

OPERATION

Stay Alert Feature

The Stay Alert Feature is designed to test a driver's alertness. To engage (when unit is not alarming):

- Press and hold City for approximately 2 seconds. Release button during or immediately after the alert is given. Display shows: **(RU ALERT)** -XTR-325 only: The "H" or "L" will flash.

Within 30-60 seconds two beeps are sounded; to show alertness, the driver must press either the City, Volume, or Quiet buttons within 3-5 seconds. If a button is not pressed within 3-5 seconds, the cycle is repeated.

If a button was not pressed within 3-5 seconds alarm sounds and the display shows: **(GET REST)** ALL LEDs flash for XTR-325

- Press Power to exit.

WARNING!!! Stay Alert is NOT intended as a substitute for adequate rest. You should NOT operate a vehicle if you are drowsy. During extended periods of vehicle operation, you should take frequent breaks. Improper reliance on the Stay Alert feature may result in vehicle damage, personal injury or death. **NEVER OPERATE A VEHICLE IF YOU ARE DROWSY.**

SWS™

Safety Warning System™

In communities where transmitters are located, the Safety Warning System™ displays over 60 text messages. When Safety Radar is detected the audio alert is geiger counter-like.

Note: Safety Warning System™ is labeled "SR" in Option Select Mode.

Safety Warning System Text

Example: Poor - Road - Surface.

XTR-325 displays an "S."

Note: Not all areas have Safety Warning System™ transmitters.

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SPEED MONITORING

Laser Tips

If you are the targeted vehicle, a laser gun can often determine your speed within a few seconds after you receive an alert. In this situation there is generally no time to safely adjust your speed. However, if you are traveling near or behind the targeted vehicle and receive an alert, response time should be sufficient. Any laser alert, regardless of duration, requires immediate action!

Other Speed Detection Systems

Several techniques other than radar or laser are used to measure vehicle speeds. When these methods are being used, no detector can provide a warning. These techniques include:

- **Pacing** - A patrol car drives behind you and matches your driving speed.
- **Vascar/Aircraft** - The time it takes a vehicle to travel a known distance is measured.

Radar Detector Detectors: VG-2, Spectre

The Interceptor VG-2 or simply VG-2, is one type of microwave receiver used by Police to detect signals radiated by the local oscillator of a radar detector. Because its purpose is to identify persons driving with radar detectors, these devices are known as a "radar detector detector" (RDD).

An RDD is the primary tool used by the police to identify radar detector equipped vehicles. If caught in a state or country where detectors are illegal (see page 18), drivers risk losing their radar detector and receiving a fine. In addition, instant-on radar is almost always used in combination with a RDD, leaving unsuspecting motorists vulnerable to receive two tickets - one potentially for speeding, the other for possession of a detector.

POP™ MODE ALERTS

POP™ Mode Alerts

Because POP™ Mode travels on regular radar bandwidth, there is no particular alert for POP™ Mode transmissions. POP™ Mode alerts will be displayed as a regular radar alert.

LASER/RADAR ALERTS

Speed Radar Audio/Visual Alerts

When X, K, Ka, or Ku is detected, the band ID and signal strength are displayed. The audio alert is continuous and has a geiger counter-like pattern. The faster the beep, the closer or stronger the radar source.

Note: Geiger not available when custom tones are selected

Laser Audio/Visual Alerts

When a laser signal is detected, the audio alert is continuous for a minimum of 3 seconds.

- The Displays Shows: **LASER**

The more "L", the closer the laser source.

XTR-325 displays an "L"

Pulse Protection™

Pulse (or instant-on) radar is more difficult to detect than conventional radar because it remains "off" until activated to measure the speed of a targeted vehicle.

When a pulse type transmission is detected, your Whistler detector sounds an urgent 3-second audio warning and the display shows: **'PULSE'** XTR-325 displays an "P"

After the 3-second pulse alert, the standard alert pattern continues for as long as the signal is present.

It is important to respond promptly to a pulse alert, since warning time may be minimal.

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VG-2 ALERTS

VG-2 Audio/Visual Alerts

Note: You must turn this feature on before it will detect VG-2.

