MOTOROLA APX 8000XE Portable Radio

BASIC OPERATION

OBJECTIVES

- 1. FEATURES AND CAPABILITIES

- 2. KNOBS, BUTTONS, AND SWITCHES

- 3. SCREEN ICONS

- 4. MENU OPTIONS

- 5. GENERAL RADIO OPERATION

- 6. EMERGENCY OPERATION

- 7. REMOTE SPEAKER MICS

- 8. BATTERIES AND BELT CLIP

- 9. CLEANING AND DISINFECTING

FEATURES AND CAPABILITIES

- DUAL BAND RADIO; 700/800 AND VHF

- RUGGEDIZED, IP68 SUBMERSIBLE; AND ABLE TO WITHSTAND HIGH/LOW TEMPS

- UP TO 10 HOURS WITH 3400 mAh LITHIUM ION BATTERY

- 3000 CHANNEL CAPACITY

- NOISE CANCELING

- 3X DYNAMIC / COMMAND ZONES

- ON BOARD BLUETOOTH / WIFI

- BUILT IN GPS

FEATURES AND CAPABILITIES; NOISE CANCELLING

- APX8000 HAS 2 MICROPHONES.

- WILL SWITCH BETWEEN THE 2 AND USE THE ONE WITH LESS BACKGROUND NOISE.

MIC
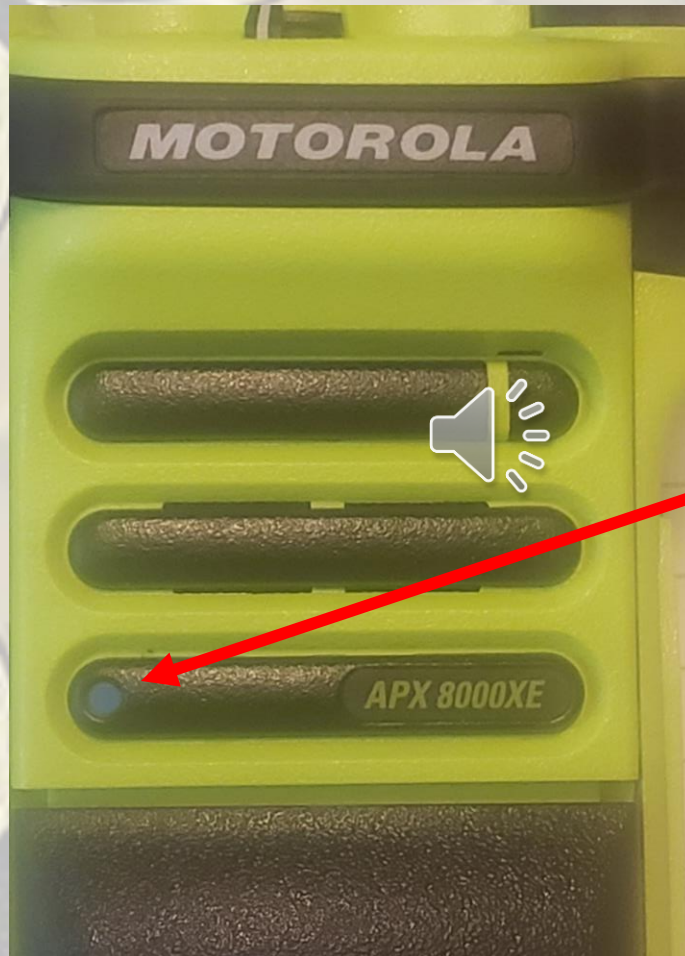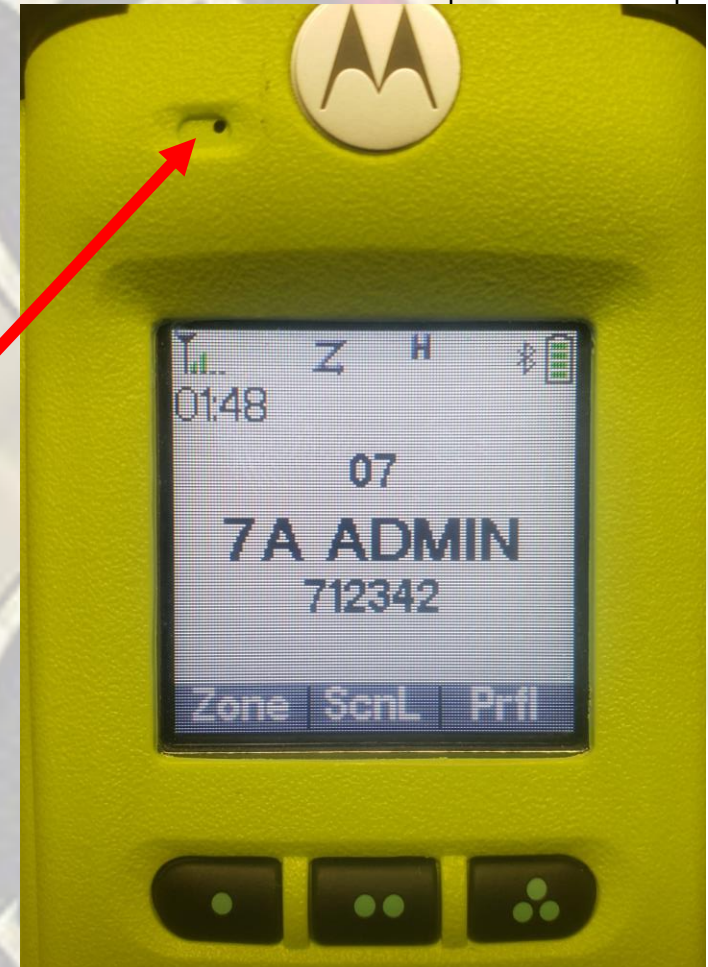
KNOBS BUTTONS AND SWITCHES

LIGHT / DIMMER

PTT: PUSH TO TALK

SINGLE DOT BUTTON: CHANNEL ANNOUNCE

2 DOT BUTTON: RADIO INFO / BUTTON ASSIGNMENT

KNOBS BUTTONS AND SWITCHES

EMER BUTTON

LED

SCAN ON / OFF SELECTOR

16 POSITION CHANNEL KNOB

ABC SELECTOR: (NOT PROGRAMMED)

ON/OFF/ VOLUME KNOB

KNOBS BUTTONS AND SWITCHES

- ¤ **Solid red** – Radio is transmitting.

- ¤ **Blinking red** – Radio is transmitting at low battery condition.

- ¤ **Double blinking red** – Radio is in MAYDAY/ Emergency Mode.

- ¤ **Rapidly blinking red** – Radio has failed the self test upon powering up or encountered a fatal error.

