — 29.7 MHz
Low Band	29.7 — 50 MHz
6 Meter "Ham"	50.0 — 54.0 MHz
Aircraft	108 — 136 MHz
Military Land Mobile	136 — 144 MHz
2 Meter "Ham"	144 — 148 MHz
High Band	148 — 174 MHz
Federal Government	406 — 420 MHz
70 cm "Ham"	420 — 450 MHz
UHF Band	450 — 470 MHz
"T" Band	470 — 512 MHz

**Channels:** Any 20 Channels in any band combinations

**Scan Speed:** 10 Channels per second

**Display:** Illuminated Liquid Crystal

**Power Requirement:**  
AC, 120 Volts, 10 watts

**Sensitivity:**

AM: 20 dB Signal-to-Noise ratio at 60% modulation	108 — 136 MHz ..... 2.0 $\mu$ V
FM: 20 dB Signal-to-Noise ratio at 3 kHz deviation	29 — 54 MHz ..... 0.5 $\mu$ V
	136 — 174 MHz ..... 0.5 $\mu$ V
	406 — 512 MHz ..... 1.0 $\mu$ V

**Selectivity:**

$\pm$ 11 kHz .....	-6 dB
$\pm$ 15 kHz .....	-50 dB

<b>Audio Output:</b>	700 milliwatts maximum
<b>Antenna:</b>	flexible antenna included
<b>Connectors:</b>	antenna, earphone
<b>Size:</b>	9 7/16" W x 2 3/8" H 7 3/32" D
<b>Weight:</b>	2.2 lbs.

Certified in accordance with FCC rules and regulations part 15 as of date of manufacture. Specifications are typical and subject to change without notice.

## Birdies

All radios are subject to receiving undesired signals. If the BC 172XL stops during scan mode and no sound is heard, it may be receiving a "Birdie". Birdies are internally generated signals inherent in the electronics all the receivers. Press the scan key to continue scanning.

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# ONE YEAR LIMITED WARRANTY

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**WARRANTOR:** Uniden America Corporation ("Uniden").

**ELEMENTS OF WARRANTY:** Uniden warrants, for the duration of this warranty, Uniden Bearcat Scanners (hereinafter referred to as the Product) to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

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

**STATEMENT OF REMEDY:** In the event that the product does not conform to this warranty at any time while this warranty is effective, warrantor shall repair the defect and return it to you without charge for parts, service, or any other cost incurred by warrantor or its representatives in connection with the performance of this warranty. **THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OF 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.

**PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY:** In the event that the Product does not conform to this warranty, the Product should be shipped or delivered, freight prepaid, to warrantor at Uniden Customer Service Center, 9900 Westpoint Drive, Indianapolis, IN 46250 with evidence of original purchase.

**LEGAL REMEDIES:** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**This warranty is void outside of the United States of America.**

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

3,873,924	3,883,808	3,961,261	3,962,644	3,974,452
3,987,400	3,996,521	3,996,522	4,000,468	4,027,251
4,057,760	4,092,594	4,100,497	4,114,103	4,123,715
4,157,505	4,179,662	4,219,821	4,270,217	4,398,304
4,409,688	4,455,679	4,461,036	4,521,915	4,627,100

RE 31,523

**OTHER U.S. AND FOREIGN PATENTS PENDING**

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## FRONT PANEL FEATURES (Figure 1)

