

Butler Regional Interoperable Communications System



RADIO AND SYSTEM ORIENTATION

APX 6000XE
Model 2.5



BRICS

UNDERSTANDING THE NUMBERS

Butler County, Ohio - PSAPs and Fire / EMS Station Numbering

Sep-16

Comm Center

1COM **Oxford**
PSAP Closed / Merged to 9COM

2COM **Hamilton**
PSAP Closed / Merged to 9COM

3COM **Fairfield**
Primary PSAP

4COM **Miami University PD**
Secondary PSAP

5COM **Trenton**
Secondary PSAP

6COM **Monroe**
Secondary PSAP

7COM **West Chester Twp**
Primary PSAP

8COM **Middletown**
Primary PSAP

9COM **Butler County SO**
Primary PSAP

Butler County Sheriff	New Miami Fire
Butler County Dog Warden	New Miami Police
Butler County Probation	Oxford Fire
College Corner Fire	Oxford Police
Fairfield Twp Fire	Oxford Twp Police
Fairfield Twp Police	Reily Twp Fire
Hamilton Fire	Ross Twp Fire
Hamilton Police	Ross Twp Police
Hanover Twp Fire	Seven Mile Fire
Liberty Twp Fire	Seven Mile Police
Madison Twp Fire	St Clair Twp EMS
Milford Twp Fire	St Clair Twp Fire
Morgan Twp Fire	Wayne Twp Fire

Agency

10 **OXFORD**
Station 11

20 **HAMILTON**
Station 21
Station 22
Station 24
Station 25
Station 26

30 **FAIRFIELD**
Station 31
Station 32
Station 33

40 **COLLEGE CORNER**
Station 41

50 **TRENTON**
Station 51
Station 52

60 **MONROE**
Station 61
Station 62

70 **WEST CHESTER**
Station 71
Station 72
Station 73
Station 74
Station 75

80 **MIDDLETOWN**
Station 81
Station 82
Station 83
Station 84
Station 85

Agency

100 **ROSS TWP**
Station 101
Station 102

110 **LIBERTY TWP**
Station 111
Station 112
Station 113

120 **WAYNE TWP**
Station 121

130 **REILY TWP**
Station 131
Station 132

140 **MORGAN TWP**
Station 141
Station 142

150 **MADISON TWP**
Station 151
Station 152
Station 153

160 **MILFORD TWP**
Station 161
Station 162

170 **SEVEN MILE**
Station 171

180 **HANOVER TWP**
Station 181

Agency

200 **ST. CLAIR TWP FIRE**
Station 201

210 **FAIRFIELD TWP**
Station 211
Station 212

220 **NEW MIAMI**
Station 221

230 **ST. CLAIR TWP EMS**
Station 231

- PSAPs match the fire agency and station numbering
- Engine 61 is dispatched by 6COM (Monroe)
- LE agencies match too (like Fairfield Township as 21, Ross as 10, and Seven Mile as 17)

Butler Regional Interoperable Communications System



RADIO CONTROLS

APX 6000XE

Model 2.5



BRICS

RADIO CONTROLS



* These radio controls/buttons are programmable.

RADIO CONTROLS



RADIO CONTROLS



PREPARING YOUR RADIO FOR USE

❑ Attaching/Removing the Battery

With the radio turned off, slide the battery into the radio's frame until side latches click into place.

To remove the battery, turn the radio off. Squeeze the release latches at the bottom of the battery until the battery releases from the radio. Remove the battery from the radio.



❑ Antenna Note:

Frequently check the antenna to ensure that it is tight.

**ONLY USE THE
ANTENNA
SUPPLIED WITH
THE RADIO**



PREPARING YOUR RADIO FOR USE

❑ Attaching/Removing the Accessory Connector Cover



Accessory
Connector

The accessory connector is located on the antenna side of the radio. It is used to connect accessories to the radio.

Note: This is an area where moisture accumulates. Occasionally remove your accessory to clean this area.

PREPARING YOUR RADIO FOR USE

❑ Using the Leather Holster

Position the radio within the holster with the main speaker facing outward and the LCD display facing the belt clip



Secure the radio by running the restraining strap between the volume and channel controls and snapping it in.

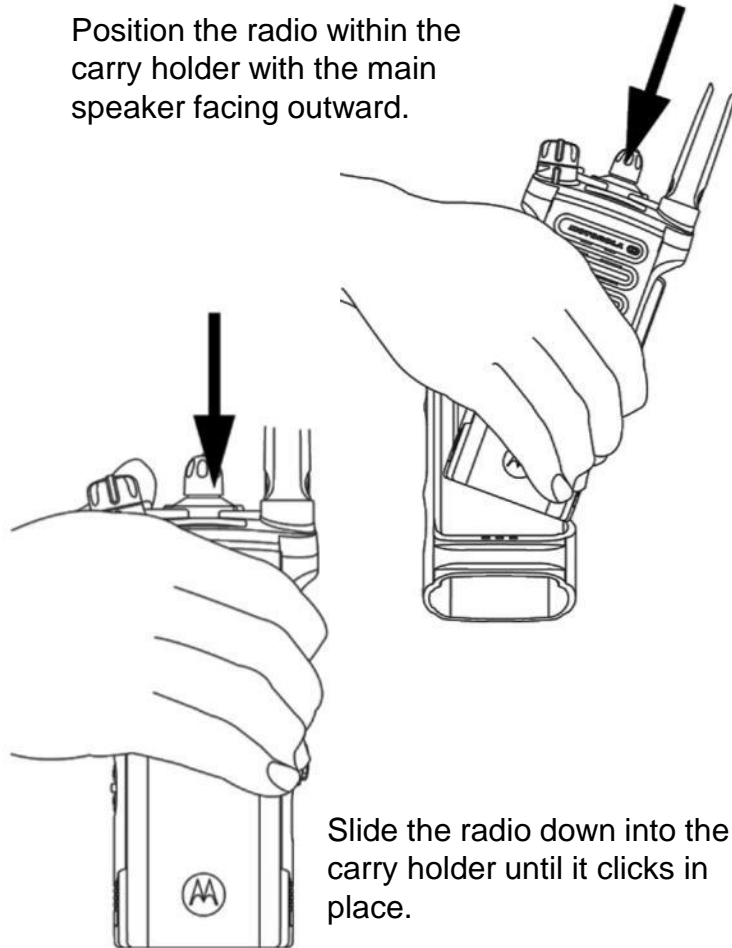
To remove the radio from the holster, unsnap the restraining strap and pull the radio out using the plastic lip with the Motorola logo on it. **Do not pull the radio out by the antenna!**



PREPARING YOUR RADIO FOR USE

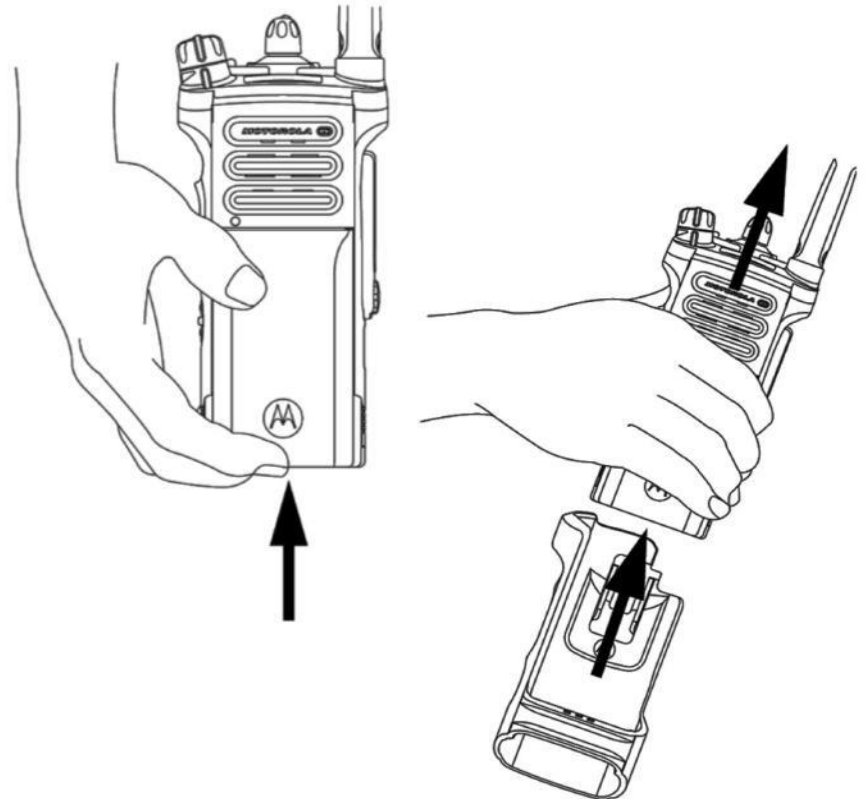
❑ Using the Plastic Carry Holder

Position the radio within the carry holder with the main speaker facing outward.



Slide the radio down into the carry holder until it clicks in place.

To remove the radio from the carry holder, place the tip of your fingers on the ledge of the carry holder and push at the bottom of the radio until the radio is released from it.



PREPARING YOUR RADIO FOR USE

❑ Turning on/off the Radio

Rotate the **On/Off/Volume Control Knob** clockwise until you hear a click.

*If the power-up test is successful, you see **SELFTEST** on the radio's display momentarily, followed by the home screen.*

Note: *If the power-up test is unsuccessful, turn radio off and back on to see if it is successful. Contact BRICS if radio still does not power on.*



❑ Adjusting the Volume

To increase the volume, turn the **On/Off/Volume Control Knob** clockwise.

To decrease the volume, turn this knob counterclockwise.

