Civil Air Patrol, Delaware Wing
Training Document
TD-005: XTS-5000 800 MHz Radio Operations

Overview

This document should be used in conjunction with **TD-004: 800 MHz Radios – General Guidelines**.

This document details the different functions of the Motorola XTS-5000 800 MHz radio issued to members of DEWg, and as programmed by the Delaware Division of Communications.

General Operation

The radio uses a zone and channel configuration, similar to the CAP issued Johnson VHF radios. The following zones are programmed into the XTS-5000 radios:

- 1 – General and DelDOT operations
- M – Mutual aid and talk around operations
- MA – Simplex operations
- I – Interoperability ("IOPS") operations
- VR – Vehicle Repeater System (no longer used).

For the most part, you will keep the radio on zone 1 for day to day operations. Channel 1 on zone 1 is SW-CAP, and that is our CAP talkgroup on the state system. Refer to the table at the end of this document for a complete listing of all channels in Zone 1. If we are called upon to assist another agency, we would need to switch to a mutual aid or IOPS channel to communicate directly with other organizations/agencies.

There is a three position switch on the top of the radio, marked A, B, and C. This switch has the following functions:

- A – Standard operation
- B – Scan program mode
- C – Scanning mode

If you want to scan a set of channels, place the switch in position C.

If you need to program the channels that you wish to scan, place the switch in position B. When you do that, the display will show "SEL" "DEL" and "RCL" at the bottom, and a flashing rectangle in the upper right. You can then turn the channel knob and select the individual channels you would like to scan when you are in scan mode.

If the small "Z" icon is displayed on a channel while in the scan program mode, that channel will be scanned. If the small "Z" icon is not displayed, that channel will not be scanned. The "SEL" soft key "SELects" the channel and adds it to the scan list, while the "DEL" soft key "DELetes" the channel from the scan list.

Once you have completed scan programming, you can put the switch back to position A or C, depending on your preference.

The orange button on the top of the radio is an emergency button, and is not programmed for use.

The outside ring under the channel knob is not programmed for any function.

There are three buttons on the side, above the PTT button:

- The top "purple" button is not programmed.
- The middle button toggles the backlight.
- The bottom button when pressed will provide site information, showing what site the radio is currently using.

On the display, three soft keys are shown.

- ZONE – Pressing this button allows you to change your zone. Press the ZONE button, then press the directional rocker button left or right to change zones.
- MUTE – Pressing this button allows you to turn keypad tones on or off.
- CLCK – Pressing this button allows you to set your clock.

Zone 1 Channel Configuration

Zone 1 – Channel 1	SW-CAP	Statewide CAP
Zone 1 – Channel 2	SEMPRE	Sussex Emergency Preparedness
Zone 1 – Channel 3	SDEMA	Sussex DEMA
Zone 1 – Channel 4	KEMPRE	Kent Emergency Preparedness
Zone 1 – Channel 5	KDEMA	Kent DEMA
Zone 1 – Channel 6	NEMPRE	New Castle Emergency Preparedness
Zone 1 – Channel 7	NDEMA	New Castle DEMA
Zone 1 – Channel 8	SW-MA	Statewide Mutual Aid
Zone 1 – Channel 9	SW-DEMA	Statewide DEMA
Zone 1 – Channel 10	SWTMC	Statewide DelDOT TMC
Zone 1 – Channel 11	SWDOT	Statewide DOT
Zone 1 – Channel 12	KTRAF	Kent Traffic
Zone 1 – Channel 13	SWMGMT	Statewide DelDOT Management