

RP-6120

200-Channel Pocket Scanner

OWNER'S MANUAL

FCC INFORMATION

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

In accordance with FCC requirements, changes or modifications not expressly approved by Thomson Consumer Electronics could void the user's authority to operate this product.

CAUTION: Scanning is a great pastime. You can listen to exchanges between police, fire departments, ambulances, military organizations, government agencies, private companies, aircraft and amateur radio stations. Owning and operating this scanner is legal in so far as you do not intentionally intercept the following electronic and wire communications:

- . Cellular, cordless or private telephone conversations transmit communications through means of telephone signal transmissions.
- . Pagers transmissions.
- . Scrambles of encrypted transmissions.

As amended the Federal Electronic Communication Privacy Act (ECPA) states you could be fined and/or imprisoned for intentionally listening to, using or disclosing the contents of such a transmission unless a party in the communication has consented-unless such an activity is otherwise legal.

In some areas/states it is unlawful to operate a scanner. Please check the laws in your area as they may change from time to time. Thomson Consumer Electronics assumes no liability for the operation of this scanner.

WARNING: In some areas/states it is unlawful to operate a mobile scanner. Please check the laws in your area. Thomson Consumer Electronics assumes no liability for the operation of this scanner.

TABLE OF CONTENTS

Will add

INTRODUCTION

High Speed Scan -- lets you scan up to 25 channels per second and search up to 50 steps per seconds.

Triple Conversion Superheterodyne Receiver -- virtually eliminates any interference from IF images, so you hear only the selected frequency.

10 Preprogrammed Search Bands -- lets you search for transmissions within preset frequency ranges, so you can find interesting frequencies more quickly.

7 Preprogrammed Weather Frequencies -- keep you informed about current weather conditions.

Ten Channel-Storage Banks -- let you store 20 channels in each bank to group channels so calls are easier to identify.

Priority Channels -- you can set the scanner to check priority channel so you do not miss important calls.

Two-Second Scan Delay -- delays scanning for about 2 seconds before moving to another channel or frequency, so you can hear more replies.

Lock-Out Function -- lets you set your scanner to skip over specified channels when scanning.

Key Lock -- lets you lock the scanner's keys to help prevent accidentally changing the scanner's programming.

LCD Display -- makes it easy to view and change programming information.

Display Backlight -- makes the scanner easy to read in low light situations.

Flexible Antenna with BNC Connector -- provides excellent reception and is designed to help prevent antenna breakage.

Memory Backup -- keeps the channel frequencies stored in memory for about 1 hour during a power loss.

Three Power Options -- let you power the scanner from internal batteries (non-rechargeable batteries or rechargeable batteries) or supplied external AC or DC power (using optional adapters).

Your RP-6120 scanner can receive all of these frequencies:

- 29-54 MHz
- 108-136.975 MHz
- 137-174 MHz
- 380-512 MHz
- 806-824 MHz
- 849-869 MHz
- 894-960 MHz

In addition, your scanner is preprogrammed with the following weather service frequencies:

162.400 162.425 162.450 162.475
162.500 162.525 162.550

SEARCH BANDS

Your scanner can tune over 32,000 different frequencies. Each of these frequencies is contained within a group of frequencies called a band. The scanner uses permanent memory locations called search bands (1-0) to group these bands. You can search these bands to quickly find active frequencies you might want to store into the scanner's channels.

The scanner has the following search bands

Band	Search Range (MHz)
1	29-54
2	108-136.975
3	137-148
4	148-174
5	380-420
6	420-450
7	450-512
8	806-824
9	849-869
0	894-960

FIRST THINGS FIRST

POWERING THE SCANNER

There are basically two ways to power your scanner – by batteries or adapter. However, you can use different types of batteries and different kinds of adapters, so pay close attention to the procedures and precautions written below for the method you choose.

BATTERIES

It takes six batteries to operate your scanner. Alkaline batteries offer the best results, but it is possible to use nickel-cadmium rechargeable batteries.