Note: Ensure that the main speaker is pointed towards you for increased loudness and intelligibility, especially in areas with loud background noises.



Butler Regional Interoperable Communications System



GENERAL OPERATION

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BRICS

IDENTIFYING RADIO CONTROLS

❑ Push-To-Talk (PTT) Button

- Press and hold down **PTT** button, wait for the talk permit tone, then talk. Release the **PTT** button to listen.
The microphone is activated when the **PTT** button is pressed.
- While a call is not in progress, the **PTT** button is used to make a new call.



MICROPHONES

- ❑ Speak Clearly into the microphone



- ❑ Red Lines indicate microphones

❑ Accessing the Preprogrammed Functions

You can access various radio functions through one of the following ways:

- A short or long press of the relevant programmable buttons.

OR

- Use the **Menu Select Buttons** (◻, ◻, and ◻).

Using the Menu Select Buttons


The **Menu Select Buttons** allow to access the menu entries of features.





IDENTIFYING RADIO CONTROLS

Using the Navigation Buttons

Home Button

The  button returns you to you Zone A, Channel 1. In most cases, this is the current mode.

For selected radio features, the  button is also used to save user-edited radio settings or information before returning you to the home screen.

Note: Some features do not require you to press  to go to the home screen. Refer to the individual feature sections in this manual for further details on saving user-edited radio settings or information.

4-Way Navigation Button

Use this button to scroll up, down, left or right.

Press and release one of the button to scroll from one entry to the next one. Press and hold one of the button to have the radio toggles through the list automatically (release the button to stop).



IDENTIFYING STATUS INDICATORS

❑ Status Icons

The 130 x 130 pixel front liquid crystal display (LCD) of your radio shows radio status, text entries, and menu entries. The top two display rows contain color icons that indicate radio operating conditions.

Selected icons are also shown on the first row of the 112 x 32 pixel top monochrome display screen of your radio.

The following are the icons that appear on the radio's display.



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.



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.



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.

IDENTIFYING STATUS INDICATORS



Secure Operation

- On = Secure operation.
- Off = Clear operation.
- Blinking = Receiving an encrypted voice call.



Location Signal

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



User Login Indicator (IP Packet Data)

- On = User is currently associated with the radio.
- Off = User is currently not associated with the radio.
- Blinking = Device registration or user registration with the server failed due to an invalid username or pin.



Data Activity

Data activity is present.

Top Display



View/Program Mode

- Radio is in the view or program mode.
- On steady = View mode
 - Blinking = Program mode



Bluetooth On

Bluetooth is on and ready for Bluetooth connection.



Top Display

Bluetooth Connected

Bluetooth is currently connected to the external Bluetooth device.



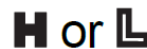
Wi-Fi

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



Monitor (Carrier Squelch)

Selected channel is being monitored (during conventional operation only).



Power Level

- L = Radio is set at Low power.
- H = Radio is set at High power.



Scan

Radio is scanning a scan list.



Priority Channel Scan

- Blinking dot = Radio detects activity on channel designated as Priority-One.
- Steady dot = Radio detects activity on channel designated as Priority-Two.

IDENTIFYING STATUS INDICATORS

❑ LED Indicator

The LED indicator shows the operational status of your radio.



IDENTIFYING STATUS INDICATORS

Solid red – Radio is transmitting in trunked mode.

Blinking red – Radio is transmitting at low battery condition.

Double blinking red – Radio is in 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.

Blinking green – Radio is on a Priority-Two channel while in the Scan List Programming mode.

Note: No LED indication when the radio receives a clear (non-secured) transmission in trunking Mode.

IDENTIFYING STATUS INDICATORS



Orange

Emergency Alerts



Red

Critical Alerts



Green

Call Alerts

IDENTIFYING STATUS INDICATORS

❑ Intelligent Lighting Indicators

This feature temporarily changes the radio's display backlight color and the alert text background color to help signal that a radio event has occurred.




Note: This feature must be preprogrammed by a qualified radio technician.

Backlight and Bar Color	Notification	When
Orange	Emergency Alerts	The radio initiates an emergency alarm or call.
		The radio receives an emergency alarm or call.
Red	Critical Alerts	The radio battery is low.
		The radio is out of range.
		The radio enters failsoft mode.
		The radio is unable to establish a full connection with the system.
		The radio is unable to authenticate or register with the system.
Green	Call Alerts	The radio receives a call alert.




IDENTIFYING STATUS INDICATORS

☐ Alert Tones


Your radio uses alert tones to inform you of your radio's condition. The following table lists these tones and when they occur.

You Hear	Tone Name	Heard
Short, Low-Pitched Tone  Play	Radio Self Test Fail	When radio fails its power-up self test.
	Reject	When unauthorized request is made.
	Time-Out Timer Warning	Four seconds before time out.
	No ACK Received	When radio fails to receive an acknowledgement .
	Individual Call Warning Tone	When radio is in an individual call for greater than 6 seconds without any activity.
Long, Low-Pitched Tone  Play	Time-Out Timer Timed Out	After time out.
	Talk Prohibit/PTT Inhibit	(When PTT button is pressed) transmissions are not allowed.
	Lack of Voice PTT Time out	When the radio ends your call after it detected there are lack of voice for 5 seconds after the PTT is pressed and hold. Your radio ends the call to enable your radio to receive calls from other radio users.
	Out of Range	(When PTT button is pressed) the radio is out of range of the system.
	Invalid Mode	When radio is on an unpreprogrammed channel.
A Group of Low-Pitched Tones  Play	Busy	When system is busy.

IDENTIFYING STATUS INDICATORS

You Hear	Tone Name	Heard
Short, Medium-Pitched Tone  Play	Valid Key-Press	When correct key is pressed.
	Radio Self Test Pass	When radio passes its power-up self test.
	Clear Voice	At beginning of a non-coded communication.
	Priority Channel Received	When activity on a priority channel is received.
	Emergency Alarm Entry	When entering the emergency state.
	Central Echo	When central controller has received a request from a radio.
Long, Medium-Pitched Tone  Play	Volume Set	When volume is changed on a quiet channel.
	Emergency Exit	When exiting the emergency state.
A Group of Medium-Pitched Tones  Play	Failsoft	When the trunking system fails.
	Automatic Call Back	When voice channel is available from previous request.
	Keyfail	When encryption key has been lost.
	Console Acknowledge	When status, emergency alarm, or reprogram request ACK is received.
	Received Individual Call	When Call Alert or Private Call is received.
	Call Alert Sent	When Call Alert is received by the target radio.
	Site Trunking	When a SmartZone trunking system fails.
Two Short, Medium- Pitched Tones	Over-the-Air Programming request	When the radio receives an over-the-air programming request.
Short, High-Pitched Tone (Chirp)	Low-Battery Chirp	When battery is below preset threshold value.

IDENTIFYING STATUS INDICATORS

You Hear	Tone Name	Heard
Two High-Pitched Tones	GPS Fails	When the GPS signal is lost or when GPS fails.
Ringling	Fast Ringling	When system is searching for target of Private Call.
	Enhanced Call Sent	When waiting for target of Private Call to answer the call.
	Phone Call Received	When a land-to-mobile phone call is received.
Gurgle  Play	Dynamic Regrouping	(When the PTT button is pressed) a dynamic ID has been received.
	Talk Permit	(When PTT button is pressed) is verifying with the system for accepting its transmissions.
Unique, Low-Pitched Chirp	New Message	When a new message is received.
Unique, High-Pitched Chirp	Priority Status	When a priority message is received.
Incremental-Pitched Tone	Bluetooth Paired	When Bluetooth accessory is paired with the radio.
	Bluetooth Connected	When Bluetooth accessory is connected to the radio.
Decremental-Pitched Tone	Bluetooth Unpaired	When Bluetooth accessory is unpaired from the radio.
	Bluetooth Disconnected	When Bluetooth accessory is disconnected from the radio.
A Group of Very High-Pitched Tones	Man Down Continuous Tone	When radio is in Man Down mode and prepares to transmit Emergency Alarm when the timer of this alarm ends.
	Critical Man Down Continuous Tone	When radio is in Man Down Enhanced mode and prepares to transmit Emergency Alarm when the timer of this alarm ends.
Unique Low-High Tone	Enhanced Zone Bank Up	When EZB Up button is pressed to scroll the Enhance Zone Bank up.
Unique High-Low Tone	Enhanced Zone Bank Down	When EZB Down button is pressed to scroll the Enhance Zone Bank down.

❑ Selecting a Zone

A zone is a group of talkgroups.

Procedure:

[Zone (3-Position A/B/C)]

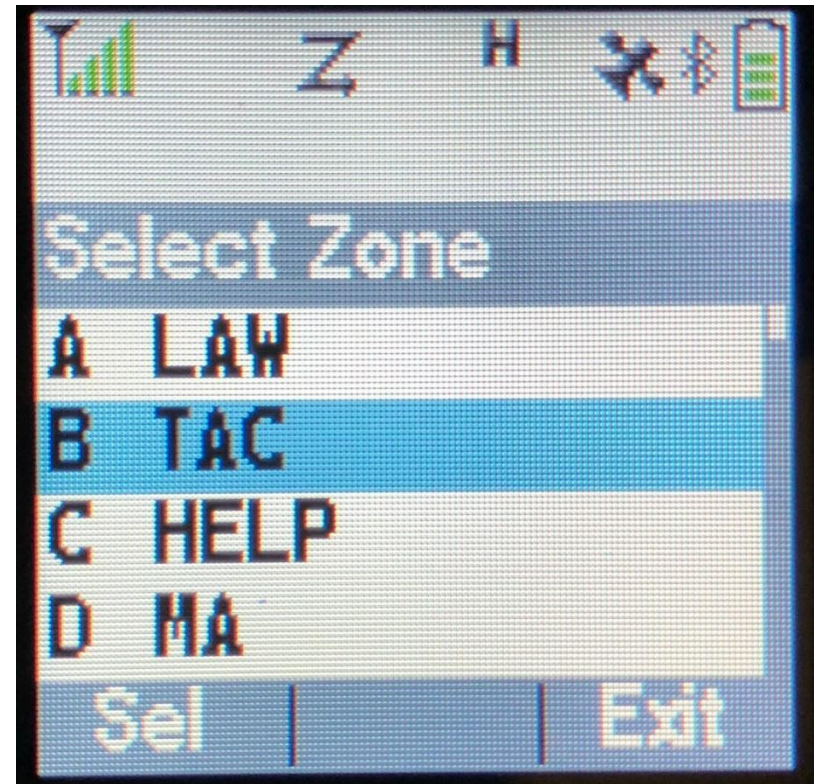
1. Move the preprogrammed **Zone (3-Position A/B/C)** switch to the position of the required zone.

