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

Introduction ................................................................. 2
The Scanner ................................................................. 3
First Things First .......................................................... 4
  Powering the Scanner .................................................. 4
  Connecting the Antenna .............................................. 7
  Private Listening ...................................................... 7
  Using the Belt Clip .................................................... 8
  Using the Light ........................................................ 8
Battery Saver ............................................................... 8
Buttons and Controls .................................................... 9
The Display ................................................................. 10
Using the Scanner ......................................................... 11
  Adjusting Volume and Squelch ..................................... 11
  Programming Frequencies ......................................... 11
  Moving a Frequency from
  Monitor Memory to a Channel ..................................... 14
  Scanning Stored Channels ......................................... 15
  Using Channel Storage Banks ..................................... 15
  Selecting Channels Manually ...................................... 16
  Using Delay .......................................................... 16
  Using Keylock ....................................................... 17
  Using Channel Lockout ............................................. 17
  Using Priority Scan ................................................ 18
  Using the AM/FM Receive Modes .................................. 18
Troubleshooting Tips .................................................... 20
  Resetting the Scanner ............................................... 20
  Initializing the Scanner ............................................. 20
Equipment Specifications ............................................... 21
Care and Maintenance ................................................ 22
Service Information .................................................... 22
Index ................................................................. 23
Limited Warranty ....................................................... Back Cover
Congratulations! You are now the owner of a brand new RCA RP-6150 200-Channel ScanTrak AM/FM Scanning Receiver.

Your new scanner will provide for you all the excitement and action of police in pursuit, ambulances en route and fire tracks on the scene. You’ll know the latest changes in weather conditions, be able to warn family and friends of the latest accidents on the highways...plus much more!

With the capacity to scan more than 31,000 frequencies at 25 channels per second, your new RCA ScanTrak AM/FM Scanning Receiver allows you to be involved in your community from the comforts of your own home. Enjoy!

**SOME TERMS TO KNOW:**

*Signal* - electrical impulses sent or received.
*Transmission* - a sent or received signal.
*Frequency* - a signal transmitted through the air.
*Broadcast* - to transmit a signal for public service.
*Squelch* - lessens the scanner’s sensitivity to weak signals.
*Channel* - a location to permanently store an active frequency.
*Channel Storage Bank* - a place to group frequencies with similar themes. For example, you can group all police departments in one bank and all fire departments in another.
*Monitor Memory* - provides a location to temporarily hold active frequencies found during a search. If you decide to permanently store a frequency held in monitor memory, you can store it in a permanent channel.
*Scan* - scrolls through all stored channels, pausing on active frequencies until the transmission ends.
*Search* - looks for active frequencies within a set range.
The Scanner

Antenna jack
SQUELCH knob
VOLUME knob

FUNCTION buttons

KEYLOCK

Number keys, ENTER button

FUNCTION buttons

200 CHANNEL AM/FM SCANNING RECEIVER
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.
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.
FIRST THINGS FIRST

- 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 for 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.
**First Things First**

Be sure to unplug the adapter from the wall outlet before you remove the barrel 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 it 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.
**FIRST THINGS FIRST**

**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.
**FIRST THINGS FIRST**

- **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 situations.**

**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. All LCD indicators remain on. The scanner will continue to operate in the standby mode until it receives a signal or you press a button.

**HAVE A BLAST – JUST NOT IN YOUR EARDRUMS**

Make sure you turn down the volume on the unit before you put on headphones. Increase the volume to the desired level only after headphones are in place.
The following list is presented in alphabetical order and provides general information about each button and control on your scanner:

