



20-136  
PRO-136

## Desktop Radio Scanner

*Thank you for purchasing your 200 Channel Desktop Radio Scanner from RadioShack. Please read this user's guide before installing, setting up and using your new scanner.*



**Note:**  
Wording required for FCC PART  
15.21 is shown in page 25.

### What's Included

- Scanner
- AC adapter
- Antenna
- User's guide
- Preprogrammed frequency list
- Quick start guide

[www.radioshack.com](http://www.radioshack.com)

# Contents

<b>Scanner Setup .....</b>	<b>4</b>
Scanner Features .....	4
Connecting the Antenna.....	6
Powering Your Scanner.....	6
Installing Batteries.....	6
Battery Notes .....	7
Recycle Rechargeable Batteries.....	7
Scanner Placement.....	7
Connecting Headphones .....	8
Listening Safely .....	8
Connecting the External Alert Out .....	8
Understanding Your Scanner .....	8
Turning on the Scanner.....	9
Setting the Clock/Alarm.....	9
Alarm Function .....	10
Programming Frequencies into Channels .....	10
<b>Searching .....</b>	<b>12</b>
Fine Tune.....	12
Service Bank Search.....	12
Storing Frequencies Found During a Search .....	13
Search Skip Memory.....	13
Search Speeds .....	14
<b>Scanning.....</b>	<b>15</b>
Scanning Stored Channels.....	15
Manually Selecting a Channel.....	15
Weather Scan.....	16

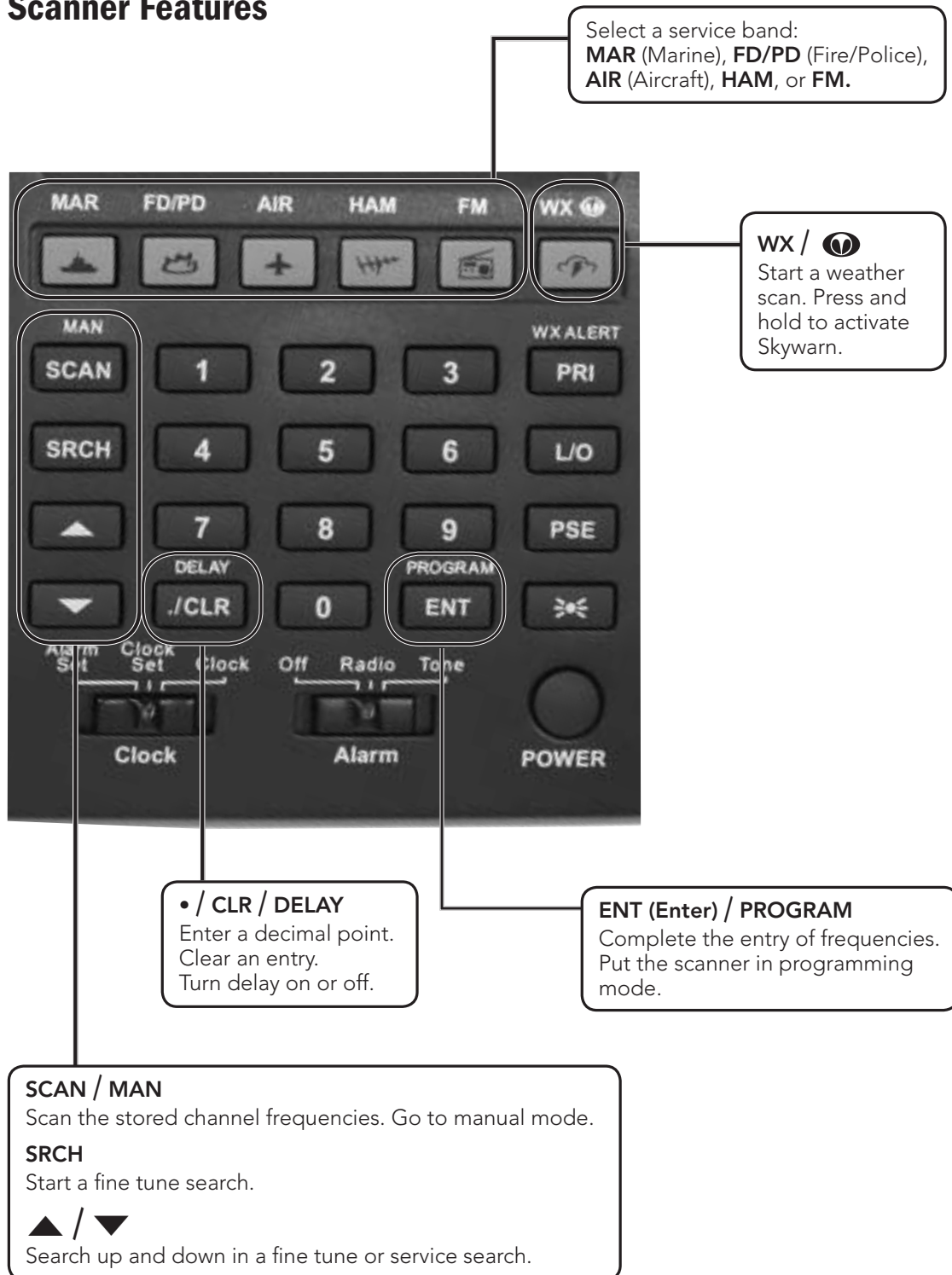
## Contents

Receiving NWR-SAME and Weather Alert Signals .....	16
Turning On the Digital Weather Alert Feature .....	16
Receiving Alerts in Standby Mode.....	17
Testing the Weather Alarm.....	17
Programming Alerts for a Specific County.....	17
Programming FIPS .....	17
Skywarn .....	18
About Skywarn .....	19
<b>Settings .....</b>	<b>20</b>
Setting Delay.....	20
Turning Channel-Storage Banks On or Off.....	20
Locking Out Channels.....	20
Setting Priority .....	21
Using the Display Backlight .....	21
<b>Advanced Programming .....</b>	<b>22</b>
Cloning Your Scanner.....	22
Wired Programming.....	23
<b>Additional Information.....</b>	<b>24</b>
FCC Notice .....	24
Scanning Legally.....	24
Care .....	25
Service and Repair .....	25
Specifications .....	25
Troubleshooting .....	27
Resetting your Scanner .....	27