- ¤ **Solid yellow (Conventional Only)** – Channel is busy.

- ¤ **Blinking yellow** – Radio is receiving a secured transmission.

- ¤ **Solid green** – Radio is powering up, or is on a non-priority channel while in the Scan List Programming mode.

KNOBS BUTTONS AND SWITCHES

MICROPHONE

07
7A ADMIN
712342

MENU SELECTION BUTTONS

HOME BUTTON

DATA FEATURE BUTTON

4 WAY NAVIGATION BUTTON
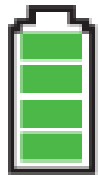
KEYPAD

SCREEN ICONS

SCREEN ICONS

Receiving
Radio is receiving a call or data.

Transmitting
Radio is transmitting a call or data.

Battery
For IMPRES battery operation only – the icon shown indicates the charge remaining in the battery.
For all battery operation – the icon blinks when the battery is low.
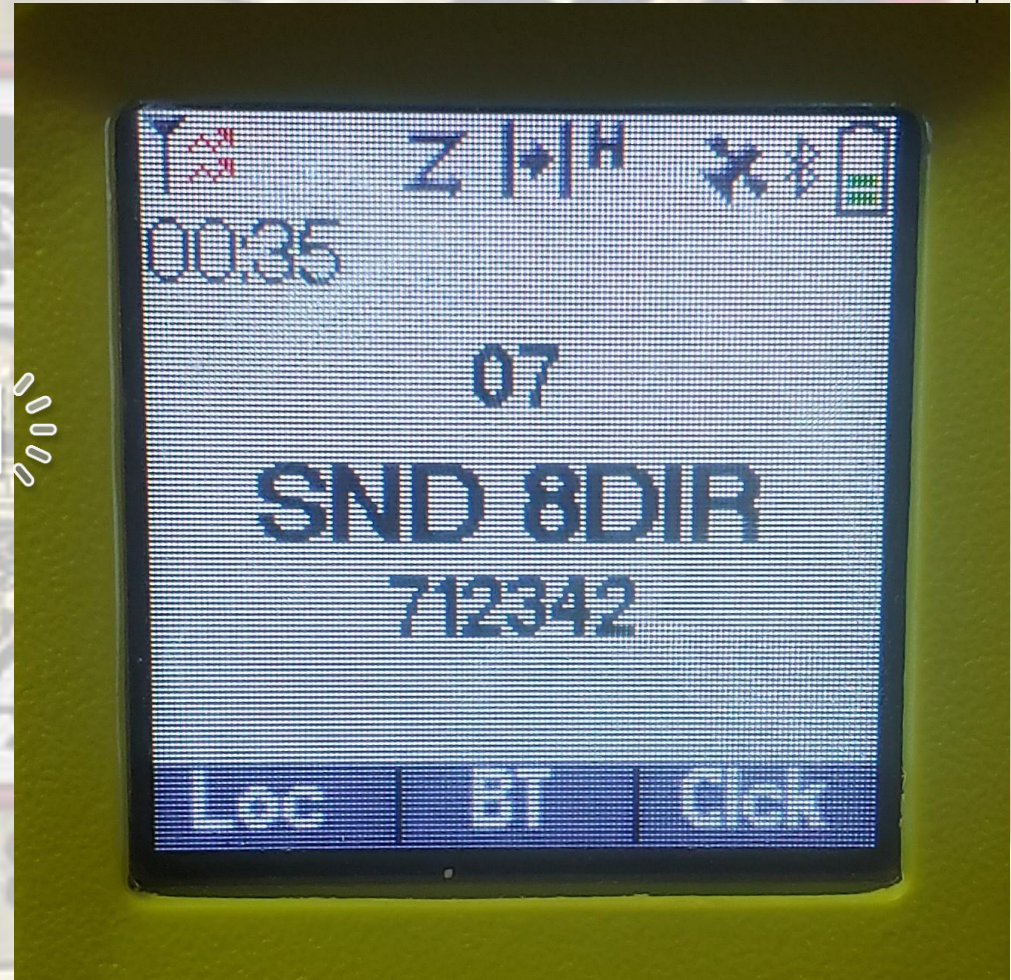
SCREEN ICONS

H or **L**   **Power Level**
- L = Radio is set at Low power.
- H = Radio is set at High power.

Z   **Priority Scan**
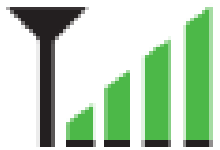Radio is actively scanning a scan list.

SCREEN ICONS

Direct
- On = Radio is currently configured for direct radio-to-radio communication (during conventional operation only).
- Off = Radio is connected with other radios through a repeater.

Received Signal Strength Indicator (RSSI)
The number of bars displayed represents the received signal strength for the current site, for trunking only. The more stripes in the icon, the stronger the signal.

Location Signal
- On = Location feature is enabled, and location signal is available.
- Off = Location feature is disabled.
- Blinking = Location feature is enabled, bu no location signal is available.

SCREEN ICONS

Bluetooth On
Bluetooth is on and ready for Bluetooth connection.

Top Display

Bluetooth Connected
Bluetooth is currently connected to the external Bluetooth device.

