1. Turn radio ON and select a Zone/Group you wish to program.

2. Press the 4-Way Navigation key to the right once or until the " **FPP**" softkey is visible on the display. **(See figure 1)**
   Press the "**FPP**" softkey to proceed into programming mode.
   Radio will indicate or ask for programming password, press the " **OK**" softkey to enter program mode. **(See Figure 2)**
   Radio will display active zone, select the desired zone by pressing the 4-Way Navigation key left or right. **(See Figure 3)**
   Once the desired zone is reached, press the " **VIEW**" softkey to change the channel programming information. **(See Figure 4)**

3. Select the desired channel to program, by pressing the 4-Way Navigation key left or right.
   Once the desired channel is reached, press the " **VIEW**" softkey to change that particular channel programming information.

4. The display will indicate " **TX:xxx.xxxxxx**", press the "**EDIT**" softkey to change the TX frequency. **(See Figure 5)**
   Enter the desired TX frequency and press the " **OK**" softkey, then press the 4-Way Navigation key to the right to enter the RX frequency.

5. The display will indicate " **RX:xxx.xxxxxx**", press the "**EDIT**" softkey to change the RX frequency. **(See Figure 6)**
   Enter the desired RX frequency and press the " **OK**" softkey, then press the 4-Way Navigation key to the right to enter the TX tone.

6. The display will indicate " **TX PL: 0 CSQ**", press the "**EDIT**" softkey to change the TX tone. **(See Figure 7)**
   Enter a valid TX tone via the keypad and press the " **OK**" softkey, **or**
   Press the 4-Way Navigation key up or down and select the desired tone and press the " **OK**" softkey.
   Press the 4-Way Navigation key to the right to enter the RX tone.
   NOTE: If an invalid tone is entered, radio will default to the closest valid tone.
   NOTE: "0 CSQ" is default for NO TONE.

7. The display will indicate " **RX PL: 0 CSQ**", press the "**EDIT**" softkey to change the RX tone. **(See Figure 8)**
   Enter a valid RX tone via the keypad and press the " **OK**" softkey, **or**
   Press the 4-Way Navigation Key up or down and select the desired tone and press the " **OK**" softkey.
   Press the 4-way Navigation key to the right to enter the TX DPL.
   NOTE: If an invalid tone is entered, radio will default to the closest valid tone.
   NOTE: "0 CSQ" is default for NO TONE.

9. The display will indicate " **TX DPL: 0 CSQ**", do not change, press the 4-Way Navigation Key to the right to enter the RX DPL.
10. The display will indicate " **RX DPL: 0 CSQ**", do not change, press the 4-Way Navigation Key to the right to enter the TX NAC.
11. The display will indicate " **TX NAC: $293**", no not change, press the 4-Way Navigation Key to the right to enter the RX NAC.
12. The display will indicate " **RX NAC: $293**", do not change, press the 4-Way Navigation key to the right to enter the RX Type.
    NOTE: Do not change TX/RX DPL, or TX/RX NAC for analog channels, these parameters are used for digital channels only.
    NOTE: TX/RX DPL and TX/RX NAC will display analog equivalent information.

13. The display will indicate " **RX Type: ANALOG**", press the "**EDIT**" softkey to change the RX type. **(See Figure 9)**
    Toggle between " **ANALOG**", "**MIXED**", or "**DIGITAL**" by pressing the 4-Way Navigation Switch up or down.
    For Analog channels, select " **ANALOG**" and press the "**OK**" softkey, then press the 4-Way Key to the right to enter TX Type.

14. The display will indicate " **TX Type: ANALOG**". **(See Figure 10)**
    Note: If the "RX Type" is set to ANALOG or DIGITAL, the TX MODE can not be changed, it will default to the RX setting.
    Press the 4-way Navigation Key to the right to enter the Bandwith.

15. The display will indicate " **Bandwidth: 12.5 Khz**", press the "**EDIT**" softkey to change the channel bandwidth. **(See Figure 11)**
    Toggle between either " **12.5 Khz**" for Narrowband or " **25.0 Khz**" for Wideband by pressing the 4- Way Navigation Switch up or down and press the "**OK**" key. Press the 4-Way Navigation Key to the right to enter the Channel Name.
    NOTE: UHF models are capable of selecting "20.0 Khz" for bandwidth, DO NOT SELECT THIS OPTION.

16. The display will indicate " **Chan Name: CHAN 1**", press the "**EDIT**" softkey to change the Channel Name.
    Enter the desired channel name using the alpha numeric keypad and press the " **OK**" softkey when done.
    Press the 4-Way Navigation Key to the right, to enter the Zone Name.
    NOTE: For Space Character, press the 4-Way Navigation Switch to the Right.

17. The display will indicate " **Zone Name: Z1**", press the "**EDIT**" softkey to change the Zone Name.
    Enter the desired Zone Name using the alpha numeric keypad and press the " **OK**" softkey when done.
    NOTE: NIICD does not recommend changing the Zone Name.

