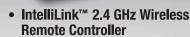


Operating Instructions



• Red Light/Speed Camera GPS Locator*

*(Included with XRS R9G. Optional with XRS R7)

12-Band[™] S-XRS[™] Maximum Performance Series Digital Radar/Laser Detector

CITY

DIM

MUTE

MENU | SAVE

POWER | VOLUME

XRS R7/R9G

Printed in China Part No. 480-369-P Version A

Nothing Comes Close to a Cobra®

English



Important Information and Customer Assistance

Important Information

Federal Laws Governing the Use of Radar Detectors

It is not against federal law to receive radar transmissions with your Cobra® radar/laser detector. The Communications Act of 1924 guarantees your right to receive radio transmissions on any frequency. Local laws that contravene this Act, while illegal, may be enforced by your local law enforcement officials until and unless they are prohibited from doing so by federal court action.

Safety/Strobe Alert

Use of this product is not intended to, and does not, ensure that motorists or passengers will not be involved in traffic accidents. It is only intended to alert the motorist that an emergency vehicle equipped with a Cobra Safety Alert, 3M or Tomar strobe transmitter is within range as defined by that product. Please call local fire and police departments to learn if coverage exists in your area.

Some states and municipalities prohibit mounting any object on your windshield. If you drive in these states or areas; you can mount the MDU on the dash.

Safe Driving

Motorists are expected to exercise all due caution while using this product, and to obey all applicable traffic laws.

Security of Your Vehicle

Before leaving your vehicle, always remember to conceal your Remote Display Unit (RDU) in order to reduce the possibility of break-in and theft. Your Main Detector Unit (MDU) has a two-position bracket that, when in the up position, presents a very discreet profile from outside the vehicle.



Customer Assistance

Use your owner's manual to learn about product features. Cobra Electronics offers the following customer assistance services:

For Assistance in the U.S.A.

Automated Help Desk, English only. 24 hours a day, 7 days a week 773-889-3087.

Customer Assistance Operators, English and Spanish, 8:00 am to 6:00 p.m. Central Time Mon. through Fri. (except holidays) 773-889-3087.

Questions, English and Spanish, Fax: 773-622-2269.

Technical Assistance, English only, www.cobra.com. English and Spanish e-mail, Product info@cobra.com.

For Assistance Outside the U.S.A. Contact Your Local Dealer

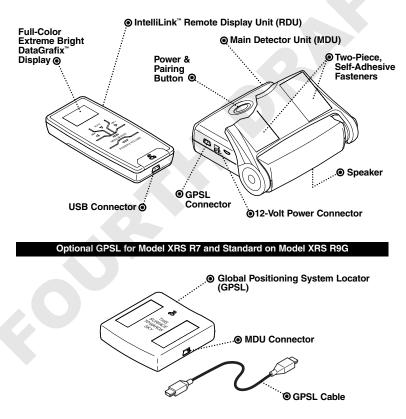
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The XRS R7 provides detection capabilities for radar, laser and strobe signals.

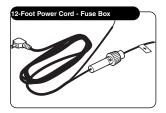
The XRS R9G has all the features of the XRS R7 plus a GPSL module with alerts when approaching photo-enforced intersections and roads with fixed red light/speed cameras. The XRS R9G can store up to 1,000 additional user programmable Location Alerts.

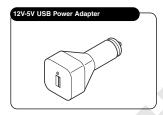


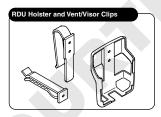




In This Package

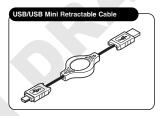


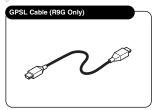


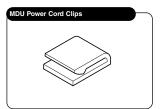












20 clips and 20 adhesive squares





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Cobra XRS R7 and XRS R9G

Modifications or parts not approved by Cobra Electronics Corporation may violate FCC Rules and void authority to operate this equipment.

Read and understand the information in the **Installation Overview** and **Installation** sections of this manual for best operation.

The XRS R7 consists of a Main Detector Unit (MDU) and a wireless Remote Display Unit (RDU). The XRS R9G adds a Global Positioning System Locator (GPSL) module, providing fixed red light/speed camera location-based alerts. The XRS R7 can be upgraded with a Cobra GPSL and updated GPSL databases and features purchased later.

Main Detector Unit (MDU)

The MDU is equipped with an adjustable, two-position bracket for detection operation in the down (horizontal) position or in the up position for a less visible profile from the outside. The MDU issues audible messages during power-on and self-testing. The MDU is also equipped with an alternate power button used to power the unit or as a pairing switch, if the RDU is lost or broken and needs to be replaced.