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM/FM</td>
<td>Allows you to switch between the AM and FM modes.</td>
</tr>
<tr>
<td>CLEAR</td>
<td>Erases an incorrect entry; helps initialize the scanner.</td>
</tr>
<tr>
<td>DELAY</td>
<td>Allows you to program a two-second delay for a specific channel.</td>
</tr>
<tr>
<td>ENTER</td>
<td>Allows you to store a frequency in a channel.</td>
</tr>
<tr>
<td>KEYLOCK</td>
<td>Prevents accidental program changes by disabling the keypad. While in this mode, the only controls that operate are LIGHT, MANUAL, SCAN, VOLUME and SQUELCH.</td>
</tr>
<tr>
<td>L/OUT</td>
<td>Turns the lockout function on and off.</td>
</tr>
<tr>
<td>LIGHT</td>
<td>Activates the display light for increased utilization in dimly lit areas.</td>
</tr>
<tr>
<td>LIMIT</td>
<td>Allows you to set the frequency range.</td>
</tr>
<tr>
<td>MANUAL</td>
<td>Interrupts the Scan mode and allows you to enter a channel number.</td>
</tr>
<tr>
<td>MON</td>
<td>Allows access to the 10 Monitor Memories.</td>
</tr>
<tr>
<td>NUMBERS</td>
<td>Use the single digits on the face of the buttons to enter the numbers for frequencies and channels. Use the number ranges above the buttons to choose channels in a channel-storage bank.</td>
</tr>
<tr>
<td>PGM</td>
<td>Initiates the Program function and allows you to enter frequencies into channels.</td>
</tr>
<tr>
<td>PRI</td>
<td>Turns the Priority function on and off.</td>
</tr>
<tr>
<td>SCAN</td>
<td>Activates an automatic scan of all the stored channels, except those locked out.</td>
</tr>
<tr>
<td>▲ ▼</td>
<td>Allows you to select a search direction.</td>
</tr>
</tbody>
</table>
The display lets you know what your unit is doing. The following is a list of display messages you will encounter and what they mean.

**AM or FM** ---- appears constantly when the scanner selects the mode; blinks when mode is manually selected.

**CH** ------------ appears when the scanner is on one of the 200 channels.

**DLY** ----------- appears when the scanner tunes to a channel you have pre-programmed with delay.

**L/O** ----------- appears when you listen to a channel that is locked out of the Scan mode.

**SRCH** -------- appears during frequency search.

▲ and ▼ ------ indicate the search direction.

**SCAN** -------- appears when you scan channels.

**MAN** -------- appears when you manually select a channel.

**MON** -------- appears when you listen to a monitor memory.

**PGM** -------- appears when you program a frequency into a channel.

**PRI** -------- appears when the Priority feature is on.

**-d-** --------- appears when you program a channel for a two-second delay before scanning or when you listen to a channel that has been programmed with the delay feature. See "Using Delay."

**-L-** -------- appears during a limit search.

**P** -------- appears when the scanner lands on a priority channel.
**Using the Scanner**

**Adjusting Volume and Squelch**

1. Turn the SQUELCH knob completely clockwise.
2. Turn the VOLUME knob halfway.
   
   **REMEMBER:** The scanner turns on and off via the VOLUME knob.
3. Turn the SQUELCH knob counterclockwise until there is a perceptible static sound.
4. Now readjust the VOLUME knob to a comfortable listening level.
5. Adjust the SQUELCH knob slowly until the static sound stops.
   
   **NOTE:** It may be necessary to readjust the SQUELCH knob to block weak and intrusive transmissions.

At this time, the unit will automatically scan through the channels regardless of whether or not you have programmed in any frequencies.

**Programming Frequencies**

There are two ways to find frequencies to program into your scanner’s memory - manual and direct entry.

**Manual Entry**

An RCA Frequency Guide has been packed with your scanner to give you some guidance on what frequencies are active in your area that you can manually enter into your scanner’s memory.

Some other ways to find active frequencies:
- local amateur radio clubs;
- local electronic shops;
- local fire/police departments;
- the Internet.

**Special Note**

Your scanner can receive frequencies that lie mainly within its “line of sight,” meaning you probably will not be able to receive communication from beyond the visible horizon.
USING THE SCANNER

STORING SPECIFIC FREQUENCIES IN CHANNELS
You scanner is capable of storing up to 200 frequencies via 20 channels in each of its 10 channel storage banks.