To install batteries:

1. Slide the battery door in the direction of the arrow.
2. Insert six AA batteries as shown in the diagram. (Illustration will add)
3. Replace the battery door.

Note: Alkaline batteries are recommended for best results. As they are not rechargeable, PLEASE DO NOT ATTEMPT to plug the AC adapter into the CHG jack while alkaline batteries are in the unit. Doing so may cause serious damage to you or the unit.

It is always a good idea to let nickel-cadmium batteries run all the way down before charging them. Then when you do charge them, do so to their full potential and they will last longer and provide more power.

IMPORTANT BATTERY INFORMATION

. Using nickel-cadmium rechargeable batteries may result in shorter playing time. It is always a good idea to let the nickel-cadmium batteries run all the way down before charging them. Then when you do charge them, do so to their full potential and they will last longer and provide more power.

. If you do not intend to use the unit for a month or more, remove the batteries to avoid leakage or subsequent damage.

. Dispose of batteries in the proper manner, according to federal, state and local regulations.

. Any battery may leak electrolyte if mixed with a different battery type; if inserted incorrectly; if all batteries are not replaced at the same time; if disposed of in fire; or if an attempt is made to charge a battery not intended to be recharged.

. Discard leaky batteries immediately to avoid possible skin burns or other personal injury.

USING ADAPTERS

This scanner is equipped with two jacks – PWR and CHG. When an adapter is connected to the PWR jack and an AC outlet, power from the batteries is disconnected.

When an adapter is connected to the CHG jack, this jack will provide power or the scanner while recharging the batteries.

WARNING: Use the CHG jack only if you have rechargeable nickel-cadmium batteries installed. DO NOT CONNECT AN AC OR DC ADAPTER TO THE CHG JACK IF YOU HAVE NON-RECHARGEABLE BATTERIES INSTALLED. If you try to recharge non-rechargeable batteries, you may cause serious injury to yourself and/or severely damage the scanner.

AC POWER

To use the AC adapter provided, simply plug the barrel end into the PWR jack on the side of your scanner and the pronged module into a standard AC outlet.

Be sure to unplug the adapter from the wall outlet before you remove the barrel plug from the PWR jack on the scanner.

Charging Batteries

Should you choose to use nickel-cadmium batteries, it is possible to recharge them while inside the scanner.

1. Install nickel-cadmium batteries as instructed above.
2. Plug your AC adapter into the CHG jack.

Your scanner will work off the AC power from the outlet and recharge the batteries at the same time.

DC ADAPTER

If you plan to operate the scanner in your vehicle, you may choose to power it using a DC adapter and the socket of the cigarette lighter. Check to make sure the socket is attached to a 12-volt, negative-ground electrical system.

Connect and disconnect with the scanner same as an AC adapter.

WARNING: The adapter you use must supply 9-volts with the center tip set to negative.

It also must fit properly into the PWR jack and deliver at least 300 milliamperes.

- . The adapter's voltage switch must be set on 9V.
- . Never leave the adapter plugged into the lighter when isn't attached to the scanner. Always disconnect the adapter from the lighter first, then the scanner.
- . If the scanner does not properly operate while trying to use a DC adapter, simply unplug the adapter from the lighter socket and clean the socket.

CONNECTING THE ANTENNA

Your scanner comes with a flexible antenna for better reception. To attach the antenna:

1. Line up the slots on the antenna with the knobs of the antenna receptor on the scanner.
2. Slip the antenna over the knobs and twist until you feel the antenna lock into place.

OPTIONAL ANTENNAS

While the flexible antenna provides satisfactory reception for local signals, you can attach a multiband outdoor antenna – not provided – for even better reception.

Install the antenna according to its instructions, then connect it to the scanner via the ANT jack.

NOTES: Do not place the cable on top of sharp edges or near moving objects; place it as high as possible outside; place it as far from any source of electrical noise as possible; and make sure the antenna is vertical at all times.