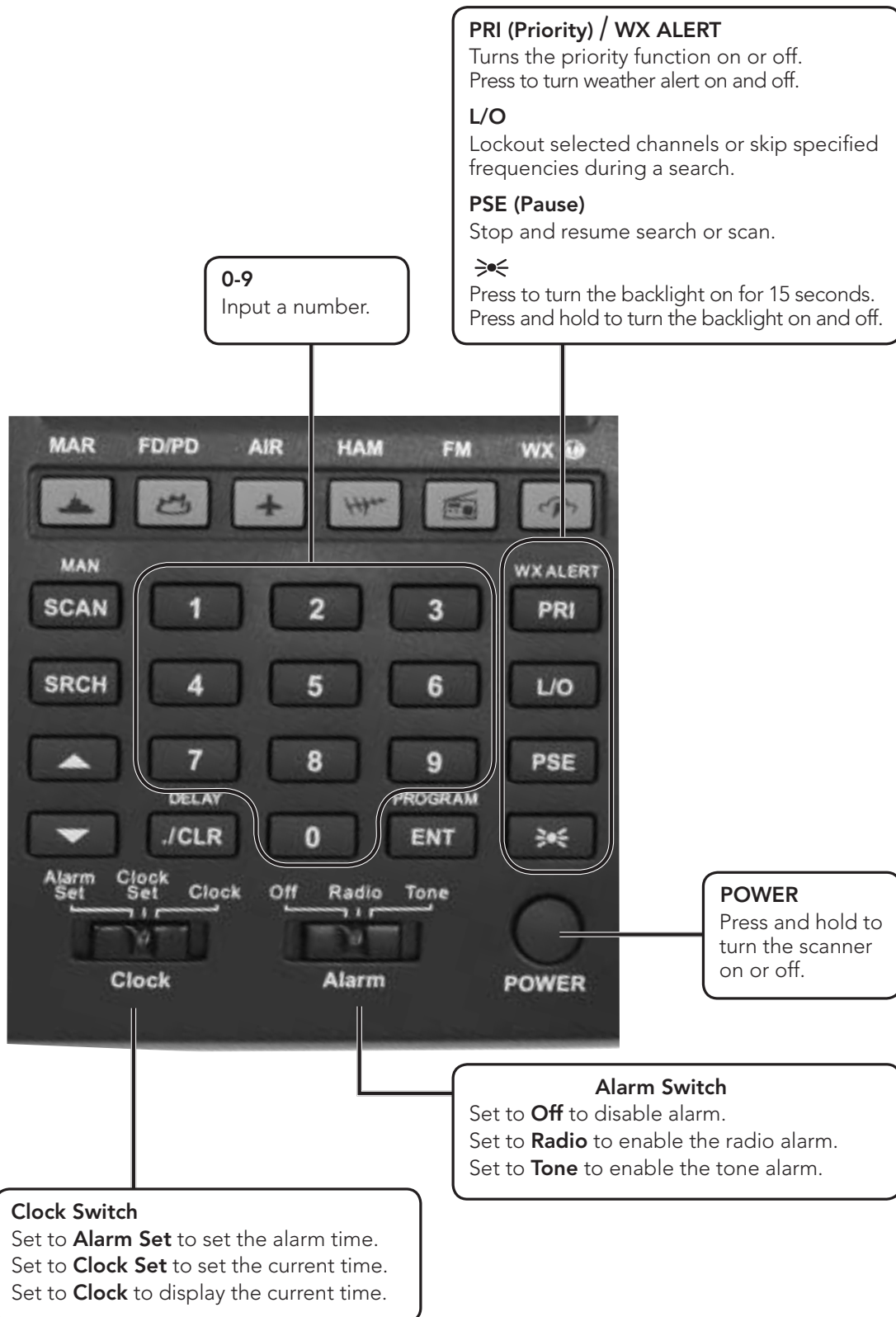
# Scanner Setup

## Scanner Setup

### Scanner Features



## Scanner Setup



## Scanner Setup

### Connecting the Antenna

Attach the supplied antenna to the scanner by aligning the arrow on its base with the tab on the scanner's BNC connector and then pressing into place.

When using an external antenna, always connect with 50-ohm, RG-58, or RG-8 coaxial cable. If the antenna is over 50 feet from the scanner, use RG-8 low-loss dielectric coaxial cable. If your antenna's cable does not have a BNC connector, your local RadioShack store carries a variety of BNC adapters.



DC 12V Jack

### Powering Your Scanner

Insert the supplied AC adapter's barrel plug into the power jack on the back of the scanner. Plug the adapter into a standard household outlet that supplies 120V AC, 60Hz. Do not plug the adapter into a switch-controlled outlet.

### Installing Batteries

1. Remove the battery compartment cover.
2. Insert three AA batteries (not included) into the battery compartment, matching the polarity symbols (+ and -) marked inside.
3. Replace the cover.



