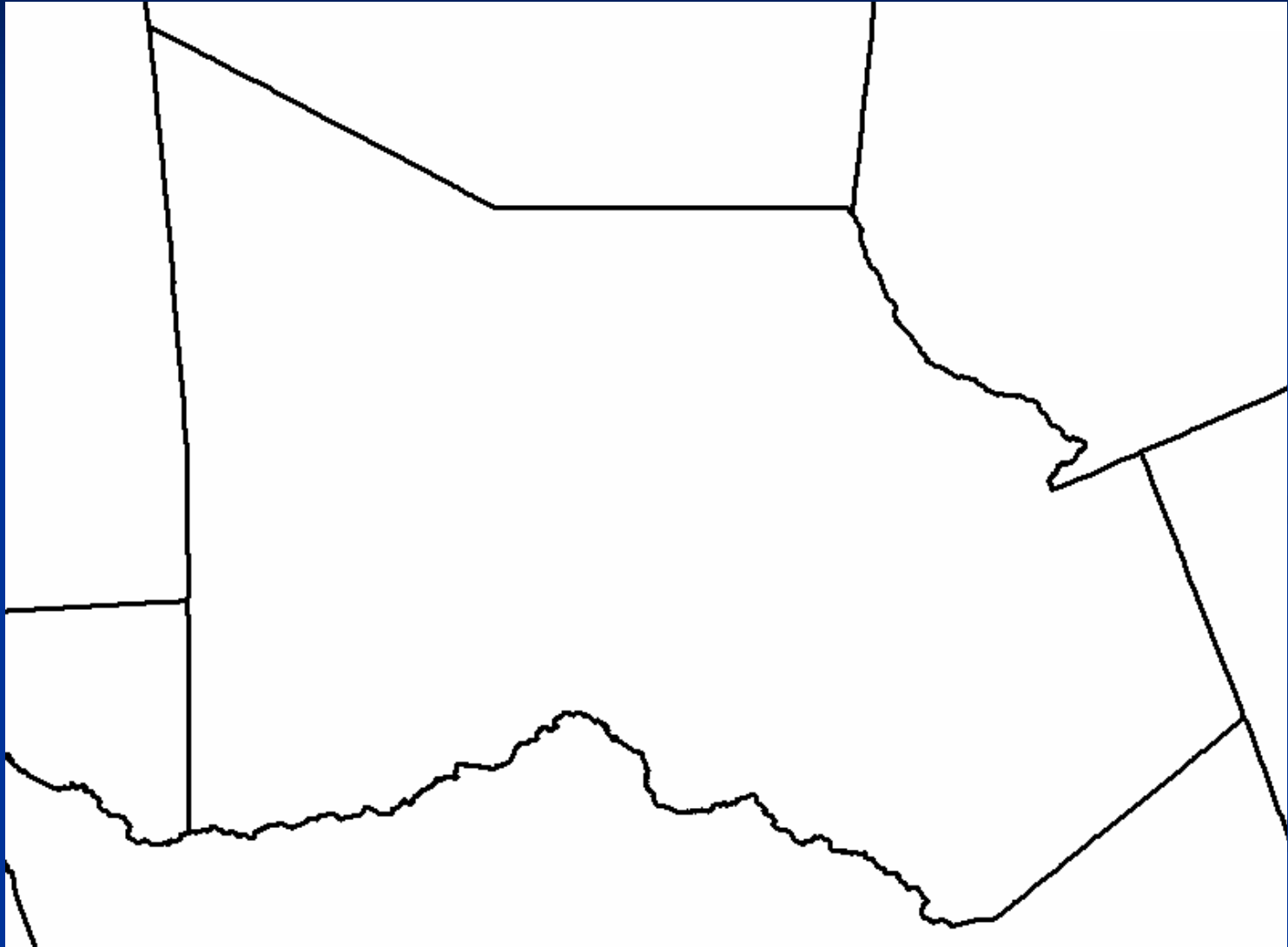# Montgomery County P-25 Simulcast Radio System

