CONTROLS

360° Laser Eye — receives incoming laser signals directed at your vehicle from all directions.

Mute — silences the alert tone.

12V DC Jack — The power cord plugs in here.

Speaker — sounds a digital voice alert. Tones let you know the types of radar and laser signals detected.

City (City/Highway) — switches between city and highway modes.

High Visibility Alphanumeric Display — Provides a good view of the signal detected and signal strength and indicates the selected operating mode.

VOLUME/OFF — turns the detector on and off and lets you adjust the volume.

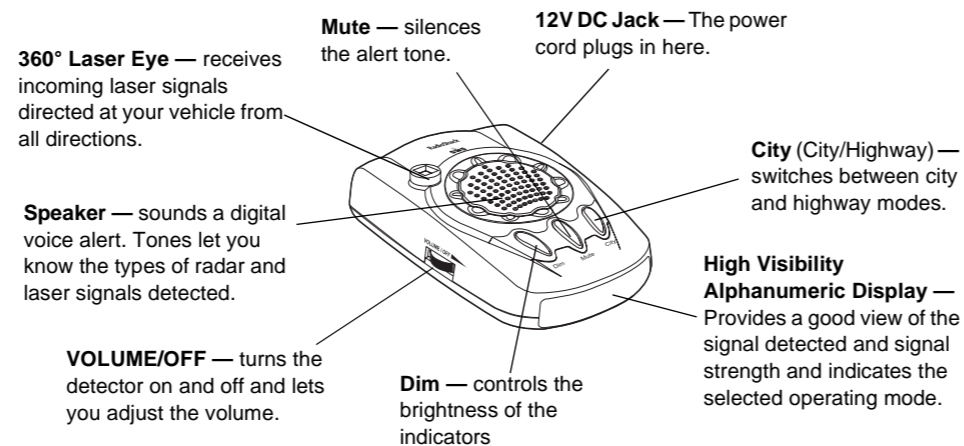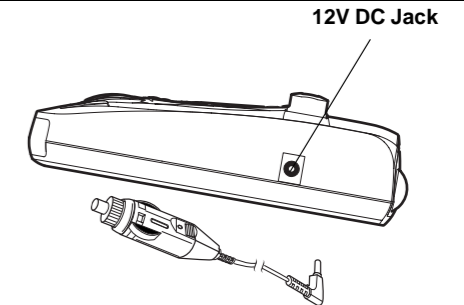**Dim** — controls the brightness of the indicators

CONNECTING POWER

12V DC Jack

Plug the supplied power cord's barrel plug into the detector's 12V DC jack. Then plug the cord's cigarette-lighter plug into your vehicle's cigarette-lighter socket.

☞ Note ☜
- To prevent the detector from draining your vehicle's battery if you leave the detector on when you turn off the ignition, unplug the power cord from your vehicle's cigarette lighter socket.
- If the detector does not operate when you turn it on, remove the cigarette-lighter plug from your vehicle's socket and check the socket for debris. Also, check the fuse in the detector's plug and your vehicle's cigarette lighter fuse.

⚠ CAUTION ⚠
- Use only the supplied 12V DC, positive (+) tip power cord.
- Before plugging the power cord's cigarette-lighter plug into your vehicle's cigarette-lighter socket, make sure the plug's tip is screwed firmly onto the plug.

Thank you for purchasing the RadioShack Radar Detector with Compass. Your radar detector can alert you to many traffic radar and laser systems with its distinct visual and audio alerts. It receives X-, K-, and Ka-band radar signals, and detects both the instant-on and laser systems many law enforcement agencies use to measure vehicle speed. Plus, your detector can give you advance warning of potential road hazards by detecting signals from transmitters that broadcast Safety Warning System™ (SWS) alerts.

PACKAGE CONTENTS

Radar Detector

Windshield Bracket with Suction Cups

Coiled Power Cord

Hook and Loop Tape

Questions and Answers About Vehicle Speed Detection

☞ Note ☜
Before reading this Owner's Manual, read the supplied booklet *Questions and Answers About Vehicle Speed Detection* to familiarize yourself with the terms and uses associated with your detector.