1. **On/Off Volume Control** — Rotary control turns the receiver on and off, and adjusts the volume.
2. **Squelch** — Rotary control is used to silence background noise. The radio should be squelched (silent) when no signal is present. Turn the control clockwise to receive more distant (weaker) signals.
3. **Earphone Jack** — Connect earphone for private listening. When earphone is connected, main speaker is disconnected.
4. **Liquid Crystal Display** — The LCD shows channel number, frequency, PRIORITY if the Channel 1 priority mode is enabled, LOCK OUT when certain channels are locked out of the scanning process, DELAY when channel scan delay is enabled, WX SEARCH and Error to indicate an erroneous entry.
5. **Priority** — When the priority function is enabled, channel 1 is automatically checked every 2 seconds for activity, even when stopped on another channel.
6. **Manual** — Stops the scan function, steps scanner through channels in sequence, and allows direct channel access.
7. **Scan** — Press to start scanning all active channels.
8. **Lockout** — Locks out the reception of signals on any selected channels during scanning. All channels may be locked out except channel 1.
9. **Delay** — Used to enable the 2 second channel scan delay.
10. **Limit** — Used to enter the search programming mode.
11. **∧** — Pressing this key starts search mode in ascending order.
12. **∨** — Pressing this key starts search mode in descending order.
13. **WX** — Pressing this key automatically searches all NOAA weather channels for the one that is active in your area.
14. **Monitor (hold)** — When in search mode, pressing this key pauses the search on the frequency being monitored when the key was pressed.
15. **Numeric keys 0 through 9 and decimal point** — These are used to program frequencies.
16. **Clear** — Used to correct wrong entries and to reset the search limits.
17. **Program** — Used to place the BC 172XL into programming mode.
18. **Enter** — When pressed, tells the BC 172XL to store frequency information entered.

## REAR PANEL (Figure 2)

19. **Reset Button** — Clears all of the frequencies in memory.
20. **Antenna Connector** — Motorola type connector for custom telescoping antenna.

# CONTROLS AND FUNCTIONS

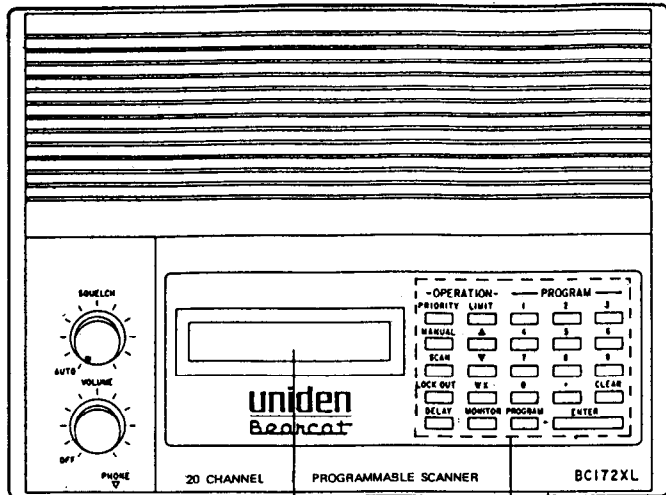
## LIQUID CRYSTAL DISPLAY

**CAUTION:** Because of inherent limitations, liquid crystal displays should not be subject to extremes of temperature or humidity. If the unit is exposed to temperatures below  $-20^{\circ}\text{C}$  ( $-5^{\circ}\text{F}$ ) or above  $+60^{\circ}\text{C}$  ( $+140^{\circ}\text{F}$ ), the display may temporarily cease to function properly, and in some cases permanent damage may result. It is, therefore, recommended that the radio not be subjected to extreme conditions, such as in direct sunlight or continuous sub-zero temperatures.

## OPERATION

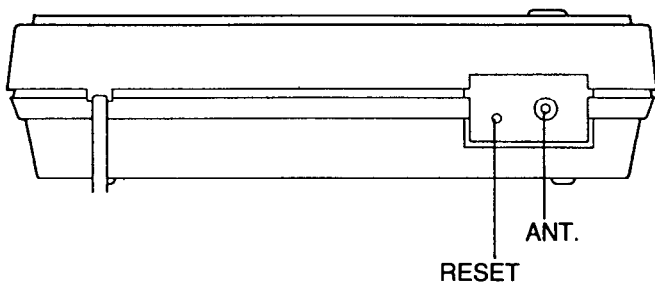
Now that you are familiar with the controls and their functions, you are ready to use your scanner. The following instructions illustrate the operation of your Bearcat BC 172XL. Please read each section thoroughly before attempting to program your scanner. Each section explains a function and then shows the key strokes involved in that function.

**NOTE:** If you know the exact frequencies you wish to scan, proceed with the "PROGRAMMING" section. If you do not know the frequencies (i.e., police, fire, weather, etc.) you wish to scan, check with your dealer. Uniden also makes frequencies available in its Uniden Frequency Directory and Local Frequency List. See the order forms packed with your unit.



