

Motorola XTS 5000 Portable Operations Manual

The Motorola XTS 5000 Series Portable Radio is one of three vendor portable radios currently approved for use on the Alaska Land Mobile Radio (ALMR) Communications System. Others can be found at www.alaskalandmobileradio.org/radios.htm.

XTS 5000 Functional Controls

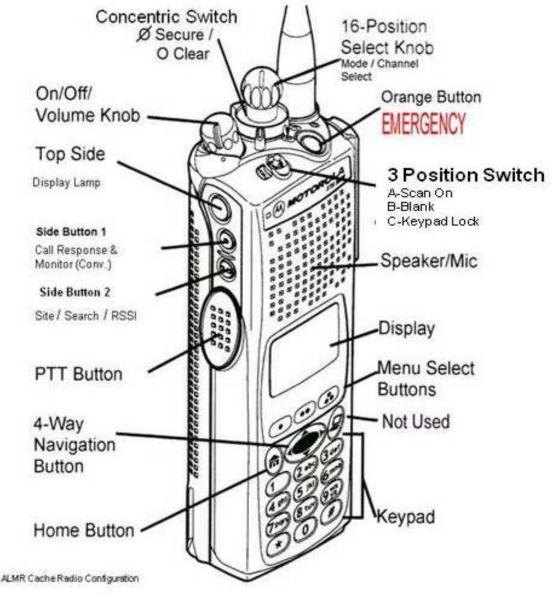


Figure 1

	Table 3: Status Symbols		
Symbol	Indication		
	Call Received Flashes when an Individual Call is received.		
	View/Program Mode The radio is in the view or program mode. On steady = view mode Flashing = program mode		
Tadd	Received Signal Strength Indication (RSSI) The received signal strength for the current site, for trunking only. The more stripes in the symbol, the stronger the signal.		
	Conventional = flashes when battery is low		
Guu	 Smart = the number of bars (0-3) shown indicates the charge remaining in your battery; flashes when battery is low 		
Symbol	Indication		
[+]	Talkaround On = you are talking directly to another radio, not through a repeater during conventional operation only Off = you are talking through a repeater		
P-1	Monitor (Carrier Squelch)		

Symbol	Indication	
[+]	Talkaround On = you are talking directly to another radio, not through a repeater, during conventional operation only Off = you are talking through a repeater	
[;a	Monitor (Carrier Squelch) The selected channel is being monitored during conventional operation only.	
	Secure Operation On = secure operation Off = clear operation Flashing = receiving an encrypted voice call	
	Scan The radio is scanning a scan list.	
(Dot Flashing)	Priority-One Channel Scan One channel is assigned as the priority channel during scan operation.	
≍ ∎ (Dot Steady)	Priority-Two Channel Scan Two channels are assigned as the priority channels during scan operation.	

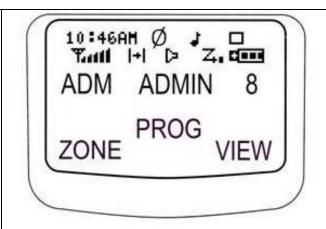
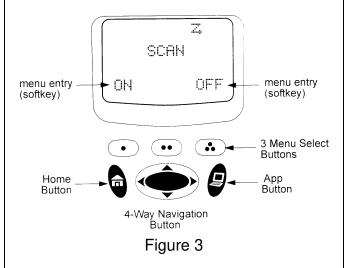


Figure 2

Display indication – when the XTS 5000 is turned on the radio will revert to the last channel selected before it was powered down.

NOTE: All available status symbols are shown for illustration purposes only. Not all status symbols will be displayed at one time during normal operation.

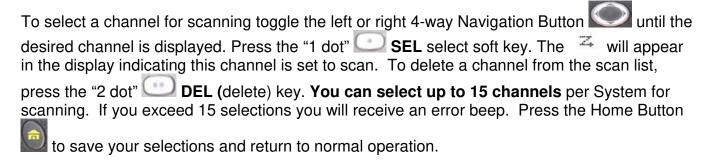


"dot soft keys" (i.e. the 1, 2 or 3 dot Menu Select Buttons) select the function shown over them on the display. As you change programming modes, the function of these soft keys changes to the function displayed above them.

