Vermont Emergency Management - RACES

Yaesu FT-8800R

Radio Quick Start Guide

Turning the Transceiver On and Off

Right "VOL" Knob - PowerButton

- To turn the transceiver "ON", press and hold the "Right" VOL knob for 2 seconds

- When you turn on the FT-8800R, the current DC Supply voltage is indicated for 2 seconds

- After the 2 second interval, the display will switch to its normal indication of the operating frequency

- To turn the transceiver "OFF", press and hold the "Right" VOL knob for 2 seconds

Frequency Band Operation

In the factory default configuration, the **FT−8800R** operates in the **Dual Receive** mode.

The following illustration shows VHF- UHF mode of operation.

Selecting the Main Operating Band

During **Dual Receive** operation, the **Main** band frequency (on which transmission is possible) will be indicated by the **MAIN** icon.

You will observe the **MAIN** icon lighting up alternate sides of the display as you switch **Main** bands from the left side to the right side, and vice-versa. (The following illustration shows the **Main** band on the left side and the **Sub** band on the right side.)

To establish the **Main** band, momentarily press one of the following:

- The left or right **DIAL** knob

- **MH−48A6J** microphone's **P1** key

The **FT−8800R** can also be configured to operate in the following modes. In addition to VHF – UHF shown above, other options are

UHF – VHF	VHF-VHF	UHF-UHF.

To switch the frequency band:

- When in **VFO** mode, press and hold in the left **DIAL** knob for ½ second to cycle the operating band on the left side to the next-highest frequency band.

  144 MHz → 250 MHz → 350 MHz → 430 MHz → 850 MHz

- When in **VFO** mode, press and hold in the right **DIAL** knob for ½ second to cycle the operating band on the right side to the next-highest frequency band.

  430 MHz → 850 MHz → 144 MHz → 250 MHz → 350 MHz

Change the Frequency

Navigation using the Tuning Dial

Rotating the **DIAL** knob allows tuning in the pre-programmed frequencies established for Left or Right banks. Clockwise rotation of the **DIAL** knob causes the **FT−8800R** to be tuned toward a higher channel number, while counter-clockwise rotation will lower the channel number.

Direct Keypad Frequency Entry using the MH-48A6J Microphone

The keypad of the **MH−48A6J** DTMF Microphone may be used for direct entry of the **Main** band operating frequency.

To enter a frequency from the **MH−48A6J** keypad, just press the numbered digits in the proper sequence. There is no decimal point key on the **MH−48A6J** keypad.

Examples:

- To enter **146.480 MHz**, press 1 → 4 → 6 → 4 → 8 → 0

- To enter **433.000 MHz**, press 4 → 3 → 3 → 0 → 0 → 0

Scanning

From the **VFO** mode, press and hold the [SCN] key for one second, then rotate the **DIAL** knob to select the bandwith for the **VFO** scanner. Now, press the [SCN] key momentarily to initiate scanning toward a higher frequency. The **FT−8800R** will stop when it receives a signal strong enough to break through the squelch threshold. The **FT−8800R** will then hold on that frequency according to the setting of the **Resume** mode (**Menu #34** SCAN).

If you wish to reverse the direction of the scan (i.e. toward a lower frequency, instead of a higher frequency), just rotate the **DIAL** knob one click in the counter-clockwise direction while the **FT−8800R** is scanning. The scanning direction will be reversed. To revert to scanning toward a higher frequency once more, rotate the **DIAL** knob one click clockwise.

Press the [SCN] key again to cancel scanning.

Front Panel Controls

(1) Left and Right *DIAL* knobs

These 20-position detented rotary switches are the tuning dials for the left and right bands.

- Press the adjoining knob momentarily to switch the **Main** band to the side where the knob is located.

- When in the **Memory** mode, press this knob to enable rapid tuning (in 10 channel steps) using this knob.

- When in the **VFO** mode, press this knob to enable rapid tuning (in 1 MHz steps) using this knob.

- When in the **VFO** mode, press and hold in this knob for ½ second to toggle the operating band as follows:

  144 MHz → 250 MHz → 350 MHz → 430 MHz → 850 MHz

(2) Left and Right *VOL* Knobs (NOTE: The Right knob also controls the power)

The **VOL** (Volume) control adjusts the speaker audio level for the adjoining receiver.

- Press and hold this button in to turn the radio "ON" or "OFF" (RIGHT KNOB ONLY)

- Clockwise rotation increases the audio level.

- Press this knob momentarily to switch the Internet Connection feature on and off.

(3) Left and Right ⊕ *SQL* Knobs

The **SQL** (Squelch) control is used to silence background noise on the adjoining receiver.

- Clockwise rotation decreases the squelch level.

- It should be advanced clockwise just to the point where the noise is silenced (and the **BUSY** indicator on the display turns off), so as to provide the best sensitivity to weak signals.

(4) Hyper Memory Buttons [1] … [6]

- Press and hold in one of these buttons for 2 seconds to store the current total configuration of the radio into a special Hyper memory bank.

- Press the appropriate button momentarily to recall the desired Hyper memory.