18. Once the Zone Name is edited, pressing the 4-way Navigation Switch to the right will bring up the TX Frequency option.

19. Once all the programming parameters have been entered for that channel press the " **DONE**" softkey and select another channel
    to program or press the " **HOME**" Button to exit programming mode.
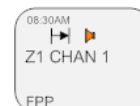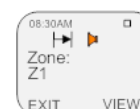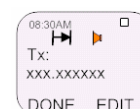

Figure 1

Figure 2
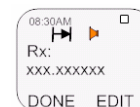

Figure 3

Figure 4
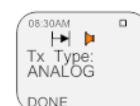

Figure 5
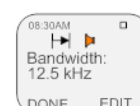

Figure 6

Figure 7

Figure 8

Figure 9

Figure 10

Figure 11

CHANGING ZONES/GROUPS

1. To change zones/groups, press the " **ZONE**" softkey from the default screen/display.   **(See Figure 1)**
2. Select the desired zone/group by scrolling right/left with the 4-Way Navigation Switch.   **(See Figure 2)**
   (or direct enter a 2 digit zone/group number via the key)
3. Once a desired zone/group is selected, press the " **HOME**" button to make that zone/group active.

Figure 1   Figure 2

ENABLE/DISABLE SCAN/PRIORITY SCAN

1. **To Enable Scan**, turn the 3-Position Rotary/Toggle Switch to the " **B**" or "**C**" position.
   LCD will indicate the radio is in scan mode, by displaying an ( ) on on the upper part of the LCD.   **(See Figure 3)**
2. **To Disable Scan**, turn the 3-Position Rotary/Toggle Switch to the " **A**" position.
   NOTE: If no channels are in the Scan List, the radio will beep and indicate empty scan list on the LCD when scan is enabled.

Figure 3

## ADD/REMOVE CHANNELS FROM SCAN/PRIORITY LIST

1. To add a channel to the Scan List, press the " **PROG**" softkey from the default screen/display.   **(See Figure 4)**
2. Press the "**SCAN**" softkey to enter into the scan list. **(See Figure 5)**
3. Select the desired channel to scan with the top 16 Channel Select Knob.
4. Press the "**SEL**" softkey once to enter that selected channel in the scan list.   **(See Figure 6)**
   LCD will indicate the channel is in the scan list, by displaying an ( ) on on the upper part of the LCD.
5. Press the "**SEL**" softkey once more to enter that selected channel as the scan priority 1 channel.
   LCD will indicate the radio is PRI 1 by displaying an ( ) icon on the upper part of the LCD.
6. Press the "**SEL**" softkey once more to enter that selected channel as the scan priority 2 channel.
   LCD will indicate the radio is PRI 2 by displaying an (( ) icon on the upper part of the LCD.   **(Note Flashing DOT on end)**
7. Press the "**SEL**" softkey once more to remove the channel from the scan list completely.
   Or press the "**DEL**" softkey to remove the channel from the scan list.
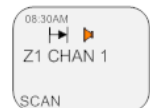8. Press the "**HOME**" button to return to the main screen.

Figure 4

Figure 5

Figure 6

1. Turn both radios on.

2. Connect the cloning cable to both the Master and Slave radios.   **(See Figure 7)**

3. On the MASTER RADIO, press the "**CLON**" softkey from the default screen to bring up the cloning menu.   **(See Figure 1)**
   Note: The Master radio will momentarily display " **TARGET RADIO CONNECTED**" if a slave radio is connected correctly.
         The Slave radio will display " **CLONE MODE**" on the LCD.

4. Select a desired zone/group by pressing the 4-Way Navigation Key to the left or right.   **(See Figure 2)**

5. Once a zone is selected, press the " **SEL**" softkey to enable that zone to be sent over to the slave radio.
   The display will indicate the zone is enabled by an " **C**" icon on the right side of the LCD.   **(See Figure 3)**

6. Press the "**DONE**" softkey to select a target zone/group.   **(See Figure 4)**

7. The display will indicate " **Target: Zx:**", select a desired group/zone that the Master radio will write/clone over the Slave radio.
   Press the "**SEL**" softkey when desired target group/zone is selected.
   The display will indicate the target zone is enabled by an " **C**" icon on the right side of the LCD.   **(See Figure 4)**

8. Press the "**OK**" softkey to begin cloning.
   Display on Master will indicate " **Wait: Cloning.....**".
   Display on Master will indicate " **CLONE SUCCESSFUL**" once clone is complete.   **(See Figure 6)**

9. Press the "**EXIT**" softkey to exit clone mode and return to default screen.
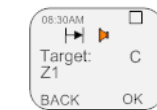
Figure 1

Figure 2

Figure 3

Figure 4

Figure 5

Figure 6

Master Radio

Cloning Cable

Target/Slave Radio

1. Turn power **ON** by turning the ON/OFF Volume Knob clockwise.
   The LCD will indicate the current group and channel label.
2. Select a zone number by pressing the appropriate Menu Select soft key labeled " **ZONE**", then select a zone by pressing the 4-Way Navigation switch to the right or left; or direct enter a 2 digit group/zone number via the keypad and press the " **Home**" key when finished.
3. Select a channel by turning the Channel Select Knob to one of the 16 available positions.
4. Adjust the volume by pressing/hold the " **Monito**r" key until it beeps and set the volume to desired level, press the " **Monito**r" key once more to close Squelch.   **The radio is now ready to RECEIVE on that current group and channel.**

6. To transmit, press and hold the Push-To-Talk (**PTT**) button on the side of the radio.
   Note: The Transmit Indicator Light should glow red while transmitting.
   If not, the battery may be low or the channel is RX only or busy.

