REGENCY SCANNERS
MODEL MX3000
OWNER'S MANUAL

PACKING LIST

1 – Receiver Unit
1 – Wall-mounted AC Power Supply
1 – DC Power Cord
1 – Telescopic Antenna with Right-angle Adaptor
1 – Mounting Bracket
1 – Instruction Manual

INDEX

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

MAINTENANCE

All servicing should be referred to the Regency Customer Service Department. UNAUTHORIZED ADJUSTMENTS MAY DAMAGE THE EQUIPMENT OR RESULT IN IMPROPER OPERATION AS WELL AS INVALIDATE THE WARRANTY.

Important

The sections on Preparation for Use and Operation should be thoroughly read before operating the unit. Reading the instructions will result in maximum performance and enjoyment of your radio.

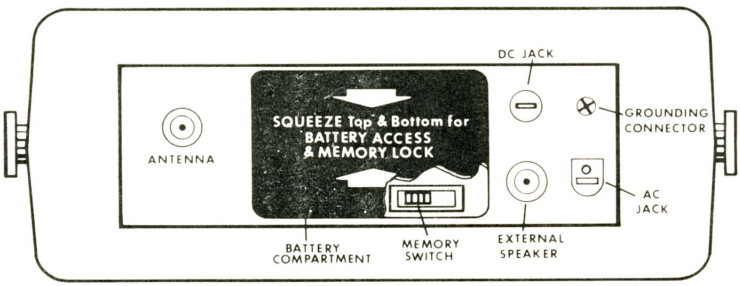
DESCRIPTION

Your Regency MX3000 is a compact, programmable 30 channel, three band, FM monitor receiver for use at home or on the road. It is a double conversion, superheterodyne used to receive the narrow band FM communications in the amateur, public safety and business bands: 30-50, 144-174 and 440-512 MHz.

Sophisticated microprocessor-controlled circuitry eliminates the need for crystals. Instead, the frequency for each channel is programmed through the numbered keyboard similar to the one used on a telephone. A "beep" acknowledges contact each time a key is touched.

Any combination of two to thirty channels can be scanned automatically, or the unit can be set on manual for continuous monitoring of any one channel. In addition, the search function locates unknown frequencies within a band.

Other features include scan delay, scan speed, priority and a day/night switch to control the brightness of the 12-digit Vacuum-Fluorescent display. The MX3000 can be operated on either 120 VAC or 12 VDC.



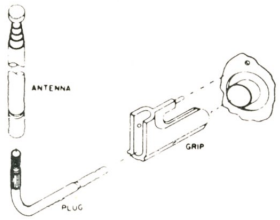
PREPARATION FOR USE

Before operating your MX3000, read the following directions carefully.

1. Unpack the unit from the carton and check for damage. If the unit is damaged, contact the place of purchase immediately as required by the warranty agreement.

2. Insert one end of the AC power cord into the AC jack provided on the rear panel of your scanner. See rear panel diagram on page 2. Plug the wall-mounted power supply into a 120 VAC outlet (DC operation is covered on page 12).

3. Insert the telescopic antenna into the antenna jack on the back of the scanner using diagram (right).



4. Before turning on the receiver, turn the "SQ" knob counterclockwise all the way.
5. Now turn the "OFF/VOL" knob clockwise to apply power to the receiver. A "click" indicates the power is on. Further clockwise turning of the "OFF/VOL" knob increases the volume. Set the knob just above the "click" prior to programming.
6. Set the squelch by turning the "SQ" knob clockwise until static is heard. Turn the knob back (counterclockwise) until the static just disappears.

FRONT PANEL CONTROLS

Off/Volume

When turned clockwise, the OFF/VOL knob provides power to the unit and increases the audio level to the desirable or most comfortable listening level.

Squelch

Eliminates background noise while the unit is scanning or searching until a transmission is received.

Off/Priority

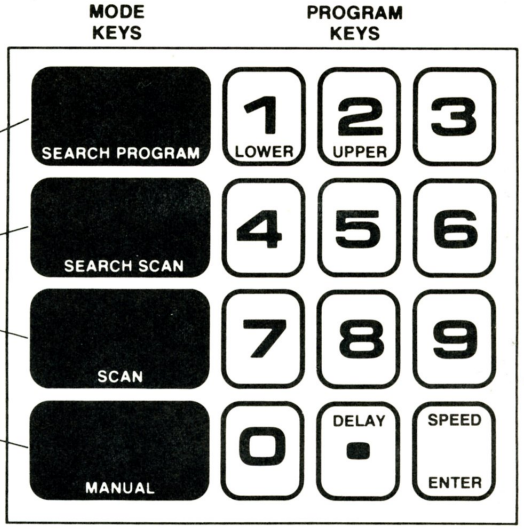
Selects the priority feature when in the SCAN or MANUAL mode (see page 11).

