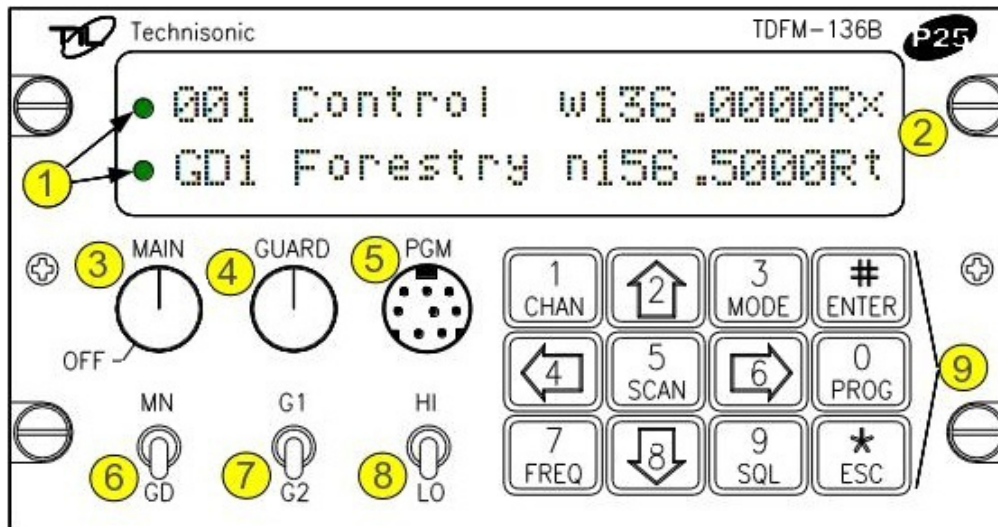For Radio Firmware: 1.x.x

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 Multi-function rotary encoder (default: Main volume, press for ON, press & hold for OFF).
4. GUARD Multi-function rotary encoder (default: Guard volume, press for Squelch defeat).
5. Data port – for use with KVL 3000+ keyloader or TDP-136 Programming software.
6. MN/GD (Toggle Switch) – Selects active channel (main or guard), for transmit and edit.
7. G1/G1 (Toggle Switch) – Selects guard memory (GD1 or GD2), for transmit and edit.
8. HI/LO (Toggle Switch) – Selects transmit power, high (10W) or low (1W).
9. KEYPAD (12 Keys) – Control radio functions, 3 command levels as shown below.

Command Level 1: press the 'Cmnd' key. . .					
Cmnd	Function	Edit Keys		OK	Exit
1 CHAN	SELECT MEMORY	0 PROG TO 9 SQL ENTER CHANNEL MEMORY (001 to 230)		# ENTER	* ESC
2	DISPLAY BRIGHTER				
3 MODE	EDIT OPERATING MODE	3 MODE 2 8 STEP UP/DOWN THROUGH OPERATING MODES		# ENTER	* ESC
4	SCROLL MEMORY DOWN	SCROLL DOWN THROUGH THE PROGRAMMED MEMORY POSITIONS			
5 SCAN	SCAN ON/OFF	5 SCAN OR * ESC STOP SCAN			
6	SCROLL MEMORY UP	SCROLL UP THROUGH THE PROGRAMMED MEMORY POSITIONS			
7 FREQ	EDIT FREQUENCY	0 PROG TO 9 SQL SELECT FREQUENCY THEN # ENTER Tx FOLLOWS Rx.		# ENTER	* ESC
8	DISPLAY DIMMER				
9 SQL	EDIT SQUELCH MODE	9 SQL 2 8 STEP UP/DOWN THROUGH SQUELCH MODES. Tx FOLLOWS Rx.		# ENTER	* ESC
	EDIT SQUELCH VALUE	2 8 STEP UP/ DOWN THROUGH: TONES, CODES, TG & NAC (HEX)		# ENTER	* ESC
		0 PROG TO 9 SQL DECIMAL EDIT FOR NOISE SQL VALUE (00 TO 15)			
0 PROG	GO TO NEXT LEVEL	GO TO THE NEXT HIGHER COMMAND LEVEL			
# ENTER	TOGGLE HOME/CURRENT	TOGGLE BETWEEN 'HOME' MEMORY AND CURRENTLY DISPLAYED MEMORY.			
* ESC	TOGGLE TALK AROUND	IF DUPLEX MEMORY, THEN USE RX PARAMETERS FOR TX.			

