

**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.

**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.

**Safety Warning System Text (XTR-520 Only)**  
Example: Poor - Road - Surface.  
• **XTR-220 Model** displays a **"5."** to indicate a SWS™ message has been received.

**NOTE:** Not all areas have Safety Warning System™ transmitters.

**LASER/RADAR ALERTS**

**Speed Radar Audio/Visual Alerts**  
When X, K, or Ka 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.

**Laser Audio/Visual Alerts**  
When a laser signal is detected, the audio alert is continuous for a minimum of 3 seconds.  
• **Model XTR-520** displays: **(LASER IIII)**  
The more "III", the closer the laser source.  
• **Model XTR-220** displays: "L"

**SPEED MONITORING**  
**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 transmission can cover more than a four-lane highway at a distance of 1,000 feet, compared with a laser transmission which covers about 3 feet at the same distance. For best protection, keep these points in mind:

- Because your vehicle's license plate or headlights are the laser gun's primary targets, mounting your 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

**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!

**LASER/RADAR ALERTS**  
**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:  
• **Model XTR-520** displays: **(PULSE)**  
• **Model XTR-220** displays: "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.

**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 VG-2 Alert X, K, and Ka band signals cannot be received (Reference page 19 for VG-2 information).

**NOTE:** Having a radar detector capable of detecting the VG-2 may alert you to the presence of a speed trap. As of this printing, the newest tool Police have to detect radar detectors is called Spectre, as of this printing. Spectre can detect all undetectable (VG-2) laser/radar detectors on the market.

**SPEED MONITORING**  
**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:  
• Facing - 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.

**WARRANTY INFORMATION**  
**Consumer Warranty**  
This Whistler Laser-Radar detector is warranted to the original purchaser for a period of one year from the date of original purchase against all defects in materials and workmanship. This limited warranty is void if the unit is abused, modified, installed improperly, if the housing has been removed, or if the serial number is missing. There are no express warranties covering this product other than those set forth in this warranty. All express or implied warranties for this product are limited to the above time. Whistler is not liable for damages arising from the use, misuse, or operation of this product.  
**NOTE:** Any damage to the remote battery or battery leakage, water damage or any physical damage is not covered under the warranty. Check with the battery manufacturer about this warranty.

**VG-2 ALERTS**  
**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 VG-2 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.**

**Default factory settings are:**  
1. Audio to level (5).  
2. Display reads Highway. (XTR-520 only) 'H' illuminates on XTR-220  
3. Dim/Dark Mode to Dim-Bright  
4. Auto Quiet Mode OFF.  
5. VG-2 Detection Mode OFF.  
6. Safety OFF.  
7. Vehicle Battery Saver ON.  
8. Full Power Up sequence.  
9. Default TONE 3.  
10. POP ON  
11. Voice On (XTR-520 only)

**WARRANTY INFORMATION**  
**Service Under Warranty**  
During the warranty period, defective units will be repaired without charge when returned with a dated store receipt to the address below. Units returned without dated store receipt will be handled as described in section **"Service Out Of Warranty."** Due to the specialized equipment necessary for testing a Laser-Radar receiver, there are no authorized service stations for Whistler brand detectors other than Whistler.

When returning a unit for service, please follow these instructions:  
1. Ship the unit in the original carton or in a suitable sturdy equivalent, fully insured, with return receipt requested to:

**Whistler Repair Dept.**  
1201 North Dixieland Rd  
Rogers, AR. 72756

**Please allow 3 weeks turnaround time.**

- IMPORTANT:** Whistler will not assume responsibility for loss or damage incurred in shipping. Therefore, please ship your unit insured with return receipt requested. **CODs will not be accepted!**
2. Include with your unit the following information, clearly printed:
- Your name and street address (*for shipping via UPS*), a daytime telephone number and email address, if applicable.
  - A detailed description of the problem (e.g., "Unit performs self-test but does not respond to radar").
  - A copy of your dated store receipt or bill of sale.

**TROUBLESHOOTING**  
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: 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: The 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: The unit alarms when using vehicle electrical accessories (brakes, power mirrors, power windows, turn signals, horn, etc.).**  
• 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: The remote no longer controls the detector**  
• Make sure the remote is pointed at the front display.  
• Possible weak or dead remote battery, replace battery.