Wi-Fi
The radio Wi-Fi network is connected. The number of bars displayed represents the signal strength of the Wi-Fi signal.
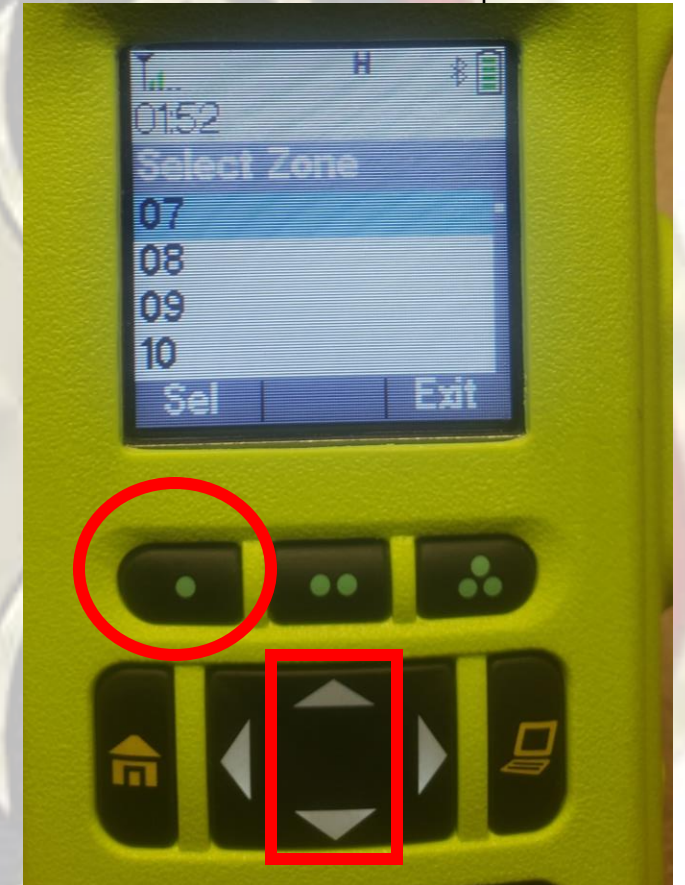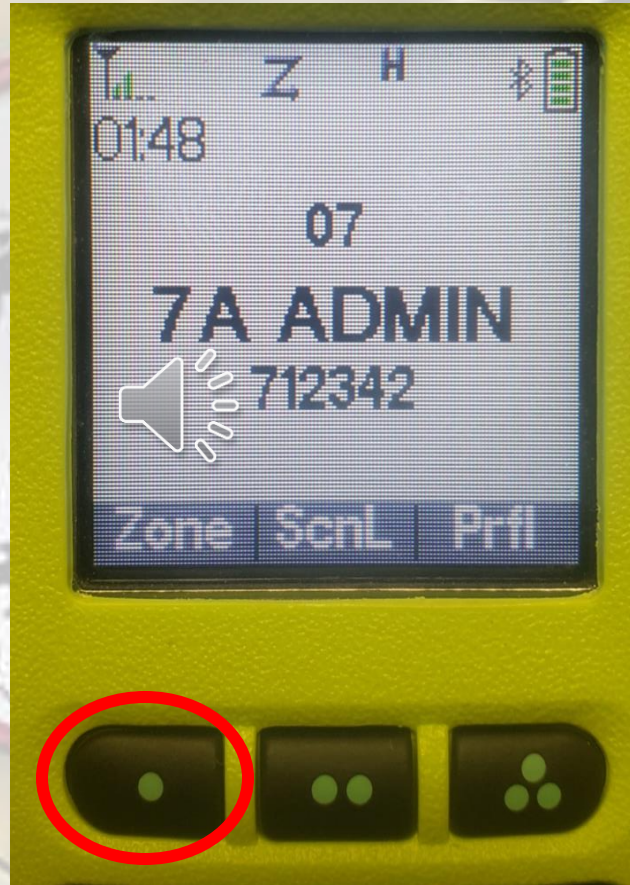
MENU OPTIONS

- ZONE
- SCAN LIST
- PROFILE
- BLUE TOOTH
- CLOCK
- MUTE

- MEMORY PRESETS MS1, MS2, MS3
- MPL
- CHANNEL (VHF)
- LOCATION

GENERAL OPERATION: CHANGING ZONES

- PRESS THE HOME BUTTON TO BRING MENU TO DEFAULT SCREEN

- PRESS SOFT KEY UNDER "ZONE"

