

Alaska Land Mobile Radio Communications System

Subscriber Unit

Overview

- Radio Overview
- Display Symbols
- Sounds and Lights
- Installation and Assembly
- Buttons, Knobs and Switches
- Menu Items

XTS 5000



Getting Started



Your Radio



Installation and Removal



Status Symbols

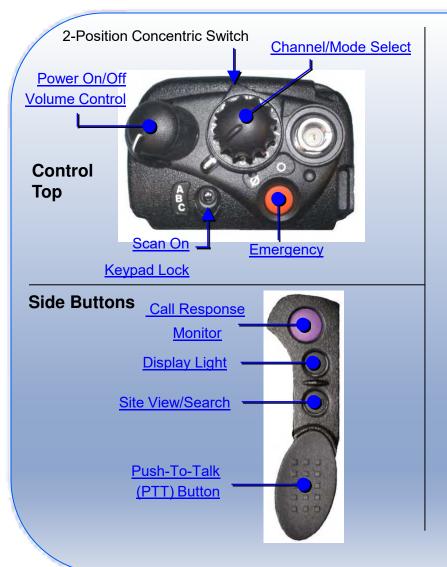


Status Alert Tones

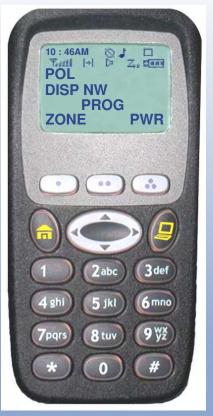


Analog and Digital Audio Quality

Your Radio



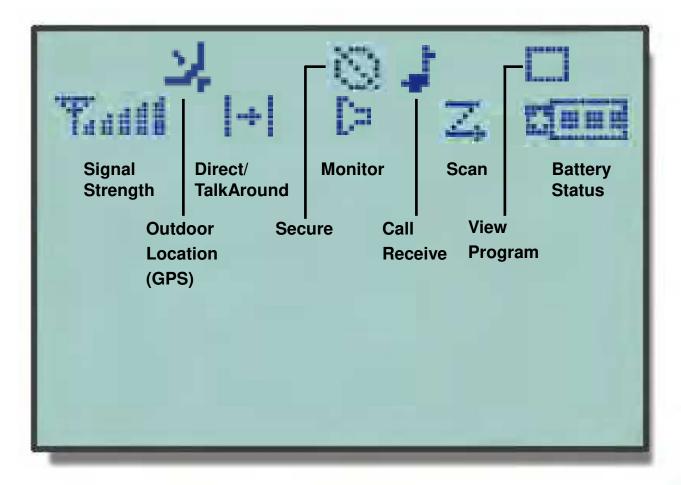
Menu/Keypad Options



Zone Select
Scan List Edit (Menu)
Power Select
Clock (Time and Date)
Reprogram Request
Smart Battery
Call Alert Page (Send)

GO BACK

Status Symbols – 1 of 2



Continued....

Status Symbols – 2 of 2

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		
Tall	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.		
	Battery Conventional = flashes when battery is low Smart = the number of bars (0-3) shown indicates the charge remaining in your battery; flashes when battery is low		
**************************************	Location Signal Off = Location feature disabled, or insufficient battery power in location accessory device; Flashing = Location feature enabled, but no location signal available; On = Location feature enabled, and location signal available		

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.		
0	Secure Operation On = secure operation Off = clear operation Flashing = receiving an encrypted voice call		
24	Scan The radio is scanning a scan list.		
المالية (Dot Flashing)	Priority-One Channel Scan One channel is assigned as the priority channel during scan operation.		
基⊪ (Dot Steady)	Priority-Two Channel Scan Two channels are assigned as the priority channels during scan operation.		