Night/Off/Day

Controls the brightness of the vacuum-fluorescent digital display. When in the NIGHT (left) position, the display dims for night use and also illuminates the keyboard. When in the DAY (right) position, the display is brightest for easier visibility in the daytime. The OFF (center) position turns off the display while the unit remains operating: see page 14.

PROGRAM PANEL

The MX3000 has 16 touch-entry keys for easy operation.



Mode Keys

Use this key prior to entering lower and upper frequencies into the search mode.

Starts the search process.

Puts the unit into the scan mode.

Provides for manual selection of any channel and is also used when entering frequencies.

Program Keys

The numbered keys are used for entering frequencies as well as selecting the channel number during programming.

NOTE: the 

and 

keys have two functions: they are number keys when entering frequencies, and are used to enter a frequency as the lower or upper limit to the search.

The following program keys provide special functions.

Provides the decimal point when entering frequencies and allows for a delay in the resumption of the SCAN or SEARCH processes (see pages 8, 9).

For entering a frequency into one of the 30 channels or as a search limit. Also allows selection of two different scanning speeds (see pages 7, 8).

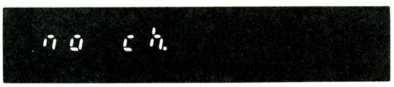
PROMPTING MESSAGES

Will be displayed upon initial power up or when unit is turned on after power has been disconnected during which time the memory battery was either not installed or low in voltage (see page 13).

The following memories will be lost and will have to be re-entered.

1. All channel frequencies
2. Both search limits.

Frequency entered is not within a band (see specifications on page 13 for band limits) or search limits are not within the same band. Also if the upper search limit is lower than lower limit (see pages 9, 10).



All channels have been locked out during scan mode (see page 8).

Blinking "Ch" — Frequency keyed in has been entered during programming but channel has not yet been selected (see page 6).

Blinking "LO" or "UP" — Frequency has been entered into search program but search limit (lower or upper) has not been selected (see page 9).

Indicates unit is in the search mode (see page 10).

When "L" appears following the channel number and frequency in the manual mode, it indicates that the channel is locked out of the scan sequence (see page 8).

Delay feature has been selected in either search or scan mode (see page 8).

An "H" in this position indicates HOLD while in SEARCH mode only (see page 10).

Priority feature has been selected (see page 11).

PROGRAMMING CHANNELS

The MX3000 has 30 channels available for your personal choice of frequencies. The sophisticated microprocessor-controlled circuitry eliminates the need for crystals and allows easy fingertip touch entry of all data.

Programming is done while in the MANUAL mode.

Example: Entering the frequency 465.250 into Channel 1.

1. **PRESS:** 

(a "beep" verifies contact). Each key will "beep" when touched.

Display: 

NOTE: When programming the unit for the first time you will notice that each of the 30 channels has been pre-programmed. Entering your choice of frequencies will erase the pre-programmed frequencies.

2. **PRESS:**

After pressing "Enter", "Ch" will blink indicating the unit is waiting for you to put the frequency into a specific channel.

3. **PRESS:** 

Display: 

Frequency 465.250 is now in Channel 1. Repeat this procedure for each channel to be programmed. Whenever a frequency is programmed into a channel that was locked out in the scan sequence, that channel is now automatically locked in again.

IMPORTANT: Channels 1 through 9 require pressing 

before pressing the channel number.

NOTE: If you enter an invalid frequency,

will appear in the display.

PRESS: 

and begin again.

IMPORTANT: Each time 

is selected for the purpose of entering a frequency, the scanning process immediately stops. The channel and frequency displayed in the digital readout will in no way be affected when you enter the new frequency, unless it is the one you wish to change.

Programming Hints

1. When programming numerous channels, 

does not have to be pressed before keying in each frequency. Simply begin with step 2 on page 6 to enter additional frequencies.
2. If an invalid frequency entry is made (''Error'' in readout), you may enter the correct frequency without pressing 

first.
3. If you wish to move a frequency from one channel to another such as from channel 1 to channel 8:

PRESS: 

repeatedly or press and hold down until channel 1 is reached.

PRESS: 

followed by 

Now the frequency that was in channel 1 is in channel 8.

NOTE: The frequency is in both channels, 1 and 8. It has not automatically been erased from Channel 1. You must re-program channel 1 to change the frequency.