INSTALLATION

SELECTING A MOUNTING LOCATION
For the best performance, select a location where the detector has a direct view of the road. The detector's radar antenna is at the opposite end of the indicators.

Mounting Guidelines
- Choose a location that does not block the driver's view of the road.
- Mount the detector in a level position with a clear view of both the front and rear of your vehicle.
- Choose a location that gives the detector a view unobstructed by metal objects.
- Some vehicles have InstaClear® or ElectriClear® defogging windshields, which have metal coatings that block signals. Check your vehicle's owner's manual to see if your vehicle has one of these features. A detector installed in a vehicle with one of these features might not detect a signal.
- Since window tinting reduces the received strength of laser signals, you should not mount the detector behind heavily-tinted glass.
- Do not mount the detector where the driver or a passenger might hit it in a sudden stop or accident.

WINDSHIELD MOUNTING
1. Clean the selected windshield area and position the bracket on the windshield. Press firmly on each suction cup to secure the bracket.
2. Slide the detector's bracket slot onto the bracket until it snaps into place.

Bracket Slot

Adjusting the Bracket
If the mounted detector is not at the optimum viewing angle, you can adjust the mounting bracket for better viewing. Carefully bend the bracket in or out to adjust it to the desired angle.

⚠ CAUTION ⚠
Do not use the mounting bracket in a vehicle that has a plastic safety coating on the inside of the windshield designed to protect passengers during an accident. If you use the bracket on this type of windshield, you might permanently mar the windshield's surface. Mount the radar detector on the dashboard instead.
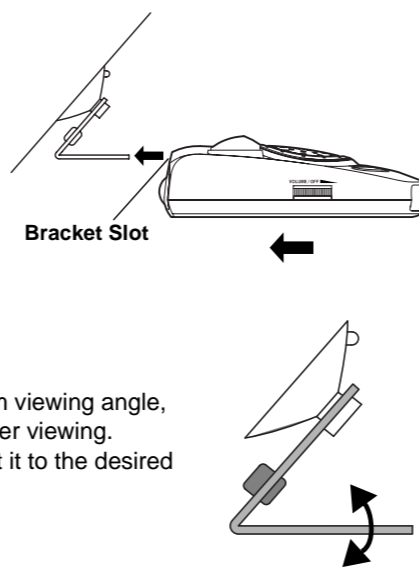
☞ Note ☜
Though the detector has a 360° laser and radar detection range, the radar detection is most sensitive in the front range.

DASHBOARD MOUNTING
In some vehicles, the dashboard may be the best location to mount the detector. Use the supplied hook-and-loop tape to mount your radar detector to the dash.

1. Use a damp cloth to clean the bottom of the detector and the dashboard. Let both surfaces dry.
2. Remove the tape's paper backing and stick the tape to the bottom of the detector.
3. Remove the backing from the other side of the tape and firmly press your detector onto the dashboard.