When a VG-2 signal is detected, the detector 'hides' its own radiated signal and becomes undetectable by the VG-2. Once VG-2 is detected, every 30 seconds, the detector checks for a VG-2 signal. If a VG-2 signal is still present, the unit continues to hide and repeats the VG-2 alert. If no signal is detected, two beeps are provided, indicating an 'all clear' condition. During a VG-2 Alert X, K, and Ka band signals cannot be received (Reference page 21 for VG-2 information).

Alert Priority

When two or more signals are received at the same time, the alert priority is:

1. Laser
2. VG-2
3. Speed Radar
4. Safety Radar

Example: If X band is alerting, then suddenly a VG-2 signal is detected, the VG-2 warning will override the X band alert.

Reset Features

All user features can be reset to factory settings.

- Unplug Power Cord from unit.
- Plug Power Cord into unit.

Unit is now reset to the following features and settings.

Default factory settings are:

1. Audio to level (5).
2. Display shows: Highway.
3. Auto Quiet Mode OFF.
4. VG-2 Detection Mode OFF.
5. Safety Radar OFF.
6. Vehicle Battery Saver ON.
7. Full Power Up sequence.
8. Default TONE 3.
9. POP ON.
10. Backlighting Dim/Bright
11. Dim/Dark to Full Bright

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TROUBLESHOOTING

PROBLEM: No display or audio.

- Check fuse in Whistler plug; replace if necessary with a 2 amp 3AG type.
- Check fuse for lighter socket; replace if necessary.
- Make sure lighter socket is clean.

PROBLEM: Unit alarms when using vehicle electrical accessories (brakes, power mirrors, power windows, turn signals, horn, etc.) when unit is connected to the power cord.

- Vehicle's electrical system, including battery and alternator, may have electrical noise. Install a filter capacitor (470mfd, 25 volt or larger capacitance value) on the back of the lighter socket.

PROBLEM: Unit alarms when vehicle hits bumps.

- Check for loose lighter socket; tighten and clean.
- Check connections at both ends of power cord. Substitute another cord to determine if cord is defective. Return defective cord to the factory.

PROBLEM: Audio alerts are not loud enough.

- Cancel Auto Quiet Mode or City Mode.
- Check audio level setting (see page 8).

PROBLEM: Unit turns itself off

- See battery saver feature on page 12

If difficulties occur which cannot be solved by information in this Troubleshooting Guide, please call Whistler Customer Service at 1-800-531-0004 or visit our FAQ page at www.whistlergroup.com/faq-detectors.asp, before returning your unit for service.

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CARE AND MAINTENANCE

Care And Maintenance

Your Whistler detector is expertly engineered and designed to exacting quality standards to provide you with reliable, trouble-free operation. If your unit has been correctly installed following the guidelines in this manual, but is not operating optimally, please refer to the troubleshooting guide below.

PROBLEM:

As with all battery operated devices remove the batteries when this unit will not be used for an extended period of time. Damage caused by leaky or improperly charged batteries are not covered under warranty. Check with the battery manufacturer about the specific battery warranty.

ARE DETECTORS LEGAL?

In Most States YES!

Laser-Radar detectors are legal in every state (with the exception of Virginia and Washington, D.C., which have local regulations restricting the use of radar receivers in any vehicle) when used in automobiles or light trucks (under 10,000 lbs.). Concerning trucks over 10,000 lbs., the Federal Highway Administration (FHWA) issued a regulation, effective January, 1994 which prohibits radar and laser detector use in these types of vehicles nationally. Prior to the FHWA regulation, laws existed in the state of New York restricting the use of radar detectors in trucks over 18,000 lbs. and in Illinois in trucks over 26,000 lbs.

Note: A radar detector will not alarm if an officer is not transmitting on any one of the above radar bands.

POP™ Mode

POP™ Mode is a feature on some newer radar guns operating on K and Ka bands. When the gun is in POP™ Mode and activated, a brief burst of energy, less than 1/15 of a second, is transmitted and the vehicle's speed is quickly acquired. A detector without POP™ Mode detection capability cannot respond to this brief transmission.

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FCC INFORMATION

FCC ID: HSXWH16

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Important: FCC requirements state that changes or modifications not expressly approved by Whistler could void the user's authority to operate the equipment.

