

# Tactical Feature Set - TK-2180 / 3180 / 7180 /8180

## **Tactical Feature Set Option Summary**

Among other features, the Tactical Feature Set Option (TFS) allows the radio user to create a single Tactical Zone from pre-programmed individual channels or entire Zones. Also the user may select a different QT tone / DQT code from a pre-stored Operator Selectable Tone (OST) table, change, add and delete the Tactical Zone channels from the radio controls / keypad and Clone Tactical Zone to other radios with the Tactical Zone option installed.

The Tactical Feature Set has four available functions.

1. Tactical Zone (a.k.a. "TAC Zone or Zone 0")  
User can add any pre-programmed channels or all channels in a Zone to a TAC Zone.  
User may also delete any channel or all channels from the TAC Zone.
2. OST Tactical Zone  
A pre-programmed TAC Zone OST table is available for user selection using a pre-programmed [OST Up] and [OST Down] keys.
3. Cloning Tactical Zone  
The Tactical Zone in a source radio may be cloned to a target radio (with TFS installed). If the target radio does not already have a TAC Zone, cloning will create it. If already has a TAC Zone, cloning will overwrite it.
4. Tactical Zone Setting (programming)  
Permits a user to individually program many TAC Zone channel functions such as TX/RX frequency, QT / DQT, etc. via the radio controls/keypad.

Note:

- When the TFS option is installed in a radio, TAC Zone 0 utilizes one (1) Zone of radio's zone capacity, therefore the radios remaining "software programmable" capacity is reduced from 128 Zones to 127 Zones total.
- TAC Zone 0 is limited to a maximum of 250 channels. The radio is limited to 512 channels maximum for all Zones combined

## **Tactical Zone**

The table lists items that may be programmed in the TAC Zone (Zone 0) by software or self-programming and those items that are TAC Zone cloned.

### **Zone Edit**

Item	Software Programming	Self Program	Tactical Clone
Zone Name	✓	✓	✓
Data Zone-CH/GID	✓		✓
Home Channel	✓		✓
Home Channel Operator Selectable	✓	✓	✓
Optional Signaling Decode Condition	✓		✓
Audio Control	✓		✓
Time-out Timer	✓	✓	✓
TOT Pre-alert	✓		✓
TOT Rekey Time	✓		✓
TOT Reset Time	✓		✓
BCL Override	✓		✓
Zone Add	✓		✓
Scan List	✓		✓
Scan List Table	✓		✓

### **Channel Edit**

Item	Software Programming	Self Program	Tactical Clone
RX Frequency	✓	✓	✓
TX Rrequency	✓	✓	✓
QT/DQT Decode	✓	✓	✓
QT/DQT Encode	✓	✓	✓
Channel Name	✓	✓	✓
TX Power	✓	✓	✓
Wide/Narrow	✓	✓	✓
Optional Signaling	✓		✓
Busy Channel Lockout	✓	✓	✓
PTT ID	✓	✓	✓
Beat Shift	✓	✓	✓
Scan Add	✓		✓
Componder	✓		✓
Data	✓		✓
Voice Scrambler	✓		✓
Scrambler Code	✓		✓

## Others

Item	Software Programming	Self Program	Tactical Clone
Sub LCD Display	✓	✓	✓
Display Character	✓	✓	✓
Auto Backlight	✓	✓	✓
Tone Mute	✓	✓	✓
Battery Saver	✓	✓	✓
PTT ID Type	✓	✓	✓
Beginning of Transmit	✓	✓	✓
End of Transmit	✓	✓	✓
Busy LED	✓	✓	✓
OST Status Memory	✓		✓
Tone Off	✓		✓
Setting/Clone Mode	✓		
Setting/Clone Mode Password	✓	✓	
OST Name (List 1~40)	✓		✓
QT/DQT Decode (List 1~40)	✓		✓
QT/DQT Encode (List 1~40)	✓		✓
Priority 1	✓	✓	✓
Priority 2	✓	✓	✓
Priority 1 Zone-CH	✓	✓	✓
Priority 2 Zone-CH	✓	✓	✓
Revert CH	✓	✓	✓
Revert CH Display	✓	✓	✓
OST Key	✓	✓	✓
Scan Delete/Add Key	✓	✓	✓
Emergency Channel Type	✓	✓	✓

## **Tactical Zone Key**

The TAC key is used to add channels into the TAC Zone (Zone 0) from Zones 1 to 127 and delete channels from the TAC Zone (Zone 0).