### Battery Notes

- Use fresh alkaline AA batteries.
- Rechargeable batteries can be used, but battery life is shorter than with alkaline batteries. The scanner will not recharge batteries in the compartment.
- Always remove old or weak batteries. Batteries can leak chemicals that destroy electronic circuits.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.
- The batteries are intended to provide backup power for the clock and for scanning for a short time. When the backup batteries becomes too low, **BATT** appears. Promptly replace the batteries.
- When you either install batteries or connect the AC Adapter to a standard wall outlet, the scanner powers on and goes to STANDBY mode. The display shows the initial clock time of 12:00 AM. The scanner remains in STANDBY mode.

### Recycle Rechargeable Batteries



Placing rechargeable batteries in the trash can be harmful to the environment. Instead, recycle old rechargeable batteries at your local *RadioShack* store free of charge. *RadioShack* participates in the RBRC® battery recycling program, and is committed to preserving the environment and conserving natural resources. Call 1-800-THE-SHACK (1-800-843-7422) for more information.

### Scanner Placement

- Do not use the scanner in high-moisture environments such as the kitchen or bathroom.
- Avoid placing the scanner in direct sunlight or near heating elements or vents.
- If your scanner receives interference or electrical noise, move the scanner or its antenna away from the source. You might also try changing the height or angle of the antenna.

# Scanner Setup

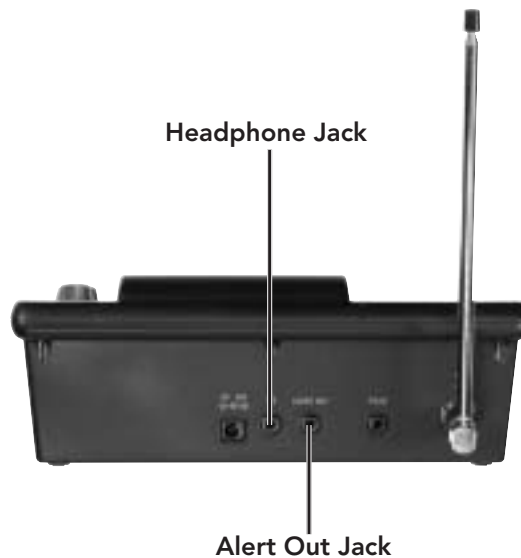
## Connecting Headphones

For private listening, you can plug a mono earphone or headset into the Headphone Jack on the back of your scanner. This automatically disconnects the internal speaker. Note that the sound is not in stereo.

## Listening Safely

To protect your hearing, follow these earphone or headphones guidelines:

- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.
- Set the volume to the lowest setting before listening. Turn on the scanner, and adjust the volume to a comfortable level.
- After you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.



## Connecting the External Alert Out

To provide additional alerting options for the weather alert, connect a switch-closure activated device such as a strobe or siren controller (not supplied). The device can be up to 200mA, AC/DC 20V and must have a 3.5mm mono plug cable. Plug the device into the Alert Out Jack on the back of your scanner.

## Understanding Your Scanner

We use a few simple terms in this manual to explain the features of the scanner. Familiarize yourself with these terms and the scanner's features, and you can put the scanner to work for you right away.

The scanner scans conventional frequencies. A **frequency**, expressed in MHz, is the tuning location of a station. To find active frequencies, use the **search** function or consult an online resource such as [www.radioreference.com](http://www.radioreference.com).



Besides searching within a selected frequency range, you can also search your scanner's service banks. **Service banks** are preset groups of frequencies categorized by the type of services that use those frequencies. The scanner is preprogrammed with all the frequencies allocated to the Marine, Aircraft, Police (Fire/Emergency), Ham and FM services.

When you search and find a desired frequency, you can store it into a programmable memory location called a channel. **Channels** are grouped into **channel-storage banks**. Your scanner has 10 channel-storage banks (numbered 0-9). Each bank contains 20 channels (numbered 0-19), for a total of 200 channels. You can **scan** the channel storage banks to see if there is activity on the frequencies stored there.


**Note:** Search for frequencies to find your local frequencies, after you have programmed these frequencies into channels, you can scan the channels.

Use each channel-storage bank to group frequencies. For example, the police department might use four frequencies in your town while the fire department uses an additional four. You could program the police frequencies in bank 0, and program the fire department frequencies in bank 1.

### Turning on the Scanner

1. Turn **SQUELCH** fully counterclockwise.
2. Press and hold the **POWER** button to turn on your scanner. Turn up the **VOLUME** until you hear a hissing sound.
3. Turn **SQUELCH** clockwise until the hissing stops.

**Note:** Make sure the antenna is connected before you turn on the scanner.

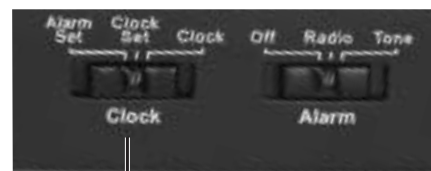
To perform a quick check of scanner operation, press the **WX**  key. If you are near a NOAA weather station, you should hear weather information.

### Setting the Clock/Alarm

Your scanner's clock displays whenever you turn off the radio functions. It can also be used as an alarm clock.

To set the clock time:

1. Slide the **Clock Switch** to **Clock Set**.



## Scanner Setup

2. The hour digits flash. Press ▼ or ▲ or press the number keys to enter the hour. Then press **ENT/PROGRAM** to set.
3. The minutes digits flash. Press ▼ or ▲ or press the number keys to enter the minutes. Press **ENT/PROGRAM** to set.