SPEED MONITORING

Radar Facts

A radar gun operates by transmitting radio waves at certain frequencies which reflect off objects and are picked up by the radar gun's receiving section. When a radar beam reflects off a moving target, a measurable frequency shift occurs. The radar unit converts this shift to miles per hour to determine your vehicle's speed. Currently, the FCC (Federal Communications Commission) permits operation of traffic radar guns at X Band (10.500 - 10.550 GHz), K Band (24.050 - 24.250 GHz), Ka Band (33.400 - 36.000 GHz) and Ku Band (13.425 - 13.475 GHz).

Note: A radar detector will not alarm if an officer is not transmitting on any one of the above radar bands.

POP™ Mode

POP™ Mode is a feature on some newer radar guns operating on K and Ka bands. When the gun is in POP™ Mode and activated, a brief burst of energy, less than 1/15 of a second, is transmitted and the vehicle's speed is quickly acquired. A detector without POP™ Mode detection capability cannot respond to this brief transmission.

SPEED MONITORING

Total Band Protection™ PLUS Ku

Complete Band Coverage that detects laser, radar including Ku, VG-2 and safety radar bands.

Laser Facts

It's well documented that many radar guns cannot reliably provide the speed of a targeted vehicle that is traveling in a group of vehicles. In contrast, a laser gun can target a specific vehicle out of a line of traffic and determine its speed. The advantage of laser over radar in terms of target identification is the result of the laser gun's narrow beam. A radar gun's transmission can cover more than a four-lane highway at a distance of 1,000 feet, compared with a laser gun's transmission which covers about 3 feet at the same distance. For best protection, keep these points in mind:

- Because the vehicle's license plate or headlights are the laser gun's primary targets, mounting the Whistler detector on the dashboard can improve laser detection at short range.
- Do not follow closely behind any vehicle you cannot see through. If you can't see past a vehicle ahead of you, chances are your detector won't either.

The receiving range of your laser detector will not be the same as a radar detector. Laser guns are most often used at short range. Whistler Laser-Radar detectors receive all current laser guns which operate at a laser wavelength of 905 +/- 10mm.

- Pro Laser™ I II III
- LT1 20-20
- Ultra Lyte

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OWNER'S MANUAL

XTR-325/425/560 Total Band Protection™ Plus Ku

LASER-RADAR DETECTOR

The Whistler Group Corporate Headquarters
13016 N. Walton Blvd. • Bentonville, AR 72712
Tel 479.273.6012 • Fax 479.273.2927

Customer Return Center
1201 N. Dixieland Rd. • Rogers, AR 72756
Customer Service Tel 800.531.0004
www.whistlergroup.com

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WHISTLER

Order #	Description	Price
403774	Intellicord™	\$27.95
202152	Windshield Bracket Kit	\$ 9.95
206552	Straight Power Cord (5')	\$14.95
206553	Coiled Power Cord (7')	\$15.95
206880	Hardwire Kit (10')	\$ 9.95
206666	Modular Cord Package (includes coiled and straight cords, and power adapter)	\$17.95
402081	Non Skid Dash Pad	\$ 6.95
206660	Straight Modular Cord & Socket Multiplier	\$11.95
206661	Coiled Modular Cord & Socket Multiplier	\$12.95
26005P	Replaceable Ring and Insert Set (Includes 6 trim rings: metallic blue, metallic gold, metallic red, pink, silver and white and 2 inserts: metallic silver and metallic black)	\$14.95

* Modular: Interconnecting pieces cord and plug.
Shipping and handling (per order) \$5.00. Prices are subject to change without notice.

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Dear Whistler Owner,
If you have questions concerning the operation of this Whistler product please call:

CUSTOMER SERVICE 1-800-531-0004

Monday - Friday • 8:00 am - 5:00 pm CT

or visit our website

www.whistlergroup.com

Please keep the receipt in a safe place. You may register your product online at www.whistlergroup.com. For warranty verification purposes, a copy of your dated store receipt must still accompany any unit sent in for warranty work. If the unit is returned without a dated store receipt an out of warranty service charge applies.

Note: *Your warranty period begins at the time of purchase. The warranty is validated only by the dated store receipt!* Now is the time to record the serial number of the unit in the space provided in the warranty section of the manual.

To fully acquaint yourself with the operation of your Whistler and to better understand the differences between detecting radar, laser and safety radar signals, we recommend reading this entire manual or visit our FAQ page on our website www.whistlergroup.com

Enjoy your Whistler detector and please drive safely.