OR

[Menu]

1. ◀ or ▶ to **Zone**.
2. Press the **Menu Select** button directly below **Zone**.
3. ▲ or ▼ to the required zone.
4. Press the **Menu Select** button directly below **Sel** to confirm the displayed zone.
5. Press the **PTT** button to transmit on the displayed zone channel.

DEMO



❑ Selecting a Radio Channel

A channel is a group of radio characteristics, such as transmit/receive frequency pairs.

Procedure:

[16-Position Select Knob]

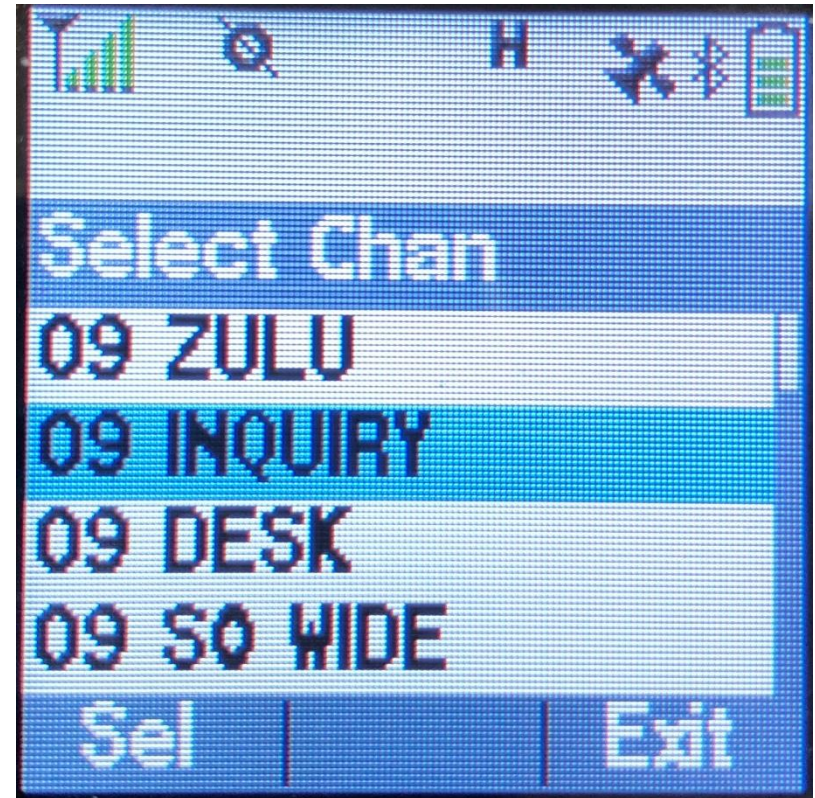
1. Turn the preprogrammed **16-Position Select Knob** to the desired channel.

OR

[Menu]

1. ◀ or ▶ to **Chan.**
2. Press the **Menu Select** button directly below **Chan.**
3. ▲ or ▼ to the required channel.
4. Press the **Menu Select** button directly below **Sel** to confirm the selected channel.
5. Press the **PTT** button to transmit on the displayed zone channel.

DEMO



RADIO TEMPLATE

LOCAL A,B,C Switch

A LAW				B TAC				C HELP			
Name	E	C	F S	Name	E	C	F S	Name	E	C	F S
09 XXXX	T	B	14 1	09 XXXX	T	B	14 7	09 HELP	R	S	1
09 INQUIRY	R	B	14 1	09 EVNT 02	T	A	7	09 TALK	R	S	1
09 DESK	R	B	14 1	09 EVNT 03	T	A	7	09-9 TRVL	R	S	1
09-XX WIDE	R	B	1	09 EVNT 04	T	A	7	09 GSC CTL	T	B	1
09 LAW 05	R	A	1	09 TAC 05	T	A	7	09 GSC OPS	T	B	1
09 LAW 06	R	A	1	09 TAC 06	T	A	7	09 BCJ CTL	T	B	2
09 LAW 07	R	A	1	09 TAC 07	T	A	7	09 BCJ OPS	T	B	2
09 LAW 08	R	A	1	09 TAC 08	T	A	7	09 LC PSD	T	B	1
09 LAW 09	R	A	1	09 TAC 09	T	A	7				
09 LAW 10	R	A	1	09 TAC 10	T	A	7	09 J-CALL	R	B	1
09 LAW 11	R	A	1	09 TAC 11	T	A	7	7 LAW 61D	T		C
09 LAW 12	R	A	1	09 TAC 12	T	A	7	8 TAC 94D	T		C
09 LAW 13	R	A	1	09 TAC 13	T	A	7	8 TAC 93D	T		C
XPRSUIT3	R	S	1	09 TAC 14	T	A	7	8 TAC 92D	T		C
XPRSUIT6	R	S	1	09 TAC 15	T	A	7	8 TAC 91D	T		C
09 LAW 16	R	A	1	09 TAC 16	T	A	7	8 CALL 90	T		C

09 ZULU / “Nine Zulu”

- Zone A – 1
- 9COM law enforcement dispatching – for all agencies except HPD, OPD, OTPD and FTPD
- All BCSO users

09 DELTA / “Nine Delta”

- Oxford PD, OTPD
- Patched to 09 ZULU

09 ECHO / “Nine Echo”

- Fairfield Twp
- Patched to 09 ZULU

09 TANGO / “Nine Tango”

- Hamilton PD

BRICS AND MARCS



Local Sites (BRICS)

Primary Dispatch Channels

Adjacent (BRICS + MARCS)

Incident Channels

Statewide (BRICS + MARCS)

Travel Channel

Top of Zone A

09 INQUIRY

Inquiry dispatcher

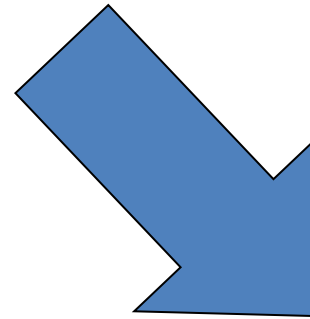
09 DESK

All 9COM Law Enf.
Hamilton and Oxford desk
Normally patched to 09
INQUIRY

A4 WIDE

Local use channel

A2 – A3 Encrypted



	Zone A
1	09-XXXX
2	09 INQUIRY
3	09 DESK
4	09-XX WIDE

A-1 is different
A2 through A3 are the same



Adjacent

Encrypted

Zone A – Channels 5 through 13, 16

- Shared by all **law enforcement** in Butler Co
- Assigned by the dispatch centers
- Encrypted channels
- Anything from two deputies on a call to a large multi-agency law enforcement incident
- Verbalize these channels as “Law #”
- 09 LAW 16 is first choice for **pursuits** or other major in-progress incidents, because it is easiest to switch to while occupied

Zone A	
1	09-XXXX
2	09-9L INQR
3	09 DESK
4	09 SO WIDE
5	09 LAW 05
6	09 LAW 06
7	09 LAW 07
8	09 LAW 08
9	09 LAW 09
10	09 LAW 10
11	09 LAW 11
12	09 LAW 12
13	09 LAW 13
14	XPRSUIT3
15	XPRSUIT6
16	09 LAW 16

Zone A – Channels 14 through 15

- Shared by all **law enforcement** in the state
- Future usage
- Training will be provided when finalized
- Also replicated in ZONE M7 PURSUIT for all of the regions in the state



Statewide

Not Encrypted

	Zone A
1	09-XXXX
2	09-9L INQR
3	09-9L OPS3
4	09-9P OPS4
5	09 LAW 05
6	09 LAW 06
7	09 LAW 07
8	09 LAW 08
9	09 LAW 09
10	09 LAW 10
11	09 LAW 11
12	09 LAW 12
13	09 LAW 13
14	XPRSUIT3
15	XPRSUIT6
16	09 LAW 16



Adjacent

Encrypted

Zone B – Channels 5 through 16

- Shared by all **law, fire and EMS** in Butler Co
- Assigned by the dispatch centers
- Encrypted channels
- Verbalize these channels as “Tac #”
- Good for bomb calls, marine rescues or any incident where a combination of law, fire and EMS need to communicate
- Spill-over from LAW talkgroups if those are full

	Zone B
1	09 XXXX
2	09 EVNT 02
3	09 EVNT 03
4	09 EVNT 04
5	09 TAC 05
6	09 TAC 06
7	09 TAC 07
8	09 TAC 08
9	09 TAC 09
10	09 TAC 10
11	09 TAC 11
12	09 TAC 12
13	09 TAC 13
14	09 TAC 14
15	09 TAC 15
16	09 TAC 16

09-X TRVL (“Travel”)

Statewide Travel talkgroup Zone C – 3

- In all radios
- Allows you to talk with your dispatch center
- Works anywhere in Ohio
- Switch to it if you’re planning to leave the area **BEFORE** you leave

Good tool for transport unit and warrant pickups out of the area!



