Before You Begin

Battery Pack Installation and Removal
- To install the battery, hold the transceiver with your left hand, so your palm is over the speaker and your thumb is on the top of the belt clip. Insert the battery pack into the battery compartment on the back of the radio while tilting the Belt Clip outward, then close the Battery Pack Latch until it locks in place with a "Click."

- To remove the battery, turn the radio off and remove any protective cases. Open the Battery Pack latch on the bottom of the radio, then slide the battery downward and out from the radio while holding the Belt Clip.

Caution:
Do not attempt to open any of the rechargeable Ni-Cd packs, as they could explode if accidentally short-circuited.

Low Battery Indication
- As the battery discharges during use, the voltage gradually becomes lower. When the battery voltage reaches 6.3 volts, substitute a freshly charged battery and recharge the depleted pack. The TX BUSY indicator on the top of the radio will blink red (on the VX-180, the "(" icon will appear on the LCD) when the battery voltage is low.
- Avoid recharging Ni-Cd batteries often with little use between charges, as this can degrade the charge capacity. We recommend that you carry an extra, fully-charged pack with you so the operational battery may be used until depletion (this "deep cycling" technique promotes better long-term battery capacity).

FCC RF Exposure Compliance Requirements for Occupational Use Only:
This Radio has been tested and complies with the Federal Communications Commission (FCC) RF exposure limits for Occupational Use.

FCC RF Exposure Compliance Requirements for Occupational Use Only:
- This radio is NOT approved for use by the general population in an uncontrolled environment. This radio is restricted to occupational use, work related operations only where the radio operator must have the knowledge to control its RF exposure conditions.
- When transmitting, hold the radio in a vertical position with its microphone 1 to 2 inches (2.5 to 5 cm) away from your mouth and keep the antenna at least 1 inch (2.5 cm) away from your head and body. The radio must be used with a maximum operating duty cycle not exceeding 50%, in typical Push-to-Talk (PTT) configurations. The radio is transmitting when the red LED on the top of the radio is illuminated. You can cause the radio to transmit by pressing the PTT button.
- DO NOT transmit when the radio is used in Body Worn configuration with the following accessory: belt-clip (Parts # CP7064001). It must be used ONLY for (1) there is a 4 cm distance from the body during transmitting, (2) monitoring purposes, using the speaker only and (3) for carrying purposes.
- Always use Vertex Standard authorized accessories.

Important Notice!

Display Icons & Indicators (VX-180 Only)

Operation
- Press and hold in the MONITOR key for more than 1 seconds (or press the MONITOR key twice) to quiet the noise and return normal (quiet) monitoring.

- To transmit, press and hold in the PTT switch. Speak into the microphone area of the front panel grille (lower left-hand corner) in a normal voice level. To return to the Receive mode, release the PTT switch.

- If a Speaker/Microphone is available, remove the plastic cap and its two mounting screws from the right side of the transceiver, then insert the plug from the Speaker/Microphone into the MIC/SP jack; secure the plug using the screws supplied with the Speaker/Microphone. Hold the speaker grille up next to your ear while receiving. To transmit, press the PTT switch on the Speaker/Microphone, just as you would on the main transceiver's body.

Note: Save the original plastic cap and its mounting screws. They should be re-installed when not using the Speaker/Microphone.

Operation Quick Start
- Turn the top panel's VOL/PWR knob clockwise to turn on the radio.

- Turn the top panel's CH selector knob to choose the desired operating channel.

- Rotate the VOL/PWR knob to set the volume level. If no signal is present, press and hold in the MONITOR key (the lower button on the left side) for more than 1 seconds; background noise will now be heard, and you may use this to set the VOL/PWR knob for the desired audio level.

Accessories & Options

- FNB-64 7.2 V 700 mAh Ni-Cd Battery
- FNB-V57 7.2 V 1100 mAh Ni-Cd Battery
- FBA-2S Alkaline Battery Case
- NC-77B 120 VAC Overnight Desk Charger
- NC-77C 230-240 VAC Overnight Desk Charger
- VAC-800 Desk Rapid Charger
- VAC-6000 6-unit Multi Charger
- MH-45 Speaker/Microphone
- MH-37 Earpiece Microphone
- VC-25 VOX Headset
- VCM-1 Mobile Mounting Bracket (for VAC-800)
- LCC-180/1 Leather Case (for VX-160)
- LCC-180/S Leather Case (for VX-180)
- CT-42 PC Programming Cable
- CT-27 Radio to PC Programming Cable
- CE44 Programming Software

Key Functions
- The VX-180 provides programmable [A, B, and C] function keys, and both the VX-160 and VX-180 provide programmable MONITOR keys. These "Soft" keys functions can be customized by your VERTEX STANDARD dealer, to meet your communications/network requirements. Some features may require the purchase and installation of optional internal accessories. The possible Soft key programming features are illustrated below, and their functions are explained in the next chapter. For further details, contact your VERTEX STANDARD dealer. For future reference, check the box next to each function that has been assigned to the Soft key on your particular radio, and keep it handy.