SCANNING

After you have programmed the frequencies of your choice, you can scan each one automatically when in the scan mode. To start the scanning process, press 

If necessary, adjust the squelch control by turning counterclockwise until proper scanning action is obtained (see page 3).

The display will show the NUMBER of each channel as it is scanned. If a transmission is found, the scanner will stop and the display will show both the channel number and the frequency:

Scanning (continued)

Example: 

At the conclusion of the transmission, scanning will resume automatically.

If, while scanning, you wish to omit a channel from the scan process, simply touch the channel's number. This is referred to as "locking out" a channel. A channel can only be locked out while the unit is in the scan mode (scanning or stopped on a channel). If all channels are locked out, the display will show:

To put the channel(s) back in, simply touch the channel's number 01, 13, 28, etc.

Scan Delay

During the SCAN mode, you may want to delay resumption of the scan process in order to hear a reply that might otherwise be missed once the unit has gone on to scan other channels. To do this, press 

WHILE THE UNIT IS SCANNING. A "d." will appear in the display:

Now, whenever a signal is received, the unit will stop on the channel, display the channel number and frequency and broadcast the message. At the conclusion of the message, the unit will wait approximately 2 seconds before scanning. To de-activate DELAY, press 

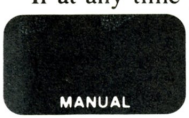
again. The "d." will disappear from the display.

Scan Speed

During the SCAN mode, you may choose between two scan speeds. Normal scan speed is approximately 15 channels per second. By pressing the 

key, you can slow down the scan speed to approximately 5 channels per second.

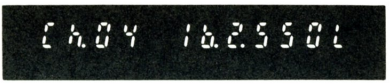
Manual Operation

If at any time you wish to monitor one channel continuously, press 

The unit will stop on a channel at random.

Press 

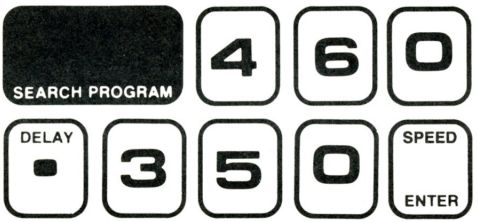
repeatedly, or press and hold down for at least one second, until the desired channel is reached. Any channel selected in manual that had previously been "locked out" during scan will have an "L" after the frequency in the display.

Example: 

SEARCHING

The MX3000 digital scanner includes a search function that enables you to locate new frequencies in addition to those you already know. It can locate active frequencies anywhere within a band.

Two frequencies (lower and upper) are used in the search mode. For example, to search for unknown active frequencies between 460.350 and 461.350 MHz:

PRESS: 

The display will blink indicating the unit is waiting for you to select a limit.

Then, press: 

Display: 

Frequency 460.350 is now entered as the lower limit to the search.

If you enter an invalid frequency,

will appear in the display. Simply re-enter a valid frequency.

PRESS:

Display: 

SEARCHING (continued)

Frequency 461.350 is entered as the upper limit to the search.

NOTE: Programming the SEARCH frequencies has no effect on the frequencies that have been programmed into SCAN or MANUAL channels 1 and 2.

To start the search, press 

The display will initially show "Srch." followed by the lower limit.

Example: 

NOTE: Be sure squelch control is set to eliminate background noise.

The unit will now automatically sample every frequency within the limits you have selected. When an active frequency is found, the unit will stop searching, display the frequency and broadcast the message.

With the "d." in the display, the unit will wait approximately 4 seconds following the conclusion of the message before it resumes searching. If you wish to select HOLD instead, simply press 

. An "H" replaces the "d." in the display. Now, when the unit finds a frequency during search, it will hold or stay on that frequency and not resume searching until you:

1) press 

to step it off the frequency, or 2) press 

to re-activate the 4 second delay.

NOTE: You cannot eliminate both DELAY and HOLD.

When the unit reaches the upper limit of the search it will automatically return to the lower limit and begin again. If at any time you wish to verify the limits you have set for the search, press 

(twice to see both limits).

If you decide to change modes (i.e. Manual or Scan) while the unit is searching, you may do so. The unit will remember at what frequency the search was interrupted. To resume the search, press 

and the unit will continue the search from that frequency.

You also have the option of entering frequencies found while searching directly

into one of the 30 scan channels. For example: entering a frequency found in search into channel 5.

When the unit stops on an active frequency,

PRESS: 

NOTE: You must press "ENTER" while the Search is still stopped on the frequency.

Now the frequency found in search is entered into channel 5. Other frequencies found while searching can be entered into any of the other scan channels the same way. Press 

to resume the search.