*Note: When setting the clock minutes, the seconds digits are reset to 00 to enable accurate time adjustment.*

4. AM/PM flashes. Press ▼ or ▲ to select **AM** or **PM**. Press **ENT/PROGRAM** to set.
5. To save your selection, slide the **Clock Switch** to **Clock**.
6. To set the alarm, slide the **Clock Switch** to **Alarm Set** and repeat steps 2-5.



### Alarm Function

- Slide the **Alarm Switch** to **Tone**, if you want the alarm to sound a tone at the set time.
- Slide the **Alarm Switch** to **Radio** if you want the alarm to sound with the channel that was previously selected in Scan Mode. The radio alarm will only sound in Standby Mode.
- To silence the alarm, slide the **Alarm Switch** to **Off**. If you do not turn off the alarm, it will sound for 20 minutes then reset to alert you again the following day.

## Programming Frequencies into Channels

Before the scanner can begin to scan, you must program a frequency into at least one channel.

To locate and store specific frequencies into channels for later use:

1. From Scan Mode, press **SCAN/MAN** to stop scanning.
2. Press **ENT/PROGRAM** to put the scanner in programming mode. PGM appears.
3. Use the number keys to enter both the channel storage bank and the channel number you want to assign to a frequency.
4. Press **SCAN/MAN**.



**Example shows entering bank 1 channel 00.**

**Note:** *If you entered an invalid bank or channel number, Error appears and the scanner beeps. Enter a valid bank or channel.*

5. Use the number keys to enter the frequency, pressing **•/CLR/DELAY** for the decimal point.
6. Press **ENT/PROGRAM** to store the frequency into the channel.
7. To program the next channel in sequence, press **▲** or **▼** and repeat Steps 5 and 6.

**Notes:**

- If you entered an invalid frequency in Step 5, Error appears and the scanner beeps. Enter a valid frequency.
- If you entered a frequency in Step 5 that already exists on another channel, the scanner beeps and displays that channel. Press **•/CLR/DELAY** to clear the display, or press **ENT/PROGRAM** to store the frequency in both channels.
- The scanner automatically rounds the entered number to the nearest valid frequency. For example, if you enter 151.473 (MHz), your scanner accepts it as 151.475.
- After a transmission, the scanner automatically pauses for 2 seconds on the channel before proceeding to the next active transmission. Press **•/CLR/DELAY** to turn the delay function on or off. The scanner stores this setting in the channel.

If you do not have a list of frequencies in your area, you can use a fine tune or service search to find transmissions. You can also use an online resource such as [www.radioreference.com](http://www.radioreference.com).

# Searching

## Searching

Use the search function to find active frequencies.

While doing a fine tune or service bank search, press **•/CLR/DELAY** to turn the 2-second delay on or off.

### Fine Tune

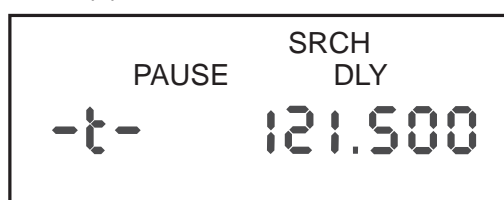
You can search up or down from the currently displayed frequency using a fine tune search. Searching stops when a transmission is found and resumes after the transmission ends (searching resumes after two seconds if delay is on).

1. When the frequency you want to start from appears, press **SRCH**.

Or, from search pause mode, enter a frequency using the number keys, then press **SRCH**.

**Note:** If you enter an invalid frequency, the scanner beeps and displays Error.

2. SRCH, PAUSE, and -t- appear.



3. Press ▼ or ▲ to move up or down one frequency step. Or press **SRCH** to start the fine tune search.
4. Press ▼ or ▲ to change search direction.
5. Press **PSE** to pause the search.

### Service Bank Search

The scanner is preprogrammed with all the frequencies allocated to Marine, Police (Fire/Emergency), Aircraft, Ham, and FM radio transmissions.

To search the service banks, press **MAR, FD/PD, AIR, HAM, or FM**. The current service symbol appears and the scanner starts searching. To select a different service bank, press desired **MAR, FD/PD, AIR, HAM or FM**.

**Note:** Because there are many different frequencies allocated to Ham and Aircraft, it can take several minutes to search all the service frequencies.

## Storing Frequencies Found During a Search

To store frequencies you find in a fine tune or service bank search:

1. Press **PSE** at the frequency you want to store.
2. Press **ENT/PROGRAM** to enter programming mode.
3. The screen flashes, alternating between the smallest empty channel number in the current bank, 000.000, and the frequency you want to store.



4. If you want to change the bank, enter the bank number using the number keys.

**Note:** *If there are no empty channels, the scanner selects the first channel in the bank.*

5. If you want to change the channel, Press ▼ or ▲.
6. Press **ENT/PROGRAM** to store the frequency or **•/CLR/DELAY** to cancel.

**Note:** *If the same frequency already exists on another channel, the scanner beeps and displays that channel. Press **•/CLR/DELAY** to cancel, or press **ENT/PROGRAM** to store the frequency in both channels.*

## Search Skip Memory

You can skip up to 50 unwanted frequencies during a fine tune or service bank search.

**Note:** *You cannot skip frequencies during WX service search.*

To skip a frequency, press **L/O** when the scanner stops on the frequency during a search. The scanner stores the locked-out frequency in memory and automatically resumes the search.

To clear a single frequency from skip memory:

1. Press **PSE** to stop the search.
2. Press ▼ or ▲ to select the frequency. L/O appears.

## Searching

3. Press **L/O**. L/O disappears.

To clear all skipped frequencies at once:

1. While searching, press **PSE**.
2. Hold down **L/O** until the scanner beeps twice.

### Notes:

- If you select more than 50 frequencies to skip, each new frequency replaces a frequency previously stored, beginning with the first stored frequency.
- Press ▼ or ▲ to select a skipped frequency during pause. L/O appears when you select a skipped frequency.

