



# ARKANSAS Department of Health



## ASTRO<sup>®</sup> XTL<sup>™</sup> 2500 Digital Mobile Radio Model M5

TAG Content Development

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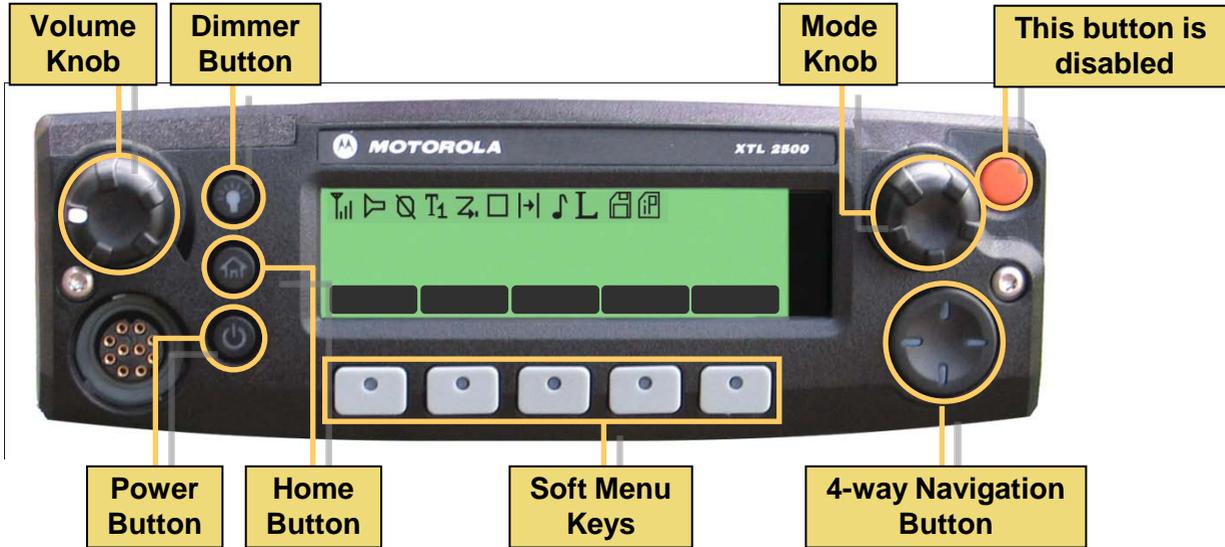
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**Your Radio**

**Fleet Map**

	Z1	Z2
C1		
C2		

**Status Alert Tones**

**Important Safety Information**

Clicking on this icon when it is present, will start an interactive animation pertaining to the procedure currently being viewed.







## M5 Control Head Display:

The M5 control head has a fully bitmapped display.

	<b>Z1</b>	<b>Z2</b>	<b>Z3</b>	<b>Z4</b>	<b>Z5</b>	<b>Z6</b>
<b>C1</b>						
<b>C2</b>						
<b>C3</b>						
<b>C4</b>						
<b>C5</b>						
<b>C6</b>						
<b>C7</b>						
<b>C8</b>						
<b>C9</b>						
<b>C10</b>						
<b>C11</b>						
<b>C12</b>						
<b>C13</b>						
<b>C14</b>						
<b>C15</b>						
<b>C16</b>						





## RED

### XMIT LED:

- **Solid**  
PTT is pressed, radio is transmitting
- **Flashing**  
Radio is trying to access the system

## YELLOW

### BUSY LED:

- **Flashing**  
Conventional channel busy (Private Line)

## GREEN

- **Solid**  
Self-test being performed
- **Flashing**  
Incoming Private Call



Tone Name		Tone Information
Acknowledge		A call or emergency sent to the central controller has been acknowledged
Button Press		A valid key was pressed on the keypad
Call Alert		Call Alert page received by your radio
Emergency		Emergency alarm was sent from your radio and acknowledged
Failsoft		Radio has lost communication with the central controller (trunking only)
No Acknowledge		A call or emergency sent to the central controller was not acknowledged
Out of Range		Radio is out of range of the system (trunking only)
Power-up		Radio has successfully powered on
Private Call		Private Call received by or sent from your radio, or Selective Call received
Phone Call		Phone call received by or sent from your radio
Prohibit		Talkgroup or channel is not accessible
Selective Call		Selective Call sent from your radio
System Busy		Channel, system or target radio is busy
Talk Permit		Channel is ready to use
Time-out Timer		Time-out timer limit has been reached