The MDU contains detection function sensors so proper mounting and orientation are important.



Remote Display Unit (RDU)

The RDU is a wireless remote controller/display module that shows alerts detected by the MDU. The RDU display uses an Extreme Bright DataGrafix[™] (Organic Light Emitting Diode) Display to show large graphical alerts as signals are detected.

The RDU uses a rechargeable lithium-ion (LiON) battery and is supplied with a holster and clips for mounting on heating/air conditioner vents or visor. Power cables and other adapters are supplied for charging this battery using the vehicle 12V vehicle power with accessory adaptor plug or via a PC USB port.

The normal Auto Dark screen is dark with a moving dot. The Auto Dark screen provides discreet usage and helps conserve RDU battery life. The display color can be changed to match most dash illumination.

Global Positioning System Locator (GPSL) - (XRS R9G Only)

The GPSL module tracks vehicle location. It uses a database that alerts as it approaches photo-enforced intersections and roads with fixed red light/speed cameras.

Use the GPSL functions to program alerts and store up to 1,000 user programmable Location Alerts. Software will be available to update the database and stay current with future hazards and warning locations. The GPSL module has no external controls and connects to the MDU with one cable.

Registering Your Detector

To register Cobra XRS R7 or XRS R9G go to www.cobra.com. Click on the Product Registration tab.



Installation Overview

Introduction

Mount Unit

Main Detector Unit (MDU)

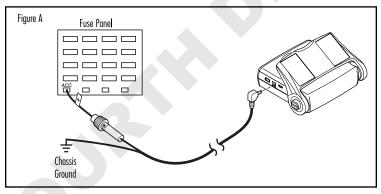


Note: To power the MDU, use one of the two power cords provided (See Page A3).

- 12-Foot Power Cord Acessory Plug: For connecton to 12-volt vehicle accessory outlet, or
- **12-Foot Power Cord Fuse Box:** For connection to vehicle's fuse box using the in-line fuse and wires.

Fuse box hard wiring is recommended. Use this configuration to provide a more discreet installation. If you are unsure about making this connection yourself, contact a professional installer.

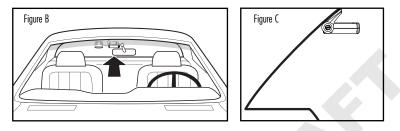
On a negative grounded vehicle:



- 1. Connect the positive wire [marked with a tag (+)] of the DC power cord to an accessory 12-volt fuse that is controlled by the ignition switch (Figure A).
- Connect negitive wire (-) to a chassis ground location (Figure A). Body paint may may need to be removed to assure a good ground connection.

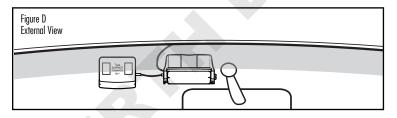


Installation Overview



Mount MDU high on windshield to right of rear view mirror (Figure B). MDU must have clear view through windshield and parallel to the road (Figure C) and have clearance to snap into the "up" position.

Position MDU for easy access to power switch, cable connections and for mirror movement. Mount the MDU on the windshield close to the headliner.

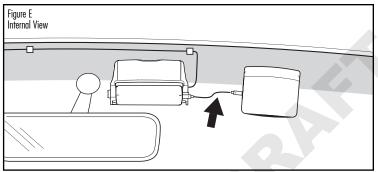


IMPORTANT: Do not block the MDU lens with the sun-shaded area of the windshield (Figure D) or the rear view mirror.

Dash mounting results in decreased performance. Heated windshields currently available on some vehicles (Instaclear for Ford, Electriclear for GM), may block or weaken incoming signals. Consult your automobile manufacturer.



Global Positioning System Locator (GPSL) - (XRS R9G Model Only)



Mount GPSL module close enough to the MDU for supplied cable to connect both modules (Figure E). Mount GPSL with proper side ("**This Surface Toward Sky**" wording embossed in unit case) attached to windshield and exposed to the sky.



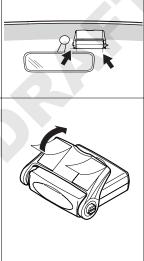
IMPORTANT: Some states and municipalities prohibit mounting any object on the windshield. If you drive in these states or areas, mount the MDU on the dash (Figure F).

IMPORTANT: Both the MDU and GPSL units will need to be flipped upside-down compared to a dashboard installation. Pay special attention to mount GPSL unit with proper side ("**This Surface Toward Sky**" wording embossed in unit case) towards the sky.