- To ADD A SINGLE CHANNEL to the TAC Zone, press the TAC key for (3) seconds; the selected channel is copied into the TAC Zone.
- To ADD ALL CHANNELS in the currently selected Zone to the TAC Zone, press the TAC key for (6) seconds; all the channels are copied into the TAC Zone.
- To DELETE A SINGLE CHANNEL from the selected TAC Zone, press the TAC key for (3) seconds; the selected channel is deleted from the TAC Zone.
- To DELETE ALL CHANNELS from the currently selected TAC Zone, press the TAC key for (6) seconds; all the channels are deleted from the TAC Zone (entire TAC Zone is now erased).

Notes:

- Tactical Zone is only available for Conventional Zone operation (not LTR trunk Zones).
- When the TFS option is installed in a radio, TAC Zone 0 utilizes one (1) Zone of capacity, therefore the radios remaining is 127.
- The "software programmable" capacity is reduced from 128 Zones to 127 Zones total.
- TAC Zone 0 is limited to a maximum of 250 channels. The radio is limited to 512 channels maximum for all Zones combined

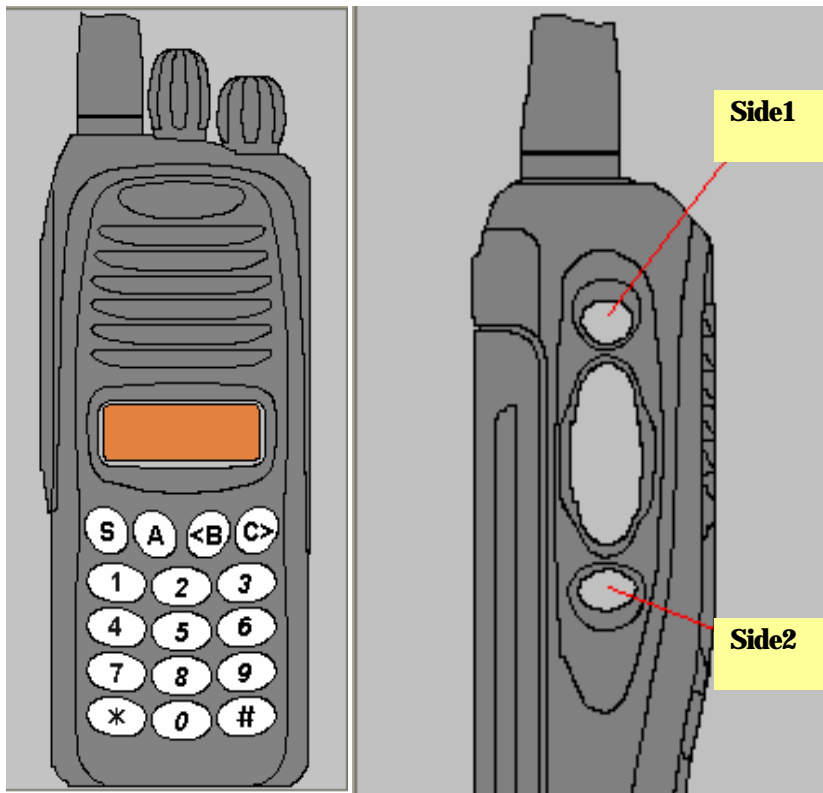
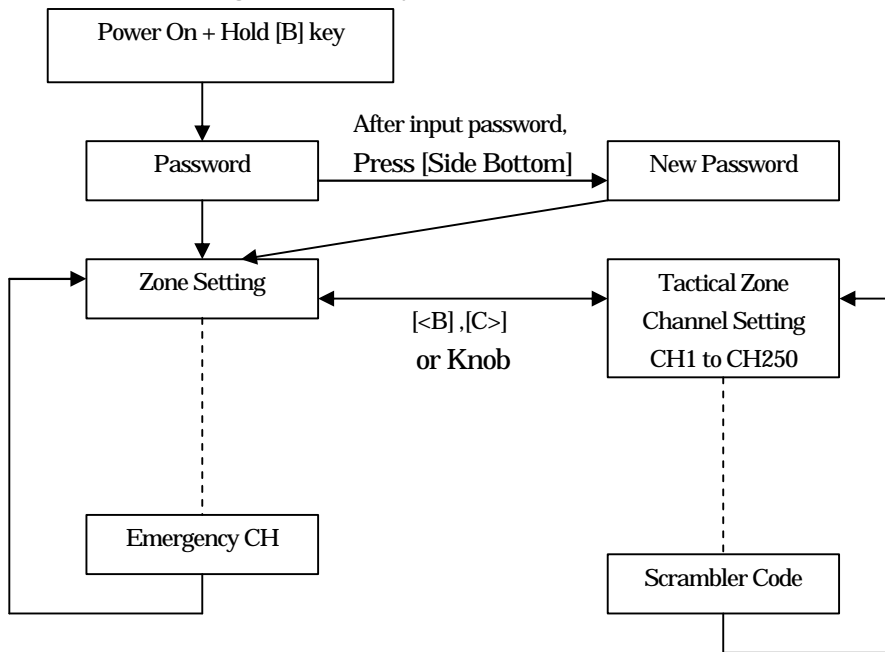
## **OST Up/Down Key**

