

FRONT PANEL CONTROLS Full Key Model Shown Below

- 1. **Standard Key Model** - Front display, option and navigation buttons
- 2. **Full Key Model** - Full feature model with number keypads

Speaker (1, 2)
This speaker is disabled when a speaker mic accessory is connected.

LCD Display (1, 2)
Radio Menu/Mode/Operation display.

Microphone (1, 2)
For best results, hold the radio 2-3 inches (5-8 cm) from your mouth and speak at a normal conversational level.

Navigation Pad (1, 2)
Up/down arrows are used to step through the menu screens or select zones in operating mode. Left/right arrows advance through assigned soft buttons.

Option Button (1, 2)
Selecting this button enables the user to do the operation defined in the tab above it.

Option Button (1, 2)
Clear. Performs a back or exit action. (Defined function)

Option Button (1, 2)
Menu (Defined function). Use this button to select/accept a selection in a feature.

Number Keypad (2)

Note: The Standard Key Model has A/B/C buttons. If you have a Standard Key Model, check with your system administrator to find out which functions are programmed on each button.

For best operation, keep radios separated by at least 5 feet (1.6 meters). Using radios too close together can decrease their performance.

SIDE CONTROLS

Accessory Connector
When no accessory is in use, the accessory cover should remain in place on the radio.

PTT Switch
Press to talk (transmit) and then release to listen (receive).

Lithium Ion (Li-Ion) Battery Pack

Option Buttons
These buttons can be programmed to control specific functions. Check with your system administrator to find out which functions are programmed on your radio's buttons.

Option Button 1

Option Button 2

Option Button 3

Option Button Functions

1.

2.

3.

**CAUTION**

Some parts of your VP8000 are made of glass. This glass could break if the VP8000 is dropped on a hard surface or receives a substantial impact. If this glass breaks, do not touch it or attempt to remove it. Stop using your VP8000 until the glass gets replaced by a qualified service center.

TOP PANEL CONTROLS

Channel/Talkgroup Switch
Selects up to 16 channels/talkgroups in the current zone. Some positions may be unprogrammed, in which case a tone sounds.

On/Off Volume Knob
Turn clockwise to turn power on and set the volume level. Turn counterclockwise (to click) to turn power off.

Multi-Function Indicator
Steady Red: PTT pressed, transmitting in unsecure mode.
Steady Orange: PTT pressed, transmitting in secure mode.
Steady Green: Receiving in unsecure mode.
Blinking Red: Transmitting unsecure, low battery.
Blinking Orange: Transmitting secure, low battery.
Slow Blink Red: Receiving in secure mode.
(See operating manual for additional indicator information.)

LCD Display
Channel/Zone / Signal Strength / Battery Strength / Time / Date display.

Option Switch
Programmable four-position (A B C D) option switch. Check with your system administrator to find out which options are programmed on your radio.

Antenna Connector
Ensure an antenna is tightly connected before using the radio. A loose antenna may cause incorrect radio operation.

Emergency Button
This button can be programmed as an emergency button or used for other functions. Check with your system administrator to find out which function is programmed on your radio.

Option Switch
Programmable two-position (○ ●) option switch. Check with your system administrator to find out which options are programmed on your radio.

○

●

MENU MODE

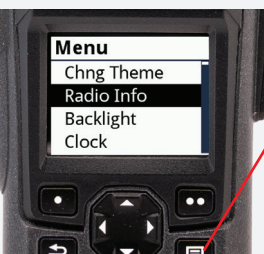
Many radio functions are controlled by the menu mode, an option switch, or both. Only the functions which apply to the selected channel type are displayed. The availability of the menu mode, soft buttons, and the parameters that are selectable are determined by system administrator programming. The menu mode operates as follows:



1. Press The Menu Button to select the Menu mode. The selectable menu parameters are then displayed below the menu as shown.



2. Press The Up/Down Arrow to scroll up or down through the list until the parameter you want to change is highlighted by the bar.



3. Press The Menu Button to select the highlighted parameter. The available modes for that parameter then appear.



4. Press the Up/Down Buttons to highlight the desired mode. Then press the menu button to select that mode.



5. Press the Clear Button to step back to the previous level or exit the menu mode.

ACCESSORY INSTALLATION

Perform the following procedure to connect an accessory to the radio:

- 1. Remove the protective cover over the radio's accessory connector jack on the side of the radio by unscrewing the cover from the radio.
- 2. Align the accessory's connector plug with the radio's accessory connector jack.
- 3. Attach the accessory's connector to the radio by screwing the connector's screw into the radio.



BELT CLIP INSTALLATION

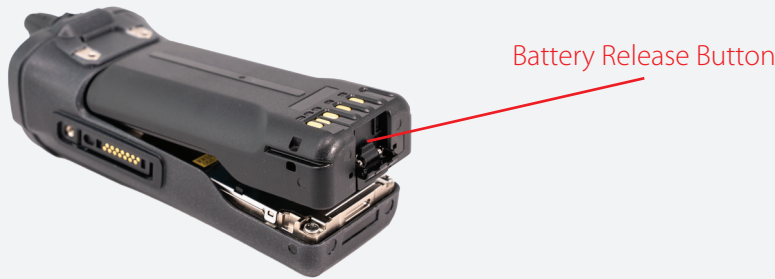
To install the belt clip on the radio, attach the clip to the radio by screwing it into the back of the radio as shown in the following illustration.

