

Memory mode,  
channel 9

+ Duplex,  
Tone on



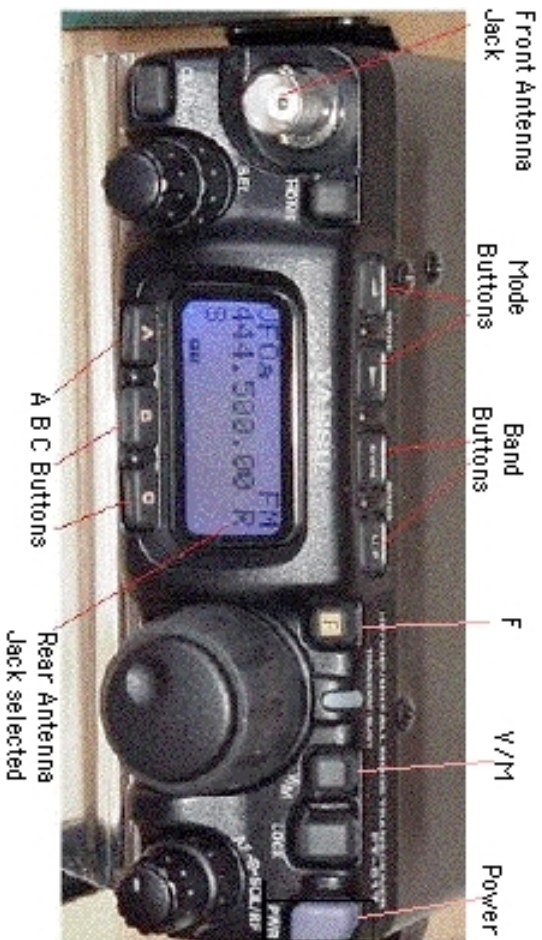
VFO Mode

FM Mode



+ Duplex, Tone on

ABC  
Buttons



Press the C key for TAG to toggle between showing the frequency and the label. (We have a separate list of assigned memory channels.)

V/M key if necessary. If in VFO mode, the LCD will display VF0a or VF0b in the upper left corner of the LCD, which means you can tune the transceiver directly by the knobs. If you are in memory mode, M-*nnn* will show on the LCD in the upper left corner; *nnn* is the memory channel number. To select a memory channel, rotate the SEL knob.

If you are in memory mode, you may tune off the original frequency by rotating the MAIN dial; the M-*nnn* indication will be replaced by MTUNE. To get out of MTUNE, press the V/M key: one touch of V/M returns you to the original memory channel, a second touch exits memory and enters you into VFO mode at the last frequency used in VFO mode.

### Labeling memories

Recall the memory channel you wish labeled. Press and hold the F key for one second to enter menu mode. Rotate the SEL knob to select Menu #35 [MEM TAG]. Press the SEL knob to enter the programming function, and rotate the MAIN dial to select the first character of the label. As each character is selected, rotate the SEL knob to go to the next character. When finished, press and hold the F key for one second.

Memory tags are visible when toggled. During memory operation, click the F key, then rotate the SEL knob to Function Row 2 and [MW MC TAG] show on the LCD.

on or off and sets duplex for negative or positive. The LCD will show - for minus offset, + for positive offset, and nothing if in simplex. Press the A key to scroll through the options. Then press the C key to scroll through the tone selections. A T indicates tone encoder for repeater use; T SQ indicates CTCSS encode/decode, and DCS is for digital squelch. Select T for repeater use. To set the right tone for a repeater, press and hold C [TON] for one second. This activates Menu #48 on the LCD; rotate the MAIN dial to select the desired tone frequency. When finished, press and hold the F key for one second to save the settings and exit to normal operation. (The B key for [REV] reverses the transmit and receive frequencies; I have no idea why we'd want to do this.)

### **Saving settings to memory; toggling from VFO to memory**

Settings may be saved to memory and recalled. Set the transceiver as desired. Click the F key; rotate the SEL knob to Function Row 2 [MW MC TAG] on the LCD. Press the A key [MW] to find an unused memory channel -- if there is a frequency displayed, the memory channel shown is in use. Rotate the SEL knob to select an unused channel or to overwrite a used one. Press and hold the A key for one second and until you hear a double beep.

To recall frequency settings from memory, press the

Rotate the knob to select Menu #07. The only options are F and R, selected by rotating the MAIN dial. When the rear connection is selected, the LCD shows an R; no indicator means the front connection has been chosen. The front antenna jack is a BNC connector, and the rear antenna jack is an SO-239 connector. The two jacks are not compatible without a converter.

### **Operation of the transceiver**

To operate the transceiver, turn it on (press and hold the PWR button until the radio beeps and comes alive), make sure an antenna is connected to the appropriate front or rear jack, and that the jack is selected as shown by an F or R on the LCD. Use the BAND[UP] or BAND[DWN] buttons to select the appropriate band. The last used frequency will be displayed as you scroll through the bands. For VHF/UHF, be sure the mode is FM (the mode is displayed in the upper right corner of the LCD). In FM mode, the SEL knob tunes the frequency. (The microphone has up and down buttons which will cause the radio to scan up or down the selected frequency much faster than you can turn the knob.)

### **Setting duplex and tone; repeater use**

Once the frequency is tuned, to set the radio for repeater use, click the F key and rotate the SEL knob until Function Row 4 is shown, and [RPT REV TON] shows on the LCD above the ABC keys. RPT turns duplex

tunes the VHF/UHF frequencies, and the MAIN dial tunes frequencies in other bands. Go figure.) On the bottom right of the front panel is a smaller knob called the SQL/RF knob. This knob has two parts, an inner knob and an outer dial. The inner knob adjusts the volume. The outer dial adjusts the squelch. If you are listening for a transmission that you know should be there, the squelch may be set too high; turn the dial counter-clockwise till you hear static.

Below the LCD are the three FUNC keys, A, B, and C. Click the F key and use the SEL knob to scroll through the available functions which may be set by the FUNC keys.

Frequency bands are selected via the buttons on top of the radio above the front panel (BAND[DWN]/BAND[UP]). Pressing these keys scrolls through the bands available on the radio. The MODE buttons to the left of the BAND buttons scroll through LSB, USB, CW, CWR, AM, FM, DIG, and PKT. On VHF/UHF (144 and 440), FM is used exclusively.

The radio has two antenna jacks, front and rear. The radio is set to use one or the other, and the radio will not transmit if it is not set to use the jack with the antenna in it. To select the front or rear jack, press and hold the F key for one second. This makes the SEL knob active for selecting menus as shown on the LCD.



## FT-817 Cheat Sheet

(There are separate instructions for connecting the transceiver to power and turning it on. “Click” means to press a button and to release it immediately; “press and hold” a button means to press it in and hold it for a second. See the attached photo.)

### The front panel

The power switch is the button on the far right of the front panel, upper corner, and it is labeled PWR. To the left of the power switch is the LOCK key. Pressing this key locks the controls, preventing inadvertent frequency changes. Continuing to the left, next is the V/M key; this key toggles between VFO and memory modes. The transmit/busy indicator is next. The light is green when squelch opens and red when transmitting. Finally, the last button before the LCD is the F key. Clicking the F key displays the functions available via the A, B, and C keys. (These keys are below the LCD screen.) The button to the left of the LCD is the HOME key; clicking it recalls your “home” frequency.

The knob to the left of the LCD is the SEL knob. Depending on the mode the radio is in, turning the SEL knob tunes a frequency or selects a memory channel or function for the ABC keys. The large dial to the right of the LCD is the MAIN dial. This is the main tuning dial for the radio. (Generally, in VFO mode the SEL knob