# TiL

**TDFM-136/136A**
Quick Reference Guide

For Radio Firmware: 3.x.x



1. LED channel squelch indicators – Lights when signal received (Top: Main, Bottom: Guard).
2. Channel parameter display – (2 line by 24 character LED display) (Top: Main, Bottom: Guard).
3. MAIN (Rotary+Switch) – Power ON/OFF and Main channel volume control.
4. GUARD (Rotary) – Guard channel volume control.
5. Squelch Defeat (Push button) – Press to open squelch (in analog modes of operation)
6. Keyloader/Data Port – Not available on some models. Use with KVL 3000+ keyloader.  Data for some TDFM-136A's (SN FDA 1200 & up) only.
7. MN/GD (Toggle Switch) – Selects active channel (main or guard), for transmit and memory edit.
8. G1/G  (Toggle Switch) – Selects guard memory (GD1 or GD2), for transmit and edit.
9. HI/LO (Toggle Switch) – Selects transmit power, high (10W) or low (1W).
10. KEYPAD (12 Keys) – Control radio functions, 3 command levels as follows:

| Basic functions on L1 | | **Command Level 1: press the desired "Cmnd" key** | | |
|---|---|---|---|---|
| **Cmnd** | Function | Edit Keys | OK | Exit |
| 1 CHAN | SELECT CHANNEL MEMORY | 0 PROG TO 9 SQL ENTER THREE DIGIT CHANNEL NUMBER INTO MEMORY  (001 to 230) | # ENTER | * ESC |
| 2 | DISPLAY BRIGHTER | | | |
| * 3 MODE | *EDIT OPERATING MODE* | 3 MODE 2 8 STEP UP/DOWN THROUGH OPERATING MODES **("n" or "D")** | # ENTER | * ESC |
| * 4 | *SCROLL CHANNEL DOWN* | SCROLL DOWN THROUGH PROGRAMMED/ACTIVE MEMORY CHANNELS | | |
| 5 SCAN | SCAN ON/OFF | 5 SCAN OR * ESC  STOP SCAN | | |
| * 6 | *SCROLL CHANNEL UP* | SCROLL UP THROUGH PROGRAMMED/ACTIVE MEMORY CHANNELS | | |
| * 7 FREQ | *EDIT FREQUENCY* | 0 PROG TO 9 SQL SELECT Rx FREQUENCY THEN # ENTER  REPEAT FOR Tx FREQUENCY | # ENTER | * ESC |
| 8 | DISPLAY DIMMER | | | |
| * 9 SQL | *EDIT TONE or CODE* | 9 SQL 2 8 STEP UP/DOWN THROUGH SQUELCH MODES. Tx FOLLOWS Rx. | # ENTER | * ESC |
| | **Tone:**  **P25 Code:** <br> x - Off   m - Monitor (i.e. x) <br> t - On   n - NAC only <br> c - Code   **g  - TGID + NAC** | 2 8 STEP UP/ DOWN THROUGH: **TONES,** CODES, **TGID & NAC** <br> EXAMPLE:  110.9   754   $37A1   $F56  ($=HEX) <br> 0 PROG TO 9 SQL DECIMAL EDIT FOR NOISE SQL VALUE (00 TO **15**) | # ENTER | * ESC |
| 0 PROG | GO TO NEXT LEVEL | GO TO THE NEXT HIGHER COMMAND LEVEL | | |
| * # ENTER | *TOGGLE HOME/CURRENT* | TOGGLE BETWEEN 'HOME' CHANNEL AND CURRENTLY DISPLAYED CHANNEL. | | |
| * ESC | TOGGLE TALK AROUND | FOR DUPLEX CHANNELS: RADIO USES RX INFORMATION FOR TX.  "UP" ARROW | | |