To remove the belt clip from the radio, unscrew the clip's screws from the back of the radio and remove the clip.



BATTERY REMOVAL / INSTALLATION

The battery pack can be removed from the radio for recharging or replacement. To remove it, turn radio power off (On/Off Volume control), lift the latch, press the release button (shown below), and then lift the battery up to withdraw it from the chassis.



LOW BATTERY INDICATOR / BATTERY RECHARGING

The front display has a programmable area that provides status information. If the battery level is programmed, icons provide the status of the battery. The bar in the battery icon indicates the capacity. When a low battery condition is indicated (🔋), the battery should be recharged or replaced as soon as practical.

Tip: If your radio has **Radio Info** as a button or menu option, you can check the percent charge on your battery. Ask your system administrator whether you have this option.

For initial battery charge, fully charge the battery, use it, and let battery fully discharge, then fully charge it again.

The battery can be charged separately or while attached to the radio. When charged while attached to the radio, the radio power should be turned off (On/Off Volume switch). If not switched off, the battery will begin slowly discharging when the trickle charge mode is entered (shown by a green blinking ready indicator on the charger). Battery capacity is greater when charged separately.

When the battery fails to hold a charge or provides only a very short operating time, it must be replaced with a new unit.

DO NOT dispose of the battery pack in fire, incinerate, mix with other battery types, charge above specified rate, connect improperly, or short circuit the terminals. These actions may result in overheating, explosion, or leakage of battery pack contents.

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Part Number 002-VP8000-200 Rev 00



RF Energy Exposure Awareness and Control

Information and Operational Instructions for FCC Occupational Use Requirements

Before using your portable two-way radio, read this important RF energy awareness and control information and operational instructions to ensure compliance with the FCC's RF exposure guidelines.

Notice: *This radio is intended for use in occupational/controlled conditions where users have full knowledge of their exposure and can exercise control over their exposure to meet FCC limits. This radio device is NOT authorized for general population, consumer, or any other use.*

This two-way radio uses electromagnetic energy in the radio frequency (RF) spectrum to provide communications between two or more users over a distance. It uses radio frequency (RF) energy or radio waves to send and receive calls. RF energy is one form of electromagnetic energy. Other forms include, but are not limited to, electric power, sunlight and x-rays. RF energy, however, should not be confused with these other forms of electromagnetic energy, which when used improperly can cause biological damage. Very high levels of x-rays, for example, can damage tissues and genetic material.

This equipment generates or uses radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved by the party responsible/JVCKENWOOD. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

Experts in science, engineering, medicine, health and industry work with organizations to develop standards for exposure to RF energy. These standards provide recommended levels of RF exposure for both workers and the general public. These recommended RF exposure levels include substantial margins of protection. All two-way radios marketed in North America are designed, manufactured and tested to ensure they meet government established RF exposure levels. In addition, manufacturers also recommend specific operating instructions to users of two-way radios. These instructions are important because they inform users about RF energy exposure and provide simple procedures on how to control it. Please refer to the following web sites for more information on what RF energy exposure is and how to control your exposure to assure compliance with established RF exposure limits.

- <https://www.fcc.gov/engineering-technology/electromagnetic-compatibility-division/radio-frequency-safety/faq/rf-safety>
- <http://www.osha.gov/SLTC/radiofrequencyradiation/index.html>

Federal Communications Commission Regulations

The FCC rules require manufacturers to comply with the FCC RF energy exposure limits for portable two-way radios before they can be marketed in the U.S. When two-way radios are used as a consequence of employment, the FCC requires users to be fully aware of and able to

control their exposure to meet occupational requirements. Exposure awareness can be facilitated by the use of a product label directing users to specific user awareness information. Your VIKING two-way radio has a RF exposure product label. Also, your VIKING user manual, or product manual, or separate safety booklet includes information and operating instructions required to control your RF exposure and to satisfy compliance requirements.

Compliance with RF Exposure Standards

Your VIKING two-way radio is designed and tested to comply with a number of national and international standards and guidelines (listed below) for human exposure to radio frequency electromagnetic energy. This radio complies with the IEEE and ICNIRP exposure limits for occupational/controlled RF exposure environment at operating duty factors of up to 50% transmitting and is authorized by the FCC for occupational use only. In terms of measuring RF energy for compliance with the FCC exposure guidelines, your radio radiates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode. **Note:** *The approved batteries supplied with this radio are rated for a 5-5-90 duty factor (5% talk-5% listen - 90% standby), even though this radio complies with the FCC occupational RF exposure limits and may operate at duty factors of up to 50% talk.*

Your VIKING two-way radio complies with the following RF energy exposure standards and guidelines:

- United States Federal Communications Commission, Code of Federal Regulations; 47 CFR §§ 1.1307, 1.1310, 2.1091 and 2.1093
- American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers (IEEE) C95.1-1992
- Institute of Electrical and Electronic Engineers (IEEE) C95.1-1999 Edition

RF Exposure Compliance and Control Guidelines and Operating Instructions

To control your exposure and ensure compliance with the occupational/controlled environment exposure limits, always adhere to the following procedures.