(5) Left and Right Side Key

Left Side Keys	**Right Side Keys**
The left side keys function as **LOW, V/M, HM, and SCN**	The right side keys may be set to function as **LOW**, **V/M**, **HM**, and **SCN** (default) or as **MHz**, **REV**, **TONE**, and **SUB** (▼KEY2)

Left Side Keys (always) and Right Side Keys when in Key Mode 1

LOW Key

- Press this key repeatedly to toggle the transmitter power output level of the adjoining band:

  LOW → MID2 → MID1 → HIGH

- When the adjoining band is set to the **Memory** mode or **Home Channel**, press and hold in this key for ½ second to switch the memory channel display between the Frequency format and the Alpha-numeric Tag format.

V/M Key

- Press this key momentarily to switch the frequency control for the adjoining band between the **VFO** and Memory Systems.

- When the adjoining band is set to the **VFO** mode, press and hold in this for ½ second to activate the Smart Search Feature.

- When the adjoining band is set to the **Memory** mode, press and hold in this key for ½ second to activate the Memory Bank feature.

HM Key

- Press this key momentarily to recall a favorite **Home Channel** on the adjoining band.

- Press and hold in this for ½ second to activate **Priority Channel Scanning** on the adjoining band.

SCN Key

- Press this key momentarily to activate the **Scanner** on the adjoining band.

- When the adjoining band is set to the **Memory** mode, press and hold in this key for ½ second to shift to the Memory Tuning feature on the adjoining band.

Right Side Keys when in Key Mode 2 (▼KEY2)

To set the right side keys to **Key Mode 2**:

- Press the ⬤ **SET** key momentarily to enter the Set mode.

- Rotate the **MAIN** DIAL knob to select **Menu #20** KEY.MOD.

- Press the **MAIN** DIAL knob momentarily, and then rotate the **MAIN** DIAL knob to change the setting to KEY 2.

- Press and hold in the **MAIN** DIAL knob for ½ second to save the new setting and exit to normal operation.

When set to **Key Mode 2**, the ▼KEY2 indicator is displayed and the keys function as follows:

MHz Key: LOW while in Key Mode 2

- Press this key momentarily to allow tuning in 1-MHz steps on the **Main** band **VFO**.

- Press and hold in this key for ½ second to allow tuning in 10-MHz steps on the **Main** band **VFO**.

REV Key: V/M while in Key Mode 2

- Press this key momentarily to reverse the transmit and receive frequencies on the **Main** band during split-frequency (i.e. Repeater) operation.

- Press and hold in this key for ½ second to change the frequency shift direction:

RPT – (minus shift) → RPT + (plus shift) → RPT OFF (simplex)

TONE Key: HM while in Key Mode 2

- Press this key momentarily to change the **Tone Squelch** mode:

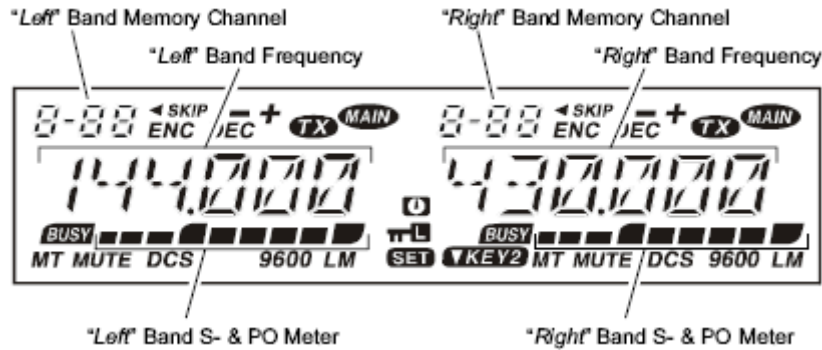ENC (CTCSS Encoder) → ENC.DEC (CTCSS Tone Squelch) → DCS (DCS operation)

SUB Key: SCN while in Key Mode 2

- Press this key momentarily to activate the **Sub** band function (the **MAIN** icon will blink on the **Sub** band). When the **Sub** band function is activated, any keys you press act on the **Sub** band.

- When the **Sub** band function is activated (the **MAIN** icon is blinking on the **Sub** band), press this key momentarily to deactivate the **Sub** band function.

(6) ⬛ **SET Key**

- Press this key momentarily to enter the **Set** (**Menu**) mode.

- Press and hold in this key for ½ second to transfer the contents of the **Main** band **VFO** into a Memory register.

LCD Display Screen

"*Left*" Band Memory Channel "*Right*" Band Memory Channel
"*Left*" Band Frequency "*Right*" Band Frequency
"*Left*" Band S- & PO Meter "*Right*" Band S- & PO Meter

Icons

◀: Preferential Memory Channel	**MT** : Memory Tune Mode
SKIP: Skip Memory Channel	**MUTE** : Audio Mute Active
–: Minus Shift	**DCS**: Digital Code Squelch (DCS)
+: Plus Shift	**9600**: 9600 bps Packet Mode
– +: Odd Split	**L**: Low TX Power Selected
ENC: Tone Encoder	**M**: Middle TX Power Selected (No Icon indicates High TX Power)
DEC: Tone Decoder	⏻: Automatic Power-Off Active
TX : Transmission in Progress	🔒: Keypad/DIAL Lock Active
MAIN : Main Band	**SET** : Menu (Set) Mode
BUSY : Busy Channel (or Squelch Off)	**▼KEY2** : Key Function Mode is set to KEY-2

Further information about the radio and its operations can be found in the Yaesu manual located within your RACES form tote or Pelican case.