



MCS 2000

Montgomery County Emergency Services 800 MHz Rebanding Training

MCS 2000 Mobile Radio



Before You Begin...



MCS 2000

View the main training video first, it covers:

- General Radio Review
- Overview of Montgomery County's Radio System
- Rebanding & Interoperability
- Channel Matrix Discussion
- Talk Group Usage, Event Channels, Local Channels



MCS 2000: Overview



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Radio Functions:

- Front Controls
- Navigating Zones
- Emergency Operation
- Scan
- Programming a Scan List
- Nuisance Delete
- How to Report a Problem



MCS 2000: Front Controls



MCS 2000

On / OFF and
Volume Control

Scan On/Off, Program Scan

Channel
Up

Zone
Select



Emergency Button

Home

Nuisance Delete

Select

MCS 2000: Navigating Zones and Talkgroups



MCS 2000



Press the **DOWN** Arrow to navigate through available Zones.

Press the **UP** Arrow to navigate through Talk Groups/Channels.

MCS 2000: Front/Rear Head



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For Emergency responders utilizing a Dual head with the Front/Rear heads

- Channels can be changed by operators utilizing the front or rear radio unit
- Verify channel/talkgroup on display prior to transmitting



MCS 2000: **EMERGENCY** Operation



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Declaring an **Emergency**

- **Instantaneous** Transmit
- **"HOT MIC"**: When activated, your microphone will automatically open for 10 Seconds
- **Emergency Button** must be depressed to activate an emergency

MCS 2000: **EMERGENCY** Operation



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Clearing the **Emergency**

- Once you have transmitted your emergency you need to clear your radio from the **Emergency Mode**
- **First**, speak with dispatch to verify that Emergency can be cleared
- Then ***turn the radio off and back on again***

MCS 2000: Scanning



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800 MHz Radio can **Scan 15 Talkgroups**

- Only scan Talkgroups within the **WEST** or **EAST** at one time
- When set to a selected channel AND Scanning, any message from that selected channel will **override** the scanned Talkgroups
- When responding to another Zone / Region, switch radio to the Zone / Region where the incident exists.
- Responding units will then be in direct communications with Incident Commander or Officer in Charge



MCS 2000: Scanning



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Entering Scan Mode

- By pushing the Scan On/Off button, your radio will enter Scan Mode
- Look for the Scan Symbol in the radio display to ensure that Scan mode is On
- Turning the Scan Off allows you to **ONLY** monitor the Channel which is in the radio display. To resume scanning, press the Scan On/Off button



Note:

Scan On/Off

When your radio is powered OFF and then ON, it will remain in the mode that you left it (Scan On or Scan Off)

MCS 2000: Programming a Scan List



MCS 2000

Press and hold the Scan button.

A flashing symbol will appear on the display screen. The radio is in programming mode

Press the Channel Up button until the display reads the channel you want to add or delete

Press the SEL (Select) button to enter the change. If the Z Scan Symbol is displayed, the channel has been added to your scan list

Press the Home button when finished making changes and this will return the radio to the HOME channel in service

*Press SEL to
add or delete
channels when
programming a
scan list.*



Program Scan On/Off

Note:

If the radio is left in the program mode (flashing) too long, the radio will sound a continuous tone until the Home button is pressed

MCS 2000: Programming a Scan List



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Interruption during Programming a Scan List

- Programming can be interrupted by turning the radio OFF/On or if the PTT is pushed to transmit.
- Radio will be taken out of Program Scan to Operation Mode.
- If this occurs, VERIFY that changes to your Scan List have been saved by returning to Program Scan mode.



MCS 2000: Nuisance Delete



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Nuisance Delete

- When the radio scans to a channel you do not want to hear, you can temporarily remove the channel from your scan session by pressing the **Nuisance Delete** (MENU) button.
- For each channel that is a “nuisance,” simply press the Nuisance Delete button, until you have only the channels you want to hear.
- Channels that have been Nuisance Deleted are re-enabled by changing the Channel Selector knob or powering your radio OFF/ON.



Nuisance Delete

Note:

You cannot “delete” Priority Channels

Reporting a Problem



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Radio Repair Shop

Monday - Friday, 8:00 AM to 4:00 PM
(610) 631 - 6511

- Lost or Stolen Radios
- Radio Error (Document all Error Codes)



Reporting a Problem



MCS 2000



Richard K. Lohwasser
Assistant Deputy Director
Montgomery County Emergency Dispatch Services
50 Eagleville Road
Eagleville, Pennsylvania 19403-1425
610-631-6542 Office
610-631-6536 Fax

Radio Incidents

Fill out a Radio Incident Report Form

Fax to: (610) 631 - 6536

Form is available to download on-line at:

www.dps.montcopa.org

Type "Radio Incident Report" in the Search

Radio Incident Report

Department:		Officer: or Operator:		
Date:	Time:	Radio Unit ID:		
Weather Conditions:				
Location:		In Building:	Outside:	
		Talkgroup/Channel?		
Mobile: (Unit #)		Portable: (Unit #)		
Model/Type	MCS (old)	Astro (new)	MTS (old)	Digital (new)
	In Motion	Parked	On Hip	Head Level
Problem:				
Does radio make a no system "bork"? (a "bork" tone every 20 seconds)				
Does radio "bork" when you try to transmit?				
Receive problem: (explain)				
Transmit problem: (explain)				

Reporting a Problem



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For System Questions

Contact:

Rick Lohwasser, Assistant Director for Technical Services

(610) 631 - 6542

rlohwass@montcopa.org



Video Training



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Questions not answered within the video can be emailed directly to:

eoctech@montcopa.org



Video Training



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Please complete the short survey at completion of your review of relevant videos

Acknowledgement of Training

Please complete the following information in acknowledgement of viewing applicable training videos.

*** Required**

First Name *

Last Name *

Department or Company *

Please type full department or company name, not number.

Training Videos reviewed: *

Please check all that apply.

KTL Series

XTR Series

APX Series

Astro Spectra Series

MCS Series

MTS Series

Other: _____

I certify that I have viewed and understand the information provided in the training videos selected above. I understand that if I have any additional questions regarding the training materials, I should contact my shift supervisor. *

By checking this box, I acknowledge and accept the above statement.

Please answer the following questions as they apply to the video training course. *

Lowest - Highest (1 - 5)

	1	2	3	4	5
How well did the course content meet your needs?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How much better will you be able to operate your radio, as related to your job duties, now that you have taken the course?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>