Sincerely,

The Whistler Group, Inc.

OPERATION

To Modify the Audio, Part 1

• Press and hold the Quiet button to enter Option Mode (see page 13). Once "USER TONE" is displayed, simultaneously press and release the VOL UP and VOL DOWN buttons to allow for selection of Normal Tones or Custom Tones. (Display shows "X - Norm" or "X - Cust") The Vol Up button selects Custom Tone and Vol Down button selects Normal Tone. The Quiet button advances the menu to the next band selection. "X - Norm" → "K - Norm" → "Ka - Norm" → "Ku - Norm" → "L - Norm"

The PWR button exits User Tone Mode, but still remains in Option Mode. Press the PWR button again to exit Option Mode.

To Modify the Audio, Part 2

IMPORTANT: Unit does not detect radar or laser signals during recording or while playing a tone. To ensure a quality recording, the source should be approximately 1" away from the microphone.

To record or play a message (Record/Playback Mode):

- Press both volume buttons for less than 2 seconds and release. The unit will beep once; this enters Custom Mode. Display shows: CUSTOM The display shows the word PLAY and REC with accompanying arrows to indicate the buttons to control these functions (Start/Stop Play = PWR and Start/Stop Rec = City).
- The display then indicates: CUST-X as X is the first band ready to record up to 15 seconds of audio.
- Press and release the Quiet/Record button advances the recording feature to the next band.
- Press both volume buttons for less than 2 seconds and release to exit Record/Playback mode.

OPERATION

NOTE: Custom Mode automatically exits within 20 seconds if a button is not pressed. Messages are kept in memory and are not affected by resetting the factory features. See "Reset Features" section of the manual.

To delete a message:

- Enter Custom mode and press Volume Up or Volume Down button until selected band appears on the display.
- Press the Quiet/Record button twice.

TIP: To prevent the recording of the stop button press (click), allow the recording process to continue for 15sec and automatically time out.

Power On and Self-Test

Each time your Whistler detector is turned on, an automatic self-test sequence confirms that the speaker and visual displays are functional.

• Press Power. Display shows in order:

1. WHISTLER
2. X-Band
3. K-Band
4. Ka-Band
5. Ku-Band
6. LASER
7. POP ON
8. VG2 OFF
9. SR OFF
10. Highway

• Display indicators will illuminate in the same order on the XTR-325

Setting Saver

Setting Saver saves your personalized settings so that when the detector is turned off and then on again, you do not have to re-enter them.

Feature Engaged Confirmation

Each time a button is pressed, one beep confirms feature "on", two beeps confirm feature "off".

Audio Level Adjustment

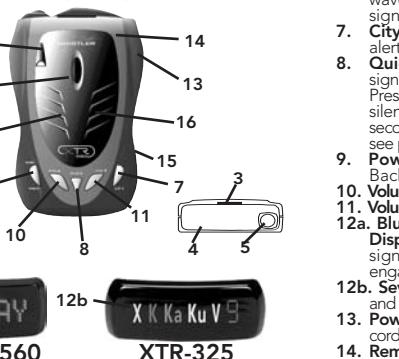
The audio levels can be adjusted high to low or low to high.

- Press Volume ▲ up to increase audio level.
- Press Volume ▼ down to decrease audio level.

As audio level is adjusted, beeps are provided and the display indicates volume level.

WHISTLER FEATURES

XTR-325/425/560



XTR-425/560

Accessories:

Windshield Bracket Kit, Straight Power Cord & 2 Trim Rings

FEATURE DESCRIPTIONS

NOTE: Not all units share all the features listed. Whistler's ergonomic and user-friendly design provides a new level of operating convenience. Special features include:

1. **Bracket Release Button** - Provides quick and easy release of the mounting bracket.
2. **Speaker** - Provides distinct audio warnings for X, K, Ka, Ku band radar, safety radar, laser and VG-2.
3. **Mounting Bracket Location** - Slot holds mounting bracket firmly.
4. **Radar Antenna** - Compact, high-efficiency antenna receives radar signals.
5. **Front Laser Antenna** - High gain optical lens provides increased sensitivity and field of view for leading-edge laser detection

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OPERATION

Auto Quiet Mode

Auto Quiet reduces the selected audio level to level (1) approximately 5 seconds after a radar or safety radar signal is detected. The alert for any new signal within 20 seconds will resume at level (1). Auto Quiet does not affect VG-2 or laser alerts.