Guidelines:

- Do not remove the RF Exposure Label from the device.
- User awareness instructions should accompany the device when it is transferred to other users.
- Do not use this device if the operational requirements described herein are not met.

Operating Instructions:

- Transmit no more than the rated duty factor of 50% of the time. To transmit (talk), push the Push-To-Talk (PTT) button. To receive calls, release the PTT button. Transmitting 50% of

the time, or less, is important because this radio generates measurable RF energy exposure only when transmitting (in terms of measuring for standards compliance).

- Hold the radio in a vertical position in front of face with the microphone (and the other parts of the radio, including the antenna) at least one inch (2.5 cm) away from the nose. Keeping the radio at the proper distance is important because RF exposures decrease with distance from the antenna. The antenna should be kept away from eyes.
- When worn on the body, always place the radio in an EFJohnson-approved clip, holder, holster, case, or body harness for this product. Using approved body-worn accessories is important because the use of non-approved accessories may result in exposure levels which exceed the FCC's occupational/controlled environment RF exposure limits.
- Use only EFJohnson-approved supplied or replacement antennas, batteries, and accessories. Use of non-approved antennas, batteries, and accessories may exceed the FCC RF exposure guidelines.
- For a list of EFJohnson-approved accessories, see the service manual or marketing accessory lists or contact E.F. Johnson Company.

Radio Care Tips

- Never poke the speaker grill or microphone port with any object. This action may create leak paths into the radio, reducing the radio's ability to resist water.
- The radio is designed to withstand water exposure by implementing radio seals that limit water leakage paths into the radio. Frequent exposure to liquid may damage the radio.
- Do not submerge the radio in any liquid.
- Do not drop, throw or pound the radio. Never carry the radio by its antenna.
- Keep the accessory-connector cover in place when not in use.
- Do not disassemble the radio. All radio maintenance should be performed only by a qualified radio technician to ensure that the radio seals are not damaged.

Electromagnetic Interference

This device complies with Part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference. In addition, changes or modification to this equipment not expressly approved by EFJohnson could void the user's authority to operate this equipment (FCC Rules, 47CFR Part 15.19).

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can generate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer for technical assistance.

ISED Canada

This device contains license-exempt transmitters and receivers that comply with Innovation, Science and Economic Development Canada's license-exempt Radio Standards Specification. Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

The use of 5150-5250 MHz band is restricted to indoor use only in Canada.

Usage Compatibility

DO NOT operate it in areas that are sensitive to RF energy such as aircraft, hospitals, blasting sites, and fuel storage sites. Areas with potentially flammable atmospheres are usually, but not always, clearly posted. These may include gas stations, fuel and chemical storage and transfer stations, below deck on boats, and areas where the air contains flammable chemicals or particles such as grain dust or metal powders.

Battery Disposal

Dispose of the nickel metal-hydride (NiMH), lithium polymer (Li P), or lithium ion (Li-Ion) battery used by the radio in accordance with local regulations. DO NOT dispose of it in fire because it can explode. Also, do not short the terminals because it may become very hot.

Vocoder Patent Notice

The AMBE+2™ voice coding Technology embodied in this product is protected by intellectual property rights including patent rights, copyrights and trade secrets of Digital Voice Systems, Inc. This voice coding Technology is licensed solely for use within this Communications Equipment. The user of this Technology is explicitly prohibited from attempting to extract, remove, decompile, reverse engineer, or disassemble the Object Code, or in any other way convert the Object Code into a human-readable form. U.S. Patent Nos. #8,315,860, #8,595,002, #6,199,037, #6,912,495, #8,200,497, #7,970,606 and #8,359,197.

Software License

Non-open source software used in this product is licensed in accordance with E.F. Johnson Company's ("EFJohnson's") then current software license agreement.

Open Source Software License

Software used in this product includes open source software ("Open Source Software") and is subject to the General Public License ("GPL") provided at www.efjohnson.com. EFJohnson notifies you ("Licensee") hereunder that Licensee has the rights to obtain, modify and/or redistribute the source code of such software ("Open Source Software") in accordance with the terms of such GPL. Therefore, if Licensee obtains such Open Source Software, Licensee must strictly adhere to the terms and conditions of the GPL.

Supplier's Declaration of Conformity

47 CFR § 2.1077 Compliance Information

Trade name: KENWOOD

Model: VP8000 series

Responsible party: JVCKENWOOD USA Corporation 1440 Corporate Drive
Irving, TX 75038

USA

Telephone number: 972-819-0700

Contact Information

Toll-Free: 1-800-328-3911

Fax: 972-819-0639

E-Mail: customerservice@efji.com

You may also contact the Customer Service Department by mail. Please include all information that may be helpful in solving your problem. The mailing address is as follows:

Customer Service Department

EFJohnson

1440 Corporate Drive

Irving, TX 75038-2401

