146,46 Code Pract,

REGENCY SCANNERS LIMITED WARRANTY

1. The warranty applies to the original owner of the product for a period of one (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, within one (1) 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 dated proof of purchase documents (sales receipt) to:
   Customer Service Department
   Regency Electronics, Inc.
   7707 Records St.
   Indianapolis, IN 46226
   Only factory personnel are authorized to perform warranty service.
6. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

157.11 10.70 146.41

157.11 10.7 147.4

157.11 10.7 147.41

Regency ELECTRONICS, INC.
7707 Records Street
Indianapolis, Indiana 46226-9989

7001-1545-300 10-86 Printed in Taiwan, R.O.C.

Owner's Manual

Regency Scanner Model R1080

SAFETY PRECAUTIONS

1. Be sure to read and follow all safety and operating instructions before operating your unit. You should also retain all instructions for future reference.
2. Adhere to any warnings or special instructions which may appear in the operating instructions or on the unit itself.
3. DO NOT operate the unit near water (e.g. near a sink, in a wet basement, or near a pool), and DO NOT expose the unit to rain as electrical shock or fire could result.
4. Place the unit where the ventilation openings are not obstructed. Warm locations such as near heating vents or radiators should be avoided.
5. The power cord should be routed so that it will not be walked on or pinched by items placed upon or against it. DO NOT run a power cord under carpeting. Connect the unit to a power source only of the type described in the operating instructions or as marked on the appliance.
6. The unit should be used only with a cart or stand that is recommended by the manufacturer and should be mounted to a wall or ceiling with manufacturer's advice.
7. If the unit is to be left unused for a long period of time, the power cord should be unplugged from the outlet.
8. DO NOT attempt to service the unit yourself beyond what is described in the operating instructions. All servicing should be referred to a qualified technician. Should one of the following occur, send the unit to a qualified technician:
   a). The unit shows a marked change in performance.
   b). Power cord has been damaged.
   c). The unit has been dropped or enclosure damaged.
   d). The unit has been exposed to rain.
9. The unit should be cleaned only as recommended by the manufacturer.
10. Care should be taken so that objects do not fall and liquids are not spilled into enclosure through openings.
11. If an outside antenna is used, be sure it is located away from power lines. The antenna should also be grounded to protect against voltage surges and built up static charges. Refer to Figure 1 below.

Example of antenna grounding as per National Electrical Code Instructions

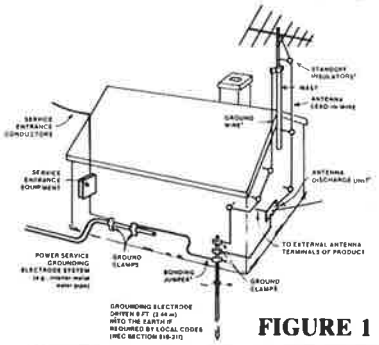


FIGURE 1

[a]Use No. 10 AWG (5.3 mm²) copper, No. 8 AWG (8.4 mm²) aluminum, No. 17 AWG (1.0 mm²) copper-clad steel or bronze wire, or larger, as a ground wire.

[b]Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4–6 feet (1.22–1.83 m) apart.

[c]Mount antenna discharge unit as close as possible to where lead-in enters house.

[d]Use jumper wire not smaller than No. 6 AWG (13.3 mm²) copper, or the equivalent, when a separate antenna-grounding electrode is used. See NEC Section 810-21(j).

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.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

PACKING LIST

1–Model R1080 Receiver
1–Model MA520 Telescopic Antenna with right-angle adaptor
1–Instruction Manual

IMPORTANT

Please read all instructions thoroughly before operating the unit.

INDEX

MAINTENANCE

If your unit does not operate properly, refer to the troubleshooting guide on page 10 and make the suggested adjustment. If the problem persists, send the unit to the Regency Customer Service Department as per the instructions outlined by the warranty statement on the back cover of this manual. DO NOT attempt additional service to this unit yourself. 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.

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

DESCRIPTION

Your Regency R1080 is a 30-channel, six band, programmable, FM monitor receiver. It is a double-conversion, superheterodyne unit for receiving the narrow-band FM signals in the public service communications bands. Police, fire and civil defense are a few of the services in these bands. A separate set of channels (non-programmable) is set apart for the exclusive scanning of NOAA weather frequencies (plus Canadian frequency) to provide instant weather information.