- Press Quiet/Menu (before a signal is detected) to engage Auto Quiet.
- Once the Auto Quiet mode is engaged, you may cancel the audio alarm by pressing Quiet.
- Press Quiet (when the unit is not alarming) to cancel Auto Quiet mode.

Quiet Mode

Quiet cancels audio during an alert and any new alert within 20 seconds. After 20 seconds, approximately 2 beeps are provided on any new alert and then remains quiet.

- Press Quiet to cancel the audio.
- Press Quiet a second time during an alert to restore the standard audio alert pattern; or turn the unit off, then on.

Teach/Tutorial Mode

Provides simulated alerts for each type of signal.

- Press City and Quiet simultaneously and release.
- Display Shows: (TEACH) (XTR-425/560 only)
- Press Power to exit.

Highway Mode

Highway mode provides full audio warnings any time radar (X, K, Ka, Ku, Safety Radar) or laser signals are detected, and is recommended for open road driving. (Highway mode lets every signal in)

For more information on City and Highway mode, please visit our FAQ page on our website: www.whistlergroup.com

FEATURE DESCRIPTIONS

6. **Rear Laser Antenna** - An integrated optical waveguide provides superior detection of laser signals transmitted from behind.
7. **City Button** - Reduces the annoyance of false alerts typically encountered in urban driving areas.
8. **Quiet/Menu Button** - Pressing QUIET before a signal is detected engages Auto Quiet Mode. Pressing QUIET during a radar/laser encounter silences audio alerts. (Pressing and holding for 2 seconds allows you to enter Option Select Mode—see page 12)

9. **Power/Dim** - Turns unit on/off and engages Backlight settings (press and hold).
10. **Volume Down Button** - Adjust volume down.
11. **Volume Up Button** - Adjust volume up.

- 12a. **Blue Backlit LCD Programmable Text Display** - Provides distinct visual confirmation of signals detected, signal strength, and indicates engaged modes of operation.
- 12b. **Seven Segment Icon Display** - Provides band and numeric signal strength indicators

13. **Power Jack** - Provides connection for the power cord.

14. **Removable Trim Ring** - Allows changing the trim ring to one of the other colors.

15. **External Audio Jack** - Permits easy connection of an external speaker/headset to the XTR 560.

16. **Microphone** - Allows recording of audio tones in model XTR-560

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INSTALLATION

Installation

- Locate the tab near the button openings and insert this end first into the unit.
- Gently snap in the other tabs as you work your way to the back of the unit.

Mounting Guidelines

- Mount the unit as low as possible near the center of the windshield.
- Do not mount your unit behind wipers, ornaments, mirrored sunscreens, etc. These obstructions have metal surfaces which can affect radar and laser signals and reduce critical warning time. (Regular tinted glass does not affect reception.)

- **Power/Dim** - Turns unit on/off and engages Backlight settings (press and hold).
- 10. **Volume Down Button** - Adjust volume down.
- 11. **Volume Up Button** - Adjust volume up.

- 12a. **Blue Backlit LCD Programmable Text Display** - Provides distinct visual confirmation of signals detected, signal strength, and indicates engaged modes of operation.

- 12b. **Seven Segment Icon Display** - Provides band and numeric signal strength indicators

- 13. **Power Jack** - Provides connection for the power cord.

- 14. **Removable Trim Ring** - Allows changing the trim ring to one of the other colors.

- 15. **External Audio Jack** - Permits easy connection of an external speaker/headset to the XTR 560.

- 16. **Microphone** - Allows recording of audio tones in model XTR-560

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INSTALLATION

Power Cord Connection

- Press and hold the Quiet button to enter Option mode (see page 13). Once "USER TEXT" is displayed simultaneously press and release the VOL UP and VOL DOWN buttons each time to scroll through the text that can be customized. When a text is selected, (use WHISTLER for example) the display will indicate "WHISTLER" with a blinking cursor under the letter "W".

Note: The cord fits tightly into detector. When installing the cord, expect some resistance.