Use RG58 or RG8/M for lengths under 50 feet. Use RG-8, low-loss coaxial cable for lengths more than 50 feet.

PRIVATE LISTENING

Your scanner has been equipped with a PHONES jack to allow for private listening. The use of headphones or an earphone – not included – immediately suspends audio output from the scanner's main speaker.

WARNING: Some headphones/earphones allow you to hear background noise while listening to your scanner at a normal volume setting. Regardless, wearing headphones or an earphone while riding a bike or operating a vehicle cannot only impair your concentration, it is also dangerous and/or illegal.

Do not operate your scanner at high volume.

Hearing experts advise against continuous extended play.

. If you experience a ringing in your ears, reduce volume or discontinue use.

. You should use extreme caution or temporarily discontinue use in potentially hazardous situation.

USING THE BELT CLIP

Your scanner has been equipped with a belt clip to make it more mobile. To use, simply slide the belt clip over the waistband of your pants/skirt or your belt.

USING THE LIGHT

Your scanner has been equipped with a light to help you see better in dim or dark lit areas. Press and hold the LIGHT button to activate this feature.

BATTERY SAVER

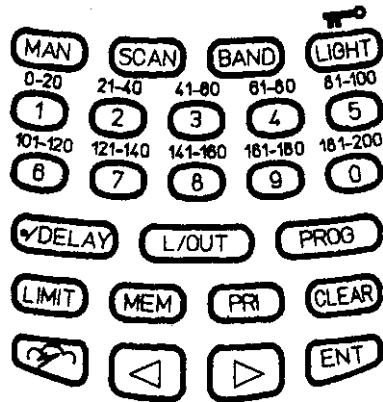
Your scanner has been equipped with a battery-saving circuit. This feature sends the unit into a standby mode, which uses only 40 percent of the available power, if no signal is detected within a 5 second time interval. P.-SA appears on the display.

The scanner will continue to operate in the standby mode until it receives a signal or you press a button.

UNDERSTANDING YOUR SCANNER

A LOOK AT THE KEYPAD

Your scanner's keys might seem confusing at first, but this information should help you understand each key's function.



MAN -- stops scanning to let you directly enter a channel number.

SCAN -- scans through the programmed channels.

BAND -- selects a preprogrammed search band.

LIGHT/key symbol -- turns on/off the display's backlight. Or, locks/unlocks the keypad to prevent accidental entries.

Number Keys -- each key has a single-digit label and a range of numbers. Use the digits on the keys to enter the numbers for a channel or a frequency. Use the range of numbers above the key (21-40, for example) to select the channels in a channel-storage bank.

•/DELAY -- enters a decimal point (necessary when programming frequencies). Or, programs a 2-second delay for the selected channel.

L/OUT -- lets you lock out selected channels.

PROG -- programs frequencies into channels.

LIMIT -- sets the frequency range you want to search.

MEM -- accesses the 20 monitor memories.

PRI -- sets and turns on and off priority for a priority channel.

CLEAR -- clears an incorrect entry.

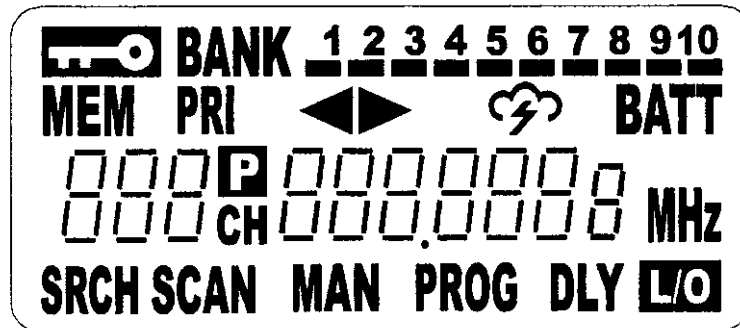
cloud/thunder mark -- scans through the 7 preprogrammed weather channels.