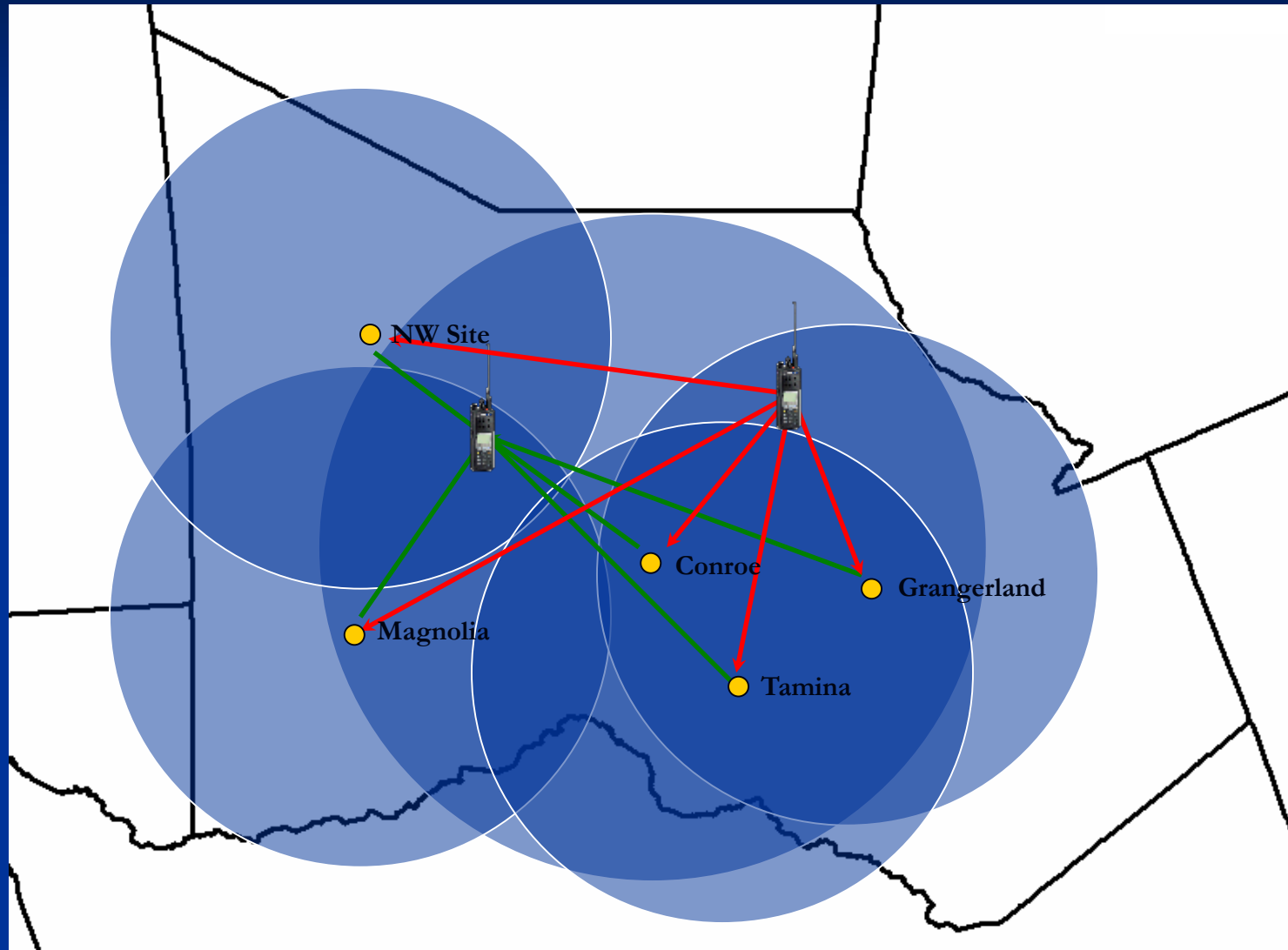## A Brief Overview of the System and Equipment