NOTE: In the Search mode it is recommended that you limit the search range to 1 MHz or less. Your chances of catching an unknown active frequency will be considerably greater since transmissions are usually short.

PRIORITY

This is a special feature that lets you program your favorite frequency to be sampled approximately once every two seconds and also to have it override calls on other channels. Channel 1 has been set aside for this function. Enter your favorite frequency into channel 1 then move the PRIORITY switch to on (RIGHT).

NOTE: PRIORITY is active only in the MANUAL or SCAN modes. The display will indicate priority with a "P":

While the unit is in MANUAL or scanning, the display will blink each time channel 1 is sampled. Any audio will also be briefly interrupted. Should a transmission begin on channel 1, the unit will go immediately to it and receive the message. After the message, the unit will resume scanning or return to the other channel. To de-activate priority, push the switch down (OFF).

NATIONAL WEATHER SERVICE

The National Weather Service provides a continuous (24-hour) broadcast of local and area weather conditions. These weather messages are repeated until the next or updated report is issued. The Weather Service has broadcast facilities in many metropolitan areas of the country.

If you are located within 25 or 30 miles of one of these cities, reception can usually be obtained with the telescopic antenna supplied with the unit. Your local Regency dealer can advise you about your specific antenna requirement.

Note: When set to automatic scan, the MX3000 will stop and remain on the Weather Channel (because it broadcasts continuously). Thus, this channel should only be activated when you desire to hear the current weather report.

120 VAC INSTALLATION

Plug one end of the AC cord into the AC receptacle on the rear of the radio. Plug the wall-mounted power supply into a 120 volt wall outlet. The MX3000 requires very little ventilation, however very warm locations such as near radiators or heating vents should be avoided.

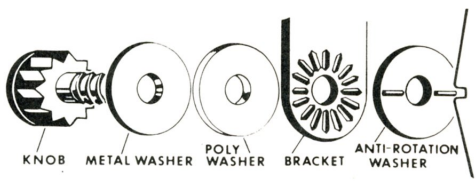
MOBILE (12 VDC) INSTALLATION

NOTE: Mobile reception of a POLICE frequency by UNAUTHORIZED personnel is ILLEGAL in some areas. It is the responsibility of the person making the installation to be sure that the user of this receiver is authorized or cleared through the local police department. Under no conditions can Regency Electronics, Inc., the manufacturer of this set, be held responsible for its unauthorized installation or use.

The MX3000 receiver may be used in any car, truck, boat, etc., that has a 12 VDC negative ground system. For permanent DC operation in a vehicle, it will be necessary to use the DC cord. The red lead with the fuse holder must be connected to the positive terminal side of the battery. The female quick-connect terminal is then pushed on to the male terminal in the DC power connector (RED).

An 18-gauge conductor, preferably stranded, must be connected to the grounding screw located on the rear panel and run to the nearest negative or ground point of the system. To prevent the possibility of memory loss during engine starting, be sure a 9 volt battery is installed in the receiver.

MOUNTING BRACKET INSTALLATION DIAGRAM



Temporary installation can be obtained by using the accessory MA-18 Cigarette Lighter Power Cord and making two connections to the receiver (both are located on the unit's rear panel; see diagram on page 2). First, connect the unshielded spade lug to the grounding screw. This provides the "ground" connection to the receiver. The shielded female quick-connect terminal is then pushed on to the male terminal in the DC power connector (RED). After both of these connections are secured, plug the Cigarette Lighter Plug end of the power cord into the vehicle's lighter receptacle. This completes the required connections. This cord will permit the unit to be operated while sitting on the seat. The telescopic antenna will usually be sufficient for this type of operation.

A coupling harness, Regency part number MA-5, is available to allow the AM auto antenna to be used with the MX3000.

MEMORY BATTERY

A battery can be installed to prevent loss of memory (channel and search frequencies) in the event of a power failure or the power cord is unplugged. A 9 volt alkaline battery or heavy duty battery of the same type used in transistor radios is recommended because of their longer life in this type of operation.

Batteries suitable for use in this receiver are readily available at your Regency dealer as well as other places that carry a line of batteries. A partial list of available batteries is:

Alkaline Batteries	Heavy-Duty Batteries
Eveready #522DB	Eveready 222
Mallory MN1604	Burgess 2MN6

Without a battery, a power failure will be indicated by the digital display:

The battery is not intended for long term memory storage. If the unit is going to be unplugged for an extended period of time, several months or longer, it is recommended that the battery be removed. Also it is recommended that a dead battery be removed or replaced as soon as possible.