Statewide
Not Encrypted

Why it’s good:

- Lets you call dispatch
- Lets dispatch call you
- Emergency button works

Remember:

- **CURRENTLY, No GPS** - Hopefully you know where you are if you need help, because your dispatcher won’t.

Calling Patrol → Jail

09 J-CALL

- “Jail Call”
 - Monitored by BC jail control room
 - **Zone C-10** for all law enforcement agencies
 - Also available to all dispatch centers
- Need the sallyport opened?
 - Need to reach the jail control room for any reason?



RADIO TEMPLATE

☐ LOCAL ZONE Using Soft Keys (ZONE)

D MA				D1 MA				D2 MA				E HOSP				F FIRE				G LAW				Zone Z							
Name	E	C	F S	Name	E	C	F S	Name	E	C	F S	Name	E	C	F S	Name	E	C	F S	Name	E	C	F S	Name	E	C	F S	Name	E	C	F S
09 XXXX	T	B	14 7	09 XXXX	T	B	14 7	09 XXXX	T	B	14 7	09 ER TALK	R	A	1	09-3F MAIN	R		1	09-3L MAIN	R		1	09 XXXX	T	B	8				
09 EVNT 02	T	A	7	09 EVNT 02	T	A	7	09 EVNT 02	T	A	7	09 ATRIUM	R	A	1	09-5F MAIN	R		1	09-4L MAIN	R		1	09 INQUIRY	R	B	8				
09 EVNT 03	T	A	7	09 EVNT 03	T	A	7	09 EVNT 03	T	A	7	09 BETH BC	R	A	1	09-6F MAIN	R		1	09-5L MAIN	R		1	09 DESK	R	B	8				
09 EVNT 04	T	A	7	09 EVNT 04	T	A	7	09 EVNT 04	T	A	7	09 CHRIST	R	A	1	09-7F MAIN	R		1	09-6L MAIN	R		1		R	B	8				
09 MA 05	T	A	7	09 MA 05	T	A	7	09 TAC 05	T	A	7	09 FRT HAM	R	A	1	09-8F MAIN	R		1	09-7L MAIN	R		1	09 CVRT 05	R	A	8				
09 MA 06	T	A	7	09 TAC 06	T	A	7	09 MA 06	T	A	7	09 LIB CHL	R	A	1	09 ALPHA	R		1	09-8L MAIN	R		1	09 CVRT 06	R	A	8				
09 MA 07	T	A	7	09 MA 07	T	A	7	09 TAC 07	T	A	7	09 MCHYDE	R	A	1	09 BRAVO	R		1	09 DELTA	R		1	09 CVRT 07	R	A	8				
09 MA 08	T	A	7	09 TAC 08	T	A	7	09 MA 08	T	A	7	09 MERCYFF	R	A	1	09 FD DISP	R		1	09 ECHO	R		1	09 CVRT 08	R	A	8				
09 MA 09	T	A	7	09 MA 09	T	A	7	09 TAC 09	T	A	7	09 WCHOSP	R	A	1	68FDISP1	R		1	09 TANGO	R		1	09 CVRT 09	R	A	8				
09 MA 10	T	A	7	09 TAC 10	T	A	7	09 MA 10	T	A	7	09 HOSP 10	R	A	1					09 ZULU	R		1	09 CVRT 10	R	A	8				
09 MA 11	T	A	7	09 MA 11	T	A	7	09 TAC 11	T	A	7	09 HOSP 11	R	A	1	09 FD INFO	R		1	09 LE INFO	R		1	09 CVRT 11	R	A	8				
09 MA 12	T	A	7	09 TAC 12	T	A	7	09 MA 12	T	A	7	HSR3-MCI	R	A	1	8 TAC 94	T		C	09-31 ACB	R		1	09 CVRT 12	R	A	8				
09 MA 13	T	A	7	09 MA 13	T	A	7	09 TAC 13	T	A	7	HSR6-MCI	R	A	1	8 TAC 93	T		C	SO68 DSP1	R		1								
09 MA 14	T	A	7	09 TAC 14	T	A	7	09 MA 14	T	A	7	09 ER SEC	R	A	1	8 TAC 92	T		C												
09 MA 15	T	A	7	09 MA 15	T	A	7	09 TAC 15	T	A	7	09 ER ANNC	R	A	1	8 TAC 91	T		C												
09 MA 16	T	A	7	09 TAC 16	T	A	7	09 MA 16	T	A	7	09 HELP	R	A	1	8 CALL 90	T		C												

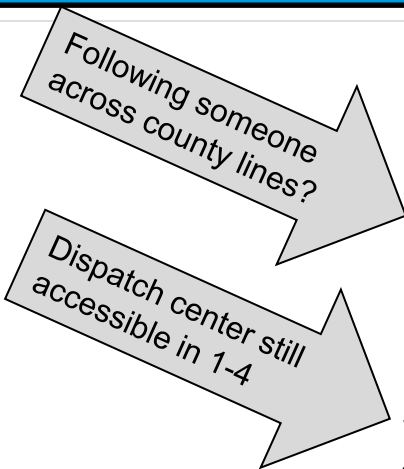
RADIO TEMPLATE (GLOBAL)

#	Zone A	Coverage	What
1	DISPATCH	In County	DELTA, ECHO, TANGO, ZULU
2	09 INQUIRY	In County	Future expansion. Currently patched to DESK
3	09 DESK	In County	Channel used to verify warrants at BCSO, Hamilton and Oxford
4	WIDE	In County	City, Township, Village and SO car to car
5	09 LAW 05	County + ADJ	All BRICS LE, assigned by local dispatcher
6	09 LAW 06	County + ADJ	All BRICS LE, assigned by local dispatcher
7	09 LAW 07	County + ADJ	All BRICS LE, assigned by local dispatcher
8	09 LAW 08	County + ADJ	All BRICS LE, assigned by local dispatcher
9	09 LAW 09	County + ADJ	All BRICS LE, assigned by local dispatcher
10	09 LAW 10	County + ADJ	All BRICS LE, assigned by local dispatcher
11	09 LAW 11	County + ADJ	All BRICS LE, assigned by local dispatcher
12	09 LAW 12	County + ADJ	All BRICS LE, assigned by local dispatcher
13	09 LAW 13	County + ADJ	All BRICS LE, assigned by local dispatcher
14	PURSUIT3	Statewide	Dayton region pursuit channel. Assigned by originating agency.
15	PURSUIT6	Statewide	Cincinnati region pursuit channel. Assigned by originating agency.
16	09 LAW 16	County + ADJ	All BRICS LE, assigned by local dispatcher

#	Zone A	Coverage	What
1	09-xL MAIN	In County	Local Dispatch
2	09-xL OPS2	In County	Local LE OPS
3	09-xL OPS3	In County	Local LE OPS
4	09-xP OPS4	In County	All agency Public Safety
5	09 LAW 05	County + ADJ	All BRICS LE, assigned by local dispatcher
6	09 LAW 06	County + ADJ	All BRICS LE, assigned by local dispatcher
7	09 LAW 07	County + ADJ	All BRICS LE, assigned by local dispatcher
8	09 LAW 08	County + ADJ	All BRICS LE, assigned by local dispatcher
9	09 LAW 09	County + ADJ	All BRICS LE, assigned by local dispatcher
10	09 LAW 10	County + ADJ	All BRICS LE, assigned by local dispatcher
11	09 LAW 11	County + ADJ	All BRICS LE, assigned by local dispatcher
12	09 LAW 12	County + ADJ	All BRICS LE, assigned by local dispatcher
13	09 LAW 13	County + ADJ	All BRICS LE, assigned by local dispatcher
14	PURSUIT3	Statewide	Dayton region pursuit channel. Assigned by originating agency.
15	PURSUIT6	Statewide	Cincinnati region pursuit channel. Assigned by originating agency.
16	09 LAW 16	County + ADJ	All BRICS LE, assigned by local dispatcher

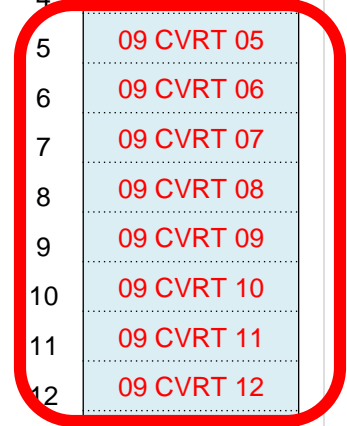
Zone Z – Channels 5 through 12

- **Law Enforcement** only, for:
 - SWAT, surveillance, covert operations, **BURN** assists
- Assigned by the dispatch centers, but they are not on the dispatchers' consoles
- Encrypted channels, not recorded
- Verbalize these channels as "Covert #"
- There are no lights or beeps assigned to this zone



Adjacent
Encrypted

Zone Z	
1	09 XXXX
2	09 INQUIRY
3	09 DESK
4	09-XX WIDE
5	09 CVRT 05
6	09 CVRT 06
7	09 CVRT 07
8	09 CVRT 08
9	09 CVRT 09
10	09 CVRT 10
11	09 CVRT 11
12	09 CVRT 12
13	
14	
15	
16	



RADIO TEMPLATE (CONTD.)