- USE UP/DOWN ARROWS ON 4 WAY NAV BUTTON OR ENTER ZONE NUMBER DIRECTLY

- PRESS SOFT TOUCH BUTTON UNDER SELECT
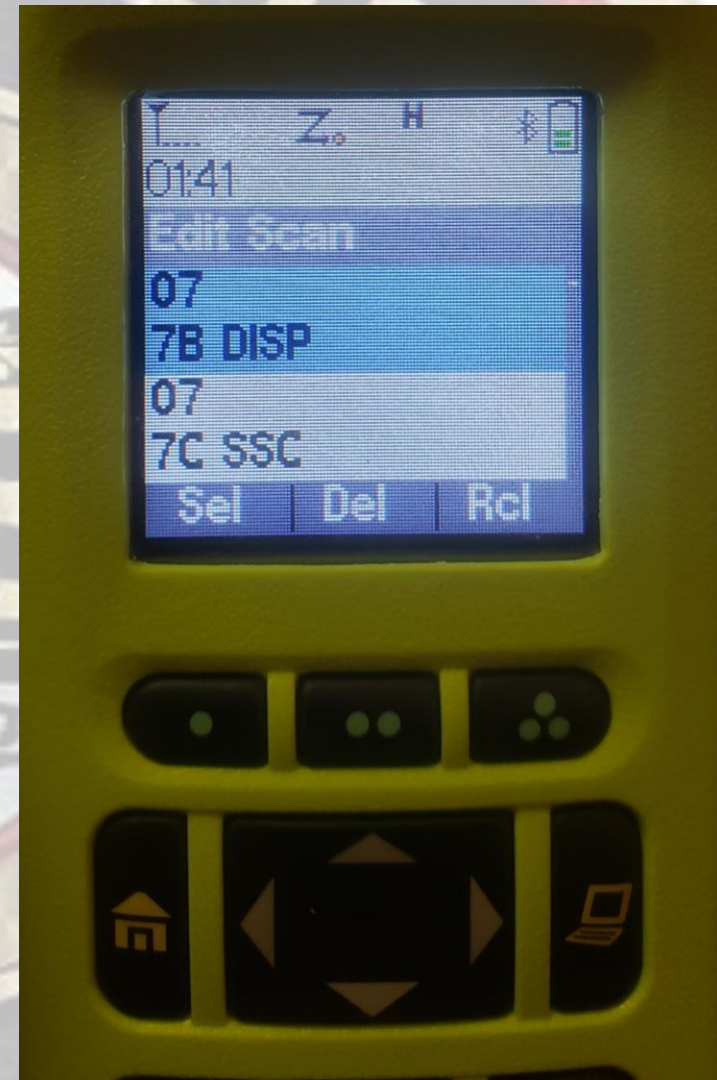
GENERAL OPERATION: SCAN LIST

- **PRESS SOFT TOUCH BUTTON UNDER SCAN LIST**

- **USE UP/DOWN ARROWS TO NAVIGATE THROUGH CHANNELS WITHIN ZONE**

- **USE LEFT/RIGHT ARROWS TO CHANGE ZONE**
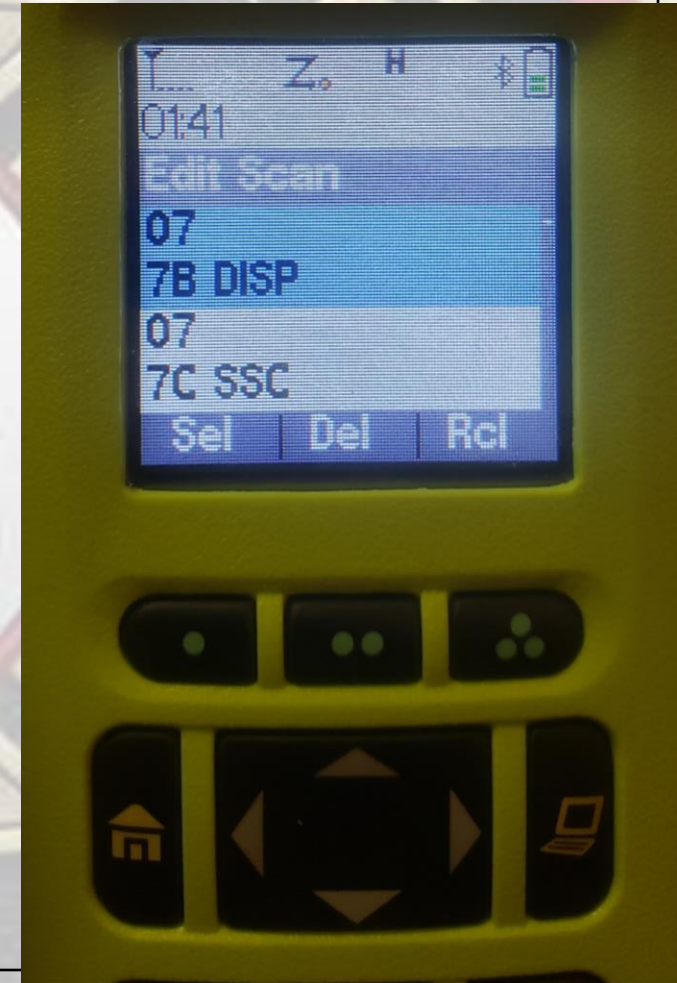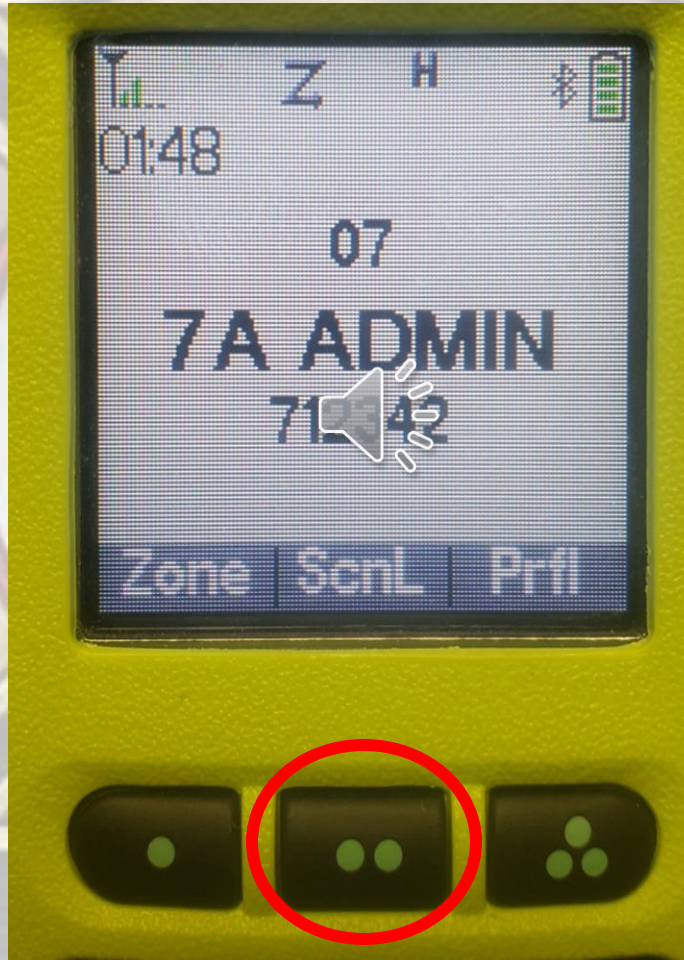
GENERAL OPERATION: SCAN LIST

- PRESS BUTTON UNDER SELECT TO ADD HIGHLIGHTED CHANNEL AND DELETE TO REMOVE

- "Z" WILL APPEAR AT TOP MIDDLE OF SCREEN WHEN CHANNEL IS SELECTED

- PRESS RECALL MULTIPLE TIMES TO QUICKLY JOG THROUGH SCAN LIST

- UP TO 16 CHANNELS CAN BE ADDED TO A SCAN LIST

- YOUR PRIORITY CHANNEL WHILE SCANNING WILL ALWAYS BE THE CHANNEL THE RADIO IS ON.