Battery Installation

To install the 9 volt battery, follow these steps:

1. Squeeze battery compartment cover at top and bottom.
2. Lift out at bottom, then at top.
3. Attach battery connector to the two terminals on the battery.
4. Fit battery inside cover.
5. Replace cover by sliding top tab in first then snap in bottom tabs.

MEMORY LOCK SWITCH

After programming the channels you want, you have the option of locking in those frequencies using the Memory Lock Switch located behind the battery compartment (see rear panel diagram on page 2). Follow steps 1 and 2 on page 13 to gain access to the switch located behind the battery compartment inside the unit. With the switch in the right position, the keyboard is disabled so that channel or search frequencies cannot be inadvertently changed. The unit will continue to operate in the SEARCH, SCAN, or MANUAL modes on those frequencies previously entered into the unit's memory. Pushing the switch to the left restores the keyboard to normal operation. Channel or search frequencies may now be changed if desired.

NIGHT/OFF/DAY

When operating the unit in a dark location, such as in a vehicle at night, push the Day/Night switch to be NIGHT (left) position. The digital display will dim and the keyboard becomes back-lighted for easy nighttime operation. You also have the option of turning off the display as well as the back lighted program panel by setting the switch into the OFF (center) position. The unit will otherwise continue to operate normally. Moving the switch to the DAY (right) position, illuminates the digital display to its maximum brightness for easy visibility during daytime operation.

EXTERNAL ANTENNA

In areas of very low signal strength, it may be necessary to use an antenna system better than the telescopic one for proper reception. An external antenna mounted as high above the ground as practical will greatly increase the signal strength. If it is determined that proper reception will require an external or outside antenna, then it is suggested that a tri-band antenna (it covers both VHF bands, 30-50 MHz and 144-174 MHz, and UHF) be used. There are several manufacturers of tri-band, monitor type antennas. They are usually available at the source from which the receiver was purchased.

For proper input matching, 50 ohm coaxial cable such as RG 58/U should be used. A Motorola type antenna plug (Cinch-Jones No. 13B or H.H. Smith No. 1200) will have to be installed on the receiver end of the cable in order to utilize the antenna socket located on the rear panel of the unit. (See rear panel diagram on page 2).

EXTERNAL SPEAKER

An external (or remotely mounted) 8 ohm speaker, such as Regency's MA-108, can be used by merely inserting the mating phone plug into the 3.5 mm jack on the unit's rear panel. (See rear panel diagram on page 2). An 8 ohm speaker is recommended for optimum performance; do NOT use a 3-4 ohm speaker. The internal speaker is automatically disconnected when an external speaker is used.

SPECIFICATIONS

Frequency Ranges:

VHF (Low Band)	30-50 MHz
VHF (Amateur)	144-148 MHz
VHF (High Band)	148-174 MHz
UHF (Amateur)	440-450 MHz
UHF (Standard)	450-470 MHz
UHF (Extended)	470-512 MHz

Search Frequency Increments:	
VHF	5 KHz
UHF	12.5 KHz
Sensitivity (12 DB Sinard; at tune-up)	
LO VHF (30-50 MHz)	0.35 μV
HI VHF (144-174 MHz)	0.45 μV
UHF (440-512 MHz)	0.5 μV
Sensitivity (12 DB Sinad; maximum)	
LO VHF (30-33 MHz)	1.0 μV
LO VHF (33-48 MHz)	0.5 μV
LO VHF (48-50 MHz)	0.6 μV
HI VHF (144-146 MHz)	0.7 μV
HI VHF (146-170 MHz)	0.5 μV
HI VHF (170-174 MHz)	0.7 μV
UHF (440-450 MHz)	0.9 μV
UHF (450-495 MHz)	0.7 μV
UHF (495-512 MHz)	1.5 μV
Selectivity	±7.5 KHz @ 6 DB ±18 KHz @ 50 DB
Spurious Rejection (except Primary Image)	50 DB
Modulation Acceptance	±7.5 KHz
I.F. Frequencies	1st IF: 10.7 MHz: crystal filter 2nd IF: 455 KHz: ceramic filter
Reference Oscillator (Synthesizer)	Crystal Controlled
Scanning Rate	
Normal	approx. 15 channels per second
Slow	approx. 5 channels per second
Search Scanning Rate	
VHF	approx. 17 second per megaHertz
UHF	approx. 6 second per megaHertz
Scan Delay	
Normal	approx. 0.6 seconds
With Delay Option	approx. 2 seconds
Search Delay	approx. 4 seconds
Priority Sampling Rate	approx. 2 seconds
Audio Output	2W @ 10%, or less distortion
Speaker (Internal)	8 Ohms, 4″ square
Speaker (External)	8 Ohms, min.
Power Requirements	110-130 VAC, 60 Hz: 18 Watts max. 11.5-15 VDC: 10 Watts max.
Memory Saver Battery (optional)	9 volt, transistor radio type
Display (Frequency & Message Readout)	12 Digits, 7-Segment, VFD type
FCC Certified	Part 15, Subpart C
Size	5¾″ Wide x 2⅜″ High x 9¼″ Deep
Weight	3½ lbs.