Status Alert Tones

Tone Name		Tone Information
Acknowledge		Receipt of a call sent to the central controller
Button Press		A valid key was pressed on the keypad
Call Alert	4 ®	 Receipt of a Call Alert page sent to your radio Confirmation receipt of a page received sent from your radio
Emergency		Emergency alarm was sent from your radio
Failsoft		Radio has lost communication with the central controller
Low Battery		Weak battery indication
No Acknowledge		A call to the central controller was not acknowledged
Out of Range		Radio is out of range of the system
Power-up		Radio has successfully powered on
Private Call I		Receipt of a Private Conversation call sent to your radio
Private Call Enhanced		Receipt of a Private Conversation call sent to your radio
Prohibit		Talkgroup or channel is not accessible
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

LED Status

RED

- Solid
 - PTT is pressed; radio is transmitting
- Flashing
 - Channel Busy
 - Low Battery (lights while transmitting)

GREEN

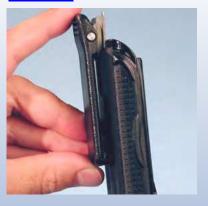
- Solid
 - Self-test being performed
- Flashing
 - Incoming Private Call





Installation and Removal Procedures

Belt Clip



Battery



Antenna



Universal Connector



RF Adapter



Public Safety
Speaker Microphone



Antenna



To install the antenna:

- 1. Turn the radio off.
- 2. Screw the antenna (clockwise) into the antenna receptacle on top of the radio.
- 3. Tighten the antenna firmly with your fingers.



To remove the antenna:

- 1. Turn the radio off.
- 2. Unscrew the antenna (counter-clockwise) and remove it from the antenna receptacle on top of the radio.

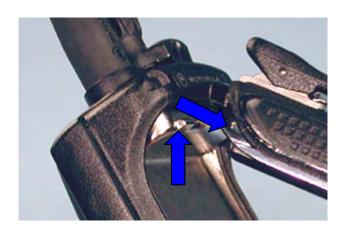
Charging the Battery



The battery must be charged before use. Memory effect is a phenomenon that causes a loss in battery capacity or voltage due to repetitive shallow discharging or long-term overcharging. This memory effect has been greatly reduced in your batteries through the use of new cell technology. It is still recommended, however, that you discharge your battery as much as possible before recharging it. Recharging after each shift is good standard practice. When charging a battery that is attached to your radio, turn the radio off to ensure a full charge.

Continued...

Battery





To install the battery:

- 1. Turn the radio off
- 2. Hold the radio with the back facing upward.
- 3. Align the three slots at the top of the battery with the three tabs on the back of the radio.
- 4. Push the battery down toward the radio until the battery clicks into place.

To remove the battery:

- 1. Turn the radio off.
- 2. Hold the radio with the back of the radio facing upward.
- 3. Push the battery release button on the bottom of the radio.
- 4. Lift the battery away from the radio and remove.

Universal Connector Cover





The universal connector cover protects the side connector near the antenna.

To remove the cover:

- 1. Turn the radio off.
- 2. Carefully insert a flat-bladed screwdriver between the bottom of the cover and the connector.
- 3. Holding the top of the cover with your thumb, push the screwdriver gently downward and lever the cover away from the radio.

To install the cover:

- 1. Turn the radio off.
- 2. Insert the hooked end of the cover into the slot above the connector.
- 3. Rub the ball of your thumb from the top to the bottom of the cover, applying pressure towards the radio. This will flex the cover and snap it into place.

Belt Clip





To install the belt clip:

- 1. Remove the battery before installing or removing the belt clip.
- 2. Hold the battery with the back of the battery facing you.
- 3. Hold the belt clip with the top facing upward, and align the clip with the slots on the battery back.
- 4. Slide the belt clip downward into the slots until it clicks into place.

To remove the belt clip:

- 1. Pull away the metal tab at the top of the battery clip from the battery.
- 2. Slide the clip upward until it comes away from the radio.

Public Safety Speaker/Microphone – 1 of 3



To install the PSSM:

- 1. Turn the radio off.
- 2. Follow the instructions for removing the universal connector cover.
- 3. Attach the accessory connector to the radio's universal connector as follows:
 - a. Make sure the RF adapter has been installed in your radio before continuing with installation.
 - b. Looking at the antenna side of the radio, insert the bottom hooked end of the accessory connector into the slot below the universal connector.
 - c. While holding the accessory connector seated in the bottom slot, pivot the top of the accessory connector toward the radio until its RF interface connector aligns with the circular contact target on the RF adapter, then engage the accessory connector's spring-loaded latch in the radio's top slot.

