Programming the TDFM-136 series radio in P25 Digital

June 30, 2022

1. **Place radio into Digital mode (THIS MUST BE DONE FIRST)**
   1) Press \( \textcolor{red}{\text{MODE}} \)
   2) Press \( \textcolor{red}{\text{AOB}} \) again until “D” appears in the flashing cursor.
   3) Press \( \textcolor{red}{\text{ENT}} \)

2. **Enter receive and transmit frequencies**
   4) Press \( \textcolor{red}{\text{FSK}} \)
   5) Enter receive frequency
   6) Press \( \textcolor{red}{\text{ENT}} \)
   7) Enter transmit frequency
   8) Press \( \textcolor{red}{\text{ENT}} \)

3. **Edit TalkGroup (TalkG) and NAC codes**
   Determine if Talkgroups will be used. TalkGroups may or may not be used.
   
   *(Talkgroups are shown as a four character \$12AB* HEX code or a five digit number 12345 Decimal code)*
   
   Receive NAC codes may or may not be used; however, transmit NAC codes are *always* used.
   
   *(NAC codes are shown as a three character \$12A* HEX code or a four digit number 1234 Decimal code)*

   **A. If Talkgroups will not be used**
   9) Press \( \textcolor{red}{\text{AOB}} \)
   10) Press \( \textcolor{red}{\text{AOB}} \) again until “Rn” appears
   11) Press \( \textcolor{red}{\text{ENT}} \)
   12) Enter the receive NAC code
   13) Press \( \textcolor{red}{\text{ENT}} \) twice
   14) Press \( \textcolor{red}{\text{ENT}} \) a third time to bypass transmit TalkGroup codes
   15) Enter the transmit NAC code
   16) Press \( \textcolor{red}{\text{ENT}} \)

   **B. If Talkgroups will be used**
   9) Press \( \textcolor{red}{\text{AOB}} \)
   10) Press \( \textcolor{red}{\text{AOB}} \) again until “Rg” appears
   11) Press \( \textcolor{red}{\text{ENT}} \)
   12) Enter the receive TalkGroup code
   13) Press \( \textcolor{red}{\text{ENT}} \)
   14) Enter the receive NAC code
   15) Press \( \textcolor{red}{\text{ENT}} \) twice
   16) Enter the transmit TalkGroup code
   17) Press \( \textcolor{red}{\text{ENT}} \)
   18) Enter the transmit NAC code
   19) Press \( \textcolor{red}{\text{ENT}} \)
C. If No receive TalkGroup and NAC codes will be used (digital equivalent of analog Rx)

9) Press 9
10) Press 9 again until “Rm” appears
11) Press # twice
12) Enter the transmit TalkGroup code
13) Press #
14) Enter the transmit NAC code
15) Press #

4. If needing to toggle the radio to display either Hex or Decimal TalkGroup and NAC code formats

Example of a HEX code: (same information as Decimal)

- Tone Code
- TalkG NAC
- $0001 $293

Example of a Decimal code: (same information as HEX)

- Tone Code
- TalkG NAC
- 1 $659

1) Press 0 twice (Level 3)
2) Press 3
3) Press # until either Hex or Decimal is displayed
4) Press #

Note: There are “Decimal to HEX” Apps available that can also do this conversion

5. To review radio code settings for correct TalkGroup and NAC code information

(Cannot edit displayed information – view only)

1) Press 0 twice (Level 3)
2) Press 3
3) In upper left corner of display: if
   - Rm appears: Skip. All receive information displayed is not active.
   - Rn appears: Only review receive information under NAC header. TalkG information not active.
   - Rg appears: Review both receive TalkG and NAC information under header.
4) Press 9
5) Review transmit information below TalkG and NAC header for correct information
6) Press #

Note: Technisonic radios use a “$” to indicate HEX. NAT (Cobham) radios use a “h” to indicate HEX.

Note: When no TalkGroup or NAC is set the default codes are TalkGroup $0001 and NAC $293.
Note: The codes to allow “receive all” is TalkGroup $FFFF and NAC $F7E (or Rm).

Copies of this sheet are available at: https://www.nifc.gov/resources/NIICD/niicd-documents