## Search Speeds

The scanner has two search speeds: Normal search at 55 steps/second and Hypersearch at 125 steps/second.

Hypersearch applies only to the 5 kHz step bands (25–27.995 MHz, 28–54 MHz, and 137–174 MHz).

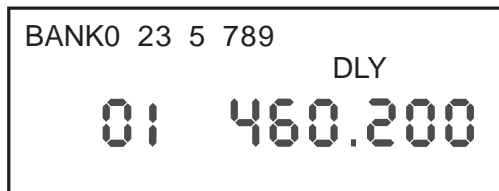
## Scanning

### Scanning Stored Channels

Press **SCAN/MAN** to begin scanning your programmed frequencies. SCAN scrolls across the display and the scanner scans through all non-locked channels in the activated banks.

Select any combination of banks to scan by pressing the corresponding number keys. The bank numbers appear at the top of the display. The bank number which is currently being scanned blinks.

When the scanner finds a transmission, it stops on it.



When the transmission ends, the scanner resumes scanning. If it is a long transmission and you want to move on, press **▲** to resume scanning. If you press **PSE** when the scanner stops on a transmission, the scanner goes to manual mode. Press **PSE** or **SCAN/MAN** to resume scanning.

#### Notes:

- If you have not stored any frequencies into channels, the scanner does not scan.
- If the scanner picks up unwanted partial or weak transmissions, turn **SQUELCH** clockwise to decrease the scanner's sensitivity to these signals.
- To listen to a weak or distant station, turn **SQUELCH** counterclockwise.
- To ensure proper scanning, adjust **SQUELCH** until the audio mutes.

### Manually Selecting a Channel

You can continuously monitor a single channel without scanning. This is useful if you want to monitor a specific channel or if you hear an emergency broadcast and do not want to miss any details, even though there might be periods of silence.

To directly access a channel:

1. Press **SCAN/MAN** to stop scanning.
2. Enter the bank and channel number and press **SCAN/MAN**. The selected channel appears.


## Scanning

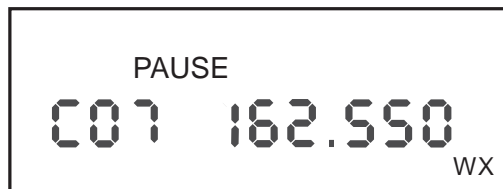
To stop at a channel while scanning:

1. Press **SCAN/MAN** to stop scanning.
2. Press ▼ or ▲ to select the next or previous channel.
3. Press **SCAN/MAN** to resume scanning.

## Weather Scan

To scan for weather transmissions:

1. Press **WX**/. WX appears. Change the scan direction by using ▼ or ▲.
2. To stop the scan, press **PSE**. PAUSE appears.




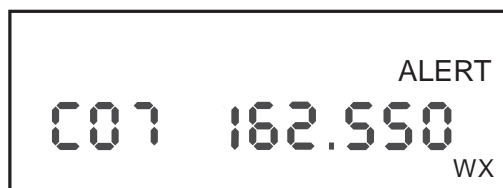
## Receiving NWR-SAME and Weather Alert Signals

The National Oceanic and Aerospace Administration (NOAA) broadcasts alerts that include digitally encoded data. The severity of the alert is identified using Specific Area Message Encoding (SAME). The scanner displays the SAME alert level and sounds an alert for each level: Warning level, Watch level, or Advisory level.

To program your scanner to alert you when the weather service issues an alert, turn on the alert feature and then leave the scanner monitoring the weather service in Manual Mode. You cannot scan weather channels and monitor for weather alerts at the same time.

## Turning On the Digital Weather Alert Feature

1. Press **WX**/ to start the weather scan.
2. Press **PRI/WX ALERT**. ALERT appears. This mutes the audio until the scanner receives a SAME-coded signal.






When the scanner receives a SAME-coded signal, ALERT flashes and the SAME alert level appears, alternating with the weather channel. The scanner will also output an alert signal to the external alert output jack. The scanner remains on the weather channel and the audio turns on so you can hear the weather broadcast.

## Receiving Alerts in Standby Mode

The scanner can receive alerts even if it is in standby mode (power off). To receive alerts in standby mode, first turn on the Digital Weather Alert Feature and then press **POWER** to turn the scanner off. The display indicates the weather channel being monitored for alerts. If an alert is received, the scanner sounds an alert tone and the SAME alert level is displayed.

To have an external device activate during an alert, plug it into the Alert Output Jack on the back of the scanner.

## Testing the Weather Alarm

To hear and test the tones for the three alert levels, press **WX/**  to select the weather service, then hold down **PRI/WX ALERT** for about one second. The tones sound in the order of Advisory level, Watch level, then Warning level. Press any key to end the test sequence.

## Programming Alerts for a Specific County

To specify a county, SAME uses a standard established by the US Census bureau, called FIPS. The format of a FIPS code is "PSSCCC," where:

P = area subdivision (0=entire area)

SS = State code (00=all states)

CCC = County code (000=all counties)

For example, the FIPS code for Tarrant County, Texas is: 048439 (0=entire area; 48=Texas; 439=Tarrant County).

To limit weather alerts to a specific area, you must program in the FIPS codes for the areas you want to receive alerts. The scanner can be set to either alert for all areas, or only an area you have programmed.

## Programming FIPS

1. Press **WX**. And then press **PSE** to go to the Weather Scan Pause Mode.
2. Press and hold **ENT/PROGRAM** to go to the FIPS Programming Mode. If the scanner is set to alert for all FIPS, ALL FIPS appears in the display.