Sophisticated microprocessor-controlled circuitry eliminates the need for crystals. Instead, the frequency for each channel is programmed through a numbered keyboard.

A "beep" acknowledges contact each time a key is touched. Any combination of 2 to 30 channels can be scanned automatically. Manual selection permits continuous monitoring of any one channel.

A "memory capacitor" retains stored frequencies for approximately 24 hours during a power outage. No batteries are required.

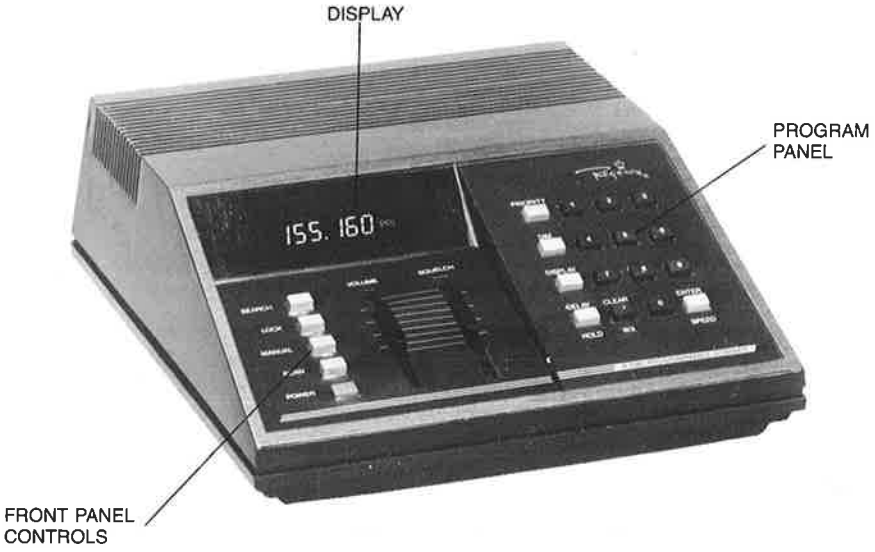
Two scanning speeds are provided.

The priority feature permits sampling a favorite frequency on Channel 1 about once every 2 seconds, overriding other channels.

A vacuum fluorescent display permits viewing of channel number, lock, hold, and delay status, frequency, operating mode, priority status and error information.

The unit features a DIM key with two levels of display illumination for day and night use.

The R1080 may be operated from any 120 VAC power source.



EXTENDED UHF BAND 470-512 MHz

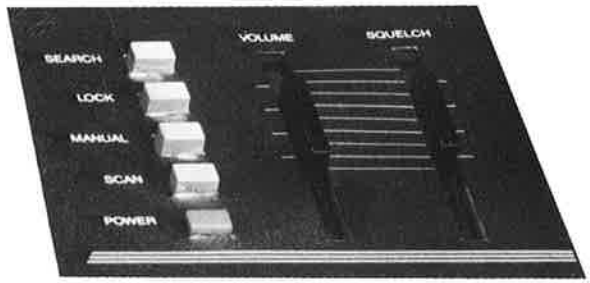
A number of the larger cities of metropolitan areas may utilize some of the lower UHF TV channels for land mobile radio services. UHF TV channels 14 through 20 are re-allocated in these cities as follows:

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		
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
Phildelphia	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
470.0-0125-470-2875	Mobile Telephone
470.3125-471.1375	Public Safety
471.1615-471.2875	Reserve Pool A
471.3125-471.4125	Power, Telephone Maintenance
471.4375-471.6375	Special Industrial
471.6625-471.7875	Reserve Pool A
471.8125-472.3325	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
473.3125-474.1275	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.

FRONT PANEL CONTROLS



POWER

Press this button to turn the unit on. Press again to turn the unit off.

SCAN

Push this button to start scanning action. All channels which are not locked out will be scanned. The unit will stop on an active channel.

MANUAL

Press this button to continuously monitor one channel or to advance channels from 01 to 30. Programming frequencies into channels is done in the MANUAL mode (See PROGRAMMING, page 7).

LOCK

Press this button to lock (omit) a channel (unit must be stopped on that channel to lock or unlock). The locked channel will have **LCK** next to it in the channel number display. The locked channel will be skipped during scanning. To unlock a channel, go to that channel in the MANUAL mode and press LOCK.

SEARCH

Use this button to search unknown frequencies within the limits set by channels 29 and 30 (See PROGRAMMING SEARCH LIMITS and USING THE SEARCH FEATURE, page 8). The display will show **SRH** during search.