TROUBLESHOOTING GUIDE

NOTE: Please perform the simple checks indicated for improper operation before returning the unit for service.

TROUBLE	CHECK
No display, no sound	Volume knob should be turned clockwise. Power Cord (AC or DC Connection). See also specifications for power requirements. Night/Day Switch should be in Night or Day position (not OFF). DC cord — Replace 1.5 AMP fuse if blown.
Display, no sound	Volume Control setting — check by turning clockwise.
No reception (no station heard)	Squelch Control setting — see page 3. Antenna not installed. Incorrect frequencies entered.
Weak or poor reception	Antenna should be fully extended. Stations too far away; external antenna may be needed. See page 14. Incorrect frequencies entered.
Does not scan	If in Manual mode, press SCAN. Channels locked out — see page 5. Squelch control setting — see page 3.
Search Scan stops on channels without stations	Birdies — see page 16.
"Error" appears in readout	Invalid frequency entered — see page 9.
"P. LOSS" appears in readout	Initial power-up, proceed with programming. Power failure — no memory battery or battery low in voltage.

BIRDIE LIST

Every complex receiver has frequencies that are difficilt or impossible to receive because of internally generated signals. These frequencies are called "birdies". The following is a partial list of such frequencies that may occur in the MX3000.

Low VHF (30-50 MHz)	High VHF (144-174 MHz)	UHF (440-512 MHz)
33.600	145.600	502.200
39.200	154.800	
44.800	173.600	
46.360		
46.385		

In addition, there are other frequencies that are difficult to receive because of interference from externally generated signals, such as T.V. stations, other receivers nearby and various other sources of man-made noise. These frequencies vary from location to location and are therefore impossible to list. When this type of interference is encountered, it can sometimes be eliminated by moving the Squelch Control knob counterclockwise (increase squelch action).

NATIONAL FREQUENCIES

The following is a partial list of the common public service band frequencies as allocated by the FCC. You will not be able to pick up activity on every frequency listed here. Only those frequencies assigned to the services which are applicable to your area will be received. We advise you to compile your own frequency list for your monitoring area.

Abbreviations

Automobile Emergency	Auto Emerg.
Business	Bus.
Bureau of Reclamation	Bur. Reclam.
Forestry-Conservation	For.-Cons.
Forest Products	For. Prod.
Government	Govt.
Highway Maintenance	Hwy.
Local Government	Local Govt.
Manufacturers	Manu.
Mobile Telephone	Mob. Tel.
Motion Picture	Mot. Pic.
National Weather Service	NWS
Petroleum Industry	Pet.
Power Utilities	Power
Railroad	RR
Relay Press	Rel. Press
Remote Broadcast	Remote Broad.
Special Emergency	Spec. Emerg.
Special Industrial	Spec. Ind.
Telephone Maintenance	Tel. Maint.
Weather	WX

Frequency — MHz	Service or Allocation
LOW VHF BAND 30-50 MHz	
30.00-30.56	Government
30.58-30.64	Special Industrial
30.66-31.24	Pet., For.-Cons., For. Prod., Bus.
31.26-31.98	Spec. Ind., For.-Cons.
32.00-33.00	Government
33.02-33.16	Spec. Ind., Hwy., Spec. Emerg., Bus.
33.18-33.38	Petroleum
33.42-33.98	Fire
34.00-35.00	Government
35.02-35.18	Business
35.22-35.66	Mobile Telephone, Paging
35.70-35.98	Special Industrial, Business
36.00-37.00	Government
37.02-37.42	Police, Local Government
37.44	Forest Products
37.46-37.86	Power
37.88-37.98	For. Prod., Hwy., Spec. Emerg.
38.00-39.00	Government
39.02-39.98	Police, Local Government
40.00-42.00	Government
42.02-42.94	Police
42.96-43.18	Special Industrial, Business
43.22-43.68	Mobile Telephone, Paging
43.70-44.60	Motor Carrier (Buses, Trucks)
44.62-45.06	Police, For.-Cons.
45.08-45.66	Police, Local Government
45.68-46.04	Police, Hwy., Spec. Emerg.
46.06-46.50	Fire
46.52-46.58	Local Government
46.60-47.00	Government
47.02-47.40	Highway Maintenance
47.42	Red Cross
47.44-47.68	Spec. Ind., Spec. Emerg.
47.70-48.54	Power
48.56-49.58	Pet., For. Prod., Spec. Ind.
49.60-50.00	Government
HIGH VHF BAND 144-174 MHz	
144.000-148.000	Amateur
148.150	Civil Air Patrol
148.200-150.800	Government
150.815-151.475	Bus., Auto Emerg., For.-Cons., Hwy.
151.490-151.595	Special Industrial
151.625-151.955	Business
152.000-152.255	Mobile Telephone
152.270-152.480	Business, Taxi
152.495-152.855	Mobile Telephone, Paging