< and > -- searches up or down from the currently displayed frequency.

ENT -- enters frequencies into channels.

A LOOK AT THE DISPLAY

The display has indicators that show the scanner's current operation. A quick look at the display will help you understand how to operate your scanner.



key symbol -- appears when you lock the keypad.

BANK -- appears with numbers (1-10). Numbers with a bar under them show which channel-storage banks are turned on for scanning.

MEM -- appears when you listen to a monitor memory.

PRI -- appears when the priority feature is turned on.

< or > -- indicate the search or scan direction.

cloud/thunder mark -- appears when you scan the 7 preprogrammed weather band channels.

BATT -- flashes when the batteries need to be replaced or recharged.

P -- appears when you listen to the priority channel.

CH -- the digits that precede this indicator (1-200) show which channel the scanner is tuned to.

MHz -- digits that precede this indicator show which of the 32,000 possible frequencies you have tuned the scanner to.

SRCH -- appears during band, limit, and direct frequency search.

SCAN -- appears when you scan channels.

MAN -- appears when you manually select a channel.

PROG -- appears while you program frequencies into the scanner's channels, or while you program limit search range.

DLY -- appears when you program a 2-second delay for a channel or search frequencies.

L/O -- appears when you manually select a channel you locked-out while scanning.

Display Message

Error -- appears when you make an entry error.

-dUPL- -- (duplicate) appears when you try to store a frequency that is already stored in another channel.

-L- -- appears during a limit search.

Lo -- appears when you program a lower limit frequency range.

Hi -- appears when you program a higher limit frequency range.

-d- -- appears during a direct search.

bx (x: 1 to 0, search band number) -- appears during a band search.

ch-FULL -- appears all channels are full when you try to enter a frequency during a search.

Lo-0000 -- appears when you clear all locked-out channels. See "Deleting frequencies from All Locked-Out Channels".

Ac-0000 -- appears when you clear all channels. See "Deleting All Channels".

LoALLcL -- appears when you clear all lock out setting in channel memories. See "Locking Out Channels".

rE.ST -- appears when the scanner stops search by pressing CLEAR key.

P.-SA -- appears when the scanner activates the power saver.

OPERATION

TURNING ON THE SCANNER/SETTING VOLUME AND SQUELCH

Note: Make sure the scanner's antenna is connected before you turn it on.

1. Turn SQUELCH fully counterclockwise.
2. Turn VOLUME OFF/MAX clockwise until it clicks and you hear a hissing sound.
3. Turn SQUELCH clockwise, then leave it set to a point just after the hissing sound stops.

The scanner automatically starts scanning channels. Press MANUAL to stop scanning.

Notes:

- If you have not stored frequencies into any channels (see "Searching For and Storing Active Frequencies"), the scanner does not scan.
- If the scanner picks up unwanted, partial, or very weak transmissions, turn SQUELCH clockwise to decrease the scanner's sensitivity to these signals. If you want to listen to a weak or distant station, turn SQUELCH counterclockwise.
- If SQUELCH is adjusted so you always hear a hissing sound, the scanner does not scan properly.

RESETTING/INITIALIZING THE SCANNER

If the scanner's display locks up or does not work properly after you connect a power source, you might need to reset or initialize the scanner.

Caution: If you have problems, first try to reset the scanner (see "Resetting the Scanner"). If that does not work, you can initialize the scanner (see "Initializing the Scanner"); however, this clears all information stored in your scanner's memory.

Resetting the Scanner

1. Turn off the scanner, then turn it on again
2. Insert a pointed object, such as a straightened paper clip, into the reset opening on the side of the scanner and gently press then release the reset button inside the opening.

Note: If the scanner still does not work properly, you might need to initialize the scanner (see "Initializing the Scanner").