The [OST Up] and [OST Down] keys are used to change the OST value setting on a channel based on the Tactical Feature Set's OST table set by the programming software (FPU).

If [OST Up] and [OST Down] were pressed, the OST alphanumeric name set by FPU will be displayed in the LCD and set.

## **Tactical Zone Setting Mode**

In the Tactical Zone Setting Mode (TAC Zone only), channel parameters of each channel may be changed; new channels may be added or existing channels may be deleted.



- |             |                            |
|-------------|----------------------------|
| S           | Enter/Proceed to next item |
| A           | Delete (Delete All)        |
| <B          | Increment DWN/ Left        |
| C>          | Increment UP / RT          |
| Side 1 Hold | Return to start            |
| Side 1      | Skip                       |
| Side 2      | Clone                      |

### Password Entry To Zone Setting Mode

1. Press/hold B while turning POWER ON
2. Enter 000000 (6-digit default Password), then press S or \* key (asterisk) to enter
3. If incorrect password entered: displays "ERROR" then "PASSWORD" (return to step 1).
4. If correct password entered; displays "ZONE SETTING"

To change password, enter old password "000000", press Side 2, enter New Password, press 'S' or '\*' to enter; displays "NEW PSWD OK!"

### Zone Setting

Select ZONE SETTING (Press '<B' 'C>' key or 'Top Selector' to go to CHANNEL SETTING). Enter the desired settings for each parameter to change.

NAM: Zone Name

HC : Home CH operator select

TOT: Time-out Timer

SUB: Sub LCD Display

DSP: Display character select

LMP: LCD backlit

TON: Tone mute

SAV: Battery Saver

ID : PTT-ID type

BOT: Beginning Of Transmission (DTMF)

EOT: End Of Transmission (DTMF)

BSY: Busy LED

P1 : Priority 1

P2 : Priority 2

REV: Revert CH

SCN: Scan

OST: Operator Selectable Tone

D/A: Scan Delete Add

EMG: Emergency CH

S      Enter/Proceed to next item

A      Delete (Delete All)

<B    Increment DWN/ Left

C>    Increment UP / RT

Side 1 Hold    Return to start

Side 1          Skip

Side 2          Clone

### Channel Setting

RX : Receive FREQ

TX : Transmit FREQ

DEC: Decode QT/DQT

ENC: Encode QT/DQT

NAM: CH Name

PWR: TX Power

W/N: Wide/Narrow

BCL: Busy Channel Lockout

ID : PTT-ID select

BS : Beat Shift

**Tactical Clone Mode** -allows the Tactical Zone to be copied to other radios with TFS installed.

1. Connect the clone cable between the source and a target radio.
2. Enter the Zone Setting mode on the source radio only. Turn on the target radio (does NOT need be in Zone Setting mode).
3. Press the Side 2 key (under PTT key) of the source radio (Tactical Clone Mode entered). Press the front panel [S] key to initiate Tactical Cloning (LED and LCD indicate progress and completion).