VOLUME CONTROL

Slide the knob up to increase the audio level.

SQUELCH CONTROL

Use this to eliminate background noise. Slide the knob up till static is heard. Slide the knob down till the static disappears.

Note: Slight adjustment of SQUELCH (usually downward) may be needed to obtain proper scanning.

PROGRAM PANEL

(**Note:** A beep indicates positive key action.)

PRIORITY

Effective in MANUAL, SCAN and SEARCH modes. Activates the priority feature. Lets you sample your favorite frequency about once every 2 seconds, overriding all other channels. Enter your favorite frequency into Channel 1 and then press the PRIORITY key. The display will indicate priority with **PRI.** To deactivate priority, press the PRIORITY key again.

DIM

Press this key to change display illumination from bright to dim or from dim to bright.

DISPLAY

Press this key to review frequency entered into a given channel.

DELAY/HOLD

Dual-function key. DELAY effective in SCAN and SEARCH modes; HOLD in SEARCH only.

Press the DELAY key to delay resumption of scan or search for about 2 seconds after transmission has stopped on that channel. **DLY** will appear on display next to the channel number.

In the SCAN mode, press DELAY again to remove delay. **DLY** will disappear from display.

Note: If DELAY is not actuated, the unit has a built-in delay of about half a second.

In the SEARCH mode, pressing DELAY again will take the unit to the HOLD position. In this position, the unit will stay on an active frequency indefinitely until search is resumed. **HLD** will appear on display.

Frequency — MHz	Service or Allocation
LOW VHF BAND 30-50 MHz	
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
171.475-171.575	Forestry-Conservation
171.825-171.925	Bus., Power, Pet., For. Prod., Spec. Inc., 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	Remoted 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, RR
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

Frequency — MHz	Service or Allocation
STANDARD UHF BAND (Continued)	
455.175-456.700	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

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 these 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
37.467-37.86	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, Fors.-Cons.
45.08-45.66	Police, Local Government
45.68-46.04	Police, Hwy., Spec. Emerg.
46.60-46.50	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

Frequency — MHz	Service or Allocation
HIGH VHF BAND (Continued)	
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
152.8709-153.035	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
158.130-1458.460	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

CLEAR/●/WX

This is a three-function key. Use CLEAR to correct a mistake in frequency entry prior to pressing ENTER key. The (●) on the key is for entering the decimal point. Press WX for exclusive scanning of NOAA weather frequencies (plus Canadian frequency).

0-9

Numerical keys for entering frequencies or selecting channels.

ENTER/SPEED

Dual-function key. Use ENTER for entering a frequency during programming or channel number during search. Use SPEED, when in SCAN mode, to alternate between two scanning speeds (slow to fast or fast to slow). SPEED has no effect in SEARCH mode.

PROMPTING MESSAGES

The following is an explanation of the prompts that appear on the display during the course of operation.

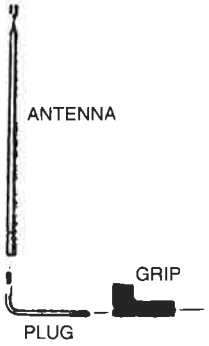
PRI	Priority function is active.
SRH	Unit is in SEARCH mode.
LCK	Locked channel. Appears in MANUAL only.
DLY	Delay effective in SCAN or SEARCH.
HLD	Hold. Effective in SEARCH only.
Fr Err	Frequency is outside permitted range.
no ch	All channels are locked out. Appears in SCAN only.
Pr Off	Indicates that the microprocessor has been reset or that power has been lost for more than 24 hrs.
SPD	Faster scanning.
Sr Err	Search frequency outside allowed range; upper limit lower in frequency than lower limit; limits not in same band.

INSTALLATION

Before operating your new scanner, read the following directions carefully. Doing this will ensure maximum performance and enjoyment of your radio. We also recommend that you save all instructions for future reference.

1. Unpack the unit from the carton and check for damage. If the unit is damaged, contact the place of purchase immediately.
2. Check the contents of the box with the packing list on page one of this manual. Report any shortages to the place of purchase.

3. Plug the AC power cord into a 120 volt outlet. Your unit requires very little ventilation; however, very warm locations such as near radiators or heating vents should be avoided.
4. Assemble the Model MA520 Antenna (supplied) following the diagram. Make sure the antenna plug is fully seated in the grip. Then insert the antenna into the antenna jack on the back of the scanner.