Initializing the Scanner

Caution: This procedure clears all information you stored in the scanner's memory. Initialize the scanner only when you are sure the scanner is not working properly.

1. Turn off the scanner, then turn it on again.
2. Press and hold CLEAR.
3. While holding down CLEAR, insert a pointed object, such as a straightened paper clip, into the reset opening on the side of the scanner and gently press then release the reset button inside the opening.
4. After a second, release CLEAR.

Note: You must release RESET before releasing CLEAR, otherwise the memory might not clear.

SEARCHING FOR AND STORING ACTIVE FREQUENCIES

You can store frequencies into channels using any of the following methods:

- Manual storage
- Auto storage
- Each search operation

Manually Storing Frequencies

If you know a frequency you want to store, you can store it manually.

1. Press PROG. PROG appears.
2. To select the channel where you want to store the frequency, use the number keys to enter the channel number, then press PROG.
3. Using the number keys, enter the frequency you want to store into that channel.
4. Press ENT to store the frequency.

Notes:

- If you entered an invalid frequency in Step 3, the scanner beeps and displays the channel number and Error. Simply repeat Steps 3 and 4.
- Your scanner automatically rounds the entered frequency down to the closest valid frequency. For example, if you try to enter a frequency of 151.473, your scanner accepts it as 151.470.

- If you entered a frequency that is already stored in another channel, the scanner beeps three times and displays the lowest channel number where the frequency is already stored, and dUPL briefly flashes three times. If you want to store the frequency anyway, press ENT again.

5. Repeat Steps 2-4 to store more frequencies into channels.

Band Search

If you do not know of a frequency to store, you can search your scanner's preprogrammed search bands for active frequencies, then store any that you find into your scanner's channels or monitor memories.

Note: You can use the scanner's delay feature while using band search. See "Delay".

Follow these steps to search for and store active frequencies using band search.

1. Press BAND. The last selected band number (b followed by a number, such as b2), SRCH, and the associated frequency search range appear on the display.

2. To select a different band, enter the desired band number (1-0, see Page 5 for Search Bands) or repeatedly press BAND until the desired band number appears on the display. Press and hold > for about a second to search from the lower to the upper band edge, or press and hold < for about a second to search from the upper to the lower band edge. > or < appears on the display.

Notes:

- To reverse the rapid search direction at any time, press and hold > or < for about 1 second.
 - To search the band upward or downward in small increments (in steps of 5, 12.5, or 25 kHz, depending on the band), press and release > or <.
 - To quickly move upward or downward through the range of frequencies, press and hold down > or <. The scanner tunes through the frequencies until you release > or <.
3. When the scanner find an active frequency, it stops scanning and displays that frequency's number.

To store that frequency in the channel, simply press ENTER. The scanner stores the frequency, then continue the searching.

Note: When you store frequency while all channels are entered, CH FULL appears. In order to store more frequencies, you must clear some channels. See "Deleting Frequencies".

4. To store that frequency in the monitor memory, simply press MEM. To search for another active frequency in the selected band, press and hold > or < for about a second, then repeat Steps 3 or 4.

To select a different band then search for another active frequency, repeat Steps 2-4.

Limit Search

You can search for transmissions within a range of frequencies you select, called the limit search range.

Note: You can use the scanner's delay feature while using limit search. See "Delay".

Follow these steps to set and store limit search ranges and search them for active frequencies.

1. Press PROG. PROG appears.
 2. Press LIMIT. Lo and lower limit frequency appears on the display.
 3. Use the number keys to enter the lower limit of the frequency range you want to search, then press ENT.
- Note:** If you enter an invalid frequency in Step 3 or 5, the scanner displays Error. Simply repeat the step.
4. Press LIMIT. Hi and upper limit frequency appears on the display.
 5. Use the number keys to enter the upper limit of the frequency range you want to search, then press ENT.
 6. Press and hold > or < for about a second, to start search. As the scanner searches, it displays SRCH and -L-.