Montgomery County Simulcast

- Simulcast – Simultaneous Broadcast
- All towers use the same frequencies
- All tower locations work as one
  - All tower transmit at the same time
  - All towers receive at the same time
- Provides better portable in building coverage
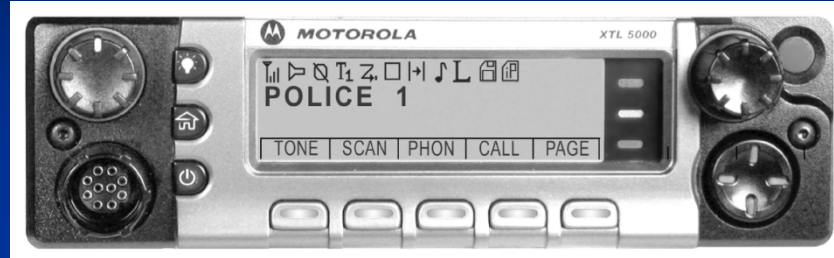
Montgomery County Simulcast

Montgomery County Simulcast
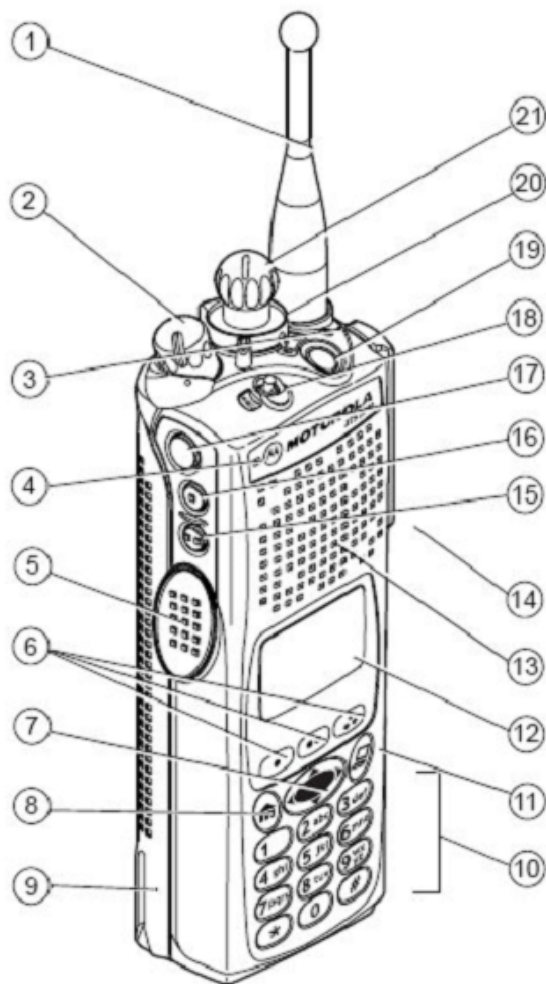
Montgomery County Simulcast

XTL 5000 Mobile

XTL 2500 Mobile

XTS 5000 Radios

XTS 2500 Radios
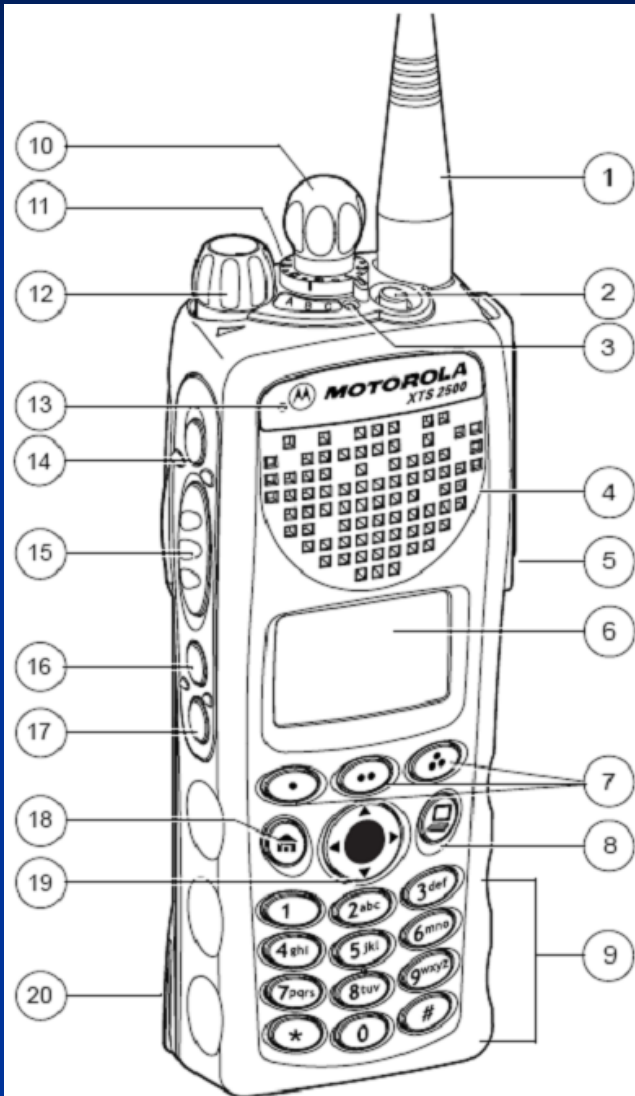
Montgomery County Simulcast