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| Cmnd | Function | Edit Keys | OK | Exit |
|---|---|---|---|---|
| * [1 CHAN] | **CREATE or EDIT CHANNEL** | [0 PROG] TO [9 SQL] SELECT CHANNEL MEMORY TO EDIT<br>THEN EDIT: SCAN LIST (L2-5), TEXT DESCRIPTION (L2-6)<br>OPERATING MODE (L1-3), FREQUENCY (L1-7), & SQUELCH (L1-9) | [# ENTER] | [* ESC] |
| [2↑] | COPY GUARD TO MAIN | COPY CHANNEL INFORMATION FROM GUARD TO MAIN (default disabled) | | |
| * [3 MODE] | **LOCK KEYPAD** | PRESS & HOLD [* ESC] TO UNLOCK KEYPAD | | |
| [4←] | n/u | | | |
| [5 SCAN] | EDIT SCAN LISTS | [5 SCAN] [2↑] [8↓] STEP UP/DOWN THROUGH AVAILABLE SCAN LISTS<br><br>[0 PROG] TOGGLE ENABLE/DISABLE FOR SCAN (BAR OVER DIGIT = DISABLED) | [# ENTER] | [* ESC] |
| * [6→] | **EDIT CHANNEL TEXT** | [3 MODE] STEP THROUGH THE FOUR CHARACTER GROUPS (**AZ, az, 09, and BLANK**/)<br>[2↑] [8↓] SCROLL UP & DOWN THROUGH CHARACTERS IN SELECTED GROUP<br>[4←] [6→] MOVE CURSOR LEFT & RIGHT | [# ENTER] | [* ESC] |
| [7 FREQ] | CREATE SHADOW | [0 PROG] TO [9 SQL] SELECT CHANNEL MEMORY TO EDIT<br>THEN EDIT: TEXT (L2-6), MODE (L1-4), SQUELCH (L1-9) | [# ENTER] | [* ESC] |
| [8↓] | COPY MAIN TO GUARD | COPY CHANNEL INFORMATION FROM MAIN TO GUARD (default disabled) | | |
| [9 SQL] | TOGGLE ENCRYPTION | TOGGLE ENCRYPTION ON/OFF (ONLY FOR MEMORIES WITH KEY ASSIGNED) | [# ENTER] | [* ESC] |
| [0 PROG] | GO TO NEXT LEVEL | GO TO THE NEXT HIGHER COMMAND LEVEL | | |
| [# ENTER] | SET HOME CHANNEL | SET 'HOME' CHANNEL INTO MEMORY (FOR MAIN RADIO ONLY). | [# ENTER] | [* ESC] |
| [* ESC] | GO TO PREVIOUS LEVEL | GO TO THE PREVIOUS COMMAND LEVEL | | |

| Cmnd | Function | Edit Keys | OK | Exit |
|---|---|---|---|---|
| [1 CHAN] | SET BOOT CHANNEL | [1 CHAN] [2↑] [8↓] STEP UP/DOWN THROUGH BOOT MEMORY OPTIONS | [# ENTER] | [* ESC] |
| [2↑] | ASSIGN KEY BY KEYTAG | [2↑] [8↓] PICK MEMORY, [2↑] [8↓] PICK KEY, [2↑] [8↓] PICK DECRYPT OPTION | [# ENTER] | [* ESC] |
| * [3 MODE] | **SET P25 MODE** | [3 MODE] [2↑] [8↓] TOGGLE P25 **HEX/DECIMAL** EDIT MODE (**For TGID & NAC CODES**)<br>($F56/3926) | [# ENTER] | [* ESC] |
| [4←] | DISPLAY FIRMWARE REV. | [4←] [2↑] [8↓] STEP THROUGH MAIN & BOOT FIRMWARE VERSIONS | [# ENTER] | [* ESC] |
| [5 SCAN] | SET SCAN PARAMETERS | [5 SCAN] [2↑] [8↓] SELECT REVERT MODE<br>THEN<br>[0 PROG] TO [9 SQL] SET TIMERS (REPLY, MONITOR, DELAY) | [# ENTER] | [* ESC] |
| [6→] | SET PTT TIMER | [6→] [2↑] [8↓] STEP UP/DOWN THROUGH TIMER VALUES (30, 60, 90 SEC) | [# ENTER] | [* ESC] |
| * [7 FREQ] | **SET SIDETONE AUDIO** | [0 PROG] TO [9 SQL] SET SIDETONE LEVEL (00 TO 85) **(TDFM-136=52, TDFM-136A=68)** | [# ENTER] | [* ESC] |
| [8↓] | PC COMMUNICATION | MUST BE CONNECTED TO A PC OPERATING TDP-136 SOFTWARE | | [* ESC] |
| * [9 SQL] | **SHOW TONES/CODES** | [9 SQL] [2↑] [8↓] TOGGLE Rx/Tx SQUELCH PARAMETER DISPLAY **(CHECK TONES)** | [# ENTER] | [* ESC] |
| [0 PROG] | GO TO NEXT LEVEL | GO TO THE NEXT HIGHER COMMAND LEVEL (**L4 PASSWORD PROTECTED**) | | |
| [# ENTER] | n/u | | | |
| [* ESC] | GO TO PREVIOUS LEVEL | GO TO THE PREVIOUS COMMAND LEVEL | | |

**NOTES:**
- The channel being edited is determined by the position of the front panel switches MN/GD and G1/G2.
- Current command level is shown at 4th character on bottom row (between GD2 and text).
- **Levels 2 & 3 time out. The radio will return to Level 1 if a "Cmnd" key is not entered within 5 seconds.**
- Download this Quick Reference Guide @ www.nifc.gov/NIICD/documents.html

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