Notes:

- To reverse the rapid search direction at any time, press and hold > or < for about a second.
- To search the selected band upward or downward in small increments (in steps of 5, 12.5, or 25 kHz, depending on the band), press and release > or <.
- To quickly move upward or downward through the range of frequencies, press and hold down > or <. The scanner tunes through the frequencies until you release > or <.

7. When the scanner find an active frequency, it stops scanning and displays that frequency's number. To store that frequency in the channel, simply press ENT. The scanner stores the frequency, then continue the searching.

Note: When you store frequency while all channel are entered, CH FULL appears. In order to store more frequencies, you must clear some channels. See "Deleting Frequencies".

8. To store that frequency in the monitor memory, simply press MEM. To search for another active frequency, press and hold > or < for about a second, then repeat Step 7.

Direct Search

You can search up or down from the currently displayed frequency and store frequencies you like into channels or monitor memories.

Note: You can use the scanner's delay feature while using direct search. See "Delay".

1. Press MAN or PROG.
2. Use the number keys to enter the frequency you want to start the search from.

Note: Do not omit digits (except the last zeros) after the decimal point. The frequency must be fully entered for the scanner to start the direct search.

Or, use the number keys to enter the channel number containing the starting frequency and press MAN or PROG again.

3. Press and hold > or < for about a second to search up or down from the selected frequency.

Notes:

- To reverse the rapid search direction at any time, press and hold > or < for about a second.
- To search the selected band upward or downward in small increments (in steps of 5, 12.5, or 25 kHz, depending on the band), press and release > or <.
- To quickly move upward or downward through the range of frequencies, press and hold down > or <. The scanner tunes through the frequencies until you release > or <.
- 4. When the scanner find an active frequency, it stops scanning and displays that frequency's number. To store that frequency in the channel, simply press ENT. The scanner stores the frequency, then continue the searching.

Note: When you store frequency while all channels entered, CH FULL appears. In order to store more frequencies, you must clear some channels. See "Deleting Frequencies".

5. To store that frequency in the monitor memory, simply press MEM. To search for another active frequency, press and hold > or < for about a second, then repeat Step 4.

SCANNING THE CHANNELS

To begin scanning channels or to start scanning again after monitoring a specific channel, press SCAN.

Notes:

- You must store frequencies into channels before the scanner can scan them (see "Searching For and Storing Active Frequencies").
- The scanner does not scan empty channels.

The scanner scans through all channels (except those you have locked out) in the active banks (see "Locking Out Channels and Frequencies" and "Turning Channel-Storage Banks Off and On").

To change the scanning direction, press > or <.

TURNING CHANNEL-STORAGE BANKS OFF AND ON

To turn off banks while scanning, press the bank's number key until the bar under the bank's number disappears. The scanner does not scan any of the channels within the banks you have turned off.

Notes:

- You cannot turn off all banks. There must be at least one active bank.
- You can manually select any channel in a bank, even if the bank is turned off.

To turn on banks while scanning, press the bank's number key until a bar appears under the bank's number.

COPYING A FREQUENCY FROM A MONITOR MEMORY TO A CHANNEL

1. Press PROG.
2. Use the number keys to enter the channel number where you want to store the monitor frequency, then press PROG.
3. Press MEM. MEM flashes. Use the number keys to enter the monitor memory's number (1-20), then press MEM.

MEM flashes and the monitor memory's number and frequency appear.
4. Press ENT. The scanner stores the frequency in the selected channel.
5. To move another monitor memory frequency to the next channel, press PROG and repeat Steps 3 and 4.

DELETING ALL FREQUENCIES

1. Press PROG.
2. Press and hold CLEAR, then press 0. ALL Ch appears on the display and 0000 flushes.
3. To delete frequency, press ENT. If you do not delete, press CLEAR.

DELETING A FREQUENCY FROM A CHANNEL

1. Press PROG.
2. Use the number keys to enter the channel number containing the frequency you want to delete.
3. Press PROG.
4. Press 0, then press ENT. The frequency is deleted.