## Scanning



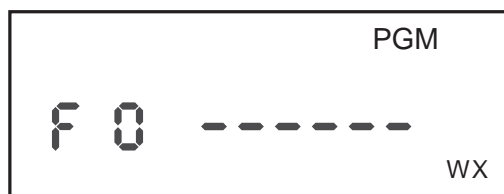
3. Press ▼ or ▲ to select F0 to F14. If a FIPS code is not programmed, ----- appears.
4. Use the keypad to enter the FIPS code.
5. Press **ENT/PROGRAM** to store the FIPS code or press **•/CLR/DELAY** to clear inputted FIPS code.



6. To set the scanner so it alerts you when you receive any FIPS code, press ▼ or ▲ to select All FIPS, then press **ENT/PROGRAM**. The scanner returns to Weather Scan Pause Mode.
7. To set the alert only for one of the areas you have programmed, press ▼ or ▲ to select F0 to F14, then press **ENT/PROGRAM**. The scanner returns to Weather Scan Pause Mode.

To clear a FIPS code:

1. In FIPS Programming Mode, press ▼ or ▲ to select F0 to F14.
2. Press **0** and then press **ENT/PROGRAM**. ----- appears.



## Skywarn

The Skywarn function lets you jump directly to the last channel in memory (Bank 9, Channel 19) from any mode by pressing and holding **WX/📶**. The scanner goes into manual mode and starts receiving transmissions in the last channel.

**Note:** Before using this feature, enter the local Skywarn frequency for your area into Bank 9, Channel 19. (See “**Programming Frequencies into Channels.**”)

The scanner has 10 channels for Skywarn: Bank 9, Channels 10-19. Press ▼ or ▲ to select other Skywarn channels. Press **SCAN/MAN** to exit Skywarn.

**Note:** If no frequencies are programmed in the Skywarn channels, No Prg appears and the scanner sounds an error tone.

## About Skywarn

Skywarn is an organized group of trained weather observers. A Skywarn group exists in virtually every US County with a significant population. During inclement weather, reports made by Skywarn observers include information about:

- Pea-sized and larger hail
- Wind and wind gusts of 40 MPH and greater
- Heavy rainfall
- Lightning (cloud-to-cloud and especially cloud-to-ground)
- Wall clouds seen in severe thunderstorms (which spawn tornadoes)
- Severe lowering of a wall cloud
- Turbulence in a wall cloud
- Funnel clouds
- Tornadoes
- High water areas
- Downed power lines
- Other emergency conditions that affect life or property

Listen to NOAA for weather alerts and warnings, watch box notices, and weather-forecasts. Listen to Skywarn to hear trained observers in your vicinity call in official reports to a net control station which relays those reports to NOAA and other emergency agencies.

**Note:** If you tune to a Skywarn frequency when the Skywarn net is not active, you may hear nothing, or you may hear amateur radio operators talking on a local repeater system.

## Settings

### Setting Delay

Sometimes a radio user might pause before replying to a transmission. To avoid missing a reply on a specific channel, the scanner automatically programs a 2-second delay into any channel or frequency.

Depending on the scanner operation, follow one of these steps to turn the delay on or off.

- To turn off the 2-second delay, press **•/CLR/DELAY** while the scanner is monitoring a channel, scanning, or searching. DLY disappears.
- To turn on the 2-second delay for a single channel, manually select the channel and press **•/CLR/DELAY**. DLY appears.
- To turn on the 2-second delay for the search function, press **•/CLR/DELAY** while the scanner is searching. DLY appears and the scanner automatically adds a 2-second delay to every frequency it stops on in that band.

### Turning Channel-Storage Banks On or Off

You can turn each channel-storage bank on and off. When you turn off a bank, the scanner does not scan any of the 20 channels in that bank.

While scanning, press the number key that corresponds to the bank you want to turn on or off. The scanner scans all the channels within the displayed banks that are not locked out.

#### Notes:

- You can manually select any channel within a bank, even if that bank is turned off.
- One bank must always be active. If you try to turn off all banks, bank 0 remains.

### Locking Out Channels

You can increase the scanning speed by locking out channels that have a continuous transmission (such as a weather channel). To lock out a channel, quickly press **L/O** when the scanner stops on a transmission. Or, manually select the channel and then press **L/O**. L/O appears.

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

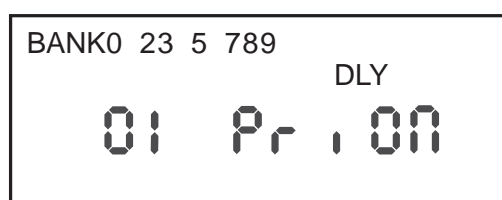
To remove the lockout from a channel, manually select the channel, then press **L/O**. L/O disappears.

To unlock all channels in the selected banks, press **SCAN/MAN** to stop scanning, then hold down **L/O** until the scanner beeps twice.

## Setting Priority

The priority feature lets you scan through the channels and still not miss important or interesting calls on specific channels. You can program one stored channel in each bank as a priority channel. The scanner checks the designated priority channel every two seconds in each bank.

Press **PRI** during scanning to turn the priority feature on and off. Pri ON appears for several seconds when priority is turned on. And Pri OFF appears for several seconds when priority is turned off.



**Note:** If you have locked out all priority channels, All Loc appears when you activate the priority feature.

The scanner automatically designates each bank's first channel (Channel 00) as its priority channel. To select a different channel as the priority channel:

1. From Scan or Manual mode, press **ENT/PROGRAM**.
2. Press **▼** or **▲** to select the channel you want to set as priority, then press and hold **PRI/WX ALERT** until the scanner beeps twice.