DISPLAY      Front Panel Controls

Fig. 1



Rear view

Fig. 2

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# PROGRAMMING YOUR SCANNER

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## 1. To program 162.550 into channel 1:

Press **[MANUAL][1][MANUAL]**. This causes the scanner to enter manual mode and go directly to channel 1.

Press **[PROGRAM]**. The channel number will start to blink, indicating programming mode is now activated.

Press **[1][6][2][.][5][5][ENTER]**.

(Final zeros to the right of the decimal point will be entered automatically.)

The display will show the frequency and channel number (channel 1).

Press **[MANUAL]** or **[SCAN]** to exit programming mode. If you press the **[PROGRAM]** key again, the scanner will move up to the next channel, and remain in programming mode for easy entry of another frequency.

## 2. To program 471.2375 into channel 5:

Press **[MANUAL][5][MANUAL]**. This causes the scanner to enter manual mode and go directly to channel 5.

Press **[PROGRAM]**. The channel number will start to blink, indicating programming mode is now activated.

Press **[4][7][1][.][2][3][7][5][ENTER]**.

The display will show the frequency (rounded off to 3 decimal places) and channel number (channel 5).

Press **[MANUAL]** or **[SCAN]** to exit programming mode. If you press the **[PROGRAM]** key again, the scanner will move up to the next channel, and remain in programming mode for easy entry of another frequency.

If you attempt to enter a frequency outside the range of the Bearcat BC 172XL, the display will show "Error". If this happens, simply press **[CLEAR]** and then re-enter the correct number.

The Bearcat BC 172XL has been designed to automatically enter trailing zeros. For all frequencies, YOU MUST PRESS THE DECIMAL POINT or "Error" will appear.

When first turned on after the purchase, a test frequencies may be found in each of the channels. When you program your own frequencies, these test frequencies will be erased.

## SEARCH MODE

The BC 172XL has a search mode that is very useful for finding new or unpublished frequencies. To enter search mode, proceed as follows:

### 1. To search from 460.000 MHz to 461 MHz

Press **[PROGRAM][LIMIT][CLEAR]**. The scanner will enter programming mode, with the search frequency display reset to zero, and the unit ready for entry of the lower limit.

Press **[4][6][0][.][ENTER]**.

The display will show "Lo 460.000". This means that 460.000 MHz has been programmed in as the lower limit of the search.

Press **[LIMIT]**.

The display will show "Hi 000.000".

Press **[4][6][1][.][ENTER]**.

The display will show "Hi 461.000". This means that 461.000 MHz has been programmed in as the upper limit of the search.

At this point, pressing **[ ^ ]** will start the searching frequencies from the lower limit to the upper limit, or **[ v ]** will start searching frequencies from the upper limit to the lower limit. To return to normal scanning, simply press the **[SCAN]** key.

If the unit stops on a frequency during search mode, and you wish to temporarily stop on that frequency, press the **[MONITOR]** key. To resume searching, press either the **[ ^ ]** or **[ v ]** buttons.

## SQUELCH

The squelch function controls the sensitivity of the receiver. It adjusts the level at which the scan mode will stop to receive a transmission on any frequency. Rotate the "SQUELCH" control clockwise until you hear background noise and then turn it back counterclockwise until the noise is silenced. This will set the scanner to receive any transmission above the level of background noise. You can adjust the squelch level to pick up more distant signals by turning it clockwise, or less distant by turning it back. Alternatively, you can turn the squelch control fully counterclockwise until you hear a click. This engages the auto-squelch, eliminating any need to set the squelch manually.

## MANUAL CHANNEL SELECTION

If you wish to select a channel manually, press **[MANUAL]**, the desired channel number, then **[MANUAL]** again. The unit will then display the channel number and frequency for the desired channel. If you press the **[MANUAL]** key again, the unit will step up to the next channel.



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# OPERATION

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## LOCKOUT

There may be times when you wish to skip over a channel that you have programmed into your Bearcat BC 172XL. Any number of channels can be "Locked Out" so that the scanner skips over them. To Lock Out a channel, select the channel number you wish to skip over (see the section on manual channel selection). Press the **[LOCKOUT]** key. The word "LOCK OUT" will appear in the display whenever that channel number appears. To cancel the lock out mode simply select the channel manually, and then press the **[LOCKOUT]** key when that channel number appears.

