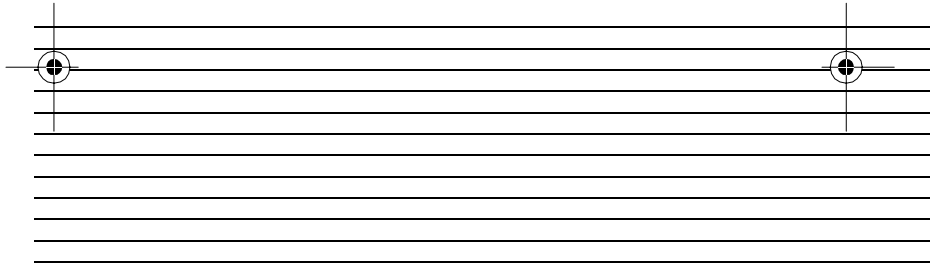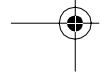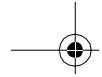# Owner's Manual

X•K•Ka Superwide Radar/ Laser Detector

Please read before using this equipment.

Cat. No. 22-1659

FEATURES

Your Radio Shack X•K•Ka Superwide Radar/Laser Detector can alert you to all known police traffic radar and laser systems. It receives all X-, K-, and Ka-band traffic radar signals and also detects both the instant-on and laser systems many police departments now use to measure vehicle speed.

Your detector has FAST (False Alert Suppression Technology) circuitry that helps prevent false alarms caused by signals from other radar detectors, without reducing your detector's sensitivity to traffic radar signals.

Note: Some areas have laws regulating the use of radar detectors. Check with your local law enforcement agency about the laws in your area.
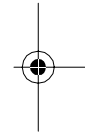
For your records, we urge you to record your detector's serial number in the space below. The serial number is located on the detector's bottom panel.

Serial Number: _____
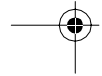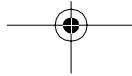
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InstaClear is a registered trademark used by Ford Motor Company.
ElectriClear is a registered trademark used by Libbey, Owens,
Ford, and Delco-Remy.

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Your detector has many useful features, including:

VG-2 Protection—makes your detector invisible to the VG-2 radar-detector detector by sensing VG-2 and shutting down until you are out of range.

Front- and Rear-Looking Laser—detects laser signals from both the front and the rear of your vehicle.

Road Hazard Alert—alerts you to the presence of potential road hazards and emergency vehicles signalled by a safety radar transmission.

X-, K-, Ka-Band, and Laser Signal Detection—warns you when it detects signals from traffic radar or laser devices. Different tones sound to let you know the type of signal received.

City/Highway Modes—let you reduce unwanted X-band alerts without affecting the detector's response to other signals while you are in the city.

Your radar/laser detector includes the following items:

- Visor Bracket
- Power Cord with Plug
- Windshield Bracket with Suction Cups
- Hook and Loop Fastener
- Spare Fuse
- Owner's Manual

3
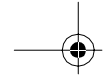
A LOOK AT THE DETECTOR

1 **P/V Button**—turns the detector on and off and lets you adjust the volume.

2 **Power Indicator**—lights when you connect the detector to power and turn it on.

3 **City Indicator**—lights when the detector is in the city mode.

4 **Visual Laser Indicator**—lights when the detector detects a traffic laser signal.

5 **Visual Radar Indicator**—lights when the detector detects a traffic radar signal.
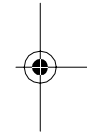
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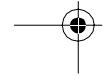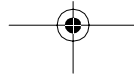
6 **Signal Meter**—four high-intensity indicators light in sequence as the radar signal strength increases, or flash in a pattern when laser is detected.

7 **AUD (Audio) Button**—replaces the normal alert sound with a muted click. Also, lets you silence alerts.

8 **CTY (CITY/HIGHWAY) Button**—switches between the city and highway modes.

9 **Power Jack**—the power cable plugs in here.

10 **Laser Detection Lenses**—receives incoming laser signals from both the front and rear.

5

INSTALLATION

MOUNTING GUIDELINES

Follow these guidelines when selecting a location.

- 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 to both the front and rear.

- Since signals are blocked by metal surfaces, the detector's view of the road must not be blocked.

- Some vehicles have InstaClear' or ElectriClear' defogging windshields, which have metal coatings that block signals. General Motor's APV vans have a solar shield that keeps the vehicle cooler during the summer. This shield also blocks signals. A detector installed in a vehicle with any of these features will probably not detect a signal.

- Since window tinting reduces the received strength of laser signals, you should not mount the detector behind any tinted glass.

- Do not mount the detector where the driver or a passenger might hit it in a sudden stop or accident.

Caution: Whichever mounting method you choose, place the detector out of view when you leave the vehicle. This keeps the detector out of sight of thieves and prevents exposing it to extremely high temperatures, which can temporarily impair performance.

6

HOOK-AND-LOOP MOUNTING

For some dashboards, the hook-and-loop tape included with your detector might be best for mounting. Follow these steps to use the hook-and-loop tape.