Main Detector Unit (MDU)

- 1. Position MDU before actual mount.
 - Do not attempt to adjust MDU bracket.
 - Hold unit in place.
 - Using non-permanent pen, mark two opposite corners.
- Peel off film from two-piece fastener strips. Align with two corner markings made in step 1. Press MDU bracket against windshield.
 - Fastener strips cannot easily be removed. Strength of adhesive strips increases with time.
 - Do not pull on MDU for first 20 minutes.

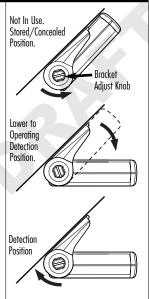


Installation

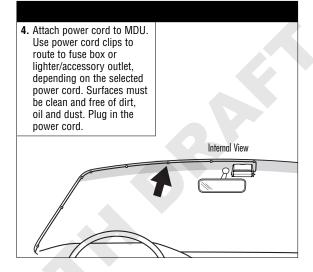
3. Loosen MDU (gray) bracket adjust knob. Adjust module to a position parallel to the road. Tighten knob to set proper detection position. The MDU mounting bracket has two detent positions:

- one for detection operation (horizontal position)
- one for storage or concealment (up position). Makes MDU less visible from outside.

IMPORTANT: MDU will not provide radar detection in "Stored/Concealed" position.





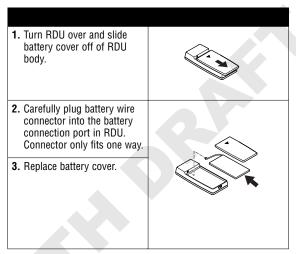






Remote Display Unit (RDU)

Battery Installation



Battery Charging

The unit is shipped with a sealed lithium-ion (LiON) batery pack that is rechargeable.

IMPORTANT: Avoid temperature extremes (hot and/or cold) to help prolong battery life and performance. DO NOT leave RDU exposed to direct sunlight. If the RDU is mounted on vent. clip must be on lower fin to avoid hot air blowing on RDU battery compartment.



NOTE: When battery begins to discharge too guickly, it is time to install a new battery.

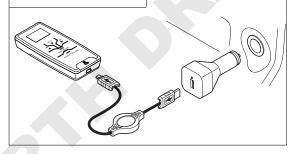




our Deter

 Attach 12-volt – 5-volt retractable USB power cable to bottom of RDU and to 12-volt power adapter.

- 2. Connect 12-volt power adapter to vehicle accessory outlet.
- **3.** Initial charge for battery is two (2) hours.





WARNING

This lithium-ion (LiON) battery should only be recharged inside the RDU. Do not substitute any other type of charging adapter or charging base to charge the battery. Battery damage, fire or explosion may result.



NOTE: Lithium-ion (LiON) batteries are toxic. Please dispose of properly. Some municipal waste disposal agencies have special provisions for battery disposal.

 \mathbf{O}

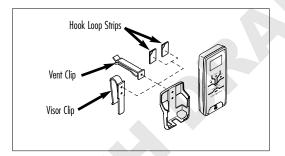
NOTE: After battery is fully charged, unit can be operated without retractable power cord until battery needs recharging.





RDU Holster

A holster is provided to allow you to position the RDU for best driver visibility, access and while charging battery. A vent or visor clip will attach to rear of holster for easy removable mounting locations. Two self adhesive hook loop strips are also included for more permanent mounting most anywhere on the vehicle dashboard.







Global Positioning System Locator (GPSL) (XRS Model R9G Only)

1. Position GPSL before actual mount.	
 Hold GPSL unit in place with USB cable connected to MDU. 	20-0
 Using non-permanent pen, mark two opposite corners. 	
2. Peel off film from two-piece fastener strips. Align with two corner markings made in step 1. Press GPSL bracket against windshield.	
 Fastener strips cannot easily be removed. Strength of adhesive strips increases with time. 	
Do not pull on GPSL for first 20 minutes.	
3. Connect cable between MDU and GPSL.	
IMPORTANT: Proper side of GPSL module ("This Surface Toward Sky" wording embossed in unit case) must be against windshield and face sky.	



GPSL Initial Satellite Lock

The GPSL module now needs to be linked to a satellite.

- 1. With vehicle running and parked in an area clear of obstructions to the sky, turn On radar detector.
- 2. Keep the unit turned on for at least 15 minutes. This will allow fast satellite acquistion in subsequent power-ups

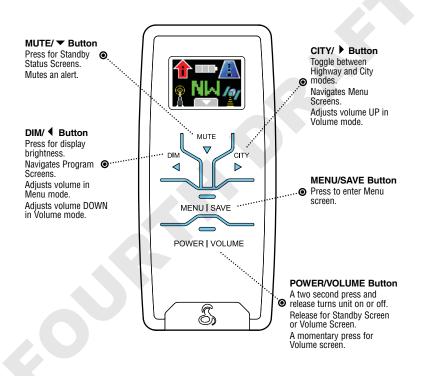


NOTE: This procedure may need to be repeated if the unit has not been used after prolonged non-usage.



