

# RADIO/COMMUNICATIONS

## Motorola XTS 5000

- Single band UHF radio that is the primary radio used by first responders.
- Built in “Emergency” button, which aids in alerting dispatch and IC at incident in the event of a lost or trapped firefighter.

### Batteries

- Checked every morning
- Charged when battery icon drops one bar.
  - If unit batter charge flashes yellow and green continually remove and place on desk top charger for reconditioning.
  - Desktop charger must show orange light to start condition phase.
    - If it doesn't appear immediately remove and drop back in within 5 seconds.
  - Leave battery in charger until solid green light.
  - Flashing red and green light sequence means end of service life.
    - Battery should be removed and replaced.
- Bars
  - 3- 71%-100%
  - 2- 41%-70%
  - 1- 11%-40%
  - 0- 10% or less, gauge beings flashing
- Charge Status Indicator
  - Flashing red- Not chargeable
  - Red- Rapid charge
  - Flashing yellow- Too hot or too cold
  - Green- Charge complete
  - Flashing green- Rapid complete
  - Alternating red/ green- End of service life
  - Alternating yellow/ green- Needs recondition/ recalibration
  - Steady yellow- Reconditioning
- Security
  - Should be kept in station when apparatus is at the Maintenance shop or other repair facilities.
- Lost or Damaged
  - Notify BC in writing with “Supervisors Report of Lost or Damaged Equipment” form.
    - If stolen RPD should be notified.
    - 2 copies of the police report are needed:
      - BC
      - Training Chief
  - Repair “Apparatus and Equipment Repair Report” and HELPDESK ticket filled out and forwarded to Communications Tech
    - Loner radios available through Comm tech
- Radio Cache
  - 10 radios and batteries located in Bat 1 & 2 offices

- Any request for radio/ battery must have BC's approval.
  - When signed out record:
    - ID # of radio/ battery
    - What equipment was signed out
    - Date radio/ battery was signed out
    - Who signed it out
    - What unit signed it out
  - When returned:
    - Date radio was returned
  - BC must initial form every time its signed in or out
- Channels
  1. Primary 1- primary dispatch
  2. Command 2- manage an incident
  3. Command 3- manage an incident
  4. Tac 4-6- (SIMPLEX)- first choice to run the tactical portion of an incident
  7. TAC 7- SIMPLEX- Training
  8. COM2E- when working in the East end of the city, bear Moreno Valley where repeater coverage is poor.
  9. TAC9- SIMPLEX- used for FD, PD, or with other city agencies
  10. FD/PD 10- Same as 9, but repeater
  11. 11-13- SIMPLEX of channels 1-3
  14. PAGER- activated with assigned station tones
  15. RIC SIMPLEX- Rapid Intervention Crew Tactical Channel
  16. RIC Com- repeater RIC channel

#### Emergency Button Procedure

- Purpose: pressed when user is in distress and is unable to make verbal contact to either the Public Safety Dispatcher or IC.
- When pressed radio will revert to Channel 16, where dispatcher tries to contact.
  - Dispatch receives a notification and immediately notifies IC.
  - If not on an incident then dispatch will attempt to contact unit.
    - If can't then BC will investigate notification
- Accidental activation
  - Turn off radio and turn back on.
  - Also presses for more than 1.5 seconds.
  - Notify dispatch it was an accident.
- Priorities
  - Emergency traffic
  - Incident management traffic
  - Administrative/ Operations communications
  - Mobile data terminals or mobile data computers

#### **Bendix King**

Use: used to communicate with surrounding agencies on mutual aid incidents, most commonly wildland incidents.

#### Specifications

- VHF radio
- Has its own USER programmable COMMAND GROUP
- Frequencies broken into:
  - 25 groups
  - 20 channels
  - Total of 500 available channels.
- 12 Character 2 line display
- 20-24 oz
- Operating temperature -30 deg to 60 deg C
- BK shall be placed in the unit charger and shall be removed once the battery is fully charged.
- Every Saturday or after heavy use the spare battery shall be fully charged and removed from the charger.
- Monthly maintenance
  - 1<sup>st</sup> of the month. All hand held batteries shall be cycled through the battery Tri-Analyzer and marked with a colored dot indicating the date and the M.A.H. (milli-amp hours) at the completion of the test. Batteries failing the test or that are in need of replacement will be sent through channels with the Form 210-6 to the Comm Tech in training.
  - Minimum M.A.H. standard is labeled on Tri- Analyzer



### Operations

Talk with a normal voice, radio 2-3 inches from face

- Change group
  - Turn on
  - Press #

- Press desired group number (1-25)
  - Press ENT
- Change channel
  - Turn knob until you reach the desired channel
    - Beep at 1 or 20
- Repeater tones
  - 16 California State wide tones, but 32 pre-set in radio
  - Definition: a sub-audible tone that is broadcasted as soon as you press the push to talk button, it unlocks the repeater for use.
  - Most FD use the same transmit and receive frequencies but different tones in order to access more than one repeater.
  - Press button of what number you need
  - If you hear a beep another tone has already been programmed.
  - Tone is visible in display under channel name
- Scan
  - ADD channel
    - SCAN toward the front
    - Channel selector knob to the channel you want to scan
    - Press ENT
      - SCN will appear in the display window above the frequency
    - Move toggle toward back of radio and SCN will flash in display window
  - DELETE channel
    - SCAN toward front
    - Channel selector knob to the channel you want to scan
    - Press CLR button
      - SCN will disappear from display window
- Command group
  - Can set up to 20 channels from throughout radio as COMMAND GROUP
  - Enter channel into command group
    - Go to desired channel
    - Press \*
    - Display will read CMND CHAN
  - Delete channel from command group
    - Go to desired channel
    - Hold \* and press #
  - Delete entire Command Group
    - Press and hold \* until display reads CMND EMPTY
      - High pitched beeps will be omitted until its all deleted, then it will be low pitched
  - Get to Command Group
    - Press # twice
      - Display says group number and GRP CMND
    - Press ENT
  - Lock Keypad

- Press and hold FCN

Any questions on an incident as Communications Unit Leader for further assistance  
Communications Unit program Incident frequencies on group 15 only