**PROBLEM:The audio alerts are not loud enough.**  
• Cancel Auto Quiet Mode or City Mode.  
• Check audio level setting (*see page 7*).

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](http://www.whistlergroup.com/faq-detectors.asp), before returning your unit for service.

**WARRANTY INFORMATION**  
3. Be certain your unit is returned with its serial number. For reference, please write your unit's serial number in the following space: s/n\_\_\_\_\_.  
Units without serial numbers are not covered under warranty.

**IMPORTANT: To validate that your unit is within the warranty period, make sure you keep a copy of your dated store receipt. You may register your warranty online at www.whistlergroup.com, however, for warranty verification purposes, a copy of your dated store receipt must accompany any unit sent in for warranty work.**

**Service Out of Warranty**  
Units will be repaired at 'out of warranty' service rates when:  
• The units original warranty has expired.  
• A dated store receipt is not supplied.  
• The unit has been returned without its serial number.  
• The unit has been abused, modified, installed improperly, or had its housing removed.

The minimum out of warranty service fee for your Whistler detector is \$55.00 (U.S.). If you require out of warranty service, please return your unit as outlined in the section "Service Under Warranty" along with a certified check or money order for \$55.00. Payment may also be made by MasterCard, VISA or American Express; **personal checks are not accepted.** In the event repairs cannot be covered by the minimum \$55.00 service fee, you will be contacted by a Whistler technical service specialist who will outline options available to you. If you elect not to have your unit repaired, it will be returned to you along with your certified check or money order.

**CARE AND MAINTENANCE**  
**Care And Maintenance**  
During the summer months, avoid prolonged exposure to direct sunlight by removing your unit from the dash when your vehicle is parked for an extended period of time. Do not spray water, cleaners, or polishes directly onto the unit. The spray may penetrate through the openings and damage the unit. Also, do not use any abrasive cleaners on the unit's exterior.

**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.

**WARRANTY INFORMATION**  
**IMPORTANT:** When returning your unit for service, be certain to include a daytime telephone number and an email address (if applicable).  
**Customer Service**  
If you have questions concerning the operation of your Whistler detector, or require service during or after the warranty period, please call Customer Service at: **1-800-531-0004**  
Representatives are available to answer your questions Monday - Friday from 8:00 a.m. to 5:00 p.m. (CT) or visit the FAQ's at [www.whistlergroup.com](http://www.whistlergroup.com).

**SPECIFICATIONS**  
**Laser Wavelength:** 905 ± 50 nanometers (nm)  
**Radar Frequencies:**  
10.500 - 10.550 GHz (X Band)  
24.050 - 24.250 GHz (K Band )  
33.400 - 36.000 GHz (Ka Superwideband)  
**Operating Temperature Range:** -20° C to +80° C (-4° F to +176° F)  
**Power Requirements:**  
Operational 12 to 15 volts DC, 250mA nominal  
Vehicle Battery Saver, 30mA nominal.  
Remote: 3V Coin Cell CR2032  
**One or more U.S. patents may apply:**  
#5,146,227, #5,379,456, #5,666,120, #5,990,821

POP™ Mode is a trademark of MPH Industries, Inc. Specifications are subject to change without notice.

**FCC INFORMATION**  
**FCC ID: HSXWH17**  
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 Detector Detectors (VG-2)**  
The Interceptor VG-2, or simply VG-2, is a 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, the VG-2 is known as a 'radar detector detector'.

The VG-2 is the primary tool used by the police to identify radar detector equipped vehicles. If caught in a state 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 VG-2, leaving unsuspecting motorists vulnerable to receiving two tickets - one potentially for speeding, the other for possession of a detector.