DELETING FREQUENCIES FROM ALL LOCKED-OUT CHANNELS

You can delete the frequencies in all locked-out channels. This lets you delete all the old or uninteresting frequencies in channels you have locked out.

1. Press PROG.
2. Press and hold CLEAR, then press L/OUT. L-o Ch appears on the display and 0000 flushes.
3. To delete frequency, press ENT. If you do not delete, press CLEAR.

USING MONITOR MEMORIES

Monitor memories are temporary storage areas where you can store up to 20 frequencies while you decide whether or not to save them into channels. You can manually select monitor memories, but you cannot scan them.

You can store frequencies you find during search operation, into monitor memories. Simply press MEM when the desired frequency appears on the display. The channel number under the MEM indicates the current monitor memory.

To listen to a monitor memory, press MAN, then press MEM. The current monitor memory appears. To select other monitor memories, use the number keys to enter the monitor memory's number (1-20), then press MEM.

Both MEM and the frequency stored in the monitor memory are displayed.

LISTENING TO A WEATHER BAND

The FCC (Federal Communications Commission) has allocated 7 channels for use by the National Oceanic and Atmospheric Administration (NOAA). NOAA broadcasts your local forecast and regional weather information on one or more of these channels.

To hear your local forecast and regional weather information, simply press cloud mark. Your scanner begins to scan through the weather band, and > and cloud mark appear on the display. To reverse the scanning direction, press > or <.

Your scanner should stop within a few seconds on your local weather broadcast.

Note: To manually select a preprogrammed weather channel, you can:

- repeatedly press cloud mark until MAN appears on the display, then repeatedly press > or < to move forward or backward through the channels.
- press the number (1-7) of the channel you want to listen to.

SPECIAL FEATURES

DELAY

Many agencies use a two-way radio system that might have a pause of several seconds between a query and a reply. Your scanner's delay feature lets it wait for 2 seconds after each transmission on a channel or frequency while scanning or searching.

To program a 2-second delay for a channel while scanning, manually select the channel and press **•/DELAY** until **DLY** appears. When your scanner stops on the channel, it waits for 2 seconds after each transmission on that channel before it resumes scanning.

To program a 2-second delay for any active frequency while searching, press **•/DELAY** until **DLY** appears. When your scanner stops on a transmission, it waits for 2 seconds after each transmission on that frequency before it resumes searching.

LOCKING OUT CHANNELS

You can scan existing channels faster by locking out channels that have a continuous transmission, such as a weather channel.

To lock out a channel while scanning, press **L/OUT** when the scanner stops on the channel. To lock out a channel manually, manually select the channel and press **L/OUT** until **L/O** appears on the display.

To remove the lockout from a channel, manually select the channel and press **L/OUT** until **L/O** disappears from the display.

Note: You can still manually select locked-out channels.

To remove all lockout from a channels as follows:

1. Press **MAN**.
2. Press and hold **CLEAR** then press **L/OUT**.

PRIORITY

When you designate one channel as the priority, the scanner will check it every two seconds and will remain there if an active transmission is in progress. **P** will appear in the display whenever the scanner switches to the priority channel.

1. Press the **PROG** button.
2. Enter the desired channel number.
3. Press **PRI**. **P** appears on the display.

To activate the priority scan, press the PRI button while scanning. PRI will appear in the display.

To turn off the feature, press the PRI button. PRI will disappear from the display.

USING THE DISPLAY BACKLIGHT

You can turn on the display's backlight for easy viewing in dimly-lit areas. Press LIGHT/key symbol to turn on the display light for 5 seconds. To turn off the light before it automatically turns off, press LIGHT/key symbol again.

TURNING THE KEY TONE ON AND OFF

Each time you press any of the scanner's keys, the scanner sounds a tone.

Follow these steps to turn the scanner's key tone on or off.