To program frequencies:
1. Press MANUAL and wait for MAN to appear in the display.
2. Enter the channel (1-200) into which you want to program a frequency.
3. Press PGM and wait for it to appear in the display.
4. Enter the frequency of your choice, remembering to include the decimal point when necessary.
5. Press ENTER to store the frequency.
6. Repeat Steps 2-5 to program additional channels.

NOTES: Should you make an incorrect entry, Error will show in the display. Simply press the CLEAR button and repeat Steps 4-5.

After entering the channels of your choice, the scanner will automatically scan the most recently stored channel.

DIRECT ENTRY
There are two ways to directly enter frequencies into your scanner’s memory - limit and direct search.

LIMIT SEARCH
In this mode, the scanner will search up from a selected lower frequency limit or down from a selected higher frequency limit.

To begin a limit search:
1. Press the PGM button and then the LIMIT button. Lo will appear on the display.
2. Key in the lowest frequency in the search range and press the ENTER button.
Using the Scanner

3. Press the LIMIT button. *Hi* will appear in the display.

4. Key in the highest frequency in the search range and then press the ENTER button.

5. Choose the direction you want to search in (▲ or ▼) and press the appropriate button. -L- and SRCH will appear in the display and an indicator will flash beneath the next available monitor memory.

   NOTE: When the scanner has exhausted the search range, it will begin again.

Direct Search

In this mode, the scanner begins at a specified frequency and scans up or down.

1. Press the MANUAL or PGM button to enter the specific frequency.

   If starting from a stored channel, press the MANUAL or PGM button, enter the specific channel number and then press the MANUAL or PGM button again.

2. Press either ▲ or ▼ buttons to begin the search in the direction of your choice. -d- and SRCH will appear in the display and an indicator will flash beneath the next available monitor memory.

   NOTE: When the scanner has exhausted the search range, it will begin again.

Temporarily Saving Active Frequencies

Your scanner has 10 temporary memory locations, called monitor memories, where you can hold active frequencies found during a search that you or may not choose to later store in a permanent channel.
**NOTE:** Remember that the monitor memories are not scannable. If you decide you want to store an active frequency, you will have to move it to one of your scanner's 200 permanent stored channels. (See “Moving a Frequency From Monitor Memory to a Permanent Channel.”)

**To store a frequency:**

When the scanner stops on an active frequency and you want to temporarily save it, press the MON button to store it in the monitor memory with the flashing indicator beneath it. If you do not want to save the active frequency, press either ▲ or ▼ to continue the search.

**Retrieving a monitor memory**

Since you cannot scan monitor memories, you must manually select the frequency you want to hear.

1. Press the MANUAL button.
2. Press the MON button.
3. Press the number key of the monitor memory location you want to hear.

**Moving a frequency from monitor memory to a channel**

When you decide you want to store one of the active frequencies you have temporarily held in monitor memory, your scanner has permanent storage locations, called channels.

1. Press the MANUAL button and then enter the channel number into which you want to store the monitor frequency.
2. Press the PGM button, then the MON button and then enter the number of the monitor memory location that has the frequency you want to permanently store.
Using the Scanner

3. Press ENTER to lock in your choice.

Scanning Stored Channels

To scan through all the stored, unlocked channels in the selected banks, press the SCAN button.
Adjust the SQUELCH knob to resume scan if the scanner stays on a frequency after the transmission has ended.

Using Channel Storage Banks

Your scanner automatically groups channels into storage banks as you enter in frequencies. For example, if you program a frequency into Channel 3, it is automatically stored in Bank 1.
This feature enables you to group like frequencies together, such as all police or all fire, into one bank for easy retrieval.
You can turn specific storage banks on or off, thus affecting the time and speed with which the unit scans. If the bank is turned on, the unit will scan any and all channels within the bank that you have not locked out. If the bank is turned off, the unit will not scan any of the channels stored within the bank.
To turn a bank on or off, press its number key while scanning.

