



**FT-60R Quick Reference Guide by Rich Bugarin W6EC**

**Functions:** Most keys on key pad have 3 functions,  
 Primary Function (PRESS KEY),  
 Secondary Function (PRESS [F/W] + KEY),  
 Third Function (PRESS & HOLD KEY).

**Basic Operation:** The [V/M] key toggles basic operation between V (VFO = Variable Frequency Operation) mode and M (Memory) mode. From VFO mode press the [V/M] key once to enter memory channel mode, from memory mode press [V/M] once to enter VFO mode.

**Set Mode:** There are 56 Items in the settings mode that may be used to alter the operation of the FT-60. To enter Set Mode press the [FW] key then the [0/set] key, then rotate the **DIAL** until desired set item is displayed. Press [FW] key to enter into that setting menu. Rotate **DIAL** knob to adjust setting then press **PTT** to exit setting mode.

**Useful Settings:**

- 6 (BEEP)** Enables/Disables key pad beeper.
- 12 (DC VLT)** displays DC Supply Voltage.
- 27 (NAME)** Toggles the display between frequency display and Alpha (name) display. Note select memory channel first then alter its Frequency/Alpha display.

**Automatic Power-Off (APO) Feature** The radio can be set to automatically turn off after a programed time limit. Use Set Mode 1 to change time setting.

**Transmitter Time-Out Timer (TOT)** The radio can be set to automatically stop transmitting after a set period of time. (Disables transmission if PTT key is stuck on. Use Set Mode 51 to change time setting.

**Key Pad Lock:** To lock keys and tuning dial press [FW] key then [6 LOCK] key, to unlock repeat same key sequence. To change what the lock will lock out use set mode item #25 (LOCK)

**Manual Tuning:** To manually tune radio, put radio into VFO mode as previously described. Key in desired frequency using numbered key pad until desired frequency is displayed, If programming for repeater (Duplex) use, check display for + or – repeater symbol this indicates radio is in Automatic Repeater Shift (ARS) mode. If no + or – symbol you can manually program repeater by pressing [F/W] key then [4/RPT] key, rotate **DIAL** knob to select (RPT.-), (RPT.+) or (OFF) mode then push **PTT** to lock in setting. To enable transmission of a CTCSS tone, press [F/W] key then [1/SQ TYP] key, rotate **DIAL** knob and select **TONE** then push **PTT** to lock in setting (note a **T** will be displayed next to the + or – symbol on display when in tone mode). To change CTCSS tone frequency press [F/W] key then [2/CODE] key, the currently selected tone frequency will be displayed, rotate **DIAL** knob to select the desired tone frequency then push the [FW] key to lock in setting.

**Saving to Memory:** To save above manually tuned frequency to memory. First tune radio as described above. Then press and hold in the [F/W] key for one second within five seconds of releasing the [F/W] key select a location to store data into, the radio will select the next available open memory location or you may rotate the **DIAL** and select another location. Press [FW] key to lock frequency into memory. The memory will remember the frequency, repeater shift, tone squelch option, CTCSS frequency, power level and ALPHA/Name tag into memory.

**Reserve memory channel #1 for the frequency you wish as your “Priority Memory Channel”.**

- (Some suggested Priority Memory Channel’s for Hi-Landers Club members are):
- 146.565 MHz (Poker Run Simplex)
  - 462.5675 MHz (FRS Chanel 2 Basecamp)
  - 444.9875 MHz + Offset 107.2 tone (Rubicon Repeater)
  - 146.805 MHz Neg. Offset 123 tone (Pollack Pines Rpt.)

**Power Level:** To change transmit power press [F/W] key then [3/TX PW] key, rotate **DIAL** knob to the select desired power level, then push **PTT** to lock in setting.

### **“HOME” Channel Memory**

A one-touch “HOME” channel allows quick recall of a favorite operating frequency. (For Hi-Landers club members 146.565 MHz is recommended).

#### **To program Home Channel:**

1. Change the setting of Set Mode Item **36: REV/HM** from “REV” to “HOME,” if it is not already set to home (see page 1 “Set Mode” for instructions)
2. Select the desired frequency, while operating in the VFO mode. (Manual Tuning on Page 1)
3. Press and hold in the [F/W] key for one second.
4. While the memory channel number is blinking, press the [HM/RV] key. (Home is now programmed).