Frequency — MHz	Service or Allocation
HIGH VHF BAND (Continued)	
152.870-153.035	Remote Broad., Spec. Ind., Mot. Pic.
153.050-153.380	Manu., Pet., For. Prod.
153.410-153.710	Power, Pet., For. Prod.
153.755-154.115	Fire, Local Government
154.130-154.445	Fire
154.450-154.625	Bus., Pet., Spec. Ind.
154.650-155.145	Police, Local Government
155.160-155.400	Police, Spec. Emergency
155.415-156.030	Police, Local Government
156.045-156.240	Police, Hwy. Maintenance
156.275-157.450	Marine
157.470-157.500	Auto Emergency
157.530-157.740	Business, Taxi
157.755-158.115	Mobile Telephone, Paging
158.130-158.460	Manu., Power, Pet., For. Prod.
158.475-158.715	Mobile Telephone
158.730-158.970	Police, Local Government
158.985-159.210	Police, Hwy. Maintenance
159.225-159.465	Forestry-Conservation
159.495-160.200	Motor Carriers (Buses, Trucks)
160.215-161.565	Railroad
161.600-161.625	Marine
161.640-161.760	Marine, Remote Broadcast
161.775-162.025	Marine
162.026-162.175	Bureau of Reclamation
162.400	NWS (WX-2)
162.475	NWS (WX-3)
162.550	NWS (WX-1)
163.125	Indian Affairs
163.175	Bureau of Reclamation
163.250	Special Emergency
163.275	National Weather Service
163.385-163.975	Military, Government
164.025-164.075	U.S. Coastal & Geodetic Survey
164.175-165.190	Bur. Reclam., Government
166.250	Fire
169.300	Federal Aviation Administration
169.425-169.525	Bus., Power, Pet., For. Prod., Spec. Ind., RR
170.150	Fire
170.200-170.220	U.S. Coastal & Geodetic Survey
170.225-170.325	Bus., Power, Pet., For. Prod., Spec. Ind., RR
170.425-170.475	Forestry-Conservation
170.575	Forestry-Conservation
171.025-171.125	Bus., Power, Pet., For. Prod., Spec. Ind., RR

Frequency — MHz	Service or Allocation

HIGH VHF BAND (Continued)

171.475-171.575	Forestry-Conservation
171.825-171.925	Bus., Power, Pet., For. Prod., Spec. Ind., RR
172.225-172.275	Forestry-Conservation
172.375	Forestry-Conservation
172.775	National Parks
173.025	National Weather Service
173.075	U.S. Coastal & Geodetic Survey
173.200-173.400	Police, Power, Pet., For. Prod., Mot. Pic., Rel. Press, Spec. Ind., Manu., Bus., L. Govt.

STANDARD UHF BAND 440-470 MHz

440.000-450.000	Amateur
450.050-450.950	Remote Broadcast
451.025-451.150	Power Utilities
451.175-451.750	Power, Pet., For. Prod., Manu., Tel. Maint.
451.775-452.025	Special Industrial
452.050-452.500	Power, Pet., For. Prod., Spec. Ind: Manu., Tel. Maint.
452.525-452.600	Auto Emergency
452.625-452.950	Power, Pet., For. Prod., Spec. Ind. Manu., Tel. Maint., Motor Carrier, R.R.
452.975-453.000	Relay Press
453.025-454.000	Power, Pet., For. Prod., Spec. Ind., Manu., Tel. Maint., Local Govt., Police, Fire, Hwy., For.-Cons.
454.025-454.650	Mobile Telephone
455.025-454.925	Remote Broadcast
456.025-456.150	Power Utilities

STANDARD UHF BAND (Continued)