❑ HAMILTON COUNTY, PREBLE COUNTY Using Soft Keys (ZONE)

Hamilton County / Cincinnati System MARCS 348												Preble County																	
H1 Hamilton			H2 Hamilton			Cincinnati			H4 Hamilton			H5 Hamilton			I Preble														
Name	E	C	F	S	Name	E	C	F	S	Name	E	C	F	S	Name	E	C	F	S										
31 MA 1	R			2	31 MA 11	R			2	31 CMA 1	R			2	31 AW 1	R			2	31 AW 11	R			2	SO 68DSP1	R			2
31 MA 2	R			2	31 MA 12	R			2	31 CMA 2	R			2	31 AW 2	R			2	31 AW 12	R			2	SO 68DSP2	R			2
31 MA 3	R			2	31 MA 13	R			2	31 CMA 3	R			2	31 AW 3	R			2	31 AW 13	R			2	SO-68	R			2
31 MA 4	R			2	31 MA 14	R			2	31 CMA 4	R			2	31 AW 4	R			2	31 AW 14	R			2	COEMA 68	R			2
31 MA 5	R			2	31 MA 15	R			2	31 CMA 5	R			2	31 AW 5	R			2	31 AW 15	R			2					
31 MA 6	R			2	31 MA 16	R			2	31 CMA 6	R			2	31 AW 6	R			2	31 AW 16	R			2					
31 MA 7	R			2	31 MA 17	R			2	31 CMA 7	R			2	31 AW 7	R			2	31 AW 17	R			2					
31 MA 8	R			2	31 MA 18	R			2	31 CMA 8	R			2	31 AW 8	R			2	31 AW 18	R			2					
31 MA 9	R			2	31 MA 19	R			2	31 CMA 9	R			2	31 AW 9	R			2	31 AW 19	R			2					
31 SCHOOL	R			2	31 MA 20	R			2	31 CMA 10	R			2	31 AW 10	R			2	31 AW 20	R			2					
					31 MA 21	R			2	31 CMA 11	R			2						31 AW 21	R			2					
HC 4	T			C	31 MA 22	R			2	31 CMA 12	R			2						31 AW 22	R			2					
HC 3	T			C	31 MA 23	R			2	31 CMA 13	R			2	31 LE WEST	R			2	31 AW 23	R			2					
HC 2	T			C	31 MA 24	R			2	31 CMA 14	R			2	31 LE CENT	R			2	31 AW 24	R			2					
HC 1	T			C	31 MA 25	R			2	31 CMA 15	R			2	31 LE EAST	R			2	31 AW 25	R			2					
HC CALL	T			C	31 RIVER	R			2	31 CMA 16	R			2	31 PURSUIT	R			2	31 AW 26	R			2					

RADIO TEMPLATE (CONTD.)

❑ MONTGOMERY COUNTY Using Soft Keys (ZONE)

Montgomery County MARCS 348														
K1 Montgomery				K2 Montgomery				K5 Montgomery						
Name	E	C	F	S	Name	E	C	F	S	Name	E	C	F	S
57 LE 1	T			2	57 RDC NORTH	T			2	57 CW 1	T			2
57 LE 2	R			2	57 RDC SOUTH	T			2	57 CW 2	T			2
57 LE 3	R			2	57 RDC EAST	T			2	57 CW 3	T			2
57 LE 4	R			2	57 RDC WEST	T			2	57 CW 4	T			2
57 LE 5	R			2	57 RDC CENRL	T			2	57 CW 5	T			2
57 CW 1	R			2	57 RDC TAC 1	T			2	57 LE 1	T			2
57 CW 2	R			2	57 RDC TAC 2	T			2	57 LE 2	T			2
57 CW 3	R			2	57 RDC TAC 3	T			2	57 LE 3	T			2
57 CW 4	R			2	57 RDC TAC 4	T			2	57 LE 4	T			2
57 CW 5	R			2	57 RDC TAC 5	T			2	57 RDC HELP	T			2
57 MC OEM	R			2	57 RDC RCRD 1	T			2	57 MC OEM	T			2
					57 RDC RCRD 2	T			2	57 MC JAIL	T			2
					57 RDC HELP	T			2	57 MC ARC	T			2
										57 BOX 21	T			2
										57RTA SUPR	T			2
8 TAC 91D P	C			2	8 TAC 91D P	C			2	57 FRMP PD	T			2

RADIO TEMPLATE (CONTD.)

☐ WARREN COUNTY, SW TAC Using Soft Keys (ZONE)

L1 Warren				L2 Warren				M0 SW TAC				M1 SW TAC			
Name	E	C	F S	Name	E	C	F S	Name	E	C	F S	Name	E	C	F S
83PD PRIM1	R		4	83PD PRIM 1	R		4	SW TAC 1	T	S	5	SW TAC 15	T	S	5
83PD PRIM2	R		4	83PD PRIM2	R		4	SW TAC 2	T	S	5	SW TAC 16	T	S	5
83 HAIL	T		4	83 HAIL	T		4	SW TAC 3	T	S	5	SW TAC 17	T	S	5
83 NIMS	R		4	83 TAC 12	R		4	SW TAC 4	T	S	5	SW TAC 18	T	S	5
83 TAC 02	R		4	83 TAC 13	R		4	SW TAC 5	T	S	5	SW TAC 19	T	S	5
83 TAC 03	R		4	83 TAC 14	R		4	SW TAC 6	T	S	5	SW TAC 20	T	S	5
83 TAC 04	R		4	83 TAC 15	R		4	SW TAC 7	T	S	5	SW TAC 21	T	S	5
83 TAC 05	R		4	83 TAC 16	R		4	SW TAC 8	T	S	5	SW TAC 22	T	S	5
83 TAC 06	R		4	83 TAC 17	R		4	SW TAC 9	T	S	5	SW TAC 23	T	S	5
83 TAC 07	R		4	83 TAC 18	R		4	SW TAC 10	T	S	5	SW TAC 24	T	S	5
83 TAC 08	R		4	83 TAC 19	R		4	SW TAC 11	T	S	5	SW TAC 25	T	S	5
83 TAC 09	R		4	83 TAC 20	R		4	SW TAC 12	T	S	5	SW TAC 26	T	S	5
83 TAC 10	R		4	83 TAC 21	R		4	SW TAC 13	T	S	5	SW TAC 27	T	S	5
83 TAC 11	R		4	83 LAW 1	R		4	SW TAC 14	T	S	5	SW TAC 28	T	S	5
83PD PRIM2	R		4	83 LAW 2	R		4	SW MYDY 1	T	S	5	SW MYDY 3	T	S	5
83PD PRIM1	R		4	83 LAW 3	R		4	SW MYDY 2	T	S	5	SW MYDY 4	T	S	5

Butler County is assigned SW TAC 11, 12 for SOSINK Region 6

RADIO TEMPLATE (CONTD.)

❑ STATEWIDE INTEROPERABILITY Using Soft Keys (ZONE)

M2 LECOM				M3 MARCS				M4 ECOMM				M5 ECOMM				M6 SO				M7 PURSUIT			
Name	E	C	F S	Name	E	C	F S	Name	E	C	F S	Name	E	C	F S	Name	E	C	F S	Name	E	C	F S
XLECOM1	R	S	2	XMARCS1	R	S	2	XECOMM1	R	S	2	XECOMM17	R	S	2	XSO-NW	R	S	2	XPRSUIT1	R	S	2
XLECOM2	R	S	2	XMARCS2	R	S	2	XECOMM2	R	S	2	XECOMM18	R	S	2	XSO-NE	R	S	2	XPRSUIT2	R	S	2
XLECOM3	R	S	2	XMARCS3	R	S	2	XECOMM3	R	S	2	XECOMM19	R	S	2	XSO-SE	R	S	2	XPRSUIT3	R	S	2
XLECOM4	R	S	2	XMARCS4	R	S	2	XECOMM4	R	S	2	XECOMM20	R	S	2	XSO-SW	R	S	2	XPRSUIT4	R	S	2
XLECOM5	R	S	2	XMARCS5	R	S	2	XECOMM5	R	S	2	XECOMM21	R	S	2	XSO-CEN	R	S	2	XPRSUIT5	R	S	2
XLECOM6	R	S	2	XMARCS6	R	S	2	XECOMM6	R	S	2	XECOMM22	R	S	2	XSO-01	R	S	2	XPRSUIT6	R	S	2
XLECOM7	R	S	2	XMARCS7	R	S	2	XECOMM7	R	S	2	XECOMM23	R	S	2	XSO-08	R	S	2	XPRSUIT7	R	S	2
XLECOM8	R	S	2	XMARCS8	R	S	2	XECOMM8	R	S	2	XECOMM24	R	S	2	XSO-09	R	S	2	XPRSUIT8	R	S	2
XLECOM9	R	S	2	XMARCS9	R	S	2	XECOMM9	R	S	2	XECOMM25	R	S	2	XSO-13	R	S	2				
XLECOM10	R	S	2	XMARCS10	R	S	2	XECOMM10	R	S	2	XECOMM26	R	S	2	XSO-14	R	S	2				
XLECOM11	R	S	2	XMARCS11	R	S	2	XECOMM11	R	S	2	XECOMM27	R	S	2	XSO-29	R	S	2				
XLECOM12	R	S	2	XMARCS12	R	S	2	XECOMM12	R	S	2	XECOMM28	R	S	2	XSO-31	R	S	2				
XLECOM13	R	S	2	XMARCS13	R	S	2	XECOMM13	R	S	2				XSO-36	R	S	2					
XLECOM14	R	S	2	XMARCS14	R	S	2	XECOMM14	R	S	2				XSO-57	R	S	2					
XLECOM15	R	S	2	MARCRPT1	T		C	XECOMM15	R	S	2				XSO-68	R	S	2					
XLECOM16	R	S	2	MARCRPT2	T		C	XECOMM16	R	S	2				XSO-83	R	S	2					

M2 XLECOM1-16; Open talkgroups, first come first served
M4-M5 XECOMM1-28; Must be assigned. Request to BRICS
To receive permission to use. Requires an ICS205

RADIO TEMPLATE (CONTD.)