Notes: One storage bank must be active at all times.
You can manually choose a channel within a bank even if that bank has been turned off.

<table>
<thead>
<tr>
<th>BANK</th>
<th>CHANNELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1-20</td>
</tr>
<tr>
<td>2</td>
<td>21-40</td>
</tr>
<tr>
<td>3</td>
<td>41-60</td>
</tr>
<tr>
<td>4</td>
<td>61-80</td>
</tr>
<tr>
<td>5</td>
<td>81-100</td>
</tr>
<tr>
<td>6</td>
<td>101-120</td>
</tr>
<tr>
<td>7</td>
<td>121-140</td>
</tr>
<tr>
<td>8</td>
<td>141-160</td>
</tr>
<tr>
<td>9</td>
<td>161-180</td>
</tr>
<tr>
<td>10</td>
<td>181-200</td>
</tr>
</tbody>
</table>
SELECTING CHANNELS MANUALLY

It is possible to constantly monitor one frequency for an unspecified amount of time without scanning.

For example, you might stumble onto an exciting exchange between police officers in a foot pursuit. Because there will be periods of silence between the officers' transmissions to one another, you will have to manually select this frequency or risk the scanner taking an inopportune moment of silence to start scanning for more active frequencies.

- If the scanner is scanning and lands on the frequency you want to monitor, quickly press the MANUAL button.

- If the scanner is scanning and you know the channel you want to monitor, press the MANUAL button to stop the scan. Enter the channel number and press the MANUAL button again.

- If the scanner is not scanning, enter the number for the channel you want to monitor and press the MANUAL button again.

  NOTE: Do not press the MANUAL button additional times unless you want to step through the channels.

USING DELAY

Some agencies use two-way radios that allow for pause between transmissions. To avoid missing the reply to a query, your scanner has been equipped with a Delay button that allows you to pause on a specific frequency for longer than the scanner would normally allow.

To activate Delay for a specific channel, select the stored channel and press DELAY until DLY appears in the display. The scanner will now pause for two additional seconds before resuming its scan after the end of the transmission on that frequency.
Using the Scanner

To use Delay for an active channel found during a scan or frequency search, press DELAY quickly while the frequency is still active. DLY will appear in the display.

To turn off the Delay feature, press the DELAY button while the frequency is still active. DLY will disappear from the display.

Using Keylock

After programming your scanner, you can eliminate accidental program or functional changes by locking the keypad. To do so, slide the KEYLOCK switch in the direction of the arrow. The only usable buttons while this function is active are LIGHT, MANUAL, SCAN, SQUELCH and VOLUME.

To turn the keylock function off, simply slide the KEYLOCK switch in the opposite direction of the arrow.

Using Channel Lockout

In the interest of speed, you can lock out channels that you have not programmed yet or that transmit continually. Once you do so, the scanner will automatically skip this channel when scanning.

1. Press the MAN button. MAN will appear in the display.
2. Enter the channel number you want to lock out.
3. Press the MANUAL button again.
4. Press the L/OUT button. L/O will appear in the display.

If you want to hear a channel you have locked out, simply select it manually. You cannot lockout all the channels; at least one channel must remain active.
**Using the Scanner**

To remove a lock on a channel:
1. Manually select the channel.
2. Press L-OUT. The L/O should disappear from the display.

**Using Priority Scan**

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. A P will appear in the display on the left whenever the scanner switches to the priority channel.

1. Press the PGM button.
2. Enter the channel number.
3. Press the PRI button.

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 AM/FM Receive Modes**

Your scanner is preset to the most common receive mode for each frequency range.

<table>
<thead>
<tr>
<th>FREQUENCY BAND (MHz)</th>
<th>RECEIVE MODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.000 - 54.000</td>
<td>FM</td>
</tr>
<tr>
<td>118.000 - 136.975</td>
<td>AM</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FREQUENCY RANGE (MHz)</th>
<th>RECEIVER MODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>137.000 - 174.000</td>
<td>FM</td>
</tr>
<tr>
<td>380.000 - 512.000</td>
<td>FM</td>
</tr>
<tr>
<td>806.000 - 960.000</td>
<td>FM</td>
</tr>
</tbody>
</table>
In most instances, the preset mode is correct. But some military, ham or government organizations do not use the preset mode. If you are able to receive a transmitted communication when the scanner is not set to the correct preset mode, it may sound distorted and weak.