Continued....

Public Safety Speaker/Microphone – 2 of 3



- 4. Attach the correct (frequency-sensitive) antenna to the PSSM by screwing the antenna's threaded end into the threaded antenna jack on top of the PSSM's housing.
- 5. Rotate the antenna clockwise into the jack until it seats firmly.

The public safety speaker/microphone performs best when it is operated with the antenna above the user's shoulder.

To transmit using the public safety speaker/microphone, press the PSSM's PTT and speak into the microphone's grille area. The red light-emitting diode (LED) on top of the radio will light, indicating that the radio is in the transmit mode.

If a more permanent attachment is desired after the accessory connector is latched to the radio, secure the latch to the connector housing using the screw supplied.

Public Safety Speaker/Microphone – 3 of 3





To remove the PSSM:

- 1. Turn the radio off.
- 2. Rotate the antenna counter-clockwise to unscrew it from the jack.
- Remove the accessory connector by pivoting the top of the accessory connector away from the radio until it disengages from the RF adapter.
- 4. Follow the instructions for attaching the universal connector cover.

Radio On/Off/Volume

On/Off/Volume Knob





To turn the radio on:

Turn the On/Off/Volume Control knob clockwise.

If the power-up test is successful, you briefly see SELF TEST, then the home display. If enabled, a power-up tone is also heard.

If the power-up test is unsuccessful, you see ERROR XX/YY. (XX/YY is an alphanumeric code.)

Click here to view further explanation of specific codes.

To turn the radio off:

Turn the On/Off/Volume Control knob counter-clockwise until it clicks.

Zone Select (16-Position Select Knob)



To select a zone:

- 1. Turn the Zone Select knob to select the desired zone. *If the zone you selected is unprogrammed, repeat step 1.*
- 2. Press the Home button to confirm the displayed zone and channel.

Zone Select (3-Position Toggle Switch)



To select a zone:

- 1. Toggle the Zone Select switch to select the desired zone. If the zone you selected is unprogrammed, repeat step 1.
- 2. Press the Home button to confirm the displayed zone and channel.

Zone Select (Menu)





To select a zone:

- 1. Press the right side of the 4-way Navigation button until ZONE appears on the display.
- 2. Press the button directly below ZONE. *The zone name flashes on the display.*
- 3. Press the right side of the 4-way Navigation button to find the zone you want.

OR

Use the keypad to enter the zone number.

If the zone you selected is unprogrammed, repeat step 3.

4. Press the Home button to confirm the displayed zone and channel.

OR

Press the PTT button to transmit on the displayed zone/channel.

Channel/Mode Select (16-Position Select Knob)



To select a channel/mode:

Turn the Channel/Mode Select knob to select the desired channel/mode.

The new name will appear on the display.

If the channel/mode you selected is unprogrammed, repeat the above step.

Call Alert Page – Acknowledge (Call Alert/Private Call)







When a Call Alert page is received, you hear four repeating alert tones, the LED flashes green, the call received symbol () flashes and PAGE RECEIVD is displayed.

To acknowledge a Call Alert page:

Press any button or change channels to acknowledge the page and clear the alert from your radio.

Note: The radio that initiated the Call Alert page will receive a return acknowledgment when the Call Alert page is received.

Time-out Timer

Push-to-Talk (PTT)



The time-out timer turns off your radio's transmitter. The timer is set for 60 seconds at the factory, but it can be programmed from 0 to 7.75 minutes (465 seconds) by a qualified radio technician.

- 1. Hold down the PTT button longer than the programmed time.
- You will hear a low-pitched warning tone, the transmission will cut off, and the LED will go out until you release the PTT.
 - 2. Release the PTT button.

The LED will re-light and the timer will reset.

3. Press the PTT button to re-transmit. The time-out timer restarts.

The timer will restart and the LED lights red.

Transmit and Receive

Push-to-Talk (PTT)



To transmit:

- 1. Select the desired zone/channel.
- 2. Listen for ongoing conversations; if the channel becomes clear, proceed with your call.
- 3. Press and hold the PTT button to transmit and wait for the "Talk Permit" tone. The LED will light red. When speaking, keep the microphone 1-2" from your mouth.