Having a radar detector capable of detecting the VG-2 may alert you to the presence of a speed trap. For more information on speed monitoring technologies, please visit our FAQ page on our website:

[www.whistlergroup.com](http://www.whistlergroup.com)

**ACCESSORIES**  
These and other accessories can be ordered directly from Whistler by calling 1-800-531-0004 or visit our online store at [www.whistlergroup.com](http://www.whistlergroup.com)

Order#	Description	Price
202151	Windshield Bracket Kit	\$ 9.95
206552	Straight Power Cord (5')	\$ 14.95
206553	Coiled Power Cord (7')	\$ 15.95
206880	Hardwire Kit (10' ) (for wiring to fuse box)	\$ 9.95
206666	Modular Cord Package (includes coiled and straight cords, and power adapter)	\$ 17.95
159032	Package of 8 Suction Cups	\$ 2.95
402081	Non-Skid Dash Pad	\$ 6.95
206660	Straight Modular Cord & Socket Multiplier	\$ 11.95
206661	Coiled Modular Cord & Socket Multiplier	\$ 12.95
260251	Remote Control	\$ Call
260250	Retractable Lanyard Key Ring	\$ Call

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

**SPEED MONITORING**  
**NOTE:** It is the responsibility of the individual radar detector operator to know and understand the laws in your area regarding the legality of the use of radar detectors.

**Radar Facts**  
A radar gun operates by transmitting radio waves at certain frequencies which reflect off objects and are then 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 into 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), and Ka Band (33.400 - 36.000 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. This detector has the power to report this new gun where other detectors cannot!

**Total Band Protection™**  
Complete Band Coverage that detects laser, radar, VG-2 and safety radar bands.

**OWNER'S MANUAL**

**XTR-220/520**  
**Total Band Protection™**  
**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](http://www.whistlergroup.com)

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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](http://www.whistlergroup.com). For warranty verification purposes, a copy of your dated store receipt must 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!** Please 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 laser radar detector we recommend reading this entire manual or visiting our FAQ page on our website [www.whistlergroup.com](http://www.whistlergroup.com)

Enjoy your Whistler and please drive safely.

Sincerely,

The Whistler Group, Inc.

## OPERATION

### Replacing the Remote Battery

The remote control is powered by a 3 volt coin type cell, model CR 2032. However, all batteries eventually need replacing. When the time comes, follow these steps:

- Remove the Phillips head screw located at the bottom back side of the remote.
- Separate the two halves of the plastic case
- Gently lift out the PC board as the battery is located opposite the buttons.
- The battery should slide out from its holder. Make note of the correct polarity. Positive (+) is facing away from the PC board.
- Insert the new battery, being mindful of the correct polarity.
- Reassemble the reverse of disassembly

### 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 two ways:

- Press and hold the PWR/VOL ( VOL on XTR-520) button and the volume level will increase (Level 7) then proceed to lower the volume (Level 0). Continuing to hold this button will repeat the sequence. As audio level is adjusted, beeps are provided and the display indicates volume level.

- Press either VOL UP or VOL DOWN on the remote control.

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## OPERATION

### Integrated Real Voice®(XTR-520 only)

When selected, Real Voice® will be used to articulate the following:

- Band Identification
- Safety Warning System messages
- Feature Selection

**NOTE:** In certain cases, the voice message does not replicate the text message.

### 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 unit then remains quiet.

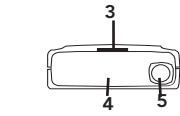
- Press Quiet to cancel the audio.
- Press Quiet a second time during an alert to restore the standard audio alert pattern; or turn the unit off, then on.

## WHISTLER FEATURES

### XTR-220



Accessories: Windshield Bracket Kit, Power Cord & Remote Control



### XTR-520



## FEATURE DESCRIPTIONS

Whistler's ergonomic and user-friendly design provides a new level of operating convenience. Special features include:

**Note: Not all units have all features listed.**

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

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## OPERATION

**NOTE:** On model XTR-220, City, Highway and Dim/Dark modes are only engaged via the remote control.

### City/City 1/City 2 Mode

Whistler's Three Stage City Mode is designed to reduce the annoyance of automatic door openers, intrusion alarms and other devices which share frequencies with police radar. Generally X band is used for these devices.

- Press City to cancel Highway mode and engage City.
- Press City a second time to engage City 1.
- Press City a third time to engage City 2.
- Pressing City a fourth time cancels City Modes and returns the unit to Highway Mode.

In City Mode, a weak speed/safety radar signal gives an initial alarm of two beeps, and then remains quiet unless the signal becomes very strong. When the signal strength increases, two additional beeps are provided.