The telescopic antenna will be adequate in areas of moderate signal strength. In areas of very low signal strength, it may be necessary to use a better antenna system for proper reception. An external antenna mounted as far 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, it is suggested that a tri-band antenna that covers both VHF bands (30-50 MHz and 144-174 MHz) and UHF be used.

Important: Be sure the antenna system you select is grounded to protect against voltage surges and built up static charges. See Safety Precautions on the inside front cover of this manual. In addition, the antenna should be located away from power lines.

For proper input matching, 50 ohm coaxial cable 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.

5. Before turning on the receiver, slide the SQUELCH knob all the way down.
6. Turn the unit on by pressing the POWER switch in until it "clicks" on.
7. Now slide the VOLUME knob approximately 1/3 of the way upward.
8. To obtain proper scanning action SQUELCH must be set properly. Slide the knob upward until static is heard. The proper adjustment is the point where the static just disappears. Slide the SQUELCH knob back down until this is achieved. NOTE: Further downward adjustment of the SQUELCH knob past this point may result in poor reception of weaker signals. When scanning, however, the SQUELCH control may have to be adjusted slightly to eliminate false stopping.

Your unit is now ready for programming and operation.

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
Sensitivity (12 DB Sinad: at tune-up)	
VHF (Low Band)	0.50 µV
VHF (Amateur)	0.70 µV
VHF (High Band)	0.50 µV
UHF (Amateur)	0.90 µV
UHF (Standard)	0.70 µV
UHF (Extended)	1.50 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	First I.F.: 10.7 MHz; crystal filter Second I.F.: 455 KHz; ceramic filter
Reference Oscillator (synthesizer)	Crystal Controlled
Scanning Rate	
Normal (Fast)	approx. 13 channels/second
Slow	approx. 7 channels/second
Scan Delay	
Normal	approx. 0.5 seconds
With Delay Option	approx. 2 seconds
Priority Sampling Rate	approx. once every 2 seconds
Search Scanning Rate	
VHF	approx. 18 seconds per MHz
UHF	approx. 8 seconds per MHz
Audio Output	1 Watt @ 10% or less distortion
Speaker	16 Ohms, 2¼" round
Power Requirement	110-130 VAC, 60 HZ @ 18 Watts max.
Memory Retention	Approx. 24 Hours
Size	7½" Wide × 3" High × 9" Deep
Weight	2½ lbs.

FCC Certified Part 15, Subpart C
U.L. Listed
(Specifications subject to change without notice.)

Please record Serial Number and Date of Purchase:

Serial No. _____ Date Purchased _____

IMPORTANT: To have your unit serviced under the warranty, dated proof of purchase (sales receipt) must be sent in with the unit. See Warranty on back cover.

TROUBLESHOOTING GUIDE

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

TROUBLE	CHECK
No channel light, no sound	POWER Button should be pushed ON (in). Power Cord (AC connections). See also specifications for power requirements (page 11).
Channel light, no sound	Volume control setting–check by sliding upward. Squelch control setting–see page 6.
No reception (no station heard)	Antenna should be installed and fully extended. Station too far away–external antenna may be needed (see page 6).
Weak or poor reception	Antenna should be fully extended. Station too far away–external antenna may be needed.
Does not scan	Squelch control setting–see page 6. Channels are locked out–see page 3. Push SCAN.
Does not search	Squelch control setting–see page 6. Press SEARCH. Search limits are incorrect. See pages 5 and 8.
Erratic keyboard operation, eratic display	Reset microprocessor–see page 9.

Note: In subsequent operation, when the unit is turned on, it will return to the same operating mode it was in prior to power turn-off.

ACCESSING CHANNELS DIRECTLY

MANUAL Mode:

Press the numeral keys for the desired channel number, and then MANUAL again.

SCAN Mode:

Press the numeral keys for the desired channel number. The unit will now be in MANUAL for the desired channel.

PROGRAMMING CHANNELS

(Assigning Frequencies to Channels)

Note: The unit, as it leaves the factory, is preprogrammed with 30 popular frequencies in channels 01-30. Channels 29 and 30 are earmarked for defining the lower and upper limits of frequency search.

PROCEDURE

1. Press MANUAL repeatedly until the unit displays the desired channel number. Alternately, press MANUAL, the desired 2-digit channel number and MANUAL again.
   Note: If channels 29 and 30 are not used for search limits, they can be used like any other channel.
2. Press the numeral keys corresponding to the desired frequency.
   Press ENTER.
   Example: 4 5 2 . 5 2 5 MHZ
   Press: 4 5 2 . 5 2 5
   Press ENTER.