GENERAL OPERATION: SCAN LIST

- **REMINDER THAT YOU CANNOT SCAN ACROSS CHANNEL TYPES.**

- EXAMPLE CANNOT SCAN AN RCS OR CONVENTIONAL (DIRECT) CHANNEL WHILE ON A SAN DIEGO CITY ZONE

- **SAN DIEGO CITY TRUNKED** ARE 7, 8, 9, 24 (TNG), 25 (SDM), SDPD, AND SD LIFE GUARDS

- **RCS TRUNKED** ARE ZONES 1-6, 10, AND 11 (ALL OTHER COUNTY FIRE AGENCIES

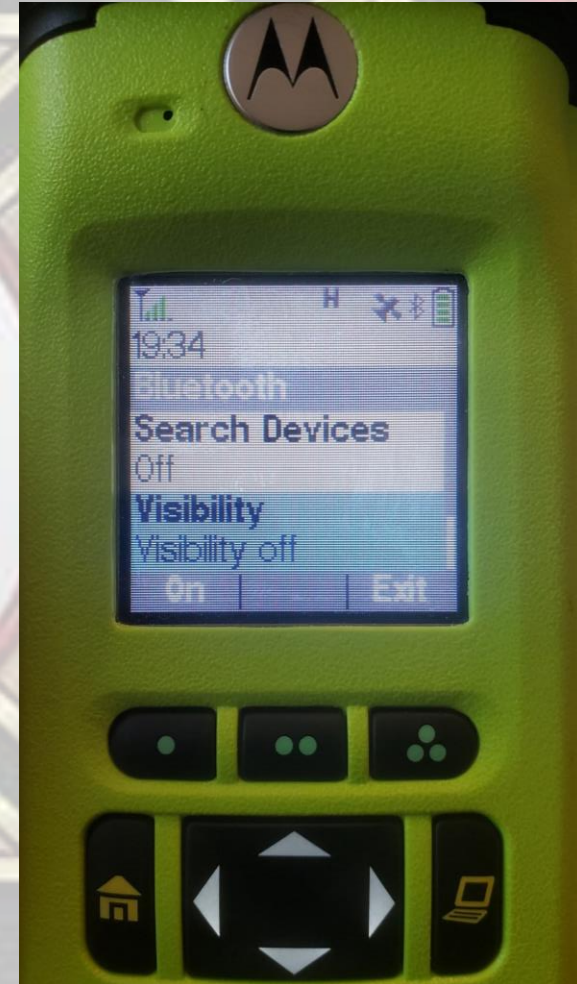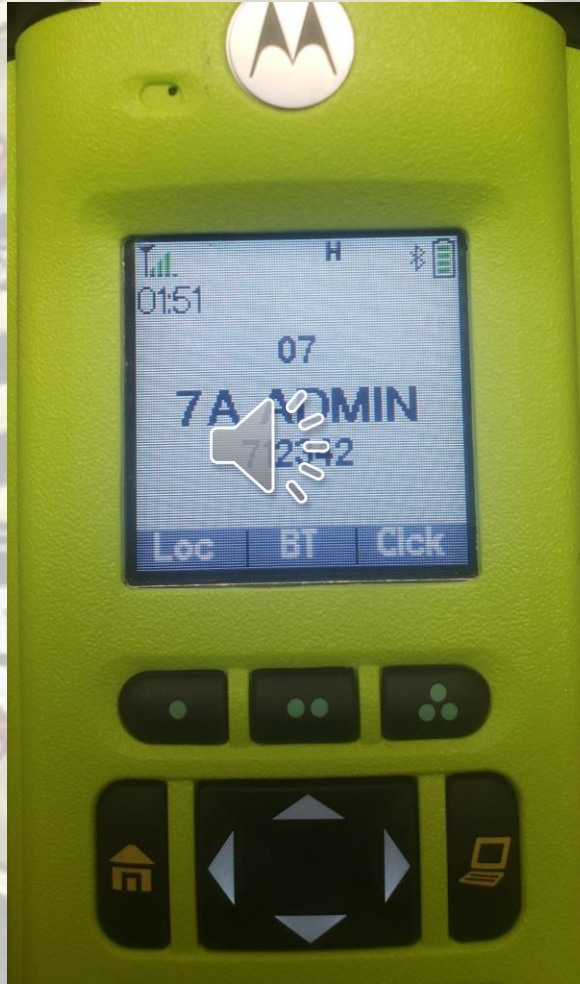- **CONVENTIONAL** ARE ANY 800 MHZ DIRECT OR ANY VHF CHANNEL

GENERAL OPERATION AUDIO PROFILE

- PRESS PROFILE BUTTON TO SELECT AUDIO PROFILES

- THE ONLY SELECTION WILL BE NORMAL AND LOUD.

- THE RECCOMENDATION IS TO REMAIN ON NORMAL

GENERAL OPERATION BLUETOOTH

- FROM HOME MENU SCROLL ONCE TO THE RIGHT

- SELECT "BT"

- FROM HERE YOU CAN TURN BT ON, SEARCH FOR AND PAIR WITH DEVICES
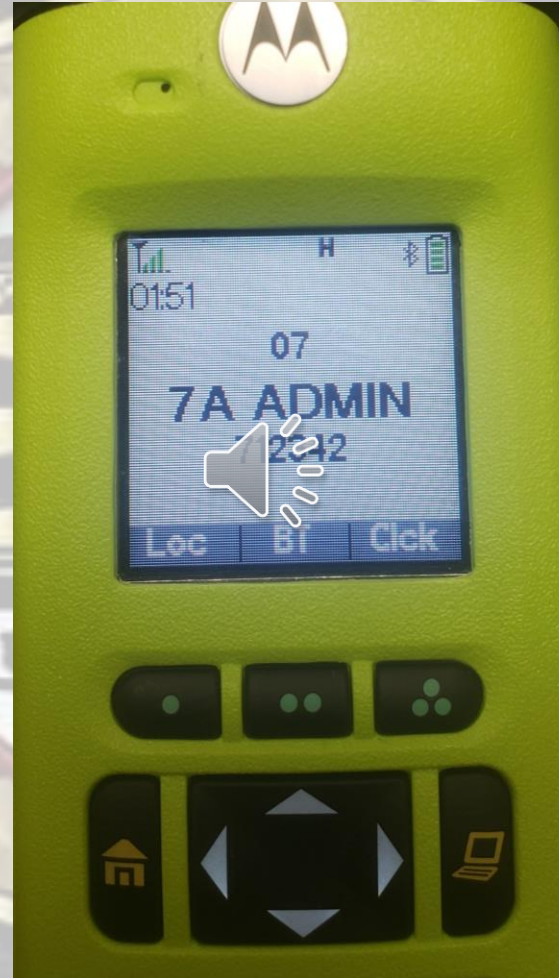
GENERAL OPERATION BLUETOOTH

