

ALERT TONES

Type of Tone	Name	Explanation
3 Short High-Tones (after requesting a busy channel) upon pressing the PTT button)	Automatic Call Back or Talk Permit	Channel is available for previously requested transmission. System is accepting your transmission.
Low-Pitched Tone (upon pressing the PTT button during Transmit) (Operation Error)	Talk Prohibit/ Out-of-Range or Time-Out Timer or Illegal Mode	Out of trunked radio system range or system is out of service. Present transmission will soon be disabled. You have entered a mode where normal system traffic will be missed, or you attempted something that is not allowed. (See examples below.)
High-Pitched Tone every 10 seconds in unmuted receive condition	Failsoft	System central controller failure. The radio reverts from trunked operation to operation similar to a conventional repeater. Others may share the channel.

Trunking Operation

Out-of-Range Indication

The out-of-range display/audible indication feature can be enabled by a qualified radio technician.

OUT OF RANGE and the current selected mode are alternately displayed, and a low-pitched tone sounds every six seconds:

- When the radio is out of range of the system and can no longer lock onto the control channel
- When the radio is in failsoft and cannot lock onto the failsoft channel.

The out-of-range indication remains in effect until

one of the following conditions occur:

The radio locks on a control channel

SmartZone Backup Operations

A) .Radio operation in Site Trunking

Site trunking occurs when a site is not longer able to participate in wide-area calls controlled by the zone controller. Radios operating in site trunking can only communicate with other radios at that site.

The radio will of course always be looking for a wide-area trunking site to lock onto if it roams into range of one.

1. When a site goes into site trunking, the radio will receive this indication and will display

"SITE TRUNKING"

2. The display will alternate between the current trunked mode and the site trunking display for as long as the radio remains in site trunking.
3. Users should have a pre-determined backup Tower site when the System is in Site Trunking.

Tower prefixes

HO = Houston Tower

HU = Huffman Tower

TO = Tomball Tower

CL = Clodine Tower

AL = Alvin Tower

TM = Tamina Tower

Harris County ITC

Astro Spectra
Mobile Radio

USER GUIDE

Law Enforcement Model



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BASIC OPERATION

Turn the Radio On and Off

Press the PWR button once.

Set the Volume and Squelch

- 1 Hold the Vol rocker switch down to increase or decrease volume as desired, then release. The display shows volume levels from 0 to 15.
- 2 On conventional modes with Private-Line or Digital Private-Line, press **Mon** or remove the microphone from the hang-up clip to defeat the coded squelch.
- 3 Press **Mon** again, or replace the microphone on the hang-up clip to return to coded-squelch operation.
- 4 To adjust squelch level, hold **Mon** until a tone sounds.
- 5 Press the **Mode** rocker switch to select squelch level.
- 6 Press **HOME**.

Change Modes

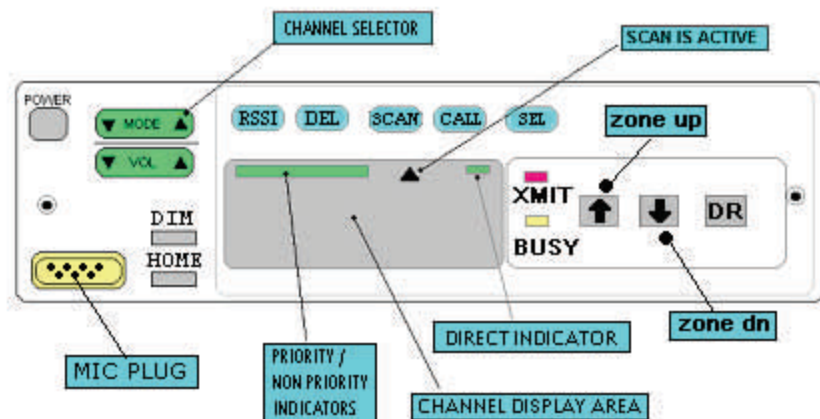
Press the **Mode** rocker switch to select the desired mode

OR

Press **HOME** to access the preprogrammed Home mode.

Transmit

- 1 Press and hold the microphone PTT button.
- 2 When the transmit light comes on solid and no alert tones sound (or a talk-permit tone or ID sidetone sounds), speak into the microphone in a normal voice.
- 3 State your FCC call sign at the beginning of each transmission.



Activate Scan

- 1 Press **Scan** to start a scan. If no activity exists, the display shows your selected mode. When a scanned channel or talkgroup becomes active, the display shows the active mode name. The **PRI** and **NPRI** indicators show priority.
 - 2 Press **Scan** again to stop scanning.
- Program a Scan List**
- 1 Hold **Scan** until a tone sounds and the scan indicator blinks.
 - 2 Press the **Mode** rocker switch to select the mode you want to program.
 - 3 Press the **Sel** button as indicated in the table below to add or remove the displayed mode from the scan list.
 - 4 Repeat the previous steps to continue editing the list.
 - 5 Press **HOME** or **Scan** to exit.

Press **HOME** to access the preprogrammed Home mode.

Press Sel Mode Indicator

First time Non-Priority **NPRI** lit
Second time First Priority **PRI** blinks
Third time Delete from List No indicator

Astro Spectra Radio General Operations

Radio On/Off and Volume Control

Turns the radio on/off by depressing this Button.

• **Home Button**

Returns you to the Assigned Home Channel from any Talk Group or Zone.

• **RSSI Button**

Displays the Received Signal Strength of the current signal.

• **H/L Button**

depressing this button once moves UP one Zone

• **MON Button**

depressing this button once moves Down one Zone

• **DIM Button**

This Button will dim the Back Lighting on the Display and buttons. (4- display levels.)

• **SEL Button**

Pressing the SEL Button will select the currently displayed item.

• **DIR Button**

To talk direct (mobile to mobile) used when in Conventional Mode (ITAC-5)

Other Notes:

Time Out Timer

All spectra models have a standard Time Out if Mic is keyed up for more than 60 seconds.

To Activate Scan Functions:

Press the Scan button ONCE, the Scan Triangle will appear in the display.