☞ Dashboard Mounting Notes ☜
- The tape's adhesive might not stick to a surface treated with vinyl cleaner or protectant.
- Do not place the hook-and-loop tape over the detector's serial number.
- On a curved dashboard, cut the supplied strip in half and use one strip on each side of the bottom of the detector.
- Be sure to place the detector out of view when you leave the vehicle. This keeps the detector out of sight of thieves and prevents exposure to extremely high temperatures, which can temporarily impair your detector's performance.
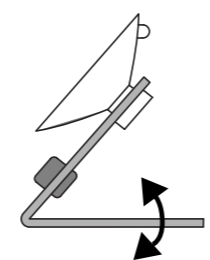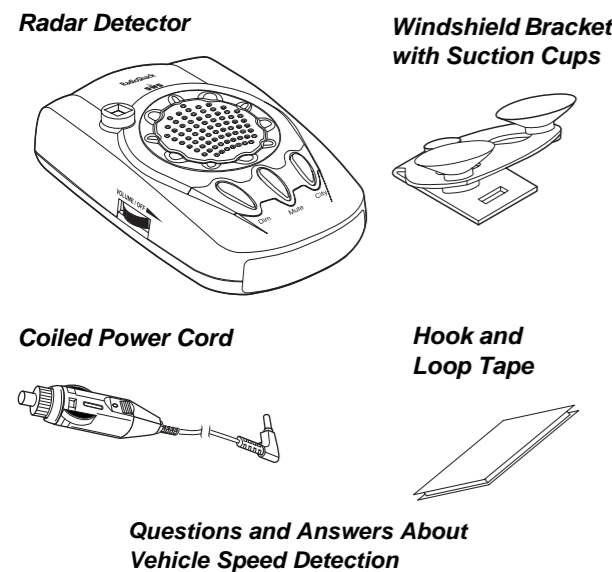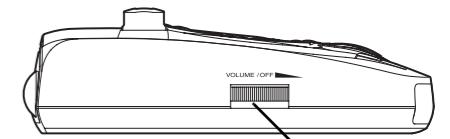
OPERATION

TURNING ON THE DETECTOR
To turn on the detector, rotate **VOLUME/OFF** toward **VOLUME** until it clicks. You hear a tone and the detector announces "Welcome! Buckle your seat belt," and a test message of "**WELCOME!**" appears.

After self-testing, **HWY** appears.

To turn off the detector, rotate **VOLUME/OFF** toward **OFF** until it clicks.

VOLUME/OFF

ADJUSTING THE VOLUME
Rotate **VOLUME/OFF** toward **VOLUME** to increase the detector's volume. Rotate it toward **OFF** to reduce the volume.

THE ELECTRONIC COMPASS
Your radar detector has an electronic compass that can display eight different headings: North (N), South (S), East (E), West (W), Northeast (NE), Northwest (NW), Southeast (SE), Southwest (SW).

CALIBRATING THE COMPASS
After installing your detector, you must calibrate the electronic compass before using it. Calibration separates the earth's magnetic field from other magnetic fields so the electronic compass provides accurate heading information. The calibration is best performed on a level surface such as an empty parking lot.

You must calibrate the detector when:
- It is being used for the first time.
- It is being used in a different location.

☞ Note ☜
- The detector displays the compass heading information until it picks up a signal. After the detector displays the signal, it returns to the compass display.
- The compass should not be calibrated in an underground parking garage or around a metal structure.

Follow these steps to calibrate your compass.

1. Hold down City until CAL... appears in the display. TURN and TWICE flash alternately.
2. Turn the steering wheel all the way to the right or left and drive in two complete circles. The circles must be completed in less than two minutes.
3. Press City. The detector announces "Calibration complete." SUCCESS! appears in the display.

If the calibration is incomplete, PLEASE CALIBRATE AGAIN .. PRESS CITY-KEY scrolls across the display. The detector also announces "Please calibrate again."

> **Note**
> • If you do not drive in two complete circles, the radar detector will not calibrate correctly.
> • If you are in an area with a strong magnetic field, the compass feature may not operate properly. If the unit still seems off after calibration is complete, find a new area and redo the calibration.

OPERATION SETTINGS
SELECTING CITY AND HIGHWAY MODES

Your detector has two operating modes: City and Highway.

• City mode requires a stronger X-band signal before the detector sounds, or visually indicates, an alert.
• Highway mode provides maximum sensitivity for open-road driving. The detector is preset to Highway mode and HWY appears when you turn it on.

1. To select City mode, press **City**. CTY appears and the detector says "*City Mode*."
2. To return to Highway mode, press **City** again. HWY appears and the detector says "Highway Mode."

> **Note**
> • City mode helps prevent false alerts in tightly populated areas where radar signals can bounce off surrounding structures.
> • City mode has no effect on K/Ka-band alerts, laser alerts, or instant-on radar.

SELECTING DISPLAY BRIGHTNESS

Your detector has three levels of display brightness: Bright, Dim, and Dark. Once you set the display brightness, the detector retains the setting until you change it.

