

**1. Change To A Previously Programmed Channel:**

1) Press  or .

*Or*

1) Press .

2) Press desired preset channel number such as    (for channel 24) and press .

**2. Load A New Channel Into Memory:**

1) Press  then .

2) Press keys corresponding to desired receive frequency “RX” (omitting the 1) and press .

3) Press keys corresponding to desired transmit frequency “TX” (omitting the 1) and press . Radio automatically copies receive frequency settings to transmitter setting as a default.

4) Press  or  to select **12.5** (normal) or 25.0 bandwidth and press .

5) Press  or  to change left most “MN” display character (A-Z, +/- (etc.), and 0-9 available) and press . Continue step 5 until all nine spaces are filled. You may also skip this step by pressing  nine times. Blank space located between 9 and A. Press  to backup cursor (F14 only).

6) Set scan as either scan off “LOCKOUT” or scan on “SCAN”. On older TFM-138B radios, the scan is either on or off. Scan on newer F14 radios can be off or in any of the five scan banks.

a. Older TFM-138B radios: Press  or  to change from scan off “LOCKOUT” or scan on “SCAN” and press .

b. Newer F14 radios: Press  for scan off “LOCKOUT” or one or more of the scan banks     or  and press .

7) Save settings to a preset channel by pressing keys representing where you want information saved to such as    (for channel 6) then press .

8) Program GD frequencies and display (no bandwidth capability here) if desired and press .

**3. Load New Frequency – Direct Channel Method (Channel 000):**

1) Press  then .

2) Press keys corresponding to desired frequency (omitting the 1) and press .

3) Press  or  to select **12.5** (normal) or 25.0 bandwidth and press .

TFM-138B Basic Programming Instructions

4. Load CTCSS Tone:

- 1) Press **\* FUNC** then **2 TONE**.
- 2) Receive tones are normally set to TONE 64, or no tone. If a receiver tone is desired, press **4 M.UP** or **7 M.DN** until desired receive tone displayed and press **# ENTER**. Some radios will skip this step.
- 3) Press **4 M.UP** or **7 M.DN** until desired transmit tone displayed and press **# ENTER**.
- 4) Change guard “G1” or “G2” tone, if desired, and press **# ENTER** until radio returns to normal operation.
- 5) If radio displays “DPL”, enter 000. CTCSS tones and DPL cannot operate simultaneously.

5. Change Bandwidth:

- 1) To change a channel’s bandwidth that is already in main memory, follow Section 2.
- 2) To change guard bandwidth, you must copy main channel information into a guard selection. You cannot change guard bandwidth directly. Ensure radio Configuration settings are properly set by:
  - a. Turn radio off and set all three toggle switches up.
  - b. Press and hold **# ENTER** **0 RCL** **\* FUNC** simultaneously while turning radio on.
  - c. Once “CONFIGURATION” is displayed, release the three buttons.
  - d. Press **# ENTER** until “FUNC 7” is displayed and press **4 M.UP** or **7 M.DN** until FUNC 7 is “ON”.
  - e. Continue to press **# ENTER** until radio starts up normally.
  - f. Program guard frequency, bandwidth, display, and tone into any main channel, follow Section 2.
  - g. Press **\* FUNC** then **7 M.DN** and main channel information will copy into selected guard channel.

**6. General Information:** Tones are assigned by channel. Never use a tone on a receive frequency unless operationally required. The guard receiver is independent from the main receiver; however, they both use the main transmitter. Set guard to 168.6250 MHz (Air Guard) with a transmitter tone of 110.9 Hz. There are 120 possible main pre-set channels. TFM-138B radios cannot be programmed through the C-130 SCNS system.

- 1) Determine if you have an F14 radio by turning the radio on. Look at the lower right display. F14 will be displayed on newer radios. Older radios will not display anything in this area during boot-up.
- 2) Adjust display brightness with **6 UP** (brighter) and **9 DN** (dimmer).
- 3) The radio keypad can be locked out. Lock keypad by pressing **\* FUNC** then **3 LOCK**. Unlock keypad by holding **3 LOCK** until “UNLOCK” is displayed.
- 4) Channels capable of being scanned are identified with a “+”. Shortcut (F14 only) – Clear a channel of all scan data or enter scan data into a main channel by pressing **\* FUNC** then **# ENTER**.

Visit the NIICD website for the complete TFM-138B Operator’s Guide at: [www.fs.fed.us/fire/niicd/documents](http://www.fs.fed.us/fire/niicd/documents)