City 1 and City 2 Modes operate the same as Highway Mode, but in City 1 Mode, only the X band sensitivity is lowered. In City 2 Mode, X-band is not detected.

**CAUTION:** Some towns/small cities may still be using X band radar. If Auto Quiet is engaged in City 1 or City 2 modes and the unit receives a strong radar signal, the unit performs the Auto Quiet feature. City Modes do not change the audio alert for laser or VG-2.

## FEATURE DESCRIPTIONS

- Rear Laser/ Remote Receiver** – Receives laser signals transmitted from the rear of the vehicle, accepts input signals from the remote control.
- City Button** - Reduces the annoyance of false alerts typically encountered in urban driving areas.
- Quiet/Menu Button** - Pressing QUIET before a signal is detected engages Auto Quiet Mode which automatically reduces the audio level after the initial warning to a low audio level setting. Pressing QUIET during a radar/laser encounter silences audio alerts, while allowing visual alerts to keep you informed. (Pressing and holding for 2 seconds allows you to enter Option Select Mode—see page 12 (XTR-520 only).)
- Power/Dim Dark** - Turns unit on/off and engages Dim/Dark modes (XTR-520 only)
- 9a. Power/Volume** - Turns unit on/off and hold to adjust volume (XTR-220 only).
- 9b. Power** - Turns unit on/off
- 10. Volume Button** – Adjust volume up or down.
- 11a. Text Display (XTR-520 only)** – Provides distinct visual confirmation of signals detected, signal strength, and indicates engaged modes of operation.
- 11b. 7 Segment Icon Display** – Provides numeric signal strength indicator and band identification.
- 12. Power Jack** – Provides connection for the power cord.
- 13. Dim/Dark** – Press and release button to select Dim/Dark modes.

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## OPERATION

### Highway Mode

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

For more information on City and Highway mode, please visit our FAQ page on our website: [www.whistlergroup.com](http://www.whistlergroup.com)

### Dim/Dark Mode

Dim/Dark Mode reduces the illumination of the display.

- Press and hold Power for 2 seconds to reduce illumination to a Dim setting.
- Pressing and holding the power 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 power button a third time restores full illumination to the display.
- Press the DIM button on the remote to select display illumination.

### Teach/Tutorial Mode (XTR-520 Only)

Provides simulated alerts for each type of signal.

- Press City and Quiet simultaneously and release.
- Press Power to exit.

## INSTALLATION

### 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.)
- Some windshields have an Instaclear™ or Electriclear™ type coating, which affect radar signals. Consult your dealer or your vehicle's owners manual to determine if your windshield has this coating.
- Avoid placing unit in direct contact with windshield.
- Avoid placing unit in direct sunlight
- To reduce the possibility of theft, conceal the unit when not in use.

### Windshield Mounting

- Install the two suction cups and rubber bumper onto the bracket by fitting them into their holes.
- Press the suction cups onto the windshield at the location you have chosen.

**IMPORTANT:** Some newer cars have a plastic safety coating on the inside of the windshield. The windshield bracket may leave permanent marks on this type of surface. To find out if your vehicle has this type of windshield, check the owner's manual or ask your dealer. We recommend that you do not leave the suction cup bracket on the window in direct sunlight.

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## OPERATION

### Engaging/Disengaging VG-2

**XTR-520:** See option select mode to turn this feature on.

**XTR-220:** Press and hold the quiet button. The unit beeps once for VG-2 on, twice for off. The “V” icon will illuminate when engaged.

When a VG-2 signal is detected, the VG-2 alert is sounded. After 3 seconds, the audio is cancelled and the VG-2 indicator flashes at a slower rate. This cycle is repeated if the VG-2 signal is again detected.

During the period a VG-2 signal is detected, a radar signal cannot be detected. However, because the VG-2 alert has confirmed that a patrol car is nearby, you are already aware of the potential for speed monitoring and can adjust your speed accordingly. Laser detection is not affected while a VG-2 signal is detected.

### Vehicle Battery Saver Mode

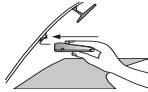
The Vehicle Battery Saver Mode automatically shuts off your detector if you forget to turn it off. The timer is reset if the detector is turned off, unplugged or any button is pressed before the timer has expired. The detector will alert you with an audible and visual warning before it shuts off.