Your Detector

RDU Controls

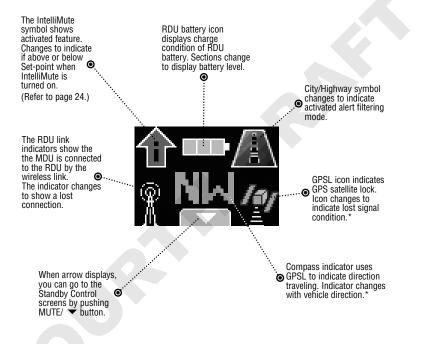




Controls and Displav

RDU Display

Standby Screen



•Note: Compass and GPSL icons only display if GPSL module is connected (optional for XRS R7, standard on XRS R9G).





Getting Started

Power On/Off

1. Press power button on RDU.	
2. Unit cycles through power on/self test. Displays Standby screen when process completed.	
3. Display changes to Auto Dark operating screen after 30 seconds (factory default). Can be changed to "Always On," but will reduce battery On time.	
4. Press, hold power button on RDU for more than two seconds to turn off unit.	Contraction of the second seco

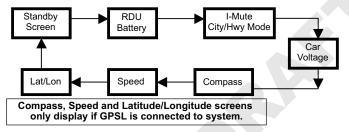




Standby Screen Menus

Press Mute/ $\checkmark\,$ while the Standby screen displays to show Standby screen menus.

These screens display in this order when navigating Standby screen.



NOTE: Last Standby screen viewed will be one displayed when exiting Auto Dark mode.









Standby Screen

Standby screen displays information about detector: alert filtering, automatic muting functions and RDU battery status. If GPSL is connected, compass heading and GPS status icon also display.

RDU Battery

RDU Battery screen displays status of RDU battery. Indicates charge left in battery or if it is plugged into power source and is charging.

I-Mute/City or Hwy Mode

I-Mute screen displays status of alert filtering (City or Highway modes) and automatic muting (IntelliMute) functions. Refer to related sections to set these features.

Car Voltage

Car Voltage screen displays voltage level of car battery. If battery voltage drops below 11.9 volts, an alert sounds. Low Car Voltage feature in Alert Settings programming must be activated.

18 English



Screens display only if GPSL is connected.

Compass



Indicates driving direction.



Speed

Indicates the GPSL system is tracking speed.



Lat/Lon Displays latitude and longitude of present location.





Getting Started

Auto Dark



When Auto Dark screen is engaged, a small dot displays at bottom of screen to show that power is on. Touch any button to recall Standby screen.

Highway/City Mode

IntelliShield[®] Tri-level City mode has a Highway mode and three City mode levels: City X, City X Beep Off and City X+K.



IntelliShield[®] Tri-Level City Mode

Toggle from Highway to City mode for three levels of Audio Alert suppression. Factory setting is City X.

City X sounds a single beep when X band signal is first detected. The alert sounds when signal strength reaches level 3.

City X+K combines City X mode with delay of K band audio alerts until signal strength reaches level 2.

City X Beep Off blocks all X band audio alerts until signal strength reaches level 3.

To change setting, navigate to the City Default screen. Press Mute/

button to cycle through options until setting to change displays. Press MENU/SAVE button to save select and return to Standby screen.

Muting Alerts

Manual Mute

condition. Press MUTE/ \checkmark button again during alert to turn on Audio Alert. After current alert is gone, detector will un-mute and next alert sounds.



Your Detector

EasvSet Programming

Programming Overview



Begin all programming or setup with MENU/SAVE button. Select this to change USER or ALERT settings. USER settings customize how system handles alert filtering, audio-related options, visual options and system-related options. ALERT settings determine which ALERT types are activated. ALERT settings on the XRS R9G model includes GPS-related features.



Press MENU/SAVE button again to save feature and function changes and return to Standby screen. If a button is not pressed within 15 seconds while in Setup/Programming mode, Standby screen displays and settings made up to this point are saved automatically.



NOTE: You can restore factory settings at any time.

Enter USER or ALERT settings sub-menu and display shows left arrow \blacktriangleleft , down arrow \checkmark and right arrow \blacktriangleright . Arrows correspond with arrows on DIM, MUTE and CITY buttons on RDU.

Press left arrow < to return to previous screen. Press right arrow ► to access next screen. Press down arrow to make change. Press MENU/SAVE button to exit setup program and save new settings. If a button is not pressed within 15 seconds while in Setup/Programming mode, Standby screen displays and settings made up to this point are saved.