To reprogram the preset mode, press the AM/FM button. AM or FM will flash in the display to indicate that the mode has been changed.

**NOTE:** If you change a frequency band’s receive mode during a search, the scanner will not use the preset receive modes. It will now search in the bands in the selected mode.
**Troubleshooting Tips**

**Resetting the Scanner**

In a few instances, it may be necessary to reset your scanner:

- the display may lock up after the installation of new batteries or the connection to an external power source, or
- the scanner refuses to enter or exit a mode.

Consider resetting the scanner only after ruling out the possibility of low batteries or incorrect programming.

Resetting the scanner clears all the programmed modes and functions, but retains any information stored in the 10 monitor memories and/or the 200 channel memories.

**To reset:**

1. Make sure the scanner is ON.
2. Press RESET button on the side of the scanner with a pointed object, such as a straightened paper clip, until the entire display is blank.

If the above steps fail to reset your scanner, you may have to initialize it. **Do this only if you are sure resetting the scanner has not worked.**

**Initializing the Scanner**

Initializing the scanner permanently erases all stored programs, functions and any information in the scanner's monitor or channel memories.

**To initialize:**

1. Make sure the scanner is ON.
2. Press and hold the CLEAR button.
3. Quickly press and release the RESET button.
4. When the display disappears, release the CLEAR button.
**Equipment Specifications**

- **Operational Channels**: 200 channels plus 10 monitor memories
- **Sensitivity**: FM - 20 dB signal-to-noise ratio at 3 kHz deviation;
  - 30-54 MHz: 1 uV
  - 118-136.975 MHz: 1 uV
  - 137-174 MHz: 1 uV
  - 380-512 MHz: 1 uV
  - 806-960 MHz: 2 uV
- **AM-20 dB Signal-to-Noise Ratio at 60% Modulation**:
  - 30-54 MHz: 2 uV
  - 118-136.975 MHz: 2 uV
  - 137-174 MHz: 2 uV
  - 380-512 MHz: 2 uV
  - 806-960 MHz: 4 uV
- **Spurious Rejection**: (FM at 154 MHz) 40 dB
- **Selectivity**:
  - +/- 10 kHz: -6 dB
  - +/- 20 kHz: -50 dB
- **IF Interference Ratio**:
  - 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/sec
- **Delay Time**: 2 sec
- **IF Frequencies**: 257.5, 21.4 and .455 MHz
- **Frequency Coverage**:
  - 30-50 MHz (in 5 kHz steps)
  - 118.0000-136.975 MHz (in 25 kHz steps)
  - 137.0000-512.0000 MHz (in 5 kHz steps)
  - 380.0000-512.0000 MHz (in 12.5 kHz steps)
  - 806.0000-823.9875 MHz (**)
  - 849.0125-868.9875 MHz (**)
  - 894.0125-960.0000 MHz (**)
- **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**: 180 mW nominal (10% THD)

- **Built-in Speaker**: 1 3/8" (36 m/m) 8 ohm, dynamic
- **Power Req**: +9V DC, 6 AA batteries or a suitable adapter (negative ground only)
- **Current Drain**: (Squelch) 95 mA
- **OP Temp**: +14 F to +140F (-10C to +60C)
- **Dimensions**: 5 3/4 x 2 1/4 x 1 3/4" (HWD)
- **Weight**: approx. 8.8 oz (250 g) without antenna

Additional frequencies not found in Frequency Guide:
- 118-136.975 MHz: aircraft
- 806-823.9875 MHz: conventional systems
- 849.0125-865.9875 MHz: conventional/trunked
- 866.000-868.9876 MHz: public safety
- 894.0125-896.000 MHz: aircraft passenger telephones (AM)
- 896.0125-960 MHz: trunked