- ENSURE BLUETOOTH "STATUS" IS ON

- ENSURE DEVICE IS READY TO BE PAIRED

- SCROLL DOWN TO "SEARCH DEVICES" AND TURN ON

- THE DEVICE NAME (SCOTT) SHOULD APPEAR FOR SELECTION
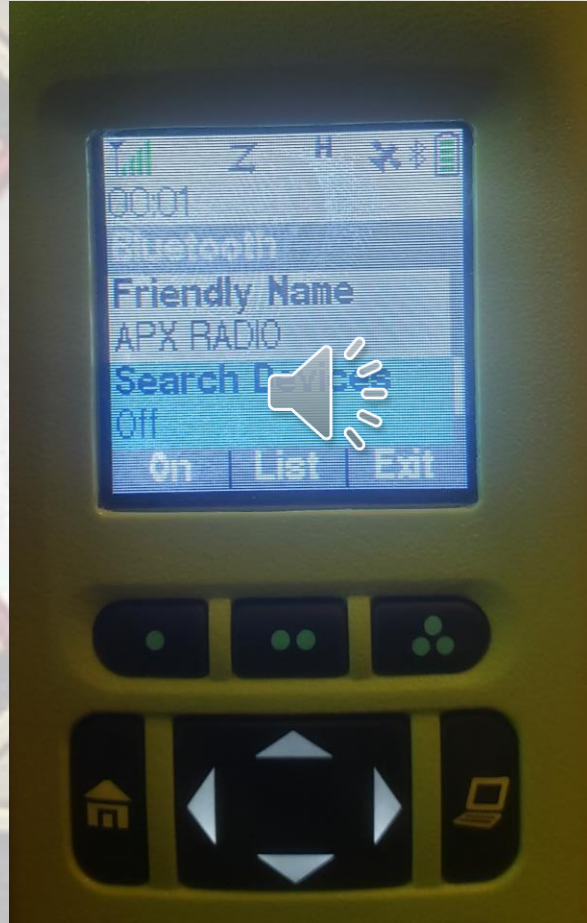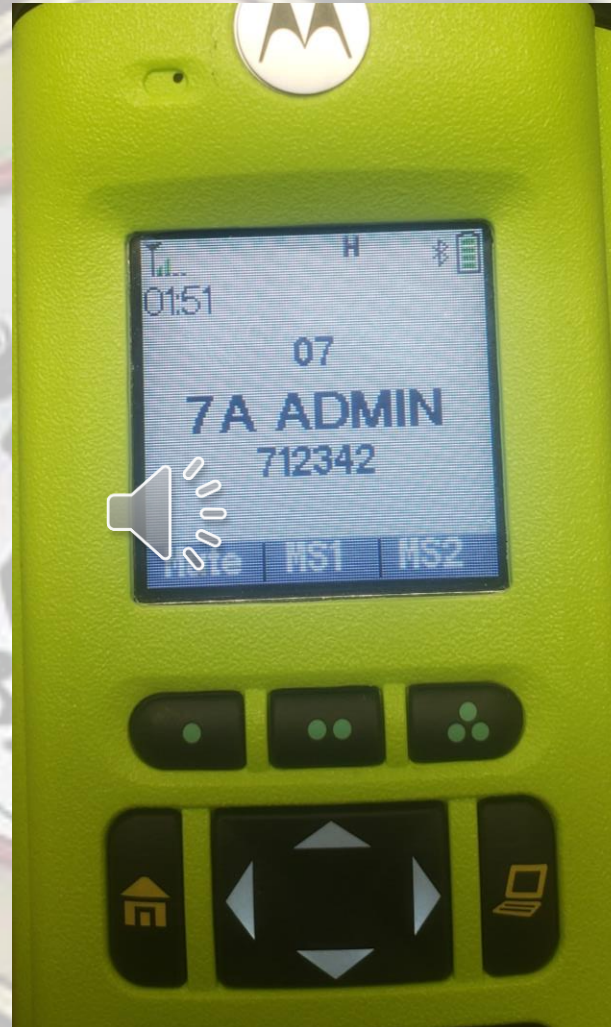
GENERAL OPERATION CLOCK

- FROM MENU, SELECT CLOCK

- SELECT EDIT, FROM HERE YOU CAN CHANGE TIME, 12/24 HR FORMAT, AND THE DATE

GENERAL OPERATION MUTE

- SCROLL MENU TWICE TO THE RIGHT AND SELECT MUTE

- THIS TURNS OFF/ON THE TONES OF THE RADIO AS WELL AS CHANNEL ANNUNCIATION

# GENERAL OPERATION
MS1, MS2, MS3

- PRESET MEMORY BUTTONS TO QUICKLY ACCESS CHANNELS.

- NAVIGATE TO THE DESIRED CHANNEL. "7E FOR EXAMPLE"

- SCROLL MENU TO MS1, PRESS FOR 3 SECONDS. 7E IS NOW SET AS A MEMORY CHANNEL.

- ANY CHANNEL IN RADIO CAN BE SELECTED, 7/800 MHZ, VHF ETC.

- SIMILAR TO PRESETS ON AN AM/FM RADIO

- SIMILAR TO SCAN LIST, RECOMMEND CHECKING AT BEGINNING OF EACH SHIFT.

- **SAFETY NOTE: CHANNEL KNOB DISASSOCIATION,** IF MS1 BRINGS YOU TO "8A" AND CHANNEL KNOB WAS LAST ON "7E" WHEN KNOB IS TURNED CLOCKWISE IT WILL SWITCH TO "8F"
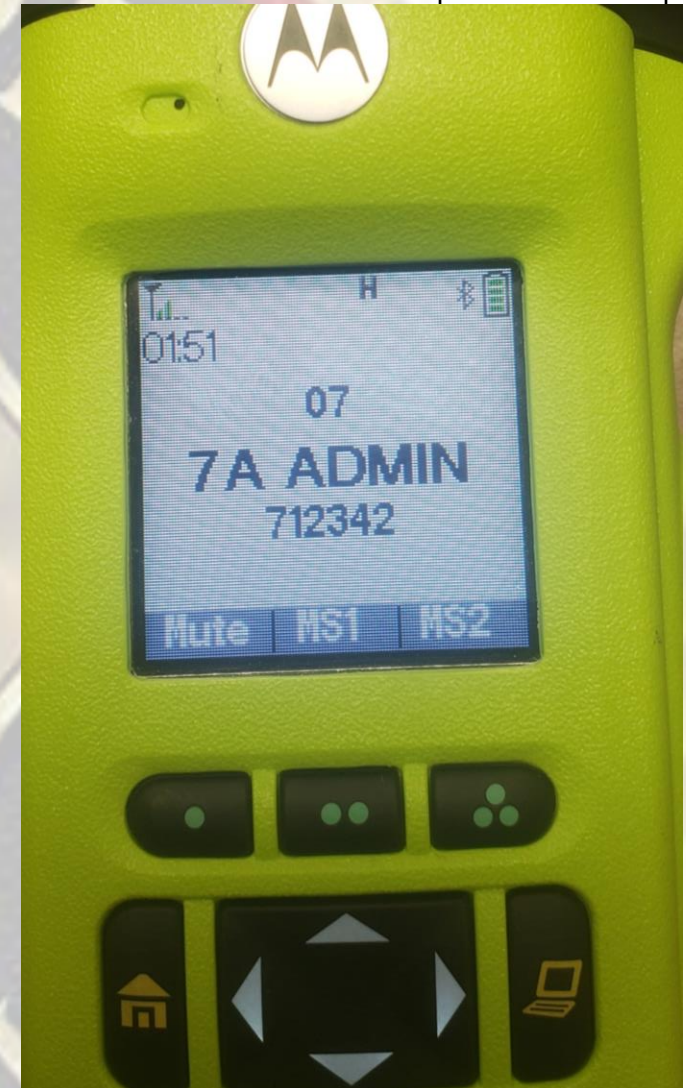
EMERGENCY OPERATION

- WHEN DECLARING AN EMERGENCY ON AN INCIDENT

- PRESS THE ORANGE BUTTON ON TOP OF THE RADIO

- ONCE EMERGENCY IS TRANSMITTED ECDC WILL RECEIVE IT WITH YOUR UNIT AND POSITION (ie E14 FF4) THEY WILL THEN CONTACT THE IC TO ADVISE OF THE EMERGENCY NOTIFICATION