Normal Operation: (see figures 1-3)

When powered up with the ON/OFF Volume Knob, the XTS 5000 should be on your "Home Zone/Channel" (the last zone/channel selected when the radio was powered down). If the required Home Zone is not displayed:

	Press the Single Dot key on the keypad under ZONE on the display. The first letter on the display will flash on and off.
2.	Press the left or right arrow on the 4-way Navigation Button to select the ADM Zone.
3.	Press the Home Button to select the ADM Zone and rotate the 16-Position Select Knob until ADMN 8 is displayed.
4.	Press the Push-To-Talk (PTT) button and wait for the Talk Permit Tones (3 quick beeps) before speaking
Comm	g an incident, dispatch or the Communications Unit Leader (COML) will assign a nand (CMD) or Tactical (TAC) channel for the incident. A typical assignment would be mand 2 (CMD 2) or North Tactical 2 (NTAC 2)."
Position away f	lect a Command or Tactical channel in the Incident Command (IC) Zone rotate the 16 on Select Knob until the desired channel is displayed. If you are assigned a channel from your Home Channel, follow procedures 1 through 3 above to select the proper led zone and channel.
to disp	nand Channel: When dispatched to an incident, acknowledge your arrival at the scene batch or the assigned COML on the IC HAIL Channel for that region. Dispatch or the will assign you to the appropriate Command Channel.
	Channel: Communications between agency/unit first responders should be on the led Tactical channels or day-to-day channels.
	ning Use and Review: Place the Three Position toggle switch in the A position. To
under in the	vithe zones and channels (modes) programmed to scan, press the "3 dot" soft key VIEW on the display and then press the "1 dot" soft key under SCAN. The square upper right of the display now indicates you are in the SCAN review or programming
	Press the Left or Right keys on the 4-way Navigation Button to review the zones
and ch	nannels setup to scan. Press the Home Button lo return to normal operation.
are as	: You can scan multiple zones and channels outside of the normal zone or the zone you signed. During an active incident, this may cause you to miss a call. Use of the scan on is NOT recommended on the ALMR System.
	ning Programming: To program a zone, or channels (modes) within a zone, for
	ing, press the "2 dot" soft key under PROG and then use the left or right 4-way
	ation Button until SCAN appears above the "1 dot" soft key. Depress the "1
	soft key. The flashing square in the upper right of the display now indicates
vou ar	e in the scan review or programming mode. (The "3 dot" RCL (recall) button will



NOTE: If you turn on the Scan function and you receive a low tone, and the display indicates "**EMPTY LIST**," you have no channels programmed for scan. Turn off the scan switch and program a scan list.

Emergency Button: When depressed, the Top Orange Button will send an emergency alert to the Dispatch Center that your channel/talkgroup is assigned to along with your subscriber unit number. You will be called immediately by Dispatch and asked the nature of your emergency. If you have hit this button accidentally you must cancel it by holding it for two seconds, or until the beeping goes away. You will still need to transmit the nature of the emergency, or the error, to the Dispatcher so he/she can clear the alarm. The Emergency button is to be used for EMERGENCIES only.

IMPORTANT: ALMR radios are <u>NOT equipped with GPS.</u> This means if you hit the **Emergency** button (aside from lots of bells) no one knows your location or what your emergency is. If you can move and talk, **notify dispatch with a voice call and the nature of your emergency.**

Signal Strength and Coverage: There is a signal strength indicator on the display. If you are out of range the indicator bars will drop to none and the radio will emit a long, repeating beep. Move your location or try your vehicle radio.

Tone Mute Button: On the menu above there is a **MUTE** selection. When pressed, this brings up the option to turn on/off the beep tone when any button is pressed.

Top Side Purple Button: This button turns the Display Lamp on/off.