#	Component
1	Antenna
2	On / Off and Volume Control
3	Transmit Indicator / Low Battery LED
4	Microphone
5	Push-To-Talk (PTT)
6	Menu Select Buttons
7	Navigation Button
8	Home Button
9	Battery
10	Keypad
11	N/A
12	Display
13	Speaker
14	Accessory Connector
15	Key Lock
16	Volume Set Tone
17	Scan
18	Zone Select
19	Emergency Button
20	N/A
21	Channel Select

XTS 5000 Model III Radio

XTS 5000 Model II Radio

Montgomery County Simulcast

#	Label
1	Antenna
2	Emergency Button
3	Transmit Indicator / Low Battery LED
4	Speaker
5	Accessory Connector
6	Display
7	Menu Select Buttons
8	N/A
9	Keypad
10	Channel Select
11	Zone Select
12	On / Off and Volume Control
13	Microphone
14	Scan
15	Push-To-Talk (PTT)
16	Volume Set Tone
17	Key Lock
18	Home Button
19	Navigation Button
20	Battery

XTS 2500 Model III Radio
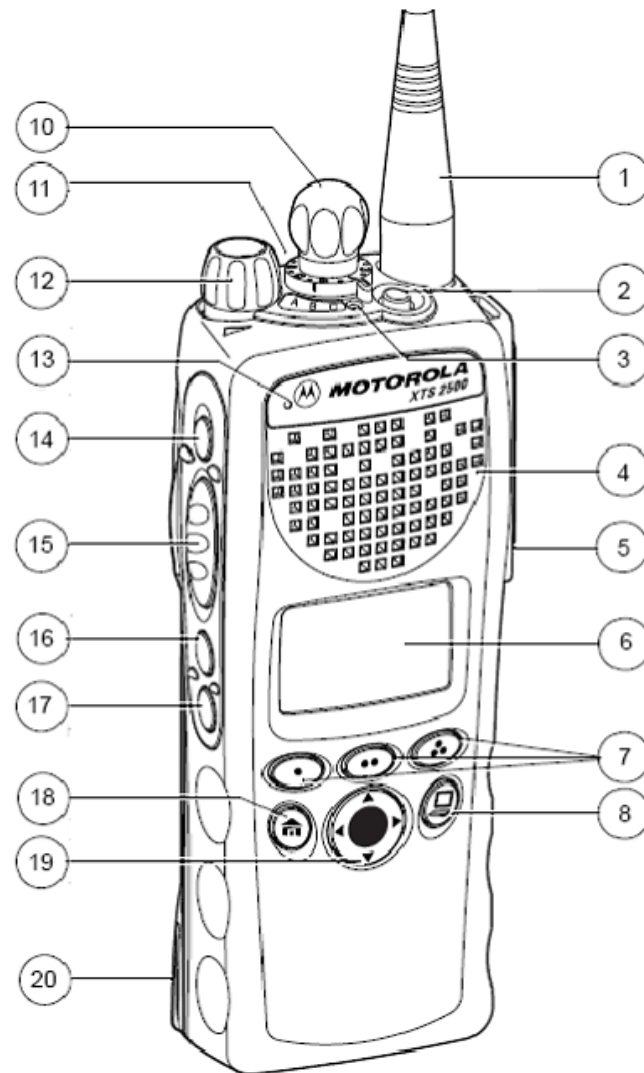
XTS 2500 Model II Radio