Each of these functions and settings are explained in **SETTINGS** section of this manual.

NOTE: Advancing at the end of menu returns to beginning of menu.

NOTE: Setup/Programming mode cannot be accessed during an alert. Unit does not detect signals while in Setup/Programming mode.

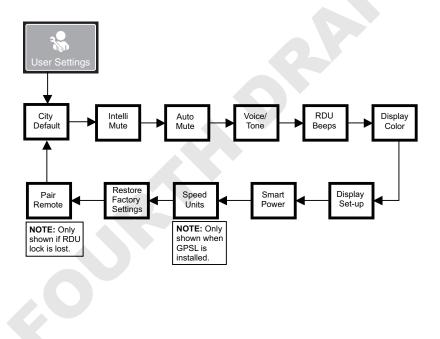




Program Flow Diagrams

User Settings Diagram

Screens display in this order when navigating through User Settings menu. Speed Units screen displays only if GPSL is connected to system. Pair RDU screen displays only if system detects a missing RDU connection.

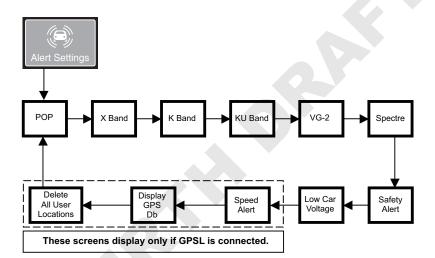






Alert Settings Diagram

Screens display in this order when navigating through Alert Settings menu. Speed Alert, Display GPS Db Date and Delete ALL User Locations screens display only if a GPSL is connected to system.





Programming User Settings





IntelliMute[®] Mode

Set IntelliMute to mute alerts when vehicle is stopped or moving slowly. Intellimute senses engine RPMs and mutes alerts. IntelliMute does not mute strobe signals from emergency vehicles. IntelliMute works with City and Auto Mute modes.

Set an RPM activation point to start IntelliMute. IntelliMute begins muting alerts when engine RPMs fall below set RPMs. The activation point is stored in memory and recalled each time the power is turned on. IntelliMute is factory set off.

An IntelliMute icon appears in display when IntelliMute is on and activation is set. When engine RPMs fall below the activation point, Arrow points down. Arrow points up when engine RPMs are above the activation point. If unit stops sensing the engine's RPMs. IntelliMute indicates an error and automatically turns off.

When initially choosing your IntelliMute activation point, a setting approximately 300 to 600 RPMs above idle is recommended. Reset the activation point at any time to fit individual preferences and driving style.

NOTE: Reset RPM point if detector is used in a different vehicle. IntelliMute may not work with some vehicles because it cannot sense the engine's RPMs. Reduce unwanted audio alerts by using Auto Mute IntelliShield® Tri-level and City Mode.

WARNING

DO NOT attempt to set the RPM point while driving. Your vehicle should be parked and idling to avoid a collision during the process.



Setting IntelliMute

From the IntelliMute Setup screen:

- **1.** Press MUTE/ \checkmark button to start setup.
- 2. Press and hold the vehicle accelerator at desired engine RPMs.
- 3. Press DIM/ ◀ button to complete setting process.

System stores engine RPM setting and displays a completion message and a tone or voice message. Unit must sense a usable pulse within three seconds or a set RPM point within 30 seconds of beginning of setup, or IntelliMute detects an error and turns off.

Change a set activation point by accessing Set IntelliMute in User Settings Programming. Repeat three-step setup process above.

Auto Mute Mode

Auto Mute reduces audio volume of all alerts after four seconds. Alerts remain muted as long as signal is detected. Alerts sound at full volume as long as signal is detected when Auto Mute is off. Auto Mute factory setting is on. Press the MUTE/ \checkmark from the Auto Mute screen to change the setting.

Voice or Tone Mode

Set detector to sound alerts and confirm program settings with a Voice or a Tone. Voice Alert provides voice messages in addition to tones. Tone Alert provides tones only. Factory setting is Voice Alert.

Remote Display Unit (RDU) Beep Level

RDU Beep sets the volume level for the keypad confirmation tones of the RDU. Choose from low, high or off RDU beep level volumes.

RDU Display Color

RDU screen color theme is customizable to match your personal preference or your vehicle's dash illumination. Choices include Multi-Color, Red, Blue, Orange or Green. Factory setting is Multi-Color.





Display Setup

Display Setup determines how long RDU button backlight and display stays on and delay time before RDU screen switches to Auto Dark mode. Set RDU display time for 15 seconds, 30 seconds, one minute, three minutes or Always On. Factory default is 30 seconds.



NOTE: If selecting "Always On" setting, RDU battery will need charging more frequently.

