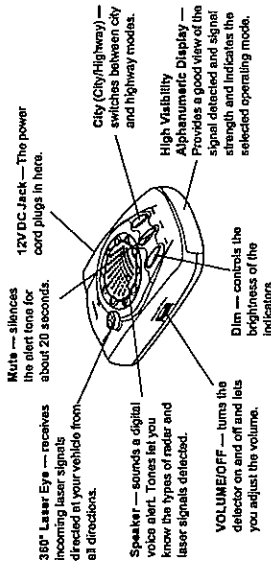




CONTROLS



CONNECTING POWER

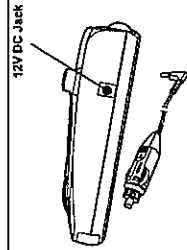
Plug the supplied power cord's barrel plug into the detector's 12V DC Jack. Then plug the cord's cigarette-lighter plug into your vehicle's cigarette-lighter socket.

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, 300 mA, Positive (+) Tip AC Adapter. Use of any other power source may cause damage.
- Before plugging the power cord's cigarette-lighter plug into your vehicle's cigarette-lighter socket, make sure the plug is inserted firmly onto the plug.



Thank you for purchasing a RadioShack Voice/Text Radar Detector. 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



Question and Answer 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

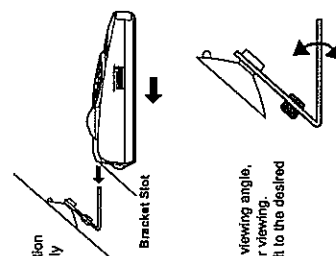
- Choose a location that does not block the driver's view of the road.
- Mount the detector in a level position with a clear view of both the front and rear of your vehicle.
- Choose a location that gives the detector a view unobstructed by metal objects.
- Some vehicles have InstaClear® or ElectricClear® deloggings 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

- Clean the selected windshield area, position the bracket on the windshield. Press firmly on each suction cup to secure the bracket.
- Slide the detector's bracket slot onto the bracket until it snaps into place.

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.

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.

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

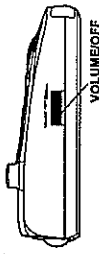
Dashboard Mounting Notes

- 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/OFF. You hear a tone and the detector announces "Welcome!" 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.

ADJUSTING THE VOLUME

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

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.

- To select City mode, press City. City appears and the detector says "City Mode."
- To return to Highway mode, press City again. HWY appears and the detector says "Highway Mode."

Note

- City mode helps prevent false alerts in highly populated areas where laser radar signals can bounce off surrounding structures.
- City mode has no effect on X-band alerts, laser alerts, or radar-on-radar.

OPERATION (continued)

SELECTING DISPLAY BRIGHTNESS

Your detector has three levels of display brightness: Bright, Dim, and Dark. The indicator's brightness level is always set to Bright when you turn it on.

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. 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 before the detector resets itself. 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 H disappears. If auto mute is set to off, press Mute again. The auto mute turns on and H 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 signals. The single-digit display indicates the signal strength. The detector also indicates the signal strength by increasing the number you see on the display.

 **Note**

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

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.

- If your detector senses a signal strength higher than 1, it announces "X-Band Detected," "K-Band Detected," or "Ka-Band Detected" respectively.
- If your detector senses a laser signal, "PRO LASER," "PRO LASER 2," "LTI-2020 LASER," 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 you 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.

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 3 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
 - LTI-2020 Laser Alert
 - Ultralyte Laser Alert
 - VG-2 Alert
 - Rock Slide Area Ahead
 - School Zone Ahead
 - Road Narrow Ahead
 - Sharp Curve Ahead
 - Pedestrian Crossing Ahead
- When the demonstration finishes, T appears again.
3. To exit Tutorial mode, press City.

See "Safety Warning System (SWS) Categories and Messages" on page 3 for a listing of SWS categories and messages.

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.

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 x 1/4-inch, fast-acting fuse (supplied).

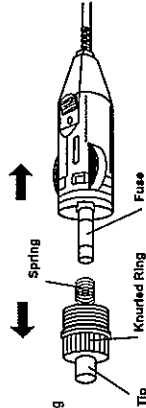
1. Carefully turn the knurled ring on the cigarette lighter plug counterclockwise to unscrew it.

Take care not to lose the ring, tip, or the spring inside the plug when removing the plug.

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.



CAUTION

- Using a fuse that does not meet the requirements listed above could cause the power cable, or the vehicle's electrical system.
- If you must use a spare, be sure the plug is careful not to crush the ring or the metal tip inside the plug.
- Never use wires or other tools to reinsert 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 mirrors, brakes, and so on	Check the vehicle's electrical system for a loose connection involving the main battery cable and alternator connections. Install a fuse capacitor (1000µF 5VDC) 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 detector lens is not blocked. Be sure the detector is properly mounted. Use lens polishing solution to clean the laser detector lens.

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

CATEGORY 1: HIGHWAY CONSTRUCTION MAINTENANCE 1. WORK ZONE AHEAD 2. ROAD CLOSED AHEAD/FOLLOW DETOUR 3. BRIDGED 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
CATEGORY 7: FAST/SLOW MOVING VEHICLES 61. EMERGENCY VEHICLE IN TRANSIT 62. POLICE IN PURSUIT 63. OVERSIZED VEHICLE IN TRANSIT 64. SLOW MOVING VEHICLE	CATEGORY 8: FAST/SLOW MOVING VEHICLES 65. EMERGENCY VEHICLE IN TRANSIT 66. POLICE IN PURSUIT 67. OVERSIZED VEHICLE IN TRANSIT 68. SLOW MOVING VEHICLE

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.

ARE RADAR DETECTORS LEGAL?

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
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

- 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

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