Power Button

### Turn Radio On:

1. Press the Power button on the control unit.  
When the ASTRO XTL 2500 Digital Mobile Radio is turned on the display shows **XTL 2500**.
2. The radio then performs a self check.

### Turn Radio Off:

Press the power button on the control unit.

### Notes:

If **FAIL ###/###** appears in the display, the radio will not function until the condition has been corrected.

If any problem occurs, the display shows an error code **ERROR ###/###**.



## To set the volume:

Rotate the Volume knob clockwise to increase the volume and counterclockwise to decrease the volume.

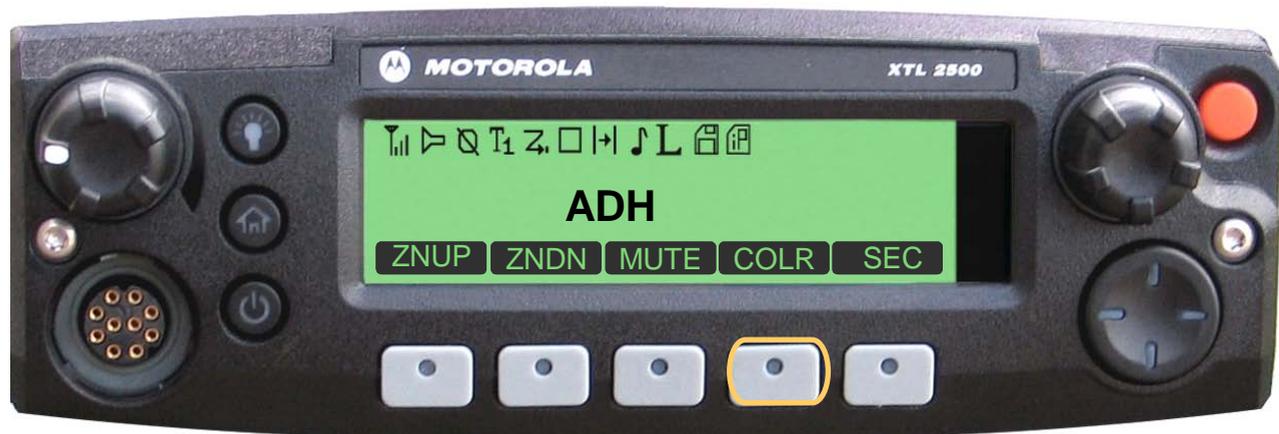


## To adjust display brightness:

Press the Dimmer button to change the display brightness to one of four levels.

- Off to high
- High to medium
- Medium to low
- Low to off

If OFF is selected, both the display light and the backlight will be turned off (used for surveillance operations), but the display will remain active.



## To display color:

1. Press  below COLR.
3. Press either  or  to scroll through the list of available choices.
4. Press  below SEL to select the color or CNCL to exit without making changes.



## To select the home mode:

Press .

This selects the home mode contained within the home zone from any other zone and mode in the radio.



A zone is a grouping of modes/channels.

## To Select a zone:

1. Press  below ZNUP OR ZNDN.  
*The display shows the current zone and mode.*
3. Press either  or  until the desired zone is displayed.
4. Press  or the PTT button to save the displayed zone as the new home (default) zone.

*The zone name stops flashing once it is saved.*

5. Press the PTT button to begin transmitting on the displayed zone and mode.

### Note:



If you select a zone that is out of range, you will hear a low-pitched tone. Select a different zone.



A mode is a group of characteristics such as transmit/receive frequencies, Private-Line codes, radio parameters, and an alphanumeric name.