Note: If you do not hear a Talk Permit tone, your system administrator has preprogrammed the tone to be off.

4. Release the PTT button to receive (listen).

<u>Click here for information on Smart PTT which prevents</u> you from talking over someone else's conversation.

<u>Click here for information on what happens if you go out of range of the system.</u>

3-POSITION TOGGLE SWITCH

Keypad Lock (3-Position Toggle Switch)

Keypad Lock

Switch

To lock the radio keypad:

Toggle the Keypad Lock switch to the predetermined locked position.

To unlock the radio keypad:

Toggle the Keypad Lock switch to the predetermined unlocked position.

Note: The keypad lock only locks the keypad, not any other button or switch.

Note: If an incoming call is received while the keypad is locked, you must unlock the keypad in order to access the call through the menu.

Scan On or Off (3-Position Toggle Switch)





The scan feature allows you to monitor traffic on different channels by scanning a preprogrammed list of channels. Your radio can have several different scan lists. These lists must be preprogrammed by a qualified radio technician.

To turn scan on:

Toggle the Scan switch to the predetermined position to enable scan.

The scan symbol (will be displayed, indicating scan is active.

To turn scan off:

Toggle the Scan switch to the predetermined position to disable scan.

The scan symbol (..... will no longer be displayed, indicating scan has : n deactivated.

2-POSITION CONCENTRIC SWITCH

Secure/Clear Transmit (2-Position Concentric Switch) – 1 of 2



The radio will receive encrypted calls without enabling the Secure switch, but to transmit in secure, the Secure switch must be enabled.

To select secure transmissions:

Turn the Secure/Clear switch to the predetermined secure position (∞).

Note: If the selected channel is programmed for clear-only operation, you will be unable to transmit in secure. If you press the PTT button, you will see CLR TX ONLY displayed, and you will hear an invalid mode tone.

The radio will not transmit until you set the Secure/Clear switch to the clear position ().

Secure/Clear Transmit (2-Position Concentric Switch) – 2 of 2



The radio will receive encrypted calls without enabling the Secure switch, but to transmit in secure, the Secure switch must be enabled.

To select clear transmissions:

Turn the Secure/Clear switch to the predetermined clear position (\bigcirc).

Note: If the selected channel is programmed for secureonly operation, you will be unable to transmit in clear. If you press the PTT button, you will see SEC TX ONLY displayed, and you will hear an invalid mode tone.

The radio will not transmit until you set the Secure/Clear switch to the secure position (∞).

TOP BUTTON

Emergency – Send (Top Button) – 1 of 5

There are three ways to send an emergency signal from your radio.





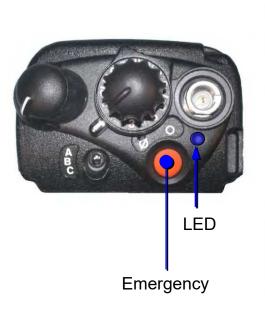
Send an emergency alarm.

Send a silent emergency alarm.

Send an emergency call.

<u>Click here for additional information about the Emergency feature.</u>

Emergency Alarm (Top Button) – 2 of 5





To send an emergency alarm:

1. With the radio turned on, press the Emergency button.

The current zone/channel is displayed alternately with EMERGENCY, the LED lights red, and you hear a group of short, medium-pitched tones.

If the selected channel does not support emergency, the display shows NO EMERGENCY. Select a channel that does show EMERGENCY.

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

2. When you receive the dispatcher's acknowledgment, you see ACK RECEIVED, four tones sound, the alarm ends, and the radio exits the emergency mode.

If no acknowledgment is received, you see NO ACKNOWLDG, the alarm ends, and the radio exits the emergency mode.

Emergency Alarm (Silent) (Top Button) – 3 of 5







To send a silent emergency alarm:

1. With the radio turned on, press the Emergency button. The display does not change, the LED does not light, and you hear no tones.

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

2. The silent state continues until you:

Press and hold the Emergency button for about a second to exit the emergency state.

OR

Press and release the PTT button.