## SCAN

To scan the channels programmed in memory, press the **[SCAN]** key. The channels will automatically scan at the rate of approximately 10 channels per second. As the unit scans, the channel digits in the display will advance rapidly, indicating the scanning mode. In order to stop the scan mode, a transmission must be present on one of the programmed frequencies. The squelch control must also be set so that the transmission will "break squelch" and stop the scan. You can also stop scanning by pressing the **[MANUAL]** key.

## SCAN DELAY

The Bearcat BC 172XL can be programmed to pause for about 2 seconds after a transmission ends on any channel. This is useful in preventing the continuation of scanning when there is a slight pause in transmission. It is also useful when both sides of a conversation are occurring on the same channel. To turn on the scan delay for a channel, select the channel (see the section on manual channel selection). When the desired channel is displayed, press the **[DELAY]** key. The word "DELAY" will then be displayed alongside the channel number. To remove the delay, simply repeat this procedure.

## ERROR MESSAGE

To inform the user that you are attempting to store an out-of-band frequency in memory, the BC 172XL automatically displays "Error" in this event. The condition may arise when the user presses ENTER with an invalid number in the display. The user should simply press the **[CLEAR]** key, and then enter an in-band frequency (see programming section) to clear the ERROR indication.

## EARPHONE

For private listening, plug the earphone into the Earphone jack on the front of your BC 172XL. This automatically disconnects the speaker.

## WEATHER SCAN

To automatically scan for the NOAA weather frequency active in your area, just press the **[WX]** key. Press **[SCAN]** to resume normal scanning.

## PRIORITY

You may want to be alerted to a transmission on a specific frequency, even when scanning other channels. The priority feature samples the frequency that has been entered into Channel 1 every 3 seconds. If a signal is detected on the priority frequency, the Scanner tunes to Channel 1 and remains until the transmission stops. At that time the Scanner returns to the previous mode of operation.

To active the priority function: Press **[PRIORITY]**. The priority message is displayed.

To remove priority: Press **[PRIORITY]**. The message disappears.

## TROUBLE-SHOOTING

If your Bearcat BC 172XL is not performing up to your expectations, please try re-reading this guide. If you still cannot get satisfactory results after reading this guide thoroughly and following the listed steps, you may need to send your unit in for service.

If you determine that service is necessary, remove the antenna from the unit and make sure it is turned off. Pack the scanner in the original packing material carton. Send it along with a brief, concise description of the problem, your name, address, phone number and a copy of your purchase receipt to the address listed in the warranty.

## HELPFUL HINTS

The following hints are provided to help you get the most out of your new scanner. By reading this entire guide, including this section, you will better understand and enjoy your new Bearcat BC 172XL.

1. Always remember to press the enter key when programming a frequency. If the enter key is not pressed the frequency will not be programmed into that channel.
2. If you ever have to ship the unit, be sure to remove the antenna and place it and the unit in the original styrofoam inner packing and box. One of the most common causes of damage to electronic products is improper packing when shipping.
3. Remember that the liquid crystal display is subject to permanent damage if it is exposed to extremes in temperature or humidity. Take extra care with your scanner in the winter and on sunny, summer days.
4. Receiver sensitivity is affected by the location of the antenna and the environment that the unit is used in. Best reception will occur when the unit is placed on a level metal surface with the antenna pointing up. Placing the unit close to a window, will also provide better reception.
5. Receivers, such as the Bearcat BC172XL, which have broad tuning ranges are subject to ineterferce from internally generated signals ("Birdies") on a few receiver frequencies. On these frequencies, reception of external signals may be impaired. Nothing is wrong with your scanner if this kind of interference occurs, unless it happens on a large number of frequencies.

# FREQUENCY ALLOCATIONS

Because of the short-range nature of VHF and UHF FM communications, frequencies allocated to services in one geographical location will not be heard more than 25-50 miles distance (an exception is "skip" when signals bounce back to earth from the ionosphere). For this reason a separate frequency directory must be compiled for each local monitoring area.

Most standard frequency separations and classifications are regulated in the United States by the FCC. Block allocations and even some discrete frequencies covered by your scanner are shown below. These frequencies are not necessarily active in your area. Uniden provides an eastern or western regional directory and a local listing of active frequencies.