7. Pause 1 second and talk in a normal voice into the microphone.
   Note: Try to shield the microphone from wind and other loud background noises for clearer transmissions.

8. Release the PTT to stop transmitting and receive incoming transmissions.

ON/OFF/Volume Knob

Antenna Connector

16 Position Channel Select Switch

3-Position Rotary Switch
A=Scan OFF
B/C= Scan ON

Figure 3: Top View XTS 2500

UHF Antenna

Clamshell Magazine Release Latch (Both Sides)

Monitor (Open Squelch)

Microphone

Clamshell Cover Release Tabs

Push To Talk (PTT)

Speaker

5 Line LCD

Unassigned

3 Menu Select Soft Keys

Home Button

4-Way Navigation Switch

Keypad

Clamshell

Figure 1: Front View XTS 2500

Figure 2: Side View XTS 2500

1. Turn power **ON** by turning the ON/OFF Volume Knob clockwise.
   The LCD will indicate the current group and channel label.
2. Select a zone number by pressing the appropriate Menu Select soft key labeled "**ZONE**", then select a zone by pressing the 4-Way Navigation
   switch to the right or left; or direct enter a 2 digit group/zone number via the keypad and press the "**Home**" key when finished.
3. Select a channel by turning the Channel Select Knob to one of the 16 available positions.
4. Adjust the volume by pressing/hold the "**Monito**r" key until it beeps and set the volume to desired level, press the "**Monitor**" key once
   more to close Squelch.   **The radio is now ready to RECEIVE on that current group and channel.**

6. To transmit, press and hold the Push-To-Talk (**PTT**) button on the side of the radio.
    Note: The Transmit Indicator Light should glow red while transmitting.
         If not, the battery may be low or the channel is RX only or busy.

7. Pause 1 second and talk in a normal voice into the microphone.
      Note: Try to shield the microphone from wind and other loud background noises for clearer transmissions.

8. Release the PTT to stop transmitting and receive incoming transmissions.
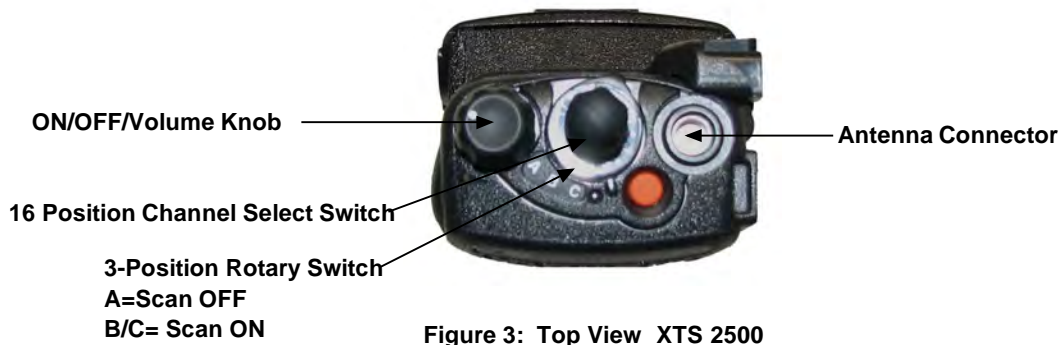
16 Position Channel Select Switch

ON/OFF/Volume Knob

Antenna Connector

**3-Position Toggle Switch
A=Scan OFF**

Figure 3: Top View XTS 5000

VHF Antenna

Microphone

Speaker

5 Line LCD

3 Menu Select Soft Keys

Home Button

4-Way Navigation Switch

Keypad

Clamshell

Figure 1: Front View XTS 5000

**Monitor
(Open Squelch)**

**Clamshell Cover
Release Tabs**

Unassigned

**Push To Talk
(PTT)**

Figure 2: Side View XTS 5000

Clamshell Magazine ease Latch

Squeeze Clamshell Cover Release Tabs

Clamshell Cover Release Tabs

Slide Clamshell Cover down until removed from radio

Note: Once the Clamshell Cover is removed, batteries can be easily replaced without removing the Clamshell Magazine.

Push the radio with Thumb through the bottom opening

Figure 1

Figure 2

Slide down the Clamshell Magazine Release Latches

Figure 3

Pull the top end of the Clamshell Magazine slightly away from radio

Figure 4

Push radio slightly down and out to release from bottom portion of the Clamshell Magazine

Figure 5

Pull radio away from Clamshell Magazine and replace batteries

Figure 6