Emergency Call (Top Button) – 4 of 5





This type of dispatch gives your radio priority access on a channel. The radio operates in the normal dispatch manner while in emergency call, except, if enabled, it will return to one of the following:

- Tactical/Non-Revert You talk on the channel you selected before you entered the emergency state.
- Non-Tactical/Revert You talk on a preprogrammed emergency channel. The emergency alarm is sent on this same channel.

To send an emergency call:

1. With the radio turned on, press the Emergency button. The current zone/channel is displayed alternately with EMERGENCY, the LED lights red, and you hear a group of short, medium-pitched tones.



If the selected channel does not support emergency, the display shows NO EMERGENCY. Select a channel that does show EMERGENCY.

Continued....

Emergency Call (Top Button) – 5 of 5





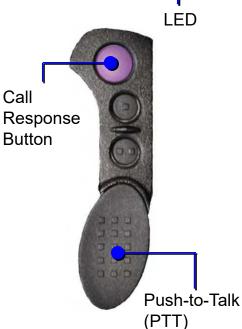
Note: To exit emergency at any time, press and hold the Emergency button for about a second.

- 2. Press and hold the PTT button and announce your emergency into the microphone.
- 3. Release the PTT button to end the transmission and wait for a response from the dispatcher.
- 4. Press and hold the Emergency button for about a second to exit emergency.

TOP SIDE BUTTON

Call Response (Top Side Button)







When a Call Alert page is received, you hear four repeating alert tones, the LED flashes green, the call received symbol () flashes and PAGE RECEIVD is displayed.

To respond to a call:

- 1. Press the Call Response button.
- 2. Press the PTT button to talk; release it to listen.
- 3. Press the Home button to exit the call.

Monitor (Conventional) (Top Side Button)





Your radio may be programmed to receive Private Line (PL) calls.

To enable the monitor feature:

- 1. Select a conventional channel from the fleet map list provided by your system administrator.
- 2. Momentarily press the Monitor button to listen for activity. The monitor/carrier squelch indicator (is displayed.
- 3. Press and hold the Monitor button (for a preset amount of time) to set continuous monitor operation.

Note: The duration of the button press has been preprogrammed. Please see your System Administrator.

4. Press the Monitor button again, or the PTT button, to return to the original squelch setting.

Note: If you try to transmit on a receive-only channel, you will hear an invalid tone until you release the PTT button.

SIDE BUTTON 1

Display Light (Side Button 1)



If poor light conditions make the display, keypad, or channel numbers (around the 16-Position Select knob) difficult to read:

Turn on the radio's backlights by pressing the Light button.

These lights will remain on for a preprogrammed time before they turn off automatically.

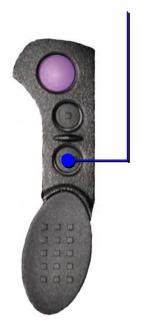
OR

You can turn them off immediately by pressing the Light button again.

SIDE BUTTON 2

Site View/Search (Side Button 2)

Site Search Button





You can view the number of the current site or force your radio to change to a new one.

To view the current site:

Press the Site Search button.

The display momentarily shows the name of the current site and its corresponding received signal strength indicator (RSSI).

OR

If the radio is scanning for a new site, you momentarily see SCANING SITE displayed.

To change the current site:

Press and hold down the Site Search button.

You momentarily see SCANING SITE displayed and hear a tone. When the radio finds a site, it returns to the home display.

MENU/KEYPAD

Clock (Time and Date) (Menu) – 1 of 2





Using this special feature, you can program the time and date as you might with other electronic devices. The clock display is enabled by a qualified radio technician.

To edit the time and date:

- 1. Press the right side of the 4-way Navigation button until CLCK is displayed.
- 2. Press the button directly below CLCK. *The current setting is displayed.*
- 3. Press the button directly below EDIT. *The first item flashes.*

Continued....

Clock (Time and Date) (Menu) – 2 of 2



4. Press the up or down arrow of the 4-way Navigation button to change the selected item.

Note: Press the Home button at any time to return to the home display without saving your changes.

OR

Press the right side of the 4-way Navigation button to move to an item you wish to change.