1. Press **Dim** once to reduce brightness to Dim (50% darker). The detector announces "*Display Dim*."
2. Press **Dim** again to reduce brightness to Dark (10% darker). The detector announces "*Display Dark*."
3. Press **Dim** a third time to return to Bright. The detector announces "*Display Bright*."

MUTING THE AUDIO ALERT

While the detector sounds an alert signal, press **Mute** to temporarily silence the detector. The detector announces "*Mute On*" and m appears.

The detector automatically turns Mute off 20 seconds after the alert signal stops. To return the detector to normal operation sooner, press **Mute** while the alert indication is displayed. The detector announces "*Mute Off*" and m disappears.

AUTO MUTE MODE

Your detector has Auto Mute Mode which automatically reduces the audio volume of all alerts after 4 seconds for as long as the signal is detected. If the same radar signal is encountered within 10 seconds, the detector maintains a reduced audio-volume.

AUTO MUTE ON/OFF

When the detector is on standby, press **Mute** when no alert is occurring. Auto mute turns off and A disappears. If auto mute is set to off, press **Mute** again. The auto mute turns on and A appears.

SELECTING VG-2 MODES

VG-2 mode is preset to on. To turn off VG-2, hold down **Mute** until the voice alert says "*VG-2 Off*" and VG2-OFF appears. To turn VG-2 back on, hold down Mute until the voice alert says "*VG-2 On*" and VG2-ON appears.

RECEIVING AND IDENTIFYING SIGNALS

When your detector senses a radar signal, it responds with different audible and visual alarms to indicate the signal type for X-, K-, and Ka-band (newly included Ka-PoP) signals. The detector indicates the signal strength by increasing the number you see on the display.

• If your detector senses a n X-band, K-band, Ka-band radar signal, it announces "*X-Band Detected*," "*K-Band Detected*," or "*Ka-Band Detected*" respectively.
• If your detector senses a laser signal, "PRO LASER." PRO LASER 3," LTI-2020," or ULTRALYTE LASER" scrolls and the detector announces "*Laser Detected*."
• If VG-2 is detected, VG-2 flashes and the detector sounds a distinctive tone. The detector announces "*VG-2 Detected*."
• If your detector senses a SWS signal, a message appears depending on which SWS signal is detected, the detector sounds a distinctive tone, and the detector announces the message.

> **Note**
> • If there is another detector in the vicinity, you may receive false signals.
> • When the auto mute is on, if the same radar signal is detected within 10 seconds, reduced audio volume is maintained.

TUTORIAL MODE

Your detector has a tutorial mode to demonstrate all of its alphanumeric display.

1. To enter Tutorial mode, turn on the detector while holding down **Dim** and **City**. The detector sounds three beeps and TUTORIAL and MODE flash alternately.
2. To select the demonstration for each alert, press **Dim**. The detector displays each alert with its corresponding audio alert. The detector demonstrates the alerts in the following order.
   • X-Band Alert
   • K-Band Alert
   • Ka-Band Alert
   • Pro-Laser Alert
   • Pro-Laser3 Alert
   • LTI2020 Laser Alert
   • Ultralyte Laser Alert
   • VG-2 Alert
   • Rock Slide Area Ahead
   • School Zone Ahead
   • Road Narrows Ahead
   • Sharp Curve Ahead
   • Pedestrian Crossing Ahead

   When the demonstration finishes, TUTORIAL and MODE flash alternately.
3. To exit the Tutorial mode, press **City**.

> See "Safety Warning System (SWS) Categories and Messages" for a listing of SWS categories and messages.

REPLACING THE FUSE

If the detector stops operating, follow these steps to check the fuse in the power cord's cigarette lighter plug and, if necessary, replace it with a 2 amp, $1^1/_4 \times {}^1/_4$-inch, fast-acting fuse (supplied).