❑ TOWER ON WHEELS Using Soft Keys (ZONE)

MARCS 5A1				MARCS 649			
M8 TOW 5A1				M9 TOW 649			
Name	E	C	F S	Name	E	C	F S
XSCOMM01	T		6	XSCOMM17	T		6
XSCOMM02	T		6	XSCOMM18	T		6
XSCOMM03	T		6	XSCOMM19	T		6
XSCOMM04	T		6	XSCOMM20	T		6
XSCOMM05	T		6	XSCOMM21	T		6
XSCOMM06	T		6	XSCOMM22	T		6
XSCOMM07	T		6	XSCOMM23	T		6
XSCOMM08	T		6	XSCOMM24	T		6
XSCOMM09	T		6	XSCOMM25	T		6
XSCOMM10	T		6	XSCOMM26	T		6
XSCOMM11	T		6	XSCOMM27	T		6
XSCOMM12	T		6	XSCOMM28	T		6
XSCOMM13	T		6	XSCOMM29	T		6
XSCOMM14	T		6	XSCOMM30	T		6
XSCOMM15	T		6	XSCOMM31	T		6
XSCOMM16	T		6	XSCOMM32	T		6

MARCS has TOW's positioned around the state for major events or disasters. BRICS will be involved if they are deployed in our area.

RADIO TEMPLATE (CONTD.)

❑ TRAINING Using Soft Keys (ZONE)

This is a zone that allows training on **E BUTTON** usage or general radio training

BRICS TRAINING			
TRAINING			
Name	E	C	F S
09TRN TCTL	T	B	8
09TRN TCT2	T	B	8
09TRN TCT3	T	B	8
09TRN REV4	R	B	8
09TRN REV5	R	B	8
09TRN HOTT	T	B	8
09TRN HOTR	R	B	8
7 TAC 71D	T		8
7 LAW 81D	T		8
7 FIRE 63D	T		8
8 TAC 93D	T		8
09TRN TCTL	T	B	8

Zone will not be active. Must request an ICS205 to allow your local training.

RADIO TEMPLATE (CONTD.)

❑ 700MHz Conventional Using Soft Keys (ZONE)

700MHz Conventional														
V Nat Mut Aid			W Nat Mut Aid			X Nat Mut Aid			Y Nat Mut Aid					
Name	E	C	F	S	Name	E	C	F	S	Name	E	C	F	S
7 CALL 50	T		C		7 MOB 59	T		C		7 CALL 70	T		C	
7 CALL 50D	T		C		7 MOB 59D	T		C		7 CALL7 0D	T		C	
7 TAC 51	T		C		7 LAW 61	T		C		7 TAC 71	T		C	
7 TAC 51D	T		C		7 LAW 61D	T		C		7 TAC 71D	T		C	
7 TAC 52	T		C		7 LAW 62	T		C		7 TAC 72	T		C	
7 TAC 52D	T		C		7 LAW 62D	T		C		7 TAC 72D	T		C	
7 TAC 53	T		C		7 FIRE 63	T		C		7 TAC 73	T		C	
7 TAC 53D	T		C		7 FIRE 63D	T		C		7 TAC 73D	T		C	
7 TAC 54	T		C		7 FIRE 64	T		C		7 TAC 74	T		C	
7 TAC 54D	T		C		7 FIRE 64D	T		C		7 TAC 74D	T		C	
7 TAC 55	T		C		7 MED 65	T		C		7 TAC 75	T		C	
7 TAC 55D	T		C		7 MED 65D	T		C		7 TAC 75D	T		C	
7 TAC 56	T		C		7 MED 66	T		C		7 TAC 76	T		C	
7 TAC 56D	T		C		7 MED 66D	T		C		7 TAC 76D	T		C	
7 GTAC 57	T		C		7 DATA 69	T		C		7 GTAC 77	T		C	
7 GTAC 57D	T		C		7 DATA 69D	T		C		7 GTAC 77D	T		C	

Can be used in poor coverage areas to talk radio to radio

LE at Other PSAPs

- 3COM: Fairfield
- 4COM: Miami University
- 5COM: Trenton
- 6COM: Monroe
- 7COM: West Chester
- 8COM: Middletown
- 9COM: Butler County

Zone G

- All main LE dispatching talkgroups are in Zone G for scanning purposes

Name Examples

- 09-4L MAIN is 4COM Law
- 09-5L MAIN is 5COM Law

G LAW
Name
09-3L MAIN
09-4L MAIN
09-5L MAIN
09-6L MAIN
09-7L MAIN
09-8L MAIN
09 DELTA
09 ECHO
09 TANGO
09 ZULU
09 LE INFO
09-31 ACB
SO68 DSP1

FD at Other PSAPs

- 3COM: Fairfield
- 4COM: Miami University
- 5COM: Trenton
- 6COM: Monroe
- 7COM: West Chester
- 8COM: Middletown
- 9COM: Butler County

Zone F

- All main FD dispatching talkgroups are in Zone F for scanning purposes

Name Examples

- 09-5F MAIN is 5COM Fire
- 09-8F MAIN is 8COM Fire

F FIRE
Name
09-3F MAIN
09-5F MAIN
09-6F MAIN
09-7F MAIN
09-8F MAIN
09 ALPHA
09 BRAVO
09 FD DISP
68FDISP1
09 FD INFO
8 TAC 94
8 TAC 93
8 TAC 92
8 TAC 91
8 CALL 90

09 ALPHA / “Nine Alpha”

- Zone F (for scanning)
- 9COM fire / EMS dispatching – West side departments
- Usually patched with 09 BRAVO

09 BRAVO / “Nine Bravo”

- Zone F (for scanning)
- 9COM fire / EMS dispatching for Hamilton FD, Liberty Twp FD and Fairfield Twp FD.
- Normally patched with 09 ALPHA

The All-County Broadcast (ACB)

09 LE INFO / 09-31 ACB

- Keep it in your **scan list!**
 - It's in **Zone G**
 - It's the LEERN equivalent in terms of monitoring broadcasts for Butler County
 - It's receive-only – only dispatchers talk on it
- Hear ACBs from any Butler County dispatch center
 - 09-31 ACB
 - Can hear Hamilton County ACB's pertaining to Butler County
 - **Reminder:** You can ask the dispatcher to put something out as an ACB – quicker than a teletype

Butler Regional Interoperable Communications System



ADVANCED FEATURES

APX 6000XE
Model 2.5



BRICS

❑ Scan

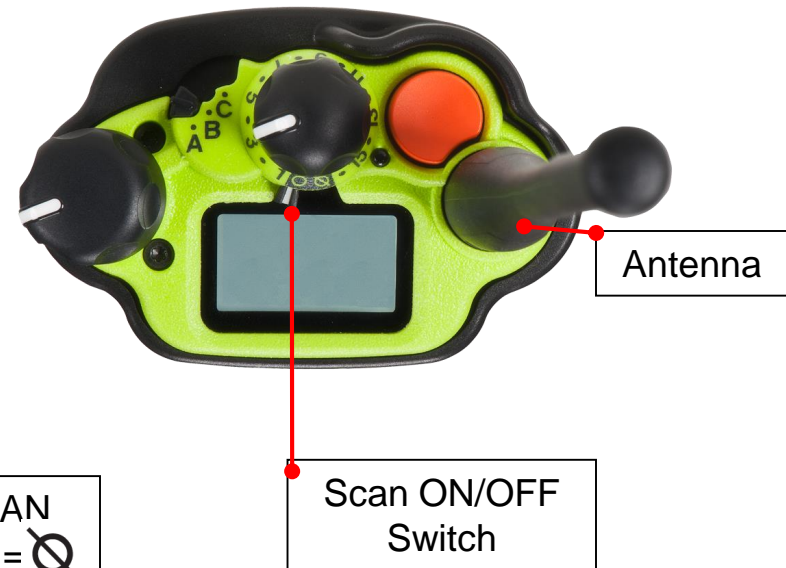
Turning Scan On or Off



This feature allows you to monitor traffic on different channels by scanning a preprogrammed list of channels.

Procedure:

[Preprogrammed Button]

1. Press the preprogrammed **Scan** button, or turn the preprogrammed Scan switch to the Scan on or Scan off position, to initiate or stop scan.



SCAN
OFF = 
ON = 

❑ Scan Lists

Viewing a Scan List

Scan lists are created and assigned to individual channels/groups.

Your radio scans for voice activity by cycling through the channel/group sequence specified in the scan list for the current channel/group.

Procedure:

1. ◀ or ▶ to **ScnL**.
2. Press the **Menu Select** button directly below **ScnL**.
3. ▲ or ▼ to view the members on the list.
4. Press 🏠 to exit the current display and return to the home screen.



❑ Scan Lists

Editing the Scan List

This feature lets you change scan list members and priorities.

Procedure:

OR


[Menu]

DEMO

1. ◀ or ▶ to **ScnL**.
2. Press the **Menu Select** button directly below **ScnL**.
The display shows the lists that can be changed.
3. ▲ or ▼ to the entry you want to edit.
4. Press the **Menu Select** button directly below **Sel** to add and/ or change the priority of the currently displayed channel in the scan list.
OR
Press the **Menu Select** button directly below **Del** to delete the currently displayed channel from the scan list.

OR

Press the **Menu Select** button directly below **Rcl** to view the next member of the scan list.