- Press the up or down arrow of the 4-way Navigation button to change the selected item.
- Press the right side of the 4-way Navigation button one or more times to move to an item in the date field.
- Press the up or down arrow of the 4-way Navigation button to change the selected item.
- When you have made all of your changes, press the button directly below SAVE to save your changes and return to the home display.

Note: If a call arrives while the radio is in the clock-setting menu, the radio exits clock setting, your changes are lost, and the call information is displayed.

Nuisance Delete (NUIS Menu)



When the radio scans to a channel that you do not wish to hear (nuisance channel), you can temporarily delete the channel from the scan list.

To delete a nuisance channel:

- 1. Press the right side of the 4-way Navigation button until NUIS is displayed.
- 2. Press the button directly below NUIS to temporarily delete the displayed channel from the scan list.
- 3. If desired, re-enable the channel by exiting and reentering scan.

Note: Nuisance Delete cannot remove a priority channel () or the last channel in the list.



Power Select (Menu)





This feature lets you select the power level at which your radio will transmit. The radio will always turn on to the default setting. This feature must be preprogrammed by a qualified radio technician.

To select the power level:

- 1. Press the right side of the 4-way Navigation button until PWR is displayed.
- 2. Press the button directly below PWR.

 The display shows the current power level HIGH
 POWER or LOW POWER along with LOW and HIGH.
- 3. Press the button directly below the desired power level (LOW or HIGH).

Note: Press the Home or the PTT button to exit without changing the setting.

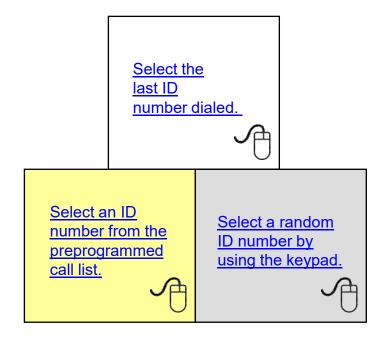
(PTT)

Private Conversation Call – Place (Menu) – 1 of 4



There are three ways to place a Private Conversation call from your radio.

To place a Private Conversation call:





Private Conversation Call – Place Select Last Number Dialed (Menu) – 2 of 4





To select the last ID number dialed or received:

- 1. Press the right side of the 4-way Navigation button until CALL is displayed.
- 2. Press the button directly below CALL. The last number dialed or received is displayed.
- 3. Press and release the PTT button to start the Private Call.

The called ID is momentarily displayed, then you see PLEASE WAIT. When you are connected, you see the called ID again.

4. Press and hold the PTT button to talk; release it to listen. If the system does not acknowledge your call, you see NO ACKNOWLDG displayed.

If the target radio does not respond before the time out, you see NO ANSWER displayed.

5. Press the Home button to hang up and return to the home display.

Private Conversation Call – Place Select Number from Call List (Menu) – 3 of 4





To select an ID number from the call list:

- 1. Press the right side of the 4-way Navigation button until CALL is displayed.
- 2. Press the button directly below CALL.
- 3. Press the right side of the 4-way Navigation button to find the ID you want.

Note: Press the button directly below LNUM to go to the last number dialed.

4. Press and release the PTT button to start the Private Call.

The called ID is momentarily displayed, then you see PLEASE WAIT. When you are connected, you see the called ID again.

5. Press and hold the PTT button to talk; release it to listen. If the system does not acknowledge your call, you see NO ACKNOWLDG displayed.

If the target radio does not respond before the time out, you see NO ANSWER displayed.

6. Press the Home button to hang up and return to the home display.

Private Conversation Call – Place Select Number Via Keypad (Menu) – 4 of 4





To select an ID number via the keypad:

- 1. Press the right side of the 4-way Navigation button until CALL is displayed.
- 2. Press the button directly below CALL.
- 3. Use the keypad to enter the ID number you want. Note: Press the button directly below LNUM to go to the last number dialed.
- 4. Press and release the PTT button to start the Private Call.

The called ID is momentarily displayed, then you see PLEASE WAIT. When you are connected, you see the called ID again.

5. Press and hold the PTT button to talk; release it to listen. If the system does not acknowledge your call, you see NO ACKNOWLDG displayed.