Or, enter the bank and channel number you want to set as priority and then press **PRI**.

P appears to the left of the selected channel number.

3. Repeat Steps 1 and 2 for the channel in each bank that you want to program as a priority channel.

## Using the Display Backlight

To turn the display backlight on and off, press and hold **⏻** until the scanner beeps twice.

To turn on the display backlight for only 15 seconds, press **⏻** briefly.

## Advanced Programming

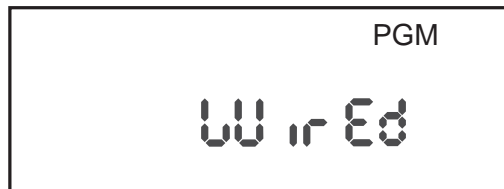
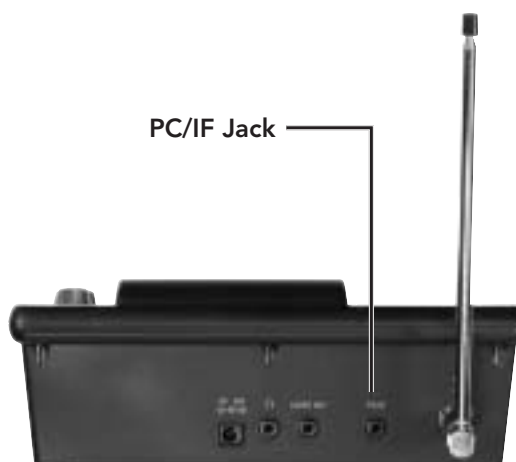
### Advanced Programming

You can clone your scanner by transferring the programmed data to or from another PRO-136 scanner using a connecting cable. You can also upload or download programmed data from a PC through wired programming.

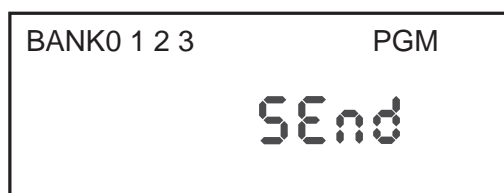
#### Cloning Your Scanner

You can clone all the frequencies in your PRO-136 to another PRO-136 or PRO-135 using an optional interface cable with 1/8-inch phone plugs on both ends.

1. Make sure the scanners are turned off and then plug the cable into each scanner's **PC/IF** jack.
2. Turn on both scanners. WirEd and PGM appear.



3. Press ▼ or ▲ on the scanner from which you want to send frequencies. This is the "master unit." The receiving scanner is the "slave unit."
4. Press **ENT/PROGRAM** on the master unit to send the data. SEnd and the transfer progress are displayed in the master unit.



## Advanced Programming

CLONE and transfer progress are displayed on the slave unit.

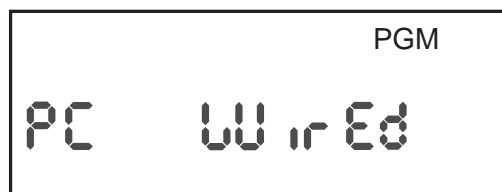


5. When the data transfer is completed, done appears on both units. If the transfer was not successful, Error appears. To clear the error, press **•/CLR/DELAY** and go back to step 2.
6. After the clone operation is complete, remove the cable, turn both units off and then on again.

### Wired Programming

You can transfer programming data to your scanner using your PC, an optional interface cable, and software (available at your local RadioShack or [www.radioshack.com](http://www.radioshack.com)).

1. Make sure your scanner is turned off.
2. Connect the interface cable to your computer and then connect the other end of the cable to the scanner's **PC/IF** jack.
3. Install the software to your computer and run the program.
4. To set up the program, click on **Tools**, select **Configuration**, and select **PRO-136** (if necessary).
5. Turn the scanner on. The scanner automatically goes into the wired programming mode. **Wired** and **PGM** appear. When the scanner begins to communicate with the PC, PC flashes.



6. PC stops flashing when the scanner has successfully received all data. Turn the scanner off and remove the cable.
7. Turn the scanner on again.

## Additional Information

### Additional Information

#### FCC Notice

Your scanner might cause radio or TV interference even when it is operating properly. To determine whether your scanner is causing the interference, turn off your scanner. If the interference goes away, your scanner is causing it. Try the following methods to eliminate the interference:

- Move your scanner away from the receiver.
- Connect your scanner to an outlet that is on a different electrical circuit from the receiver.
- Contact your local RadioShack store for help.

In some areas, mobile use of a scanner is unlawful or requires a permit. Check the laws in your area.

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. (2) This device must accept any interference received, including interference that may cause undesired operation.

#### Scanning Legally

Your scanner covers frequencies used by many different groups including police and fire departments, ambulance services, government agencies, private companies, amateur radio services, military operations, pager services, and wireline (telephone and telegraph) service providers. It is legal to listen to almost every transmission your scanner can receive. However, there are some transmissions you should never intentionally listen to. These include:

- Telephone conversations (cellular, cordless, or other private means of telephone signal transmission)
- Pager transmissions
- Any scrambled or encrypted transmissions

According to the Electronic Communications Privacy Act (ECPA), as amended, you are subject to fines and possible imprisonment for intentionally listening to, using, or divulging the contents of such a transmission unless you have the consent of a party to the communication (unless such activity is otherwise illegal).

This scanner is designed to prevent reception of illegal transmissions, in compliance with the law which requires that scanners be manufactured in such a way as to not be easily modifiable to pick up those transmissions. Do not open your scanner's case to make any modifications that could allow it to



## Additional Information

pick up transmissions that are not legal to listen to. Doing so could subject you to legal penalties.