---

21
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_______________________________________
Symbols
- d- 10, 13
- L- 10, 13

A
AC adapter 5, 6
AC power 5
Adjusting volume & squelch 11
AM/FM 9, 10, 18, 19
ANT jack 7
Antennas 7

B
Batteries 4
Battery saver 8
Belt clip 8
Broadcast 2

C
Care and maintenance 22
CH 10
Channel 2
Channel storage bank 2
Charging batteries 6
CHG jack 5, 6
CLEAR 9, 12, 20
Connecting the antenna 7

D
DC adapter 6
DELAY 9, 16, 17
Display messages 10
DLY 10, 16, 17

E
ENTER 9, 12, 13, 15
Equipment specifications 21
Error 12

F
Frequency 2

H
Headphones/earphones 7

I
Important battery information 4
Initializing the scanner 20

K
KEYLOCK 9, 17

L
L/O 10, 17, 18
L/OUT 9, 17, 18
LIGHT 8, 9, 17
LIMIT 9, 12
Limited Warranty 24

M
MAN 10, 12, 17
MANUAL
9, 12, 13, 14, 16, 17
Memory locations 13
MON 9, 10, 14
Monitor memories 2, 13
Moving a frequency from monitor memory to a channel 14

N
Nickel-cadmium rechargeable batteries 4
NUMBERS 9

O
Optional antennas 7

P
P 10
PGM 9, 10, 12, 13, 14, 18
PHONES 7
Powering the scanner 4
PRI 9, 10, 18
Priority scan 18
PWR jack 5, 6

R
RESET 20
Resetting the scanner 20
Retrieving a monitor memory 14

S
SCAN 9, 10, 15, 17
Scan 2
Scanner Customer Service Line 24
Scanning stored channels 15
Search 2
Selecting channels manually 16
Service information 22
Signal 2
SQUELCH 2, 11, 15, 17
SRCH 10, 13

T
Temporarily saving active frequencies 13
Transmission 2
Troubleshooting tips 20

U
Using adapters 5
Using channel lockout 17
Using delay 16
USING Keylock 17
Using priority scan 18
Using the AM/FM receive modes 18
Using the light 8

V
VOLUME 11, 17
LIMITED WARRANTY

What your warranty covers:
• Any defect in materials or workmanship.

For how long after your purchase:
• One year. (The warranty period for rental units begins with the first rental or 45 days from date of shipment to the rental firm, whichever comes first.)

What we will do:
• Provide you with a new or, at our option, a refurbished unit.
• The exchange unit is under warranty for the remainder of the original product's warranty period.

How to make a warranty claim:
• Properly pack your unit. Include any cables, etc., which were originally provided with the product. We recommend using the original carton and packing materials.
• Include in the package evidence of purchase date such as the bill of sale. Also print your name and address and a description of the defect. Send standard UPS or its equivalent to:
  Thomson Consumer Electronics, Inc.
  Product Exchange Center
  32 Spur Drive
  El Paso, Texas 79906
• Insure your shipment in case of loss or damage. Thomson accepts no liability in case of damage or loss.
• Pay any charges billed to you by the Exchange Center for service not covered by the warranty.
• A new or refurbished unit will be shipped to you prepaid freight.

What your warranty does not cover:
• Customer instruction. (Your Owner's Manual provides information regarding operating instructions and user controls. For additional information, ask your dealer.)
• Installation and setup service adjustments.
• Batteries.
• Damage from misuse or neglect.
• Products which have been modified or incorporated into other products.
• Products purchased or serviced outside the USA.
• Acts of God, such as but not limited to lightning damage.

How state law relates to this warranty:
• This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

If you purchased your product outside the USA:
• This warranty does not apply. Contact your dealer for warranty information.

NEED HELP?
If you need any help with this product, please contact our Scanner Customer Service Line at: 1-888-SCAN-4-RCA.