Montgomery County Simulcast

Zone V			
1	V	-	LAW MA 1
2	V	-	LAW MA 2
3	V	-	LAW MA 3
4	V	-	LAW MA 4
5	V	-	LAW MA 5
6	V	-	HC PRST 1
7	V	-	HC PRST 2
8	V	-	AIR 1
9	V	-	AIR 2
10	V	-	HPD 1
11	V	-	HPD FOX
12	V	-	DISP MA
13	V	-	NWS HGX
14	V	-	HAMM
15	V	-	ISD MA
16	V	-	PW MA

Zone W			
1	W	-	FM-1
2	W	-	HC HAZMAT
3	W	-	HPD FOX
4	W	-	7 CALL 50
5	W	-	7 TAC 51
6	W	-	7 TAC 52
7	W	-	7 TAC 53
8	W	-	7 TAC 54
9	W	-	8 CALL 90
10	W	-	8 TAC 91
11	W	-	8 TAC 92
12	W	-	8 TAC 93
13	W	-	8 TAC 94
14	W	-	TX LAW MA
15	W	-	TX FIRE MA
16	W	-	TX EMS MA

Zone X			
1	X	-	PUB - HLTH
2	X	-	CMOC CMD
3	X	-	CMOC 1
4	X	-	CMOC 2
5	X	-	CMOC 3
6	X	-	CMOC 4
7	X	-	CMOC 5
8	X	-	CMOC 6
9	X	-	AIR 1
10	X	-	AIR 2
11	X	-	EMS MA
12	X	-	
13	X	-	
14	X	-	
15	X	-	
16	X	-	

Zone Y			
1	Y	-	NW MA 1
2	Y	-	NW MA 2
3	Y	-	NE MA 1
4	Y	-	NE MA 2
5	Y	-	SW MA1
6	Y	-	SW MA 2
7	Y	-	SE MA 1
8	Y	-	SE MA 2
9	Y	-	CE MA 1
10	Y	-	CE MA 2
11	Y	-	AIR 1
12	Y	-	AIR 2
13	Y	-	FIRE MA
14	Y	-	EMS MA
15	Y	-	DISP MA
16	Y	-	LAW MA

State and Regional Interoperability Channels

Montgomery County Simulcast

Secure Operation
On – Secure Operation
Off – Clear Operation

Radio is Data Capable
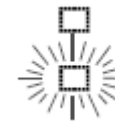
View/Program Mode	
	Steady – View Mode
	Flashing – Program mode

Radio Time

Signal Strength Indicator

Current Selected/Active TG

ID of current transmitting unit

10:46AM

A-MCSO 1

PROG
ZONE   NUIS

Battery Life Indicator

Scan Indicator	
Z.	Normal scanning
Z. (Dot Flashing)	Priority One Scan
Z. (Dot Steady)	Priority two Scan

Soft Key Menu Options

Soft Keys

Home Key – Changes selected channel to home channel (A-1)
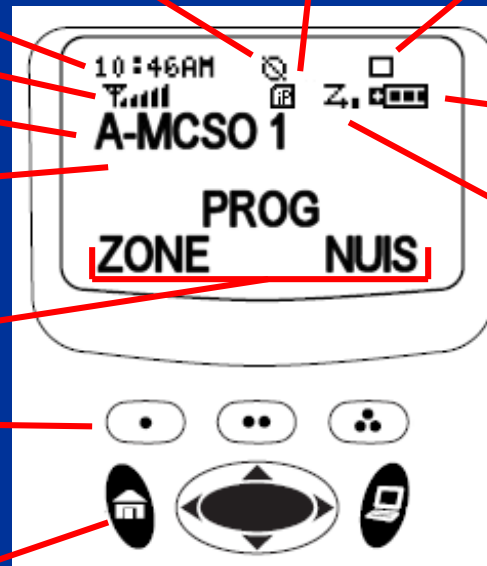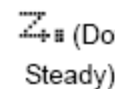
Montgomery County Simulcast