## To select a mode:

1. Turn the Mode Knob until the display shows the desired mode name.  
*The display shows the current zone and mode.*
2. Press either  or  until the desired zone is displayed.
3. Press  or the PTT button to save the displayed zone as the new home (default) zone.  
*The zone name stops flashing once it is saved.*



## To Transmit on a Conventional Mode:

1. Lift the microphone off-hook, and listen for activity on that mode.
2. If you hear no activity, press and hold the microphone **PTT** button.
3. Release the **PTT** button to receive.



## To Transmit on a Trunked Mode:

1. Lift the microphone off-hook. Press and hold the microphone **PTT** button.
2. If you hear three quick tones (callback tones) and the red **XMIT** (transmit) indicator lights steadily, proceed with your message.
  - If you hear a busy tone and the yellow Busy indicator flashes, all trunked channels are in use.
  - Release the **PTT** button and wait for the three quick tones. Within three seconds of hearing these tones, press and hold the PTT button to transmit your message.



3. Release the **PTT** button to receive.
  - If you hear a continuous low-pitched tone, you are out of the system's range. The red **XMIT** indicator may flash several times as the radio tries to access the system.
  - Release the **PTT** button and try again when the vehicle is within range of the system.

# ID Number (View Your) Using Call (Menu)



To view you ID number:

1. Press either  or  to scroll to the CALL softkey.
2. Press  below CALL.
3. Press  to locate the **MY ID** display.
4. To return to normal operation press .



In a SmartZone system, to check which site the radio has currently selected:

1. Press either  or  to scroll to the RSSI softkey.
2. Press  below RSSI momentarily.

*The current site name and RSSI (receive signal strength indicator) are displayed momentarily*

One of the following conditions can also occur:

- If the radio is not locked onto a site, but is scanning for a new site, **SCANNING** is displayed.
- If the radio has not yet received site ID information for the current site, the radio displays **SITE XX** (XX being a number).

**Note:**

You can also initiate scanning to another site by holding down  below SITE until **SCANNING** is displayed.





Your radio can receive encrypted calls without pressing the Secure button, but to transmit in secure, the Secure button must be pressed.

### To select secure transmissions:

1. Press either  or  to scroll to the SEC softkey.
2. Press and hold  below SEC.



### Notes:

- If the selected channel is programmed for clear-only operation, you will be unable to transmit in secure. If you press the PTT, the display will show **CLR TX ONLY**, and you will hear a low-pitched tone. The radio will not transmit until you press the Secure/Clear button again.
- If your display shows **KEY FAIL** when you press the Secure/Clear button to select secure transmissions, the encryption key has failed.
- If your display shows **NO SEC** when you press the PTT to transmit, there are no secure voice channels available. You must wait until one is available, or transmit in clear.





### To select clear transmissions:

1. Press either  or  to scroll to the SEC softkey.
2. Press and hold  below SEC.

**Notes:**

- If the selected channel is programmed for secure-only operation, you will be unable to transmit in clear. If you press the **PTT** button, the display will show **SEC TX**, and you will hear a low-pitched tone.

The radio will not transmit until you press the Secure/Clear button again.

- When your radio receives a secure transmission, the secure icon flashes in the display.



# Conventional Radio Features

XTL™ 2500 Digital Mobile Radio  
Model M5





Home Button

This feature allows you to monitor channel traffic on conventional channels by defeating the coded squelch.

## To monitor in conventional mode:

1. Take the microphone off hook (HUB or hang-up box).

*This is the same as monitor on. You hear all channel traffic.*

OR

Press  to make sure you are in the Home mode where the default zone and mode are being displayed.

2. Press either  or  to scroll to the MON softkey.
3. Press  below MON momentarily.

*This toggles between **MONITOR ON** and **MONITOR OFF**. **MONITOR ON** shown on the display indicates that the radio is monitoring.*

Thank You for Your Participation



**ASTRO®**  
**XTL™ 2500 Digital Mobile Radio**  
**Model M5**