Fuse Replacement

The lighter socket plug is equipped with a replaceable 2 amp 3AG fuse located behind the silver tip. To replace the fuse, carefully unscrew the tip of the plug.

Important: Unscrew slowly. The tip contains a spring which may fly out when disassembling. Insert the new fuse with the spring and screw on the tip. With use, the screw cap on plug may loosen. Retighten it occasionally. Unscrew the tip of the lighter socket plug carefully when replacing the 2 amp fuse.

OPERATION

Programmable Text Display (XTR 425/560 only)

The above models have the ability to modify the standard laser/radar detector's display. "WHISTLER", "HIGHWAY", "CITY", "CITY 1", and "CITY 2" can be changed to display your name, or any combination of 8 characters. For example, "HIGHWAY" can be changed to "GO 4 IT".

Note: A space is counted as a character.

WARNING!!! Programming the text display or the audio is not intended to be done while you are driving. You should not use any device in a vehicle that may distract you from observing the road ahead.

OPERATION

Backlight Setting (XTR 425/560)

The backlighting (B/L) can be programmed to

be illuminated all the time, only when alarming, or choices in-between.

The options are:

• Press City to cancel Highway mode and engage City.

• Press City again to enter City 1 Mode

- display shows 'C1 Lo X'. (XTR 425/560)

• Press City again to enter City 2 Mode

- display shows 'C2 No X' (XTR 425/560)

• Pressing City a fourth time cancels City 2 Mode and returns the unit to Highway Mode.

BRT-BRT = B/L remains bright at idle as well as alarming.

Highway will turn on, if selected, while the unit

alarms and remain on for 3 seconds after the unit

stops alarming. When any button is pressed the

backlight will illuminate at the dim setting and

remain on for 3 seconds afterwards. The backlight

will also illuminate while in option mode.

Dim/Dark (XTR-325 only)

Dim/Dark Mode reduces the illumination of the

display.

- Press and hold B/L button for 2 seconds to reduce illumination to a Dim setting.

- Pressing and holding the B/L button for 2 seconds a second time engages Dark Mode. The display illumination is further reduced.

Dim or dark can be engaged during an alert.

In Dark Mode, the display goes dark for as long as

a signal is being detected and for 20 seconds after, then the display returns to the dimmer setting.

- Pressing and holding the B/L button a third time restores full illumination to the display.

XTR-325 Timer = 6 hrs, XTR-425/560 Timer = 3 hrs

External Audio Jack

The External Audio Jack can be used to connect an external speaker or headphones in environments with high ambient noise levels. The internal speaker will be disconnected.

SWS™

TURNS SAFETY RADAR ON

TURNS SAFETY RADAR OFF

REAL VOICE ENGAGED

REAL VOICE DISENGAGED

POP ON

POP OFF

BATTERY SAVER ON

BATTERY SAVER OFF

SEE PAGE 7 FOR TOTAL INSTRUCTIONS

OPERATION

To Modify the Text

- Press and hold the Quiet button to enter Option mode (see page 13). Once "USER TEXT" is displayed simultaneously press and release the VOL UP and VOL DOWN buttons each time to scroll through the text that can be customized. When a text is selected, (use WHISTLER for example) the display will indicate "WHISTLER" with a blinking cursor under the letter "W".

Note: The blinking cursor indicates that this is the first letter ready to be changed.

- Press the Volume Up button to advance to the next letter/character/symbol/space to be displayed.

- Press the Volume Down button to select the previous letter/character/symbol/space to be displayed.

- Press the Quiet button to advance to the next position in the current word.

- Press the City button to go back to the previous position in the current word

- Press and hold the City button to change the character set (A, a, 9, ! etc.).

- Press PWR to exit User Text Mode and return to OPTION Mode.

- Press PWR again to exit OPTION Mode.

Programmable Audio Tones (XTR 560 Only)

Model XTR 560 also has the ability to modify the standard laser/radar detector's audio tones. Audio tones such as "X Band", "K Band", "Ka Band", "Ku Band" and "Laser" can be changed to play up to 15 seconds of a favorite tune, phrase, saying, almost anything you like. When the unit detects K band, for example, the K band voice will now be followed by what was recorded for K band.

TIP: Turn off the voice option to have the unit respond only with the custom recorded alerts.

OPERATION

Option Select Mode