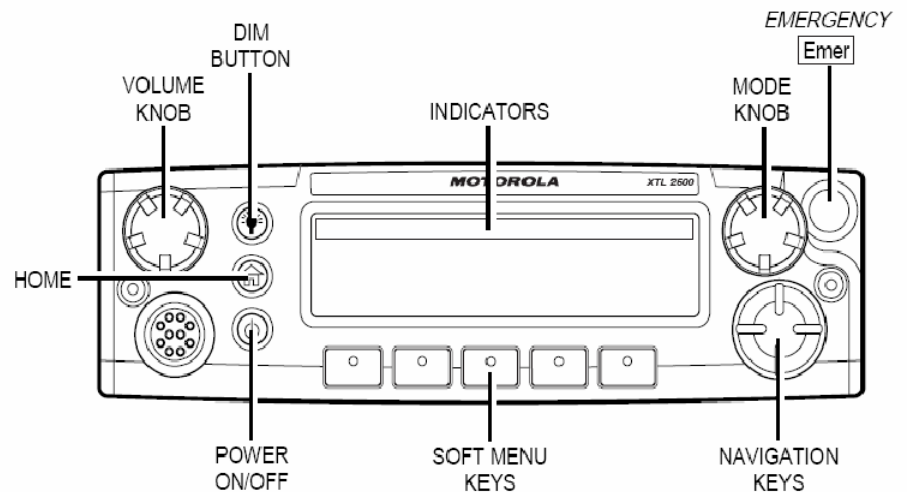| Menu Item	Description
ZONE	Allows you the ability to change zones past the first three (3) zones
PROG	Allows you the ability to change the scan list within the radio
NUIS	Temporarily remove a busy talkgroup from your scan list
CLCK	Change the time and Date on the Radio
VIEW	Allows the ability to view your scan list and how it is programmed
BATT	Provides vital signs and information about your battery
CALL	Used to allow the end user to view his/her Radio ID (Press Call and then left button once)
MUTE	Used to mute radio button tones (PTT & Emergency still come through)

Montgomery County Simulcast
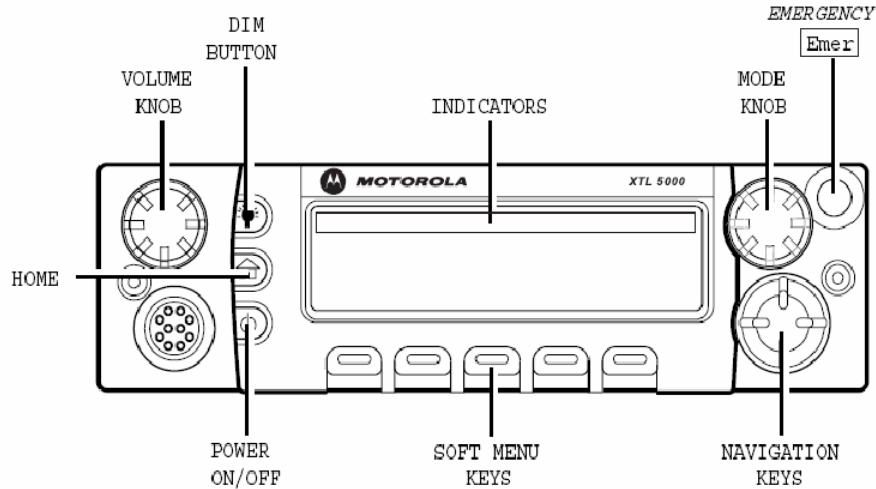
Montgomery County Simulcast

Menu Item	Description
ZNUP	Allows you the ability to change zones
ZNDN	Allows you the ability to change zones
SCAN	Allows you the ability to turn scan on or off
PROG	Allows you the ability to change the scan list within the radio
NUIS	Temporarily remove a busy talkgroup from your scan list
VIEW	Allows the ability to view your scan list and how it is programmed
CALL	Used to allow the end user to view his/her Radio ID (Press Call and then left button once)
COLR	Used to change the background color of the display