**To recall the HOME channel:** press the [HM/RV] key to return to previous frequency press the [HM/RV] key again.

### **“Priority Channel” Scanning (Dual Watch)**

Dual Watch is a two-channel scanning system which allows you to operate on any frequency while periodically checking the Priority Channel.

#### **DW (Dual Watch) while monitoring from memory:**

Memory Channel#1 will be the Priority Channel. Set the radio to operate on any Memory channel, then press the [F/W] key, next press the [V/M (PRI)] key. You have now activated the memory #1 Dual Watch feature. “DW” will be displayed in the upper right corner of the display. To cancel Dual Watch press the [F/W] key, next press the [V/M (PRI)] key.

#### **DW (Dual Watch) while monitoring VFO, Home or Weather channels**

Recall **any memory channel** you wish to use as the “Priority” frequency. Set radio to operate on any VFO, Home channel or Weather frequency you wish to monitor, then press the [F/W] key, next press the [V/M (PRI)] key. You have now activated the any memory Dual Watch feature. “DW” will be displayed in the upper right corner of the display. To cancel Dual Watch press the [F/W] key, next press the [V/M (PRI)] key.

### **Memory Scanning**

Place the radio into memory mode (if not already there see page 1) Press and hold in either the [▲(MHz)] or [▼(MHz)] key for one second. ▲ to scan up or ▼ to scan down. If scan stops on an active channel you wish not to listen to, rotate the **DIAL** knob one click to resume scanning. Pressing the **PTT** key will stop scanning at current scanned memory channel.

### **Weather Broadcast Channels**

There are 10 pre-programmed NOAA weather stations. Press and hold in the [1(SQ TYP)] key for one second. Rotate the **DIAL** knob to select the desired Weather Channel. To exit to normal operation, press the [V/M (PRI)] key, or press and hold in the [1(SQ TYP)] key again.

### **Severe Weather Alert**

In the event of extreme weather disturbances, the NOAA (National Oceanic and Atmospheric Administration) sends a weather alert accompanied by a 1050 Hz tone and subsequent weather report on one of the NOAA weather channels.

**Weather Alert Scan** This feature allows you to check the Weather Broadcast Memory Channels for the presence of the NOAA Alert Tone while operating on VFO scan or Memory channel scan.

#### **To enable the Weather Alert Scan feature:**

1. Press the [F/W] key, then press the [0/SET] key.
2. Rotate the **DIAL** knob to Set Mode # 56: WX ALT.
3. Press the [F/W] key momentarily.
4. Rotate the **DIAL** knob to select “ALT. ON.”
5. Press PTT key to save the setting and exit.
6. To disable the Weather Alert, select “ALT.OFF”.

### **Programming P1 and P2 Key Assignment**

the [7(P1)] and [8(P2)] keys may be programmed by the user. Suggested settings set mode 27 (NAME) for [7(P1)] key and set mode 12 (DC VLT) for [8(P2)] Key. Press the [F/W] key, then press the [0/SET], rotate **Dial** knob to set #27 (NAME) then press and hold in the [7(P1)] for one second. Repeat with mode 12 for [8(P2)] Key.

### **Trouble Shooting**

You were told that your **radio sends out a beep tone** and cuts off some of your transmission. Likely problem is the radio is in the Internet Connection mode. If it is in that mode there will be a  icon displayed in the upper right corner of the display. To disable the Internet Connection, press the [0(  ) SET] key momentarily.

**The Dial knob or none of keys work.** Likely problem Key Pad may be locked. (See page #1 to unlock keys)

### **Notes**

MARS/CAP modified radios will transmit between 137-174 MHz (VHF) & 420-470 MHz (UHF) which includes FRS, GMRS, MUR & Marine bands. Useful during emergency communications situations. Non-modified radios transmit between 144-148 MHz (VHF) & 430-450 MHz (UHF) (Ham Bands only).

**You as the licensed control operator are responsible for the compliance of all FCC rules of operation, including use of proper bands, power and proper identification.**