During this warning you can reset the unit by pressing any button. This will reset the timer.

If the unit has automatically turned itself off, press the Power button to turn the unit back on. You can manually engage the Vehicle Battery Saver Mode by pressing and holding the City button until one beep is heard. (XTR-520 Only)

Refer to “Option Select Mode” for instructions for deactivating battery saver mode feature (XTR-520 Only). XTR-220 Timer = 6 hrs, XTR-520 Timer = 3 hrs

## INSTALLATION



### Windshield Mounting (Cont.)

- If the detector is removed, this may cause blistering of the dash in some vehicles.
- Slide the detector onto the bracket until it locks into place.
  - If necessary, the unit may be leveled by bending the windshield bracket. Press the bracket release button and remove the detector before bending.

### Power Connection

- Plug the small end of the power cord into the unit's power jack.
- Plug the large end into the vehicle's cigarette lighter.

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

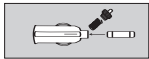
### Fuse Replacement

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



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## OPERATION

### Option Select Mode (XTR-520 Only)

Entering Option Select Mode allows you to customize options such as Tone Select, Abbreviated Power Up Sequence and VG-2 Mode. Press and hold quiet button to enter Select mode. When selecting options, the ▲, ▼ or quiet must be pressed within 20 seconds or option mode will automatically be exited. To enter:

XTR-520 Chart			
Press Quiet:	Display Shows:	To Change:	Option:
1st Time	X: ON	▲ = ON ▼ = OFF	X Band On X Band Off
2nd Time	K: ON	▲ = ON ▼ = OFF	K Band On K Band Off
3rd Time	Ka: ON	▲ = ON ▼ = OFF	Ka Band On Ka Band Off
4th Time	LASER ON	▲ = ON ▼ = OFF	Laser Band On Laser Band Off
5th Time	TONE 3	▲ = ON ▼ = OFF	Tone 1, 2, 3 (Three Different Tone Patterns)
6th Time	TEST ON	▲ = ON ▼ = OFF	X, K, Ka Audio Tones One Beep During Power Up
7th Time	VG2 OFF	▲ = ON ▼ = OFF	Turns VG-2 On Turns VG-2 Off
8th Time	SR OFF	▲ = ON ▼ = OFF	Turns Safety Radar On Turns Safety Radar Off
9th Time	VOICE ON	▲ = ON ▼ = OFF	Real Voice Engaged Real Voice Disengaged
10th Time	POP ON	▲ = ON ▼ = OFF	Pop On Pop Off
11th Time	B SVR ON	▲ = ON ▼ = OFF	Battery Saver On Battery Saver Off

## OPERATION

### 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 (XTR-520 only) in order: **1. WHISTLER 2. X-band 3. K-band 4. Ka-band 5. LASER 6. SR OFF 7. VOICE ON 8.VG-2 OFF 9. POP ON 10. B SVR ON 11. HIGHWAY**

- Display indicators will light in same order for XTR-220.

### Remote Control Operation

The remote packaged with this unit transmits via Infrared or IR, the same as most TV remote controls. The remote's 6 buttons can change the unit's features and operation. The transmit range is **approximately 4 feet**.

The remote is already programmed into the radar detector so no additional programming is necessary. If a replacement remote is necessary (from being lost or damaged), the new remote is “XTR ready”

The feature buttons on the remote duplicate those found on the laser-radar detector itself and in case of the XTR-220 more than what the unit can do on its own.

The remote utilizes a common coin cell battery CR 2032 which is available at most retail outlets. This battery should provide similar battery life as a vehicle's keyless entry remotes and IR controllers

## 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.

—**XTR-520 only:** Display shows:(RU ALERT)

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 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)

—**XTR-220 only:** The “H” or “C” will flash indicating Stay Alert is activated.

Within 30-60 seconds two beeps are sounded; to show alertness, the driver must press either the Volume, City or Quiet button within 3-5 seconds.

If the button is pressed within 3-5 seconds, the cycle is repeated. If a button was not pressed within 3-5 seconds, alarm sounds and the display will flash all LED's.

- Press Power to exit for both models.

**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.**