We encourage responsible, legal scanner use.

### Care

Keep the scanner dry. If it gets wet, wipe it dry immediately. Use and store the scanner only in normal temperature environments. Handle the scanner carefully; do not drop it. Keep the scanner away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

### Service and Repair

If your scanner is not performing as it should, take it to your local RadioShack store for assistance. To locate your nearest RadioShack, use the store locator feature on RadioShack's website ([www.radioshack.com](http://www.radioshack.com)), or call 1-800-THE SHACK (800-843-7422) and follow the menu options. Modifying or tampering with the scanner's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it.

### Specifications

#### Frequency Coverage

25.0000-27.9950 (in 5 kHz steps)

28.0000-54.0000 (in 5 kHz steps)

59.7500, 65.7500, 71.7500, 81.7500, 87.7500 (in 6 MHz steps)

88.000-107.900 (In 100 kHz steps)

108.0000-136.9875 (in 12.5 kHz steps)

137.0000-174.0000 (in 5 kHz steps)

179.7500, 185.7500, 191.7500, 197.7500, 203.7500, 209.7500, 215.7500  
(in 6 MHz steps)

380.0000-399.9875 (in 12.5 kHz steps)

400.0000-512.0000 (in 6.25 kHz steps)

#### Sensitivity (AM/FM)

FM ..... 20 dB S/N at 3 kHz deviation

28.0000-54.0000..... 0.3 $\mu$ V

137.0000-174.0000..... 0.4 $\mu$ V

400.0000-512.0000..... 0.5 $\mu$ V

## Additional Information

AM .....	20 dB S/N at 60% modulation
25.0000-27.9950.....	1.0 $\mu$ V
108.0000-136.9875.....	1.1 $\mu$ V
380.0000-399.9875.....	1.2 $\mu$ V
WMF .....	20 dB S/N at 22.5 kHz deviation
88.000-107.9000 (in 100 kHz steps) .....	0.7 $\mu$ V
TV .....	20 dB S/N at 45 kHz deviation
59.7500, 65.7500, 71.7500, 81.7500, 87.7500 (in 6 MHz steps) .....	0.8 $\mu$ V
179.7500, 185.7500, 191.7500, 197.7500, 203.7500, 209.7500, 215.7500 (in 6 MHz steps) .....	0.8 $\mu$ V
IF Rejection at 453.2500 MHz .....	60 dB
IF Frequencies .....	265.50-60 MHz, 10.80 MHz, 450 kHz
Channels.....	200
Banks .....	10
Operating Temperature .....	14° to 122°F (-10° to 50°C)
Scan Speed .....	53 Channels/Second
Search Speed	
Normal .....	55 steps/second
Hypersearch.....	125 Steps/Second
Antenna Impedance.....	50 $\Omega$
Audio Output.....	1100 mW maximum
Built-in Speaker.....	2.28 Inches (57 mm) 8 $\Omega$
.....	Dynamic Type
Power	
AC Adapter (12V DC; 400mA; center tip positive)	
3 AA Alkaline Batteries (4.5 VDC)	
Current Drain	
Squelched.....	110 mA
Full Output .....	280 mA
Dimensions (HxWxD) 2.3 x 8.4 x 5.8 in (74.7 x 210.2 x 144.7 mm)	
Weight (without antenna or batteries) .....	19.4 oz (550 g)
Specifications are typical; individual units might vary. Specifications and depictions are subject to change and improvement without notice.	

### Troubleshooting

Problem	Cause	Solution
Scanner is on but will not scan.	SQUELCH is not adjusted correctly.	Adjust SQUELCH.
	Only one channel or no channels are stored.	Store frequencies into more than one channel.
Scanner won't work at all.	The AC adapter is not connected.	Be sure the adapter's barrel plug is fully plugged into the DC 12V 400 mA jack.
<b>BATT</b> is flashing.	Batteries are low.	Replace batteries.
<b>BATT</b> shows (not flashing).	Batteries are not installed.	Install batteries.
Poor or no reception.	Antenna loose.	Make sure an antenna is connected to the scanner.
	Scanner is receiving interference or electrical noise,	Move the scanner or its antenna away from the source. Change the height or angle of the antenna.
Error appears.	Programming error.	Re-enter the frequency correctly, including the decimal point.

### Resetting your Scanner

If the scanner's display locks up or stops operating properly, you might need to reset the scanner. **Caution:** This procedure clears all the information you have stored in the scanner. Before you reset the scanner, try turning it off and on again to see if it begins working properly. Reset the scanner only when you are sure it is not working properly.

1. Unplug the AC adapter and remove the batteries from the scanner.
2. While holding down **2**, **9** and **PSE**, plug the AC adapter back into the scanner. **CLEAR** appears for about 2 seconds as the scanner clears its memory.

**Note:** Do not turn off the scanner again until **CLEAR** disappears. Otherwise, the scanner might not clear its memory properly.

Follow these steps to restore the 150 preprogrammed frequencies stored in the private bank.

1. Unplug the AC adapter and remove the batteries from the scanner.
2. While holding down **3** and **ENT/PROGRAM**, plug the AC adapter back into the scanner. **LOAD** appears for about 2 seconds as the scanner restores the frequencies.

## Limited One-year Warranty

This product is warranted by **RadioShack** against manufacturing defects in material and workmanship under normal use for one (1) year from the date of purchase from **RadioShack** company-owned stores and authorized **RadioShack** franchisees and dealers. For complete warranty details and exclusions, check with your local **RadioShack** store.

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