PRO-2022 Desk-Top Programmable Scanner
(200-0127)   Operation   Faxback Doc. # 48536

Programming The Scanner

A good reference for active frequencies is RadioShack's Police Call
Directory Including Fire and Emergency Services. We update this directory
yearly, so be sure to get a current one. Also, refer to "Reception Notes"
and "Searching for Active Frequencies" in this manual.

1. Turn the VOLUME control clockwise to turn on the scanner.

2. Press [MANUAL], enter the channel number you want to program, and then
press [PROGRAM]. 'PROGRAM' appears on the display and shows that your
scanner is in the programming mode.

3. Enter a frequency.

4. Press [ENTER] to store the frequency. If you made a mistake in Step 3,
'Error' appears on the display and three beeps sound. Proceed again from
Step 3.

5. If you want your scanner to pause after each transmission before
scanning to the next channel, press [DELAY] until 'DELAY' appears on the
display.

6. To program more channels, repeat Steps 2-4. If you want to program the
next channel in sequence, simply press [PROGRAM] and repeat Steps 3-4.

SEARCHING FOR ACTIVE FREQUENCIES

Use the following two procedures to search for a transmission. These
procedures are helpful if you do not have a reference to frequencies in
your area.

Limited Frequency Search

The limited frequency search procedure allows you to search within a
specific range of frequencies. Your scanner displays '-L-' during a
limited frequency search.

1. Press [PROGRAM].

2. Press [LIMIT].

3. Enter the lower limit of the frequency range.

4. Press [ENTER] and then press [LIMIT].

5. Enter the upper limit of the frequency range.

6. Press [ENTER].

7. Press [Down-arrow] to search from the upper limit down to the lower limit. Or, press [Up-arrow] to search upward starting from the lower limit.

8. When the scanner stops on a transmission, press [MONITOR] to store the frequency in the current monitor memory. The bar under the memory number stops flashing.

9. To continue the search, press [Down-arrow] or [Up-arrow].

NOTES:

Press [SPEED] to speed up or slow down the search.
Press [DELAY] until 'DELAY' appears to make the scanner pause 2 seconds after a transmission before proceeding to the next frequency.

Direct Frequency Search

When you are in the program or manual listening mode, you can search up or down from the current frequency. Your scanner shows '-d-' during a direct frequency search.

1. Select a programmed channel by pressing [MANUAL], the channel number, and then either [MANUAL] or [PROGRAM].

2. Press [Up-arrow] to search through higher frequencies or [Down-arrow] to search through lower frequencies.

3. When the scanner stops on a frequency, you can store it in a monitor memory by pressing [MONITOR]. The bar under the memory number stops flashing.

4. To continue the search, press [Up-arrow] or [Down-arrow].

MOVING A FREQUENCY FROM A MONITOR MEMORY TO A CHANNEL

In the monitor mode, the bar under the memory number shows the current monitor memory. To listen to monitor memories, press [MANUAL], and then press [MONITOR] to put the scanner in the monitor mode. Press the number of the monitor memory you want to listen to, or press [MONITOR] to advance to the next adjacent monitor memory.

To move a frequency from a monitor memory to a channel:

1. Press [MANUAL], the channel number, and then press [PROGRAM].

2. Press [MONITOR]. Then press the monitor memory number you want to move.

3. Press [ENTER]. The frequency is stored in the specified channel.

4. If you want to return to a limited frequency search after this procedure, press [LIMIT], follow by either [Up-arrow] or [Down-arrow].

USING THE RESET BUTTON

The scanner's display might lock up the first time you plug in and turn on
your scanner or if the battery is removed for an extended period of time.
If the display locks up, use a pointed object, such as paper clip, to press
and release the recessed RESET button (on the back panel) while the power
is on.

CLEARING THE SCANNER'S MEMORIES

To clear all the memories, be sure the scanner is on and do the following:

1. Press and hold [CLEAR].

2. Using a pointed object, press the RESET button.

3. After confirming that the display goes blank, release [CLEAR].

SETTING THE VOLUME AND SQUELCH

Use the SQUELCH control to decrease the scanner's sensitivity to weak
signals. This allows the scanner to receive only the strongest
transmissions.