- TO RESET AN EMER SIMPLY PRESS ORANGE BUTTON AGAIN FOR 3-5 SECONDS
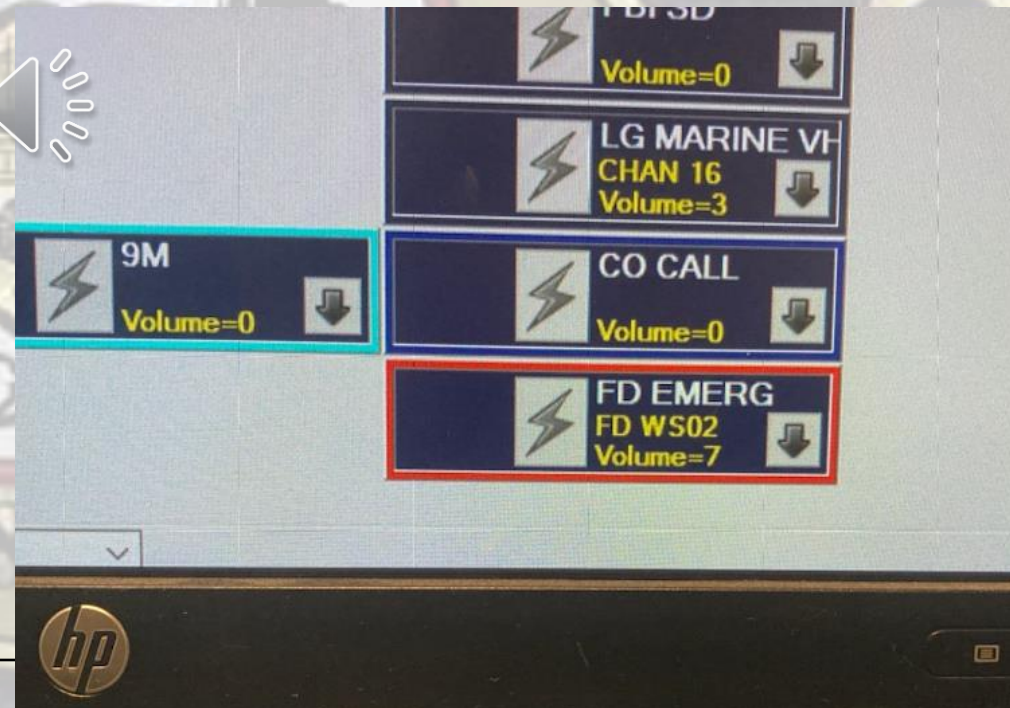
EMERGENCY OPERATION

- IMPORTANT ALIAS DATABASE IS UPDATED AT BEGINNING OF EVERY GO AROUND SO METRO HAS CORRECT ID ON THEIR END

- EMER ACTIVATIONS IN OTHER ZONES WILL BE SENT TO THE RESPECTIVE DISPATCH AGENCY, ZONES 1&2 GO TO Heartland, 3&4 to North Comm, 5 to Escondido, 10&11 to San Diego (formally Monte Vista)

- **EMER ACTIVATIONS DON'T WORK WHEN RADIO IS ON A CONVENTIONAL CHANNEL,** FOR EXAMPLE "SND 8 DIR" OR ANY "VHF" CHANNEL. RADIO MUST BE ON A TRUNKED SD CITY OR RCS CHANNEL.

- TOP SCREEN WILL ILLUMINATE RED AND SPEAKER MIC FLASHLIGHT WILL CONTINUALLY FLASH DURING EMER.

FLASHING

RADIO REPLACEMENTS

REMOTE SPEAKER MIC

- NEW MOTOROLA XE500 SPEAKER MICS BEING ISSUED PER RADIO

VOLUME TOGGLE

PTT "PUSH TO TALK"

CHANNEL ANNOUNCE BUTTON

FLASHLIGHT

MICROPHONE

SPEAKER

MOTOROLA

XE500

REMOTE SPEAKER MIC

- **NEW MOTOROLA XE500 SPEAKER MICS BEING ISSUED PER RADIO**
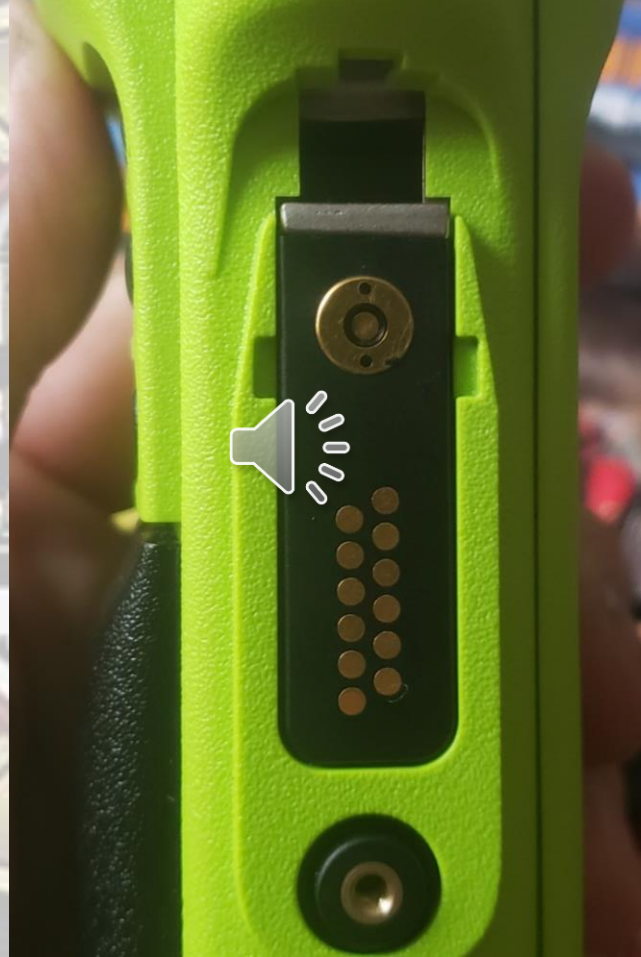
- **CHANNEL SELECTOR KNOB NOT ON NEW COLLAR MIC.**

EMER BUTTON

TRANSMIT LED

BELT CLIP AND D RING

BLUETOOTH LED

REMOTE SPEAKER MIC

- **KEEP MIC CONNECTOR CLEAN**

- THESE BRASS CONNECTIONS GET WEATHERED AND GREEN OXIDATION WILL FORM

- CLEAN WITH PENCIL ERASER

- OR ISOPROPYL ALCOHOL

INSPECTING & CONNECTING
Speaker Mic.