1. Carefully turn the knurled ring on the cigarette lighter plug counterclockwise to unscrew it.

   Take care not to lose the ring, tip, or the spring inside the plug when removing the ring.
2. Remove the ring and tip from the cigarette lighter plug, then remove the old fuse.
3. Check the fuse. If it has blown, replace it.
4. Replace the metal tip inside the ring. Make sure the spring is intact. Then place the fuse inside the cigarette lighter plug and screw the ring back onto the plug. Make sure the tip is visible when you reassemble the cigarette lighter plug.

Spring · Tip · Knurled Ring · Fuse
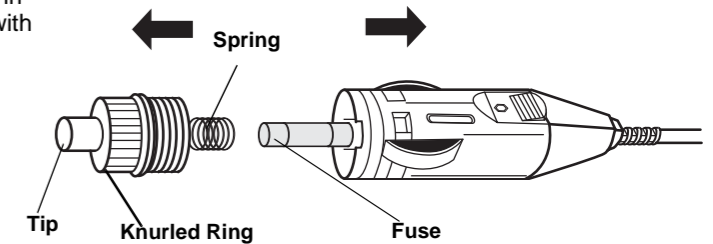
> **⚡ CAUTION ⚡**
> • Using a fuse that does not meet the requirements listed above can damage your detector, the power cable, or the vehicle's electrical system.
> • If you must use pliers to loosen the ring, be careful not to crush the ring or the metal tip inside the ring.
> • Never use pliers or other tools to retighten the ring on the cigarette lighter plug.

TROUBLESHOOTING

If you have problems operating your detector, the suggestions in this section might help. If you cannot solve the problem after trying these suggestions, take your detector to your local RadioShack store for assistance.

Problem	Suggestion
The detector does not turn on	Be sure all power connections are secure.
	The cigarette lighter socket might be dirty. Clean it with fine emery cloth to ensure a good, clean connection.
	Check the fuse in the power cord's cigarette lighter plug. See "Replacing the Fuse".
	Check the fuse that controls power to your vehicle's cigarette-lighter socket. See your vehicle's owner's manual.
The detector gives a false alert when you use vehicle accessories such as power windows, motorized mirror, brakes, and so on	Check the vehicle's electrical system for a loose connection, including the main battery cable and alternator connections.
	Install a filter capacitor (1000 µF 35 volts) on the back of the cigarette lighter socket, across the power connections.
The detector performs the self-test, but does not respond to radar signals when you see a police car.	A police car might not be equipped with radar (see the supplied booklet, "Questions and Answers About Vehicle Speed Detection").
	Police might be using VASCAR type speed detection (see the supplied booklet, "Questions and Answers About Vehicle Speed Detection").
The detector has poor laser detection range	Be sure the laser detection lens is not blocked.
	Be sure the detector is properly mounted.
	Use lens cleaning solution to clean the laser detection lens.

CARE

Keep the radar detector dry; if it gets wet, wipe it dry immediately. Handle the radar detector carefully; do not drop it. Keep the radar detector away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

SERVICE AND REPAIR

If your radar detector is not performing as it should, take it to your local RadioShack store for assistance. To locate your nearest RadioShack, use the store locator feature on RadioShack's website (www.radioshack.com), or call 1-800-The Shack (843-7422) and follow the menu options. Modifying or tampering with the radar detector's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it.

THE FCC WANTS YOU TO KNOW

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the *FCC Rules*. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult your local RadioShack store or an experienced radio/TV technician for help.
• If you cannot eliminate the interference, the FCC requires that you stop using your radar detector.

Changes or modifications not expressly approved by RadioShack may cause interference and void the user's authority to operate the equipment.

SAFETY WARNING SYSTEM (SWS) CATEGORIES AND MESSAGES

SAFETY WARNING SYSTEM

The Safety Warning System (SWS) employs low-powered transmitters used by some emergency services and road crews to alert drivers to hazardous road conditions. The SWS can indicate stationary, moving, or railroad hazards.

The system has the potential to dramatically decrease the occurrence of traffic accidents by increasing drivers' awareness of local road hazards. Having this safety warning compatible radar/laser detector will ensure that you are ready to benefit from this system wherever it is in use.