Smart Power Mode

SmartPower feature turns system off five minutes after car's engine is turned off. Before SmartPower engages, three beeps sound and SmartPower flashes on display. Start the car or press Power/Pairing button to return to normal power. Factory setting is SmartPower On.

Speed Units (Shown only if GPSL is connected)

Displays vehicle speed in miles per hour (MPH) or kilometers per hour (km/h). Factory setting is MPH.

Restore Factory Settings

Restore detector to original settings here. Confirmation messages display during process.





Programming Alert Settings

POP Alert

With Pop Detect mode on, signals are detected and an alert given. During alert unit continues to detect other signals. Factory setting is Pop Detect Off.

X Band Alert

With X Band Detect mode on, signals are detected and an alert given. During alert unit continues to detect other signals. Factory setting is X Band Detection On.

K Band Alert

With K Band Detect mode on, signals are detected and an alert given. During alert unit continues to detect other signals. Factory setting is K Band Detect On.

Ku Band Alert

With Ku Band Detect mode on, signals are detected and an alert given. During alert unit continues to detect other signals. Factory setting is Ku Band Detect Off.

VG-2 Alert

Detector is undetectable by VG-2 detection devices. An alert is given when such a device is in use near the vehicle. When VG-2 Detect mode is On, VG-2 signals are detected and an alert given. During alert unit continues to detect other signals. Factory setting is VG-2 Detect Off.

VG-2 Audio Mode

When VG-2 Audio mode is On, alerts are heard and displayed. This setting is only available if VG-2 Alert is On. Factory setting is VG-2 Audio Off.

Spectre 1 Alert

Detector is undetectable by Spectre 1 detection devices. An alert is given when such a device is in use near the vehicle. When Spectre 1 Detect mode is On, Spectre 1 signals are detected and an alert given. During alert unit continues to detect other signals. Factory setting is Spectre 1 Detect Off.





Spectre 1 Audio Mode

Spectre 1 Audio mode is only available if Spectre 1 Alert is on. Alerts are audio and displayed on screen. Safety Alert radar signals are detected and alerts given when Safety Alert mode is on. Factory setting is Spectre 1 Audio Off.

Safetv Alert

When Safety Alert mode is On, Safety Alert radar signals are detected and an alert is given. During alert unit continues to detect other signals. Factory setting is Safety Alert On.

Low Car Voltage Warning

Many U.S. cars have continuous power to 12V outlet and if a device is connected/kept on, it will drain vehicle's battery. To avoid this, XRS R7/R9G comes with Smart Power and Low Car Voltage Warning features.

The detector emits a car battery low alert when voltage drops below 11.9 volts. The detector enters SmartPower mode to avoid further battery draining. Factory setting is Car Battery Low On.

The following functions are available only if a Global Positioning System Locator is connected to the system.

Speed Alert

The Speed Alert with the GPSL module tracks vehicle speed and sounds an alert when set speed is exceeded. Speed settings increase or decrease in 5 MPH or km/h increments, depending upon Speed Units chosen in User Settings. Speed alert must be turned on to see Adjust Speed Setting screen. Factory setting is off.

Display GPS Database Date

The GPS database screen is only informational. The screen changes only when databases are updated.

Delete all User Locations

Delete all user-programmed location alerts with this screen.





Detection Alerts

Alert Screens

All alerts have a unique tone and a vocal alert if the Voice Alert feature is activated.

Radar Alerts



Radar alerts for X band, Ku band, K band and Ka band generate a screen display "RADAR," signal type and a number (1-5) indicating the signal strength. A unique tone sounds with a vocal alert if the Voice Alert feature is activated.

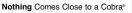


POP, VG2 or SP1 display depending on signal type detected.

Laser Alerts



Laser alerts are indicated by an "L" and laser signal type.







Detection Alerts



Emergency Vehicle Alerts

Emergency vehicle alerts are indicated by "EV" and the label "EMERGENCY."



Road Hazard Alerts

Road Hazard alerts show "RH" and "ROAD HAZARD."

Railroad Alerts

Railroad alerts generate "RR" and "RAILROAD."



Low Car Voltage Alert

WARNING CAR VOLTAGE LOW The detector emits a car battery low alert when voltage drops below 11.9 volts. The detector enters SmartPower mode to avoid further battery draining. Factory setting is Car Battery Low Off.

The following screens are shown only if a Global Positioning System Locator (GPSL) is connected to the system.

A detector system with a GPSL also receives alerts based on vehicle location and information in its databases.



Photo Enforcement Alerts

An alert to a Photo Enforcement area is indicated by a camera surrounded by a circle. As you get closer to the location, the circle and the camera get progressively larger and you hear a unique chime. If the Voice Alert is activated you will also hear a voice alert.