5. ▲ or ▼ to select more channels to be added or deleted.
OR
Use the **16-Position Select knob** to select additional channels to be added or deleted.
6. Press  to exit scan list programming and return to the home screen.

Priority Status

Below the **Sel**, **Del**, and **Rcl** screen, press the **Menu Select** button directly below **Sel** to view and/or change the priority status of the currently displayed channel.

OR

Below the **Sel**, **Del**, and **Rcl** screen, press the **Sel** button one or more times to view and/or change the scan list status icon of the currently displayed channel.

A Scan icon indicates that the current channel is in the scan list as a non-priority channel.

The LED lights up solid green.

OR

A Priority-Two Channel Scan icon indicates that the current channel is in the scan list as the Priority-Two channel.

The LED blinks green.

OR

A Priority-One Channel Scan icon indicates that the current channel is in the scan list as the Priority-One channel.

The LED rapidly blinks green.

You hear all traffic on the Priority- One channel, regardless of traffic on non-priority channels.

OR

No icon indicates that the current channel is deleted from the scan list.

❑ Scan

Deleting a Nuisance Channel

If a channel continually generates unwanted calls or noise (termed a “nuisance” channel), you can temporarily remove the unwanted channel from the scan list.

This capability does not apply to priority channels or the designated transmit channel.

Procedure:

[Menu]

1. ◀ or ▶ to **Nuis**.
2. Press the **Menu Select** button directly below **Nuis**.
The radio continues scanning the remaining channels in the list.



❑ Scan

Restoring a Nuisance Channel

Procedure:

To restore the deleted nuisance channel, do one of the following:

- Turn the radio off and then turning it on again.
OR
- Stop and restart a scan via the preprogrammed **Scan** button or menu.
OR
- Change the channel via the **16-Position Select knob**.



❑ Emergency Operation

The Emergency feature is used to indicate a critical situation.

If the **Top (Orange)** button is preprogrammed to send an emergency signal, this signal overrides any other communication over the selected channel.

Your radio supports the following Emergency modes:

- Emergency Alarm with Emergency Call

Note: To exit emergency at any time, press and hold the preprogrammed **Emergency** button for about a second.

Note: The radio operates in the normal dispatch manner while in Emergency Call, except if enabled, it returns to one of the following:

- **Talkgroup Revert**

The radio sends emergency alarm and/or make emergency call on the assigned revert talkgroup, which is normally your A1 talkgroup.

- **Tactical**

Stays on your selected talkgroup or conventional channel.

- **Hot Mic**

If your assigned talkgroup is 09 BCJ CTL, an emergency button press opens your microphone for 10 seconds and sends an alarm.

DEMO

❑ Emergency Operation

- **You will be queried by a dispatch center about your activation.**
 - EX: 9COM to 1S38, Are you declaring an emergency?
 - If this is an actual emergent activation, simply state your emergency and the resources needed.
 - If it was an accidental activation you must use the keyword to clear the accidental activation.
 - Any other response will generate a Law Enforcement response to ensure you are OK.
 - EX: 9E2027, accidental, _____.
- Reset the emergency status by pressing and holding the **ORANGE BUTTON**, then releasing.
- Make sure you reset your emergency button before switching talkgroups.



❑ Global Positioning System/ Global Navigation Satellite System

The Global Navigation System (GNSS) in the radio integrated the information from the Global Positioning System (GPS) and Global Navigation Satellite System (GLONASS) to determine the approximate geographical location of your radio. **Note:** This feature is addressed as GPS across the manual as the naming convention of the buttons and strings remain the same as the legacy feature of GPS.

The availability and accuracy of this location information (and the amount of time that it takes to calculate it) varies depending on the environment in which you are using the GPS feature.

For example, GPS location fixes are difficult to obtain indoors, in covered locations, between high buildings, or in situations where you have not established a clear broad view of the sky.

Once GPS is enabled, the radio displays the GPS icon on the screen.

❑ Global Positioning System/ Global Navigation Satellite System

GPS Operation

The GPS technology uses radio signals from earth orbiting satellites, to establish the location coordinates, maximizing your view of clear unobstructed sky is essential for optimum performance.

Where adequate signals from multiple satellites are not available (usually because you cannot establish a view of a wide area of the sky), the GPS feature of your radio will not work. Such situations include but are not limited to:

- Underground locations
- Inside of buildings, trains, or other covered vehicles
- Under any other metal or concrete roof or structure
- Between tall buildings or under dense tree-cover
- In temperature extremes outside the operating limits of your radio

Even where location information can be calculated in such situations, it may take longer to do so, and your location estimate may not be as accurate. Therefore, in any emergency situation, always report your location to your dispatcher.

Keep in mind that the accuracy of the location information and the time it takes to obtain it varies depending upon circumstances, particularly the ability to receive signals from an adequate number of satellites.

Note: Even where adequate signals from multiple satellites are available, your GPS feature only provides an approximate location, usually within 10 meters from your actual location, but sometimes farther away.

The satellites used by the GPS feature are controlled by the U.S. government and are subject to changes implemented in accordance with the Department of Defense GPS user policy and the Federal Radio Navigation Plan. These changes may affect the performance of the GPS feature on your radio.

❑ Trunking System Controls

Out-of-Range Radio

When your radio goes out of the range of the system, it can no longer lock onto a control channel.

Procedure:

1. *You hear a low-pitched tone.*

AND/OR

*The display shows the currently selected zone/channel combination and **Out of range**.*

Your radio remains in this out-of-range condition until:
It locks onto a control channel.

OR

It locks onto a failsoft channel.

OR

It is turned off.



❑ Trunking System Controls

Site Trunking Feature

If the zone controller loses communication with any site, that site reverts to site trunking.

The display shows the currently selected zone/channel combination and **Site trunking**.

What does it mean when my radio says “SITE TRUNKING?”

If a significant failure caused the radio tower sites to lose their connection to the master site (possibly due to a zone controller failure), they can operate independently in “site trunking” mode. Users will be able to communicate between towers but will be unable to reach a dispatch center console. The radio display will alternate between “SITE TRUNKING” and the name of the selected talkgroup.

Dispatchers will receive an audible alarm on their PSAP backup control station radio, prompting them to turn on portable radios. Their consoles will not be able to use network talkgroups during site trunking mode.

Note: When this occurs, you can communicate only with other radios within your trunking site.



Turning Bluetooth Visibility On

Turning Bluetooth visibility to on enables other Bluetooth devices to search for your radio.

The visibility of the Bluetooth is set to off by default.

Procedure:

1. ◀ or ▶ to **BT**.
2. Press the **Menu Select** button directly below **BT** to access the Bluetooth feature screen.
3. ▲ or ▼ to **Visibility**.
4. Press the **Menu Select** button directly below **On**.
*The status changes to **Visible to all**.*

Visibility mode is enabled.

OR

*When the timer expires, the status changes to **Visibility failed**.*

Repeat step 1.

Receiving Pairing Request from other Devices

Procedure:

1. *When your radio receives a pairing request from other device, the display shows **<Device Friendly Name> pair request**.*

Press the **Menu Select** button below **Ok** to accept or **Cncl** to refuse request pairing request.

Searching and Pairing a Bluetooth Device

Bluetooth Search in Bluetooth Standard Pairing method is used to scan for other Bluetooth devices nearby. It is set to **Off** by default.

Note: Ensure the Bluetooth on your device is turned to **On** and is set to **DISCOVERABLE** in order to enable your radio to detect your device in Bluetooth.

Procedure:

1. ◀ or ▶ to **BT**.
2. Press the **Menu Select** button directly below **BT** to access the Bluetooth feature screen.
3. ▲ or ▼ to **Search Devices**.
4. Press the **Menu Select** button directly below **On**.

*The display changes to BT Searching screen and it shows **Searching for BT devices**.*

OR

You hear the radio sounds a short, low-pitched tone.

*The Bluetooth feature screen shows **BT Search failed**.*

The BT Searching screen shows the name of Bluetooth devices found if there are any.

OR

To stop the searching press the **Menu Select** button below **Stop**.

*When the search timer expires, **Available Dev** screen is shown.*

The display shows a list of Bluetooth devices found.

5. If the list shows the required device, ▲ or ▼ to the device name and press the **Menu Select** button directly below **Sel** to connect to the device.

The radio starts pairing to the device.

OR

Press the **Menu Select** button below **Back** to return to Bluetooth feature screen.

OR

Press  or the **Menu Select** button below **Exit** to return to home screen.

NOTE: *Some bluetooth devices will have different pairing instructions. Please refer to your bluetooth accessory documentation for specific instructions and troubleshooting.*

❑ **Over-the-Air Programming (POP 25, ASTRO 25, ASTRO Conventional, and Wi-Fi)**

This feature enables configuration data and firmware to be upgraded to your radio over-the-air. Full use of the radio is retained during the data transfer without interrupting communication. For ASTRO 25 and ASTRO Conventional, the upgrade pauses to give priorities to voice call, and continues after the voice call ended. For Wi-Fi, the upgrade process runs concurrently with voice calls.

Once a configuration upgrade is downloaded to your radio, you can install new changes immediately or delay changes to be installed on the radio when it is being powered up.

NOTE: Wi-Fi programming is currently available at the BRICS office but Pop 25 programming has not been activated.

❑ Over-the-Air Programming (POP 25, ASTRO 25, ASTRO Conventional, and Wi-Fi)

Responding to the notification of Upgrade

Procedure:

1. *The display shows **Upgrade?**.*

Press the **Menu Select button** below **Acpt** to accept the request to upgrade immediately.

*The display shows **Upg Rx In Prog** to indicate the upgrade received is in progress.*

OR

Press the **Menu Select button** below **Dlay** to delay the request to upgrade.