Side Button #1: Used when someone is privately calling your radio and to monitor a conventional/simplex channel. To monitor the channel, press and hold the side button #1 as long as you want to monitor the channel.

Direct operation: The **CONV** (conventional) channels operate in **Conventional/Simplex** mode. That is, local unit to local unit without going through the repeaters. This mode can be used for local operations like traffic control or training, without tying up a repeater frequency. Channel 8 in the State and Regional IC Zones is a conventional/simplex channel.

Site Switch:

NOTE: Your radio is programmed to automatically allow you to roam throughout the ALMR System, much like a cell phone system, without any action on your part. However, there may be times, such as when a site goes into SITE TRUNKING, when you may wish to have your radio affiliate with a different repeater site.

Press the **Side Button 2** briefly to display the current site with which your radio is affiliated. The radio will display the repeater site you are affiliated with for approximately two seconds. The radio will then display the Received Signal Strength Indicator (RSSI) and a number between 0 and 120 (any number above 60 is considered good). After approximately two seconds, the radio will return to normal operation.'

To force the radio to affiliate with a different repeater site, press and hold the SITE button (side button #2) until SCANNING appears in the display. The radio will attempt to affiliate with a different repeater site. The radio may affiliate with a different site, or it may re-affiliate with the same site. Press SITE button (side button #2) to confirm which site you are now affiliated with. If you need to affiliate with a different site, repeat these actions until you affiliate with an adequate site.

Appendix:

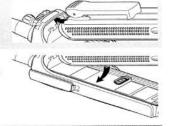
Tone	Name	Explanation
[1] Low- Pitched Tone	Invalid Key Alert	Feature button pressed is not valid in selected mode, or EMERGENCY alarm was not acknowledged.
[1] High- Pitched Beep	System Acknowledge or Valid Key	System has received request for Page or EMERGENCY or You pressed a valid key (keypad tones)
[4] High- Pitched Beeps	Dispatcher or Mobile Unit Acknowledge ment	Dispatcher is acknowledging your EMERGENCY or Mobile unit has received your page.
[5] High- Pitched Beeps	Low Battery (Chirp)	(The above two tones in sequence.)
[4] High- Pitched Beeps (every 6 seconds)	Page Alert	Radio has received a page from dispatcher or base station.
Phone-Type Busy Tone (when pressing PTT)	System Busy	All system frequencies are in use. Release PTT and wait for Call Back.
[3] Short High- Pitched Beeps	Automatic Call Back or Talk Permit	Previously busy frequency is now available or After pressing PTT, system is ready for you to speak
Continuous Low-Pitched Tone (Upon Pressing PTT) (During Transmit) (Operation error)	Talk Prohibit/Out Of Range or Time-Out Timer or Illegal Mode	System is out of service or you are out of range of repeaters or Present transmission is too long and will soon be disabled or You attempt to transmit on receive-only channel.
[1] High- Pitched Beep every 10 seconds	Failsoft	System central controller failure. Radio reverts to a single, conventional frequency. Other agencies may also share this frequency.

Removing the Microphone connector plate to attach the external Speaker / Microphone
NOTE: Always turn the radio off first before performing any maintenance.

Insert a flat blade screwdriver into the area between the bottom of the cover and the slot below the connector. Hold the top of the cover with your thumb while you pry the bottom of the cover away from the radio with the screwdriver. Ensure you put the cover somewhere where you can find it!

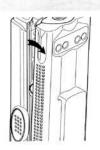
Attach the Battery

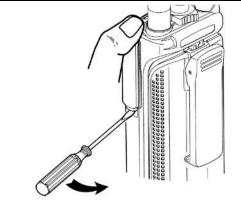
- With the radio turned off, insert the top edge of the battery into the radio's frame as shown.
- 2 Rotate the battery toward the radio and press down until the battery clicks into place.



Remove the Battery

- With the radio turned off, press the release button on the bottom of the battery until the battery releases from the radio.
- 2 Remove the battery from the radio.





Remember - your radio is your lifeline. Know it well!