Detection Alerts



User Location Alerts

The system can store up to 1,000 User programmable Location Alerts set to give hazard warnings not known to the GPSL. The screen displays a flag surrounded by a circle. When approaching a stored location, the circle and flag get progressively larger. In addition, a unique tone sounds as vehicle approaches location. A voice alert sounds if Voice Alert is activated.



NOTE: A particular User Location can be deleted only when the vehicle returns to that location and receives a User Location Alert. Press MENU/SAVE to delete that location. A confirmation screen displays with "Yes" and "No" selections. Press "Yes" to confirm User Location Deleted. Press "No" to cancel delete.

Speed Alerts



Speed alerts are generated when the GPSL senses the vehicle is going faster than the speed setting programmed in the Alert Setting menu. The display indicates actual vehicle speed and a tone sounds. All radar, laser, strobe and safety alerts have priority and override this alert. Factory default is Off.





Understanding Radar and Laser

Radar Speed Monitoring Systems

Four band frequencies have been approved by the Federal Communications Commission (FCC) for use by speed monitoring radar equipment:

X band	10.525 GHz
K band	24.150 GHz
Ka band	33.400 – 36.000 GHz
Ku band	13.435 GHz

Your detector detects signals in all four radar bands.

VG-2 and Spectre 1

VG-2 and Spectre 1 are "detector detectors" that work by detecting low-level signals emitted by most radar detectors. Your detector does not emit signals that can be detected by VG-2 or Spectre 1, but does detect VG-2 and Spectre 1 signals and alerts you when a device is in use near your vehicle.

Safety Alert Traffic Warning System

FCC-approved Safety Alert transmitters emit microwave radar signals that indicate the presence of a safety-related concern. Depending on the frequency of the signal emitted, it can indicate a speeding emergency vehicle, train or a stationary road hazard.

Because these microwave signals are within the K band frequency, most conventional radar detectors detect Safety Alert signals as standard K band radar. Your detector, however, is designed to differentiate between standard K band and Safety Alert signals, and give separate alerts for each.

Safety Alert technology is relatively new. Safety Alert transmitters can be found in limited numbers in all 50 states, but the number is growing. Depending on your location, you may not receive these alerts regularly and may often encounter emergency vehicles, trains and road hazards without being alerted. As the number of transmitters increases, these alerts will become more common.

When you receive such an alert, watch for emergency vehicles ahead of you, on cross streets or behind you. If you see an emergency vehicle approaching, pull over to the right side of the road and allow it to pass.



Radar and Laser

Strobe Alert

Special strobes mounted on the light bars of authorized emergency vehicles (fire trucks, police cars, ambulances) automatically change traffic signals as the vehicle approaches an intersection. These strobes and the special strobe detectors located on the traffic signals are already in use in more than 1000 cities nationwide. Cobra's exclusive Strobe Alert detector detects these special strobes and sounds an emergency vehicle alert.

When you receive such an alert, watch for an approaching emergency vehicle and pull over to allow it to pass. Contact your local fire and police departments for information about coverage in your area.

LIDAR (Laser)

The correct name for the technology that most people refer to as "laser" is actually LIDAR, Light Detection And Ranging. LIDAR operates much like radar. Its signal spreads out like a radar signal, though not as widely. Unlike radar, LIDAR must have a clear line of sight to its target vehicle throughout the entire measurement interval. Obstructions such as sign posts, utility poles or tree branches prevent valid speed measurement.

Some common questions about LIDAR include:

Does weather have any affect on LIDAR?

Yes. Rain, snow, smoke, fog or airborne dust particles reduce the effective range of LIDAR and can, with dense conditions, prevent its operation.

Can LIDAR operate through glass?

Yes. Newer LIDAR guns can obtain readings through most types of glass. However, the laser pulse also can be received through glass to trigger an alarm by your detector.

- Can LIDAR operate while in motion?
 No. Because LIDAR operates by line of sight, the person using it cannot drive the vehicle, aim and operate the gun all at the same time.
- Is LIDAR legal to use? <u>Yes</u>. It is legal in all 50 states.





Pop Radar Guns

The Pop Mode Radar Gun is a single-pulse Doppler radar that is a feature of a K and Ka (Bee III Ka radar gun) band Instant-On radar gun. It uses a single, short-time pulse to measure the target vehicle's speed.

The Pop mode receiver senses Pop signals beyond the effective range of Pop radar guns. As the Pop mode receiver is so sensitive, you should limit the use of Pop Detect mode to highway and rural driving.





Maintenance

Detector is designed and built to give years of trouble-free performance without service. No routine maintenance is required.