The radio prompts to upgrade in the next power up of your radio.

*If the upgrade is successful, the display shows **Program done**.*

OR

*If the upgrade failed, the display shows **Program failed**.*

The radio remains in current configuration.

If your radio has problem of upgrade over-the-air, consult the qualified technician for details.

❑ Wi-Fi

Turning Wi-Fi On or Off

This feature allows you to turn Wi-Fi on or off. Wi-Fi can be used for wireless programming of the radio with the Radio Management tool.

Note: Wi-Fi Network Name (SSID) for the radio to connect to must be preprogrammed by a qualified radio technician. The following methods are options on how to turn Wi-Fi on or off.

Procedure:

[Menu]

1. ◀ or ▶ to **Wi-Fi**.
2. Press the **Menu Select** button directly below **Wi-Fi**.

*If the display shows **Wi-Fi Status being Off**, press the **Menu Select** button directly below **On**.*

*If the display shows **Wi-Fi Status as Searching, Connecting, Connected** or **No Service**, press the **Menu Select** button directly below **Off** to turn Wi-Fi off.*

Note: Wi-Fi should be left off unless BRICS instructs you to turn it on. Battery life will be diminished if Wi-Fi is left on.

❑ Wi-Fi

Checking the Wi-Fi Configuration and Status of the Radio


Procedure:

[Menu]

1. ◀ or ▶ to **Wi-Fi**.
2. Press the **Menu Select** button directly below **Wi-Fi**.

The display shows the current status of the Wi-Fi as described next.

Searching	Looking for available Wi-Fi networks that have been preprogrammed into the radio.
Connecting	In the process of connecting to a found Wi-Fi network.
Connected	Connected to one of the preprogrammed Wi-Fi networks.
No Service	No available networks or connection with one of the networks failed.

If the radio is Wi-Fi connected, you see a Wi-Fi signal strength indicator,  on the front display.

In addition, the Wi-Fi menu shows **Connected** under the connection Status heading, what network you are connected to under the Network heading, and the signal strength to that network under the Sig Strength heading.

Butler Regional Interoperable Communications System



UTILITIES

APX 6000XE
Model 2.5



BRICS

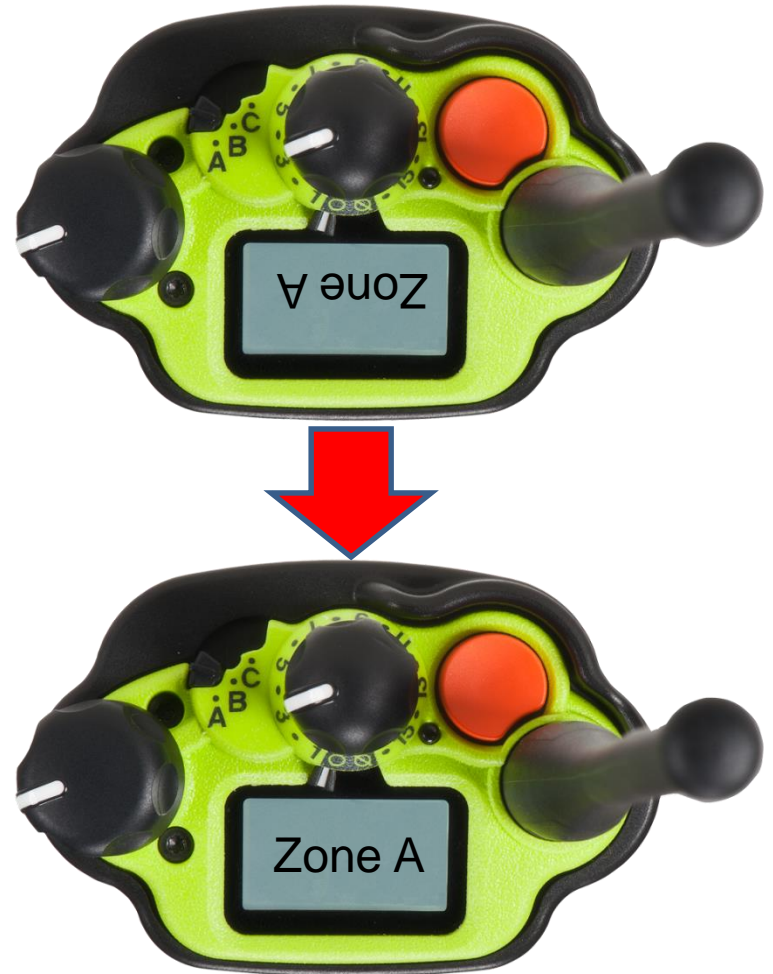
❑ Using the Flip Display

This feature allows you to flip the content of the top display upside down. It is particularly useful when you would like to read the top display while the radio is still in the carry holder attached to your belt.

Procedure:

DEMO

1. Press and hold side button 1 to flip the display.
2. A short press also turns on your backlight for 15 seconds.



❑ Selecting a Radio Profile

This feature allows you to manually switch the visual and audio settings of the radio. The display, backlight, alert tones, and audio settings are defined according to the preprogrammed radio settings of each radio profile.

Examples: The “Surveillance” profile disables the backlight and all button tones on the radio.

The “Loud Audio” profile maximizes the tones for better clarity in loud environments.

Note: The radio automatically exits the feature, if the feature inactivity timer is enabled, when the radio is left idle and the timer expires. You will hear the menu inactive exit tone upon feature exit.

Procedure:

DEMO

1. **[Menu]** ◀ or ▶ to **Prfl.**
2. Press the **Menu Select** button directly below **Prfl** to access the Profiles feature screen.
3. ▲ or ▼ to scroll through the menu selections.
4. Press the **Menu Select** button directly below **Sel** to select the required radio profile.
OR
Press the **Menu Select** button directly below **Exit** to exit the screen without making any changes.

The radio returns to the home screen.

The profile name on the home screen indicates the current selected radio profile.

❑ Turning Keypad Tones On or Off

You can enable and disable keypad tones, if needed.

Procedure:

[Menu]

1. ◀ or ▶ to **Mute**.

2. Press the **Menu Select** button directly below **Mute**.
*The display momentarily shows **Tones off**, indicating that the keypad tones are disabled.*

OR

*The display momentarily shows **Tones on**, and you hear a short tone indicating that the keypad tones are enabled.*



Time-Out Timer

This feature turns off your radio's transmitter. You cannot transmit longer than the preset timer setting.

If you attempt to do so, the radio automatically stops your transmission, and you hear a talk-prohibit tone.

The timer is defaulted at 60 seconds.

Note: You will hear a brief, low-pitched, warning tone four seconds before the transmission times out.

❑ IMPRES Battery Annunciator

This feature displays the current capacity and charges cycles of your battery when a IMPRES Battery is powering your radio.


This feature must be enabled in your radio to see the information.

The information shown are:

- **Charge Percentage** – Percentage of current battery capacity.
- **Remaining Capacity** – Remaining power of the battery in mAh.
- **Estimated Charges** – Number of charges cycles the battery has gone through.

To access battery info screen:

Procedure:

1. ◀ or ▶ to **Batt**.
2. Press the **Menu Select** button directly below **Batt**.
The display shows the details of the battery.
3. ▲ or ▼ to scroll through the various information.
OR
Press the **Menu Select** button directly below **Exit** to return to the previous screen.
OR
Press  to return to the home screen.



CHARGING AND MAINTENANCE

APX 6000XE
Model 2.5



BRICS

Motorola Impress® Smart Charger



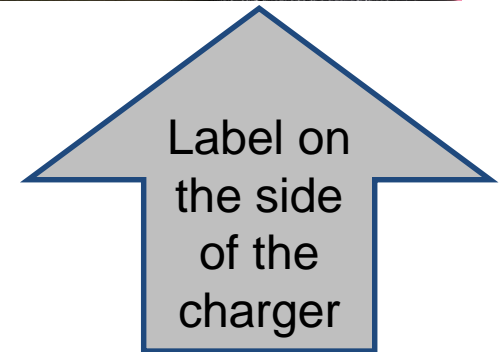
Recharge after each shift.

This “smart” charger will:

- Monitor usage patterns
- Store that information in the battery
- Recondition the battery when needed
- Not overheat regardless of how long it’s left in

Do not put your Impress battery in a conventional charger intended for another radio.

Charger Lights



Charge Indicator

Description

Steady Red

Battery is in rapid charge mode.

Blinking Green

Battery has completed rapid charge (>90% available capacity).
Battery is in Top-Off charge (Trickle Charge) and requires approximately 1 hour.

Steady Green

Battery has completed charging and is fully charged.

Blinking Orange

Battery is recognized 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 begin charging).

Blinking Red

Battery is un-chargeable or not making proper contact. Reseat the battery in the charger.

Steady Orange

Battery is in recondition mode. The length of time the charger remains in this mode is dependent upon the state of charge remaining in the battery when inserted. (Fully charged batteries require more time to recondition—8 hours or more—than fully discharged batteries.)

Flashes Red & Green

Battery may be approaching the end of its rated service life. This is not a fault indication merely a notification to the user that the battery may soon no longer be able to yield expected service and may need to be replaced. If you can still make it through your shift without a “low battery” chirp, it is fine.



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Butler County Sheriff's Office



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Radio System Help

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Numerous “how-to” guides and informational resources are available on topics like conventional frequencies, scanning, talkgroup names, radio aliases, how to talk to adjacent counties and much more.

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- [APX Series Training Guides](#)
 - [APX 6000XE Radio Help Guide](#)
- [Areas Affected by Tower Sites](#)
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Radio Problems

If your radio is not working or broken, bring it to us!



<http://brics.butlersheriff.org/>

513-785-1299