1. Turn the SQUELCH and VOLUME controls fully counterclockwise.

2. Turn the VOLUME control clockwise until you hear a hissing sound.

3. Slowly turn the SQUELCH control clockwise until the hissing stops.

SCANNING THE CHANNELS

To begin scanning the channels, press [SCAN]. Your scanner scans through
all the channels (except the ones you have locked out) that are contained
in the activated banks. Be sure to read the following sections to get the
full benefit from the special features of your scanner.

USING THE DELAY FEATURE

Many agencies use a two-way radio system that might have a period of two or
more seconds between a query and a reply. To keep from missing a reply,
program a delay on the channels you identify as operating this way.

To program a delay, select the channel and press [DELAY] so that 'DELAY'
appears on the display. Now when your scanner scans through the channels,
it pauses for two seconds after the completion of each transmission on that
channel before it resumes scanning.

Some radio systems that operate at 800 MHz and above use a special
'trunked' system. In this system, the transmitter selects an available
frequency each time the operator keys the radio. Therefore, it is possible
for the query to be on one frequency and the reply on another. To increase

the possibility of hearing the full reply, the scanner begins scanning immediately when the first transmission ends.

For immediate scanning, select the channel and be sure that 'DELAY' is not on the display. If 'DELAY' appears on the display, press [DELAY] to turn it off for that channel.

SETTING THE SCANNING SPEED

Your scanner has two different scanning speeds - 4 channels per second and 8 channels per second. To switch between the two scanning speeds, press [SPEED] during scanning.

LOCKING OUT CHANNELS

You can make your scanner scan more efficiently by locking out channels that you have not programmed. Manually select the channel and press [LOCK-OUT] so that 'LOCK-OUT' appears on the display. This is also handy for locking out channels that have a continuous transmission, such as a weather channel. You can still manually select locked-out channels for listening.

To disable the lock-out function, manually select the channel and press [LOCK-OUT] so that 'LOCK-OUT' disappears from the display.

NOTE: You can lock out all but one channel in each bank.

TURNING THE BANKS ON AND OFF

To turn banks on and off, you must be in the scan mode.

Press [SCAN].

To turn on a bank, press the number key that corresponds to that bank until the bank indicator (a small bar) appears under the bank number.

The scanner scans all the channels within that bank (except the ones that you have locked out).

To turn off a bank, press the number key that corresponds to that bank until the bank indicator disappears from under the bank number.

The scanner does not scan any of the channels within that bank, though you can still manually select any channel in that bank.

Note: You can turn all but one bank off.

USING THE PRIORITY FEATURE

To program a priority channel, press [PROGRAM], the desired channel number, and then [PRIORITY].

The priority indicator P appears on the display to show that you set the scanner to the priority channel. The scanner now checks the priority

channel every two seconds, and stays on the channel if there is any activity.

You can only program one channel as the priority channel. When you program a new channel as the priority channel, you clear the previous channel you chose.

NOTE: Channel 1 is automatically designated as the priority channel the first time you turn on your scanner.

MANUALLY SELECTING A CHANNEL

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

To select a channel to monitor, press [MANUAL], enter the channel number, and then press [MANUAL] again. Or, if your scanner is scanning and has stopped at the desired channel, simply press [MANUAL] one time. Pressing [MANUAL] additional times causes your scanner to step through the channels one at a time.

BIRDIES

Birdies are the products of internally generated signals that make some frequencies difficult or impossible to receive. If you program one of these frequencies, you only hear noise on that frequency.

If the interference is not severe, you might be able to use SQUELCH to cut out the birdie. The most common birdies to watch for arelisted below.

32.000
38.400
44.800
51.200
108.800
112.700
115.200
118.300
119.300
121.600
128.000
134.400
140.800
154.740
158.750
162.770
512.000

(05/28/98)