CHECK PINS AND RUBBER SEAL

APX 8000XE

HOOK & TAB

MOTOROLA

Mic Connection / Battery Test

- 1st Day Back

- Tx For 1 Min on Batt Training Channel

- Using a 2nd Radio, Ensure Collar Mic Transmits and Receives Audio

- Radio should Remain Transmitting and shouldn't give any indication of a low battery.

BATTERIES AND BELT CLIPS

- 3400 mAh LITHIUM ION IMPRES 2 BATTERY

- IP68 RATED ABLE TO OPERATE IN HAZARDOUS ENVIRONMENTS

- WHEN COMBINED WITH IMPRES 2 CHARGER INCREASES LIFE BY 60%

- CHARGING/ RECONDITIONING BANKS LOCATED AT BATTALION HQ'S.

- PRESS SIDE TABS AND SLIDE DOWN TO REMOVE.
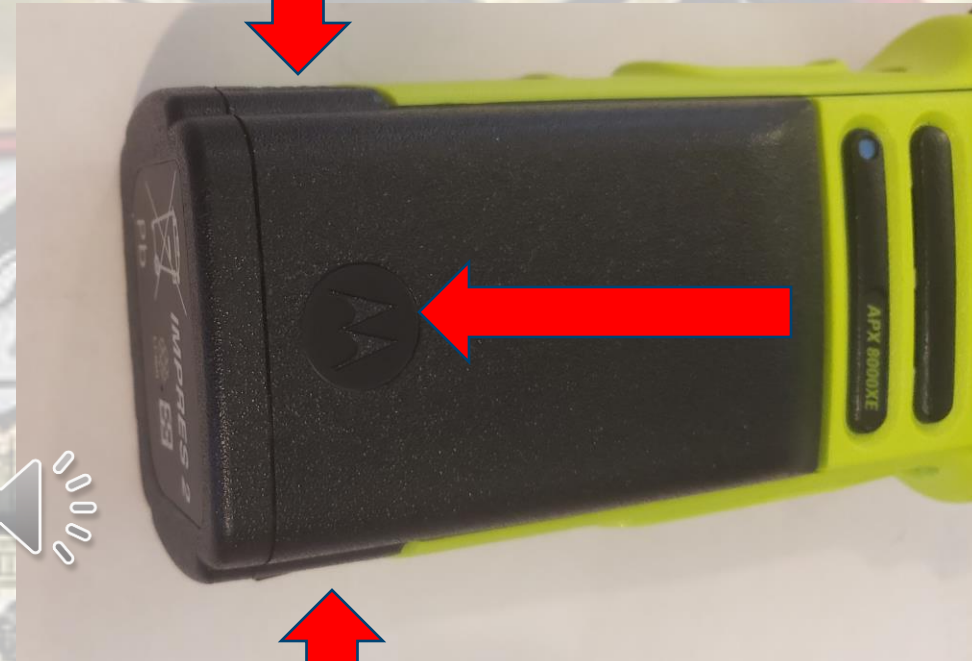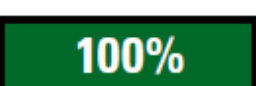
BATTERIES AND BELT CLIPS

- DONT SWAP BATTERIES BETWEEN APX8000 AND APX6000 RADIOS

- OLDER IMPRES BATTERIES WONT WORK ON THE NEW APX8000

- APX8000 RADIOS WILL COME WITH THE GREY BOTTOM BATTERY ON THE RIGHT, INTRINSICALLY SAFE

- BE SURE YOUR BATTERY IS AN **IMPRES 2**

BATTERIES AND BELT CLIPS

Charge indicator	Description
SINGLE GREEN FLASH	Charger has successfully powered up
FLASHING RED	Battery is unchargeable or not making proper contact with the charger
FLASHING ORANGE	Battery is recognised by charger but is waiting to charge. (Either the battery voltage is too low or the battery temperature is too low or too high to allow charging. When this condition is corrected, the battery will automatically begin charging)
STEADY RED	Battery is in rapid charge mode
FLASHING GREEN	Battery has completed rapid charge to 90% capacity, leave in charger to complete the charge
STEADY GREEN	Battery has completed charging and is 100% charged
FLASHING RED/GREEN	Battery has completed charging and is fully charged. Battery continues to be useable, but may be nearing the end of its rated service life.
STEADY ORANGE	Battery is in recondition or initialisation mode. The length of time the charger remains in this mode depends upon the state of charge remaining in the battery when inserted. (Fully charged batteries require more time to recondition, 8 to 12 hours or more, than fully discharged batteries)

ANTENNAS

- GREEN OR RED BASE FOR XTS RADIOS

- WHITE BASE FOR APX

- ANTENNAS LABELED AT BASE FOR FUNCTION, 7/800 MHZ, VHF, GPS

- APX 8000'S "VHF/ 7-800 GPS" BROADER ANTENNA

- APX 6000'S "7-800 GPS"
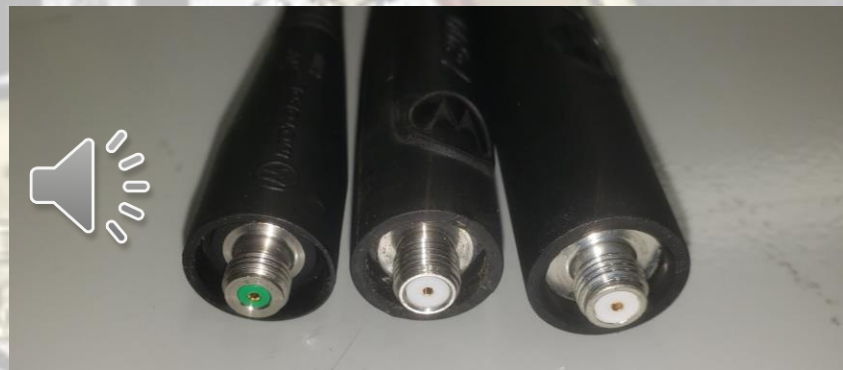
BATTERIES AND BELT CLIPS

- 2 BELT CLIPS SUPPLIED AND APPROVED BY SDFD

- **THE TALON**

- **MOTOROLA**

CLEANING & DISINFECTING

- GENERAL CLEANING; USE 0.5% DETERGENT (1 TEA SPOON DISH SOAP)/ WATER SOLUTION AND SOFT BRISTLE BRUSH.

- CONNECT SPEAKER MIC TO RADIO TO ENSURE CONNECTION DOSENT GET WET.

- DISINFECTING; USE 70% ISOPROPYL ALCOHOL (Blue wipes), APPLY TO TOWEL AND WIPE RADIO

- DO NOT USE BLEACH, SOLVENTS, OR CLEANING SPRAYS

THE END

- ANY QUESTIONS CONTACT YOUR LOCAL COMMS SPECIALIST