

PRO-2020 Scanner

(200-0112)

Operation

Faxback Doc. # 45530

Operating Your Pro-2020

Turn on your Pro-2020 by rotating [VOLUME] clockwise. (When first turned on, your Pro-2020 may start scanning).

Rotate [SQUELCH] fully counterclockwise. You'll hear a rushing noise from the speaker. Slowly rotate [SQUELCH] clockwise until the noise just stops. You're now ready to start entering frequencies.

Programming Frequencies

Before programming frequencies, make sure your Pro-2020 is turned on and the SQUELCH is adjusted.

Suppose you want to program Channel 1 to receive 162.55 MHz. Here's how you would do it:

1. Press [MANUAL] and select channel 1. You can do this in two ways: press [MANUAL] continuously until the Display indicates Channel 1 or by pressing [1] [MANUAL].
2. Press [PROGRAM] to enter the programming mode.
3. Enter the desired frequency. In this case, press the [1] [6] [2] [.] [5] [5] keys. Check the display to make sure the frequency it shows

is the one you meant to program. If it is, press the [ENTER] key.

4. To add more frequencies, just press [PROGRAM] to advance to the next channel and follow the steps above.
5. If you ever want to change the frequency entered for a specific channel, just enter the new frequency "over" the old frequency using steps 1, 2, and 3.

Make a mistake while entering the frequency? Just press [CLEAR], enter the correct frequency and press [ENTER]. If you're entering a new frequency in place of an old one, the old frequency won't be "erased" when you press [CLEAR]. It will remain stored on that channel until you correctly enter a new frequency and press [ENTER].

You'll hear a "peep" sound as you press the various keys. This lets you know the key has been properly "entered" into your Pro-2020.

Using the Scanning Function

Your Pro-2020 will automatically scan all the channels you've programmed and stop whenever it finds a signal. To scan channels, just press the [SCAN] key.

To stop scanning, just press [MANUAL] and you can select specific channels you want to listen to.

IMPORTANT! Your Pro-2020 won't scan unless SQUELCH is set to the point where no sound is heard if a signal isn't being received.

Delay Function

When your Pro-2020 is scanning, it will stop whenever it finds a signal on a channel. As soon as the signal ends, the scanning function will resume. Most communications heard will be two-way. To make sure you don't miss any replies, press [DELAY]. This will cause your Pro-2020 to stay on a channel for two seconds after the end of a transmission, giving you time to hear any reply. To release the Delay function, just press [DELAY] again. The Delay indicator will show on the display when the Delay function is used.

Lockout Function

You may want your Pro-2020 to "skip over" certain frequencies while it's scanning (such as continuously transmitted weather broadcasts). To "lock out" such channels, follow these steps:

1. Press [MANUAL] to stop scanning. Continue to press [MANUAL] to advance to the channel you want to lock out.
2. When you reach the channel, press [LOCK OUT]. The display will show [o] to indicate this channel will be skipped over during scanning.
3. To release the lockout, press [MANUAL] to stop scanning. Advance to the channel that is locked out and press [LOCK OUT] once again. [o] will disappear from the display.

If you use the lockout function on all channels, scanning will be

impossible - you'll only be able to change channels using [MANUAL].

Speed Selection

Your Pro-2020 will normally scan channels at a rate of four channels per second. If you press [SPEED], channels will be scanned at a rate of nine per second. Press [SPEED] again to return to a rate of four channels per second.

Priority Function

You might want to scan other channels yet not miss a call on a channel of particular interest to you (police, fire, ambulance, etc.). The Priority function will let you scan other channels - but if a call is received on the Priority channel, your Pro-2020 will automatically switch to the Priority channel!

1. Only Channel 1 can be used as Priority Channel: Key in the desired Priority frequency into Channel 1.
2. Priority function works only when the unit is in Scan or Manual mode.
3. Press [PRIORITY] to start Priority function. A [P] will appear on the display.
4. Press [MANUAL] or [SCAN] to listen to other channels. Your Pro-2020 will check the Priority channel and switch to it if a signal is received on it.

5. To cancel Priority function, press [PRIORITY] again. the [P] will disappear from the display.

SEARCHING WITH YOUR PRO-2020

One great feature of your Pro-2020 is its ability to "search" for frequencies being used. This means you can hear all the action on the airwaves in your area! To use this great feature, just follow these steps:

1. Press [PROGRAM] key.
2. Press [LIMIT] key. Enter the lower limit of frequency range to be searched (such as 45.00 MHz). Press [ENTER].
3. Press [LIMIT] key again. Enter the upper limit of frequency range to be searched (such as 46.00 MHz). Press [ENTER].
4. Press either [up arrow] or [down arrow] to start Search. [Down arrow] will start search from the highest frequency and go down. [Up arrow] will start from the lowest frequency and go up.
5. You can control the speed of the search by using the [SPEED] key to accelerate or to slow down the search.
6. Search will stop when a frequency is found with a signal. To restart search, press [up arrow] or [down arrow].

In Program Mode, search range will be displayed each time [LIMIT] is

pressed. It is impossible to change the lower frequency only: to change lower frequency you must change higher frequency first. The higher frequency can be changed any time.

Storing Frequencies

If you want to enter some of the frequencies found during search, do this:

1. Press [MONITOR] when your Pro-2020 finds a frequency you want to store.
2. Use [MANUAL] key to select a channel to enter the frequency your Pro-2020 found. The display will show the frequency currently stored on the channel, but don't worry - the old frequency will be erased when you start to enter the new one.
3. Press [PROGRAM].
4. Press [MONITOR] again. The new frequency found during the search will be displayed.
5. Press [ENTER] to put the new frequency into the channel in place of the old frequency.
6. Press either [up arrow] or [down arrow] to resume the search. To return to manual or program operation, press [MANUAL] or [PROGRAM]. To resume the search from one of the limit frequencies, press [LIMIT] and then [up arrow] or [down arrow].

Error Indications

Sometimes when you try to enter a frequency for a channel or as a search range limit, you may find an ----- on the display. This means the frequency is in error and you won't be able to enter it into your Pro-2020.

Such frequency errors usually mean you've entered a frequency outside the ranges your Pro-20202 operates on (such as 225.00 MHz) or you've put the decimal point in the wrong place (14.682 MHz instead of 146.82 MHz). Check carefully to find your mistake and then press [CLEAR]. You can now enter the correct frequency.

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