## Abbreviations

The following is a brief listing of the services typical of the bands received by your scanner. This listing can help you decide which ranges you would like to scan.

Affiliate Radio System.....	MARS
Amateur.....	Ham
Automobile Emergency.....	Auto Emer.
Broadcast Remote.....	BC. R.
Bureau of Reclamation.....	Bur. Recl.
Civil Air Patrol.....	CAP
Department of Agriculture and Forestry.....	Agr. and For.
Fire Department.....	F.D.
Forest Products.....	For. Prod.
Forestry Conservation.....	Fors. Cons.
Government.....	Govt.
Highway Maintenance.....	Hwy.
Indian Affairs.....	
Land Transportation.....	Land Tr.
Local Government.....	L. Govt.
Manufacturers.....	Mfg.
Marine.....	
Military.....	MIL
Mobile Telephone.....	Mob. Tel.
Motion Picture.....	Mot. P.
Motor Carrier.....	Buses, Trucks
National Parks.....	Nat. Park
Petroleum.....	Pet.
Police.....	P.D.
Power Utilities.....	Power
Radio Paging.....	Page
Railroad.....	R.R.
Relay Press.....	Press
State Police.....	St. P.D.
Special Emergency.....	Sp. Ind.
Taxicab Radio.....	Taxi
Telephone Maintenance.....	Tel. Maint.
U.S. Coastal and Geodetic Survey.....	U.S.C.G.S.
U.S. Navy.....	USN
U.S. Weather Bureau.....	U.S.W.B.

<b>29 - 54 MHz BAND</b>	
29.00 - 29.70.....	10HAM
29.70 - 29.80.....	For. Prod.
29.80 - 30.00.....	Aero.
30.01 - 30.56.....	Govt.
30.56 - 30.62.....	Sp. Ind.
30.66 - 31.24.....	Ind. (Pet., For. Cons., Bus., For. Prod.)

31.26 - 31.98.....	Sp. Ind., For. Cons.
32.00 - 33.00.....	Govt.
33.02 - 33.16.....	Hwy., Sp. Emer., Bus.
33.18 - 33.38.....	Pet.
33.42 - 33.98.....	F.D.
34.00 - 35.00.....	Govt.
35.02 - 35.18.....	Bus.
35.22 - 35.66.....	Mob. Tel. & Page
35.70 - 35.72.....	Bus.
35.74 - 35.98.....	Sp. Ind. & Bus
36.00 - 37.00.....	Govt.
37.02 - 37.44.....	P.D. & L. Govt.
37.46 - 37.86.....	Power
37.90 - 37.98.....	Hwy. & Sp. Emer.
38.00 - 39.00.....	Govt.
39.02 - 39.98.....	P.D., L. Govt.
40.00 - 42.00.....	Govt.
42.02 - 42.94.....	St. P.D.
42.96 - 43.18.....	Sp. Ind. & Bus.
43.22 - 43.68.....	Mob. Tel. Page
43.70 - 44.60.....	Trucks, Bus.
44.62 - 45.06.....	St. P.D., For. Cons.
45.08 - 45.66.....	P.D.
45.68 - 46.04.....	P.D. Hwy., Sp. Emer.
46.06 - 46.50.....	F.D.
46.52 - 46.58.....	L. Govt.
46.60 - 47.00.....	Govt.
47.02 - 47.40.....	St. Hwy.
47.42.....	Red Cross
47.44 - 47.68.....	Sp. Ind. Sp. Emer.
47.70 - 48.54.....	Power
48.56 - 49.58.....	For. Prod., Pet.
49.60 - 50.00.....	Govt.
50.00 - 54.00.....	6 Meter Amateur (Ham) Band

## 108 - 136 MHz BAND

108.000 - 118.000.....	Air Navigation
118.000 - 136.000.....	Aircraft

## 136 - 174 MHz BAND

136.005 - 144.000.....	Govt.
144.000 - 148.000.....	HAM
148.010.....	MARS
148.150.....	CAP
148.155 - 148.250.....	MIL
148.290 - 150.750.....	USN
150.815 - 150.995.....	Bus.
151.010 - 151.130.....	HWY
151.145 - 151.475.....	For. Cons.
151.505 - 151.595.....	Sp. Ind.