Follow these steps if unit is not operating properly:

- Make sure power cord is properly connected.
- Make sure lighter/accessory outlet of vehicle is clean and free of corrosion.
- Make sure power cord's accessory adapter is firmly seated in lighter/accessory outlet.
- Check power cord fuse (unscrew ribbed end cap of accessory adapter and examine fuse) or in-line fuse of cable to fuse box, depending on cord used. If required, replace with 2-amp fuse only.

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NOTE: Rechargeable battery packs should be recycled or disposed of properly in compliance with all applicable laws. Certain states or municipalities provide recycling and have established collection programs. Please contact your local waste removal authority for instructions.



WARNING

Do Not put battery packs into fire or expose to high heat. They may explode.



WARNING

To reduce risk of damage, use only approved battery packs.





Band and Frequencies

			-
Band	Frequencies		
X Band	10.525	± 0.050	GHz
K Band	24.125	± 0.125	GHz
Safety Alert Traffic Warning System	24.070	± 0.010	GHz
	24.110	± 0.010	GHz
	24.190	± 0.010	GHz
	24.230	± 0.010	GHz
Ka Band	34.700	± 1.300	GHz
Ku Band	13.435	± 0.050	GHz
Laser	910	± 50	nm
Strobe	700	± 300	nm

This radar detector is covered by one or more of the following U.S. patents: 5,497,148; 5,594,432; 5,612,685; 6,078,279; 6,094,148; 6,621,447. Additional patents may be listed inside the product or pending.

NOTE: This device complies with part 15 of 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.





Warranty

COBRA ELECTRONICS CORPORATION warrants that its products, and the component parts thereof, will be free of defects in workmanship and materials for a term of one year from the date of first consumer purchase. This warranty may be enforced by the first consumer purchaser, provided that the product is used solely within the U.S.A and Canada.

Cobra will, without charge, repair or replace, at its option, defective products or component parts upon delivery to the Cobra Factory Service Department, accompanied by proof of the date of first consumer purchase, such as a duplicated copy of a sales receipt. The consumer must pay any initial shipping charges required to ship the product for warranty service. Return charges will be at Cobra's expense, if the product is repaired or replaced under warranty.

This warranty gives the consumer specific rights, and he or she may also have other rights which vary from state to state.



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- 3. If the serial number has been altered, defaced or removed;
- 4. If the owner of the product resides outside the U.S.A and Canada.





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Product Service

For questions about operating or installing this new Cobra product, or if parts are missing...CALL COBRA FIRST...do not return this product to the store.

If this product should require factory service, call Cobra before sending the product. This will ensure the fastest turn-around time on any repair. If Cobra asks that the product be sent to its factory, the following must be furnished to have the product serviced and returned.

- 1. For Warranty Repair, include some form of proof-of-purchase, such as a mechanical reproduction or carbon of a sales receipt. Make sure the date of purchase and product model number is clearly readable. If the originals are sent, they cannot be returned.
- 2. Send the entire product.
- **3.** Enclose a description of what is happening with the product. Include a typed or clearly printed name and address of where the product is to be returned, with phone number (required for shipment).
- 4. Pack product securely to prevent damage in transit. If possible, use the original packing material.
- 5. Ship prepaid and insured by way of a traceable carrier such as United Parcel Service (UPS) or Priority Mail to avoid loss in transit to:

Cobra Factory Service Cobra Electronics Corporation 6500 West Cortland Street Chicago, Illinois 60707 U.S.A.

6. If the product is in warranty, upon receipt of the product, it will either be repaired or exchanged depending on the model. Please allow approximately 3 - 4 weeks before contacting Cobra for status. If the product is out of warranty, a letter will automatically be sent with information as to the repair charge or replacement charge.

For any questions, please call 773-889-3087 for assistance.





Trademark Acknowledgement

Trademark Acknowledgement

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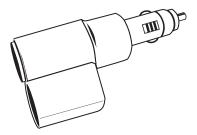
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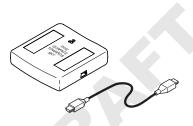




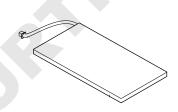


Dual Port Power Adapter Includes adjustable plug (up to 90°) and fuse

Item #CLP-2B



GPS Locator (w/cable) Upgrade Kit (for Model XRS R7 Only) Item #RDA GPSL



LiON Replacement Battery

Item #RDA LIBP

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Make Check or Money Order Payable To

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To Order Online

Please visit our website: www.cobra.com

Item #	Description
CLP-2B	Dual Port Power Adapter
RDA GPSL	GPS Locator (w/cable) Upgrade Kit (for Model XRS R7 Only)
RDA LIBP	LiON Replacement Battery



The Cobra line of quality products includes:

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