1. If the scanner is on, turn VOLUME OFF/MAX counterclockwise until it clicks to turn it off.
2. While you press and hold down the 2 and ENT keys, turn on the scanner.
3. After a second, release 2 and ENT.

USING THE KEYLOCK

Once you program your scanner, you can protect it from accidental program changes by turning on the keylock feature. When the keypad is locked, the only controls that operate are SCAN, MAN, LIGHT/key symbol, VOLUME OFF/MAX, and SQUELCH (However, the scanner continues to scan channels).

To turn on the keylock, press and hold down key symbol/LIGHT for about 3 seconds until the scanner beeps three times and key symbol appears on the display. To turn it off, press and hold down key symbol/LIGHT for about 3 seconds until key symbol disappears from the display.

EQUIPMENT SPECIFICATIONS

Operational Channels 200 channels plus 10 monitor memories

Sensitivity FM -20dB signal-to-noise ratio at 3kHz deviation:

AM -20 dB signal-to-noise ratio at 60% modulation

29-54 MHz	1 uV
108-136.975 MHz	2 uV
137-174 MHz	1 uV
380-512 MHz	1 uV
806-960 MHz	2 uV

Spurious Rejection (FM-at 154 MHz) 40 dB

Selectivity

+/-10 kHz	-6 dB
+/-18 kHz	-50 dB

IF Interference Ration

257.5 MHz at 154 MHz	50 dB
21.4 MHz at 154 MHz	100 dB

Scanning Rate 25 channels/sec.

Search Rate 50 steps/set.

Delay Time 2 sec.

IF Frequencies 257.5 MHz, 21.4 MHz and 455 kHz

Frequency Coverage

29-54 MHz (in 5 kHz steps)
108-136.975 MHz (in 25 kHz steps)
137-174 MHz (in 5 kHz steps)
380-512 MHz (in 12.5 kHz steps)
806-824 MHz (in 12.5 kHz steps)
849-869 MHz (in 12.5 kHz steps)
894-960 MHz (in 12.5 kHz steps)

Squelch Sensitivity

Threshold	less than 1 uV
Tight (FM)	(S+N)/N 25 dB
Tight (AM)	(S+N)/N 20 dB

Antenna Impedance 50 ohms

Audio Power (10% THD) 240 mW nominal

Built-in Speaker	1 3/8" (36 m/m) 8-ohm, dynamic
Power Requirement	+9V DC, 6AA batteries or a suitable adapter (negative ground only)
Current Drain (Squelched)	70 mA
Operating Temperature	+14 °F to +140 °F (-10 °C to +60 °C)
Dimensions	5 7/8 x 2 1/2 x 1 3/4" (HWD)
Weight	approx. 9.2 oz (260 g) without antenna

CARE AND MAINTENANCE

. This unit is to be kept dry at all times. Should the unit become wet, dry immediately with a soft cloth. Electronic circuits may corrode should they come in contact with liquids containing minerals.

. Do not drop the unit. Circuit boards may be damaged and cause the scanner to malfunction if it is dropped.

. Store unit at normal temperatures. Avoid sudden temperature changes. Excessive hot or cold temperatures may damage or disfigure plastic parts and/or shorten the life of electronic devices.

. To prevent premature wear and tear on parts, keep the unit clean and free of dust and dirt.

. Do not use harsh chemicals, solvents or strong detergents to clean the unit.

. Do not attempt to alter or modify the internal component's of the unit. Such actions may violate and/or void the unit's warranty and/or the FCC's authorization for the unit's operation.

SERVICE INFORMATION

This product should be serviced only by those specially trained in appropriate servicing techniques. For instructions on how to obtain service, refer to the warranty in this guide.

Attach your sales receipt for future reference, or write down the date you purchased/received this product as a gift. This information will be valuable if service should be required during the warranty period.

Purchase Date _____

Name of Store _____

LIMITED WARRANTY

Will add