If the target radio does not respond before the time out, you see NO ANSWER displayed.

6. Press the Home button to hang up and return to the home display.

Private Conversation Call – Respond (Menu)





When a Private Call is received, you hear two alert tones, the LED flashes green, the call received symbol () flashes and CALL RECEIVD is displayed

To respond to a Private Conversation call:

- 1. Press the right or left side of the 4-way Navigation button until CALL is displayed.
- 2. Press the button directly below CALL.

 The last ID number received appears on the display.
- 3. Press the PTT button to talk; release it to listen.
- 4. Press the Home button to exit the call.

Reprogram Request/ Dynamic Regrouping (Menu) – 1 of 2



The dynamic regrouping feature lets the dispatcher temporarily reassign selected radios to a single special channel so they can communicate with each other.

To send a reprogram request:

- 1. Press the right side of the 4-way Navigation button until RPGM is displayed.
- 2. Press the button directly below RPGM. REPRGRM RQST is displayed and the request is automatically sent to the dispatcher.

Continued....

Reprogram Request/ Dynamic Regrouping (Menu) – 2 of 2





3. If you hear one beep:

Press the PTT button to send the reprogram request again.

OR

Press the Home button to hang up and return to the home display.

4. If you hear five beeps:

The reprogram request was acknowledged by the dispatcher; your radio returns to the home display.

OR

If the dispatcher does not acknowledge the reprogram request within six seconds, you see NO ACKNOWLDG and hear a low-pitched alert tone. Try again or press the



and hear a low-pitched alert tone. Try again or press the Home button.

Scan List Edit (Menu) – 1 of 3





This feature lets you change scan list members and priorities.

To edit the scan list:

- 1. Press the right side of the 4-way Navigation button until PROG is displayed.
- 2. Press the button directly below PROG You see the lists that can be changed.
- 3. Press the right side of the 4-way Navigation button until SCAN is displayed.
- 4. Press the button directly below SCAN.

You see the first available item and the view/program (symbol flashing, indicating the programming mode.

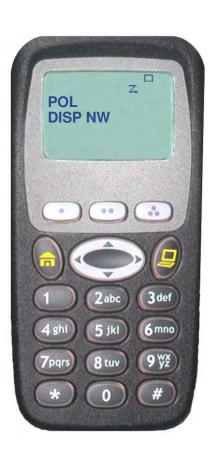


5. Press the left or right side of the 4-way Navigation button to select the item to be changed.

Continued....

Scan List Edit (Menu) – 2 of 3





6. Press the Select button one or more times to change the scan list status symbol of the currently displayed item.

You will see **____**, or **___** with a flashing dot.

= this item is in the scan list.

= this item is in the scan list as a priority-two member.

(dot flashing) = this item is in the scan list as the priority-one member.

Note: You cannot delete a priority member.

Continued....

Scan List Edit (Menu and Top Side Button/Select) – 3 of 3





7. Press the left or right side of the 4-way Navigation button to select more items to be added or deleted.

OR

Use the keypad to go directly to additional items to be added or deleted.

OR

Use the 16-Position Select knob to select additional items to be added or deleted.

Note: The maximum number of members for a trunking priority monitor scan list is 15; for a conventional scan list, 15; and for a talkgroup scan list, 10.

8. Press the Home button to exit scan list programming and return to the home display.

Smart Battery (Menu)



This feature allows you to view the condition of your Smart Battery.

To access information about your battery:

- 1. Press the right side of the 4-way Navigation button until BATT is displayed.
- 2. Press the button directly below BATT.
- 3. Battery data is displayed as follows:

 CAPACITY indicates the current charge on the battery.

 INIT indicates the date of the initial use of the battery.

 EST CHGS indicates the estimated number of charges on the battery.

Note: If a Smart Battery is not powering your radio, the display will read SMART BATT DATA NOT AVAILABLE.

Lost/Stolen Radios



- Radios may contain Sensitive information
 - Sensitive for Law Enforcement
 - FOUO for DOD
- Report to your equipment manager any missing suspected stolen radios in a timely fashion
- ALMR can disable the radios remotely until the missing radio is found

Questions

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www.alaskalandmobileradio.org