456.175-456.700	Power, Pet., For. Prod., Manu. Tel. Maint.
456.725-457.025	Special Industrial
457.050-457.500	Power, Pet., For. Prod., Spec. Ind., Manu., Tel. Maint., Motor Carrier, RR, Taxi
457.525-457.600	Business
457.625-457.950	Power, Pet., For. Prod., Spec. Ind., Manu., Tel. Maint., Motor Carrier, RR
457.975-458.000	Relay Press
458.025-459.000	Power, Pet., For. Prod., Spec. Ind., Manu., Tel. Maint., Local Govt., Police, Fire, Hwy., For.-Cons., Spec. Emerg.
459.025-459.650	Mobile Telephone
460.025-460.625	Power, Pet., For. Prod., Spec. Ind., Manu., Tel. Maint., Police, Spec. Emerg.
460.650-462.175	Business
462.200-462.450	Manufacturers
462.475-462.525	Power, Pet., For. Prod., Manu., Tel. Maint.
462.750-462.925	Business
462.950-463.175	Police, Special Emergency
463.200-465.000	Business
465.025-465.625	Power, Pet., For. Prod., Spec. Ind., Manu., Tel. Maint., Police
465.650-467.175	Business
467.200-467.450	Manufacturers
467.475-467.525	Power, Pet., For. Prod., Manu., Tel. Maint.
467.750-467.925	Business
467.950-468.175	Police, Special Emergency
468.200-469.975	Business

EXTENDED UHF BAND 470-512 MHz

A number of the larger cities or metropolitan areas may utilize some of the lower UHF TV channels for land mobile radio services. UHF TV channels 14 through 20 are re-allocated in these cities as follows:

City/Area	Channel	Frequency Range
Boston	14, 16	470-476 MHz, 482-488 MHz
Chicago	14, 15	470-476 MHz, 476-482 MHz
Cleveland	14, 15	470-476 MHz, 476-482 MHz
Dallas/Fort Worth	16	482-488 MHz
Detroit	15, 16	476-482 MHz, 482-488 MHz
Houston	17	488-494 MHz
Los Angeles	14, 20	470-476 MHz, 506-512 MHz
Maryland	18	494-500 MHz
Miami	14	470-476 MHz
New York	14	470-476 MHz
Northeastern New Jersey	15	476-482 MHz
Oakland	17	488-494 MHz
Philadelphia	19, 20	500-506 MHz, 506-512 MHz
Pittsburgh	14, 18	470-476 MHz, 494-500 MHz
San Francisco	16	482-488 MHz
Washington, D.C.	17	488-494 MHz

Each 6 MHz segment (or channel) has the same allocation pattern as illustrated below for channel 14:

Frequency — MHz	Service or Allocation
470.0125-470.2875	Mobile Telephone
470.3125-471.1375	Public Safety
471.1625-471.2875	Reserve Pool A
471.3125-471.4125	Power, Telephone Maintenance
471.4375-471.6375	Special Industrial
471.6625-471.7875	Reserve Pool A
471.8125-472.3375	Business
472.3625-472.4375	Taxi
472.4625-472.7875	Motor Carrier, RR, Auto Emerg.
472.8125-472.9875	Pet., For. Prod., Manu.
473.0125-473.2875	Mobile Telephone
473.3125-474.1375	Public Safety
474.1625-474.2875	Reserve Pool A
474.3125-474.4125	Power, Telephone Maintenance
474.4375-474.6375	Special Industrial
474.6625-474.7875	Reserve Pool B
474.8125-475.3375	Business
475.3625-474.4375	Taxi
475.4625-475.7875	Motor Carrier, RR, Auto Emerg.
475.8125-475.9875	Pet., For. Prod., Manu.

REGENCY SCANNERS LIMITED WARRANTY

1. The warranty applies to the original or subsequent owners of the product for a period of 1 year from the original purchase date.
2. We agree to repair or replace all parts showing defects in material or workmanship.
3. Warranty service will be provided free of charge if unit is delivered to us intact, transportation charges prepaid, accompanied by dated proof of purchase within one year of the date of sale to the original purchaser.
4. The warranty does not apply to units subject to misuse, neglect, accidents, incorrect wiring not our own, improper installation, or units used in violation of the instructions furnished by us. Nor does the warranty apply to units: damaged by lightning, excess current, repaired or altered outside the factory, or units with altered or removed serial numbers.
5. To have your unit serviced under the warranty return it, freight prepaid, with proof of purchase receipt, to:

   Customer Service Department
   Regency Electronics, Inc.
   7707 Records St.
   Indianapolis, IN 46226

   Only factory personnel are authorized to perform warranty service.

   NOTE: When returning unit for warranty service, do NOT include any accessories (antenna, power cord, memory battery, etc.).
6. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Part No. 7001-1366-500 6-83 Printed in U.S.A.