- TX Save Off
- Call/Reset
- Talk Around
- Dual Watch
- Scan
- TX Monitor
- None
- Monitor
- Low Power
- Loud
- Lamp
- Channel Up
- Channel Down
- -
- Talk Around
- Talk
- Scan
- Call/Reset
- Speed Dial
- TX Save Off
- VX-160 only
Description of Operating Functions

Monitor
Press the assigned Soft key momentarily to override (disable) the Tone squelch. Background noise or incoming signals will now be heard whether or not a matching tone is present on the signal. Press and hold in the assigned Soft key for more than 1 seconds to override both the Noise and Tone squelch. Again press and hold in the assigned Soft key for more than 1 seconds (or press the assigned Soft key twice) to resume normal (quiet) Noise and Tone squelch action.

Low Power
Press the assigned Soft key to set the radio's transmitter to the “Low Power” mode, thus extending battery life. Press the assigned Soft key again to return to “High Power” operation when in difficult terrain.

Lock
Press the assigned Soft key to lock the Soft keys (except Lock and Monitor key); thus, the [A], [B], [C], and MONITOR keys can be disabled to prevent radio settings from being disturbed.

Lamp
Press the assigned Soft key to illuminate the LCD for five seconds.

Channel Up
Press the assigned Soft key to switch to a higher operating channel number.

Channel Down
Press the assigned Soft key to switch to a lower operating channel number.

Scan
The Scanning feature is used to monitor multiple channels programmed into the transceiver. While scanning, the radio will check each channel for the presence of a signal, and will stop on a channel if a signal is present.

To activate scanning:
Press the assigned Soft key.
The scanner will search the channels, looking for active ones; it will pause each time it finds a channel on which someone is speaking.

To stop scanning:
Press the assigned Soft key.
Operation will revert to the channel to which the CH knob is set.

Follow-Up Scan
“Follow-Up” Scan feature checks a User-assigned Priority Channel regularly as you scan the other channels. Thus, if only Channels 1, 3, and 5 (of the 8 available channels) are designated for “Scanning,” the user may nonetheless assign Channel as the “User-assigned” Priority Channel via the “Follow-Me” feature. Press the assigned Soft key to activate “Follow-Up” scanning, then turn the CH selector knob to the channel which you want to designate as the “User-Assigned Priority Channel”. When the scanner stops on an “active” channel, the User-assigned Priority Channel will automatically be checked every few seconds.

Dual Watch
The Dual Watch feature is similar to the Scan feature, except that only two channels are monitored: the current operating channel, and the “Priority” channel.

To activate Dual Watch:
Press the assigned Soft key.
The scanner will search the two channels; it will pause each time it finds a channel on which someone is speaking.

To stop Dual Watch:
Press the assigned Soft key.
Operation will revert to the channel to which the CH knob is set.

Talk Around
Press the assigned Soft to activate the Talk Around feature when you are operating on duplex channel systems (separate receive and transmit frequencies, utilizing a “repeater” station). The Talk Around feature allows you to bypass the repeater station and talk directly to a station that is nearby. This feature has no effect when you are operating on “Simplex” channels, where the receive and transmit frequencies are already the same.

Note that your dealer may have made provision for “Talk Around” channels by programming “repeater” and “Talk Around” frequencies on two adjacent channels. If so, the key may be used for one of the other Pre-Programmed Functions.

Add/Del
The Add/Del feature allows the user to arrange a custom Scan. Press the assigned Soft key to delete/restore the current channel to/ from your scanning list.
When you delete a current channel, “SKIP” will appear on the LCD after pressing the Soft key. When you restore a current channel, “SKIP” indicator on the LCD will turn off.

Call/Reset
When the 2-tone selective calling unit is installed, press the assigned Soft key to silence the receiver and reset for another call, when a communication is finished.

Speed Dial
Your Dealer may have pre-programmed Auto-Dial telephone number memories into your radio.
To dial a number, just press the Dealer-assigned Soft key for Speed Dialing. The DTMF tones sent during the dialing sequence will be heard in the speaker.

TX Save Off
Press the assigned Soft key to disable the Transmit Battery Saver, if you are operating in a location where high power is almost always needed.
The Transmit Battery Saver helps extend battery life by reducing transmit power when a very strong signal from an apparently nearby station is being received. Under some circumstances, though, your hand-held radio may not be heard well at the other end of the communication path, and high power may be necessary at all times.