CATEGORY 1: HIGHWAY CONSTRUCTION MAINTENANCE

1. WORK ZONE AHEAD
2. ROAD CLOSED AHEAD/FOLLOW DETOUR
3. BRIDGE CLOSED AHEAD/FOLLOW DETOUR
4. HIGHWAY WORK CREW AHEAD
5. UTILITY WORK CREW AHEAD
6. ALL TRAFFIC FOLLOW DETOUR AHEAD
7. ALL TRUCKS FOLLOW DETOUR AHEAD
8. ALL TRAFFIC EXIT AHEAD
9. RIGHT LANE CLOSED AHEAD
10. CENTER LANE CLOSED
11. LEFT LANE CLOSED AHEAD
12. For future use

CATEGORY 2: HIGHWAY HAZARD ZONE ADVISORY I

13. STATIONARY POLICE VEHICLE AHEAD
14. TRAIN APPROACHING/AT CROSSING
15. LOW OVERPASS AHEAD
16. DRAW BRIDGE UP
17. OBSERVE BRIDGE WEIGHT LIMIT
18. ROCK SLIDE AHEAD
19. SCHOOL ZONE AHEAD
20. ROAD NARROWS AHEAD
21. SHARP CURVE AHEAD
22. PEDESTRIAN CROSSING AHEAD

CATEGORY 3: HIGHWAY HAZARD ZONE ADVISORY II

23. DEER/MOOSE CROSSING
24. BLIND/DEAF CHILD AHEAD
25. STEEP GRADE AHEAD/TRUCK USE LOW GEAR
26. ACCIDENT AHEAD
27. POOR ROAD SURFACE AHEAD
28. SCHOOL BUS LOADING/UNLOADING
29. NO PASSING ZONE
30. DANGEROUS INTERSECTION AHEAD
31. STATIONARY EMERGENCY VEHICLE AHEAD
32. For future use

CATEGORY 4: WEATHER RELATED HAZARDS

33. HIGH WIND AHEAD
34. SEVERE WEATHER AHEAD
35. HEAVY FOG AHEAD
36. HIGH WATER/FLOODING AHEAD
37. ICE ON BRIDGE AHEAD
38. ICE ON ROAD AHEAD
39. BLOWING DUST AHEAD
40. BLOWING SAND AHEAD
41. BLOWING SNOW WHITE OUT AHEAD
42. For future use

CATEGORY 5: TRAVEL INFORMATION/CONVENIENCE I

43. REST AREA AHEAD
44. REST AREA WITH SERVICE AHEAD
45. 24 HOUR FUEL SERVICE AHEAD
46. INSPECTION STATION OPEN
47. INSPECTION STATION CLOSED
48. REDUCE SPEED AREA AHEAD
49. SPEED LIMIT ENFORCED
50. HAZARDOUS MATERIALS/EXIT AHEAD
51. CONGESTION AHEAD/EXPECT DELAY
52. EXPECT 10 MINUTE DELAY

CATEGORY 6: TRAVEL INFORMATION/CONVENIENCE II

53. EXPECT 20 MINUTE DELAY
54. EXPECT 30 MINUTE DELAY
55. EXPECT 1 HOUR DELAY
56. TRAFFIC ALERT/TURN AM RADIO
57. PAY TOLL AHEAD
58. TRUCKS EXIT RIGHT
59. TRUCKS EXIT LEFT
60. For future use

Fast/Slow Moving Vehicles

61. EMERGENCY VEHICLE IN TRANSIT
62. POLICE IN PURSUIT
63. OVERSIZED VEHICLE IN TRANSIT
64. SLOW MOVING VEHICLE

ARE RADAR DETECTORS LEGAL?

Federal law lets you install and use a radar detector in automobiles and light trucks under 10,000 pounds in the United States. Presently, Virginia and the District of Columbia have some laws regulating or prohibiting the use of radar detectors in all vehicles.

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