   Notes:
   1. The frequency entered may be reviewed (verified) by pressing the DISPLAY key.
   2. Channel numbers 1–9 must be entered as 01–09.
   3. If a number such as 35 is entered for frequency, the display will show 35.000.
   4. The CLEAR key may be used to erase a frequency prior to pressing ENTER. If an invalid entry is attempted, the display will indicate **"Fr Err".** In that case, simply start over. DO NOT press CLEAR for you will be in weather scan.

SELECTING PRIORITY FREQUENCY

The unit's priority feature 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 priority frequency into Channel 1, then press the PRIORITY key.

Priority is active in the MANUAL SCAN and SEARCH modes. The display will indicate priority with **PRI.**

If Channel 1 (the priority channel) is active, the receiver will sample it and stay on that channel.

After the message is over, the unit will resume scanning or return to the last active channel.

To de-activate priority, press the PRIORITY key again while the unit has stopped on the priority channel.

PROGRAMMING SEARCH FREQUENCY LIMITS

The unit can be programmed to search for active frequencies between a lower and an upper limit within a band (30-50 MHz, 144-174 MHz, or 406-512 MHz). Use Channel 29 for the lower frequency limit and Channel 30 for the upper limit.

Procedure:

1. Use the MANUAL key to step to Channel 29. (Alternately, press MANUAL, numerals 2 and 9, and then MANUAL.) Press the numeral keys corresponding to the desired lower search frequency. Press ENTER.
2. Press MANUAL key once to step to Channel 30. Press the numeral keys corresponding to the desired upper search frequency. Press ENTER.

   Note: To review the frequency limits, get Channel 29 on the display and press DISPLAY. Repeat for Channel 30.

USING THE SEARCH FEATURE

After the search limits have been programmed, press SEARCH. The unit will then start to search and only stop on an active frequency. This frequency can be assigned to any Channels 01-28. (Note: You can enter the frequency into Channels 29 and 30, but this will change your search limits.)

The unit will resume search on the same channel frequency. To stop the search, press MANUAL or SCAN. To resume the search after stopping, press SEARCH.

Note: Activate the HOLD feature (See page 4) if you wish to stay on the first active signal.

Assigning Frequencies Found in Search to Channels

When the unit has stopped on an active signal, its frequency can be assigned to any of the channels 01-30. Press ENTER and then the desired channel number. Example: to assign the frequency to Channel 5, press ENTER and then the numeral keys 0 and 5.

The unit will resume search starting with the same frequency.

SCANNING CHANNELS

Press SCAN. The unit will go through all unlocked channels and stop on an active channel. It will stay there until transmission ceases, and thereafter goes to the next active channel. To resume scan, press SCAN.

Note: All locked channels will be skipped. See Page 3.

SCANNING WEATHER FREQUENCIES

The National Oceanic and Atmospheric Administration (NOAA) broadcasts continuous (24 hours) weather information throughout the U.S. on the following frequencies (MHz).

162.400	162.500
162.425	162.525
162.450	162.550
162.475	

(Canadian Weather on 161.650 MHz)

Your receiver has a set of pre-programmed channels reserved exclusively for scanning these weather frequencies. If you are located within 25 to 30 miles of one of the broadcast sites, reception can usually be obtained with the Model MA520 Telescopic Antenna supplied with the unit.

To scan the weather frequencies, simply press WX (same as CLEAR key).

To return to normal (non-weather frequencies) scanning, press SCAN.

RESETTING MICROPROCESSOR

A momentary power line failure or a voltage drop may cause erratic display and/or keyboard operation. If this occurs, simply push the SEARCH and SCAN buttons at the same time while the unit is turned on. The display will read **"Pr OFF",** indicating that the microprocessor has been set to proper operating status.

You must then reprogram the unit with all of your frequencies.

MEMORY

Your R1080 scanner is equipped with a short-term memory backup system, requiring no batteries. A "memory capacitor" retains stored frequencies for approximately 24 hours during a power outage.

BIRDIES

Every complex receiver has frequencies that are difficult or impossible to receive because of internally generated signals. These frequencies are called "birdies". In addition, there are other frequencies that are difficult to receive because of interference from externally generated signals, such as T.V. stations, home computers, 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 down (increase squelch action).