		press `0 PROG` to get to Command Level 2, then the 'Cmnd' key. . .		OK	Exit
Cmnd	**Function**	**Edit Keys**		**OK**	**Exit**
`1 CHAN`	CREATE/EDIT CHANNEL	`0 PROG` TO `9 SQL` SELECT CHANNEL MEMORY TO EDIT THEN EDIT: SCAN LIST (L2-5), TEXT DESCRIPTION (L2-6) OPERATING MODE (L1-3), FREQUENCY (L1-7), & SQUELCH (L1-9)		`# ENTER`	`* ESC`
`2`	COPY GUARD TO MAIN	COPY CHANNEL PARAMETERS FROM GUARD TO MAIN (default disabled)			
`3 MODE`	LOCK KEYPAD	`* ESC` UNLOCK KEYPAD			
`4`	n/u				
`5 SCAN`	EDIT SCAN LISTS	`5 SCAN` `2` `8` STEP UP/DOWN THROUGH AVAILABLE SCAN LISTS `0 PROG` TOGGLE ENABLE/DISABLE FOR SCAN (BAR OVER DIGIT = DISABLED)		`# ENTER`	`* ESC`
`6`	EDIT TEXT DESCRIPTION	`3 MODE` STEP THROUGH CHARACTER GROUPS (A, a, 0, BLANK) `2` `8` STEP/SCROLL UP/DN THROUGH CHARACTERS IN SELECTED GROUP `4` `6` MOVE CURSOR FORWARD/BACKWARD		`# ENTER`	`* ESC`
`7 FREQ`	CREATE SHADOW	`0 PROG` TO `9 SQL` SELECT CHANNEL MEMORY TO EDIT THEN EDIT: TEXT (L2-6), MODE (L1-4), SQUELCH (L1-9)		`# ENTER`	`* ESC`
`8`	COPY MAIN TO GUARD	COPY CHANNEL PARAMETERS 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 MEMORY	SET THE 'HOME' MEMORY FOR MAIN CHANNEL (ANY EXISTING MAIN MEMORY).		`# ENTER`	`* ESC`
`* ESC`	GO TO PREVIOUS LEVEL	GO TO THE PREVIOUS COMMAND LEVEL			

		press `0 PROG` + `0 PROG` to get to Command Level 3, then the 'Cmnd' key. . .		OK	Exit
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 NUMERIC EDIT MODE	`3 MODE` `2` `8` TOGGLE HEX/DECIMAL EDIT MODE (FOR T.G & NAC)		`# ENTER`	`* ESC`
`4`	DISPLAY RADIO INFO	`4` `2` `8` STEP THROUGH AVAILABLE INFORMATION		`# ENTER`	`* ESC`
`5 SCAN`	SET SCAN PARAMETERS	`5 SCAN` `2` `8` SELECT REVERT MODE THEN `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 255)		`# ENTER`	`* ESC`
`8`	PC COMMUNICATION	MUST BE CONNECTED TO A PC RUNNING TDP-136 SOFTWARE			`* ESC`
`9 SQL`	SHOW SQUELCH VALUES	`9 SQL` `2` `8` TOGGLE Rx/Tx SQUELCH PARAMETER DISPLAY		`# ENTER`	`* ESC`
`0 PROG`	GO TO NEXT LEVEL	GO TO THE NEXT HIGHER COMMAND LEVEL (NB PASSWORD LOCKED)			
`# 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.
- Levels 2&3 are time limited, the unit will return to level 1 if no activity in 5 seconds.

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