151.625 - 151.955.....	Bus.
151.985 - 152.240.....	Mob. Tel. (RCC)
152.270 - 152.450.....	Taxi
152.480 - 152.840.....	Mob. Tel. Page
152.870 - 153.020.....	Sp. Ind. Mot. P.
153.050 - 153.440.....	Pet., For. Prod.
153.470 - 153.710.....	Power
153.740 - 154.115.....	L. Govt.
154.130 - 154.445.....	F.D.
154.450 - 154.600.....	Sp. Ind., Pet., Bus.
154.655 - 155.145.....	P.D., L. Govt., St. P.D.
155.160 - 155.400.....	Sp. Emer., P.D.
155.415 - 156.030.....	P.D., L. Govt.
156.045 - 156.240.....	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., Pet.
158.490 - 158.700.....	Mob. Tel. (RCC)
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.....	U.S.W.B.
162.550.....	U.S.W.B.
163.125.....	Indian Affairs
163.175.....	Bur. Recl.
163.275.....	U.S.W.B.
163.388 - 163.538.....	MIL
163.825 - 163.975.....	Govt.
164.025 - 164.075.....	U.S.C.G.S.
164.175 - 165.188.....	Bur. Recl. Nat. Pk. Govt., Agr. & For.
169.300.....	F.A.A.
169.450 - 169.725.....	Ind., Data
170.150.....	F.D., BC. 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. Ind., Land Tr.
171.388 - 172.725.....	Bur. Recl., For. Cons., Ind., Dept. Ag. & For., Govt.
172.775.....	Nat. Pk.
173.025.....	U.S.W.B.
173.075.....	U.S.C.G.S.
173.204.....	Mot. P., Pet., Bur. Recl. Press Relay.

## 406 - 512 MHz BAND

406.000 - 420.000.....	Govt.
420.000 - 450.000.....	HAM
450.050 - 450.950.....	Remote Br.
451.000 - 451.150.....	Util.
451.175 - 451.750.....	For. Prod., Pet., Power, Tel. Maint.
451.775 - 451.975.....	Spec. Ind.
452.200 - 452.500.....	Taxi, Mot. Carrier & R.R.
452.525 - 452.600.....	Auto Club
452.625 - 452.975.....	BC. R., Motor Carrier & R.R.
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., Land Tr.
459.000 - 459.975.....	Mob. Tel., Page, & Domestic Public
460.000 - 460.625.....	P.D., F.D.
460.650 - 462.175.....	Bus.
462.200 - 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., Ind., Land Tr.
467.5375 - 467.7375.....	C.B.
467.7375 - 469.925.....	Pub. Safety, Ind., & Land Tr.

In some large metropolitan areas, 1 or 2 channels of the "TV Band" (470 MHz to 512 MHz) are used for communication purposes. Each TV station (channels 14 through 20) utilizes 6 MHz.

- 470 - 476 T.V. Channel 14
- 476 - 482 T.V. Channel 15
- 482 - 488 T.V. Channel 16
- 488 - 494 T.V. Channel 17
- 494 - 500 T.V. Channel 18
- 500 - 506 T.V. Channel 19
- 506 - 512 T.V. 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, (Base, Mob.)
470.3125 - 471.1375.....	Public Safety
471.1625 - 471.2875.....	Reserve Pool A
471.3125 - 471.4125.....	Pwr., 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, Auto Emer.
472.8125 - 472.9875.....	Pet., For. Prod., Mfg.
473.0125 - 473.2875.....	Domestic Public
473.31235 - 474.1375.....	Public Safety
474.1625 - 474.2875.....	Reserve Pool A
474.3125 - 474.4125.....	Pwr., Tel. Maint.
474.4375 - 474.6375.....	Spec. Ind. (Mobile)
474.6625 - 474.7875.....	Reserve Pool B
474.8125 - 475.3375.....	Bus.
475.3625 - 475.4375.....	Taxi
475.4625 - 475.4875.....	R.R., Motor Carrier, Auto Emer.
475.8125 - 475.9875.....	Pet., For. Prod. Mfg.

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 and 493.3625 to 493.4375 (corresponding to 472.3625 to 472.4375 and 475.3625 to 475.4375 above). Note that in the example, we added three TV channels (18 MHz to the channel 14 frequencies).

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