1. Use a damp cloth to clean the bottom of the detector and the dashboard. Let both surfaces dry.

   Note: The tape's adhesive might not stick to a surface treated with vinyl cleaner or protectant.

2. Remove the tape's backing and stick the tape to the bottom of the detector.

   Note: 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.

3. Remove the backing from the other side of the tape and press the detector onto the dashboard.

7

VISOR MOUNTING

The supplied sun visor clip lets you quickly mount the detector on your vehicle's sun visor.

Warning: Do not mount the detector on a visor if this places the detector near the driver's or a passenger's head.

Follow these steps to use the sun visor clip.

1. Remove the detector's cover by pressing on the raised dots and pushing outward. Store the cover in a safe place.

2. Slide the visor clip onto the top of the detector until it snaps into place.

3. Clip the detector to the edge of the sun visor nearest the windshield.

8

WINDSHIELD MOUNTING

The supplied suction-cup mount lets you easily mount the detector on the windshield.

Caution: Do not use the suction-cup mount in a vehicle that has a plastic coating on the windshield designed to protect passengers during an accident. If you use the suction-cup mount on this type of windshield, you might permanently mar the windshield's surface.

1. Remove the detector's cover by pressing on the raised dots and pushing outward. Store the cover in a safe place.

2. Align the groove in each suction cup with the slots in the windshield mount assembly and slide the suction cups out until they lock into place.

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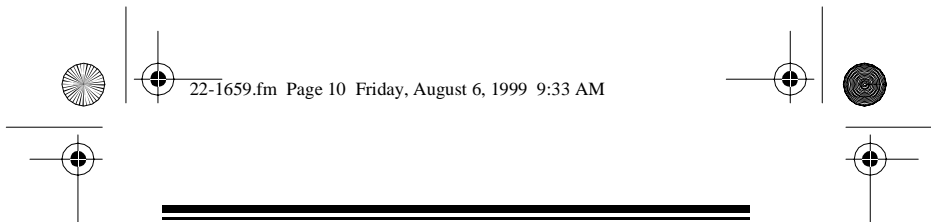
3. Clean the selected windshield area, position the suction-cup mount on the windshield, and press firmly on each suction cup to secure it into place.

4. Use a screwdriver or small coin to adjust the suction-cup mount until the base plate is level.
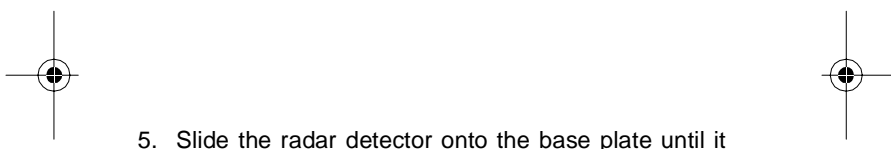
5. Slide the radar detector onto the base plate until it snaps into place.

10
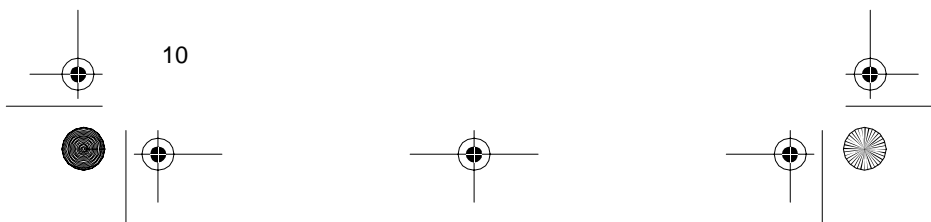
CONNECTING POWER

Cautions:

- The detector works in vehicles that have a 12-volt, negative-ground electrical system. Most vehicles have this type of system. If you are not sure about your vehicle, check with your vehicle's dealer.

- Unplug the power cord's cigarette-lighter plug from your vehicle's cigarette-lighter socket when you turn off the ignition. This prevents your vehicle's battery from being drained if you leave the detector on when you turn off the ignition.

Plug the supplied power cord's short barrel plug into the detector's power jack and the longer barrel plug into the cigarette-lighter plug. Then plug the cord's cigarette-lighter plug into your vehicle's cigarette-lighter socket.

Note: 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 cigarette-lighter plug and your vehicle's fuse block (see "Replacing the Fuse").
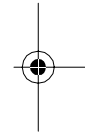
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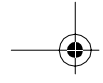
OPERATION

TURNING THE DETECTOR ON AND OFF

To turn on the detector, tap **P/V**.

The detector sounds a distinctive tone for each band as a self test (laser, Ka, K, X, and road hazard, in order). Then all indicators turn off except the power indicator, and the detector returns to the same operating modes as the last time you used it.

To turn off the detector, tap **P/V** again.

ADJUSTING THE VOLUME

To increase the detector's volume, press and hold down **P/V**. The detector sounds tones and lights the signal strength meter to indicate the relative volume level. To decrease the detector's volume, release and immediately press **P/V** again.

12
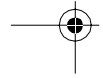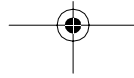
SELECTING THE CITY AND HIGHWAY MODES

In the city mode, the detector requires a stronger X-band signal before it sounds an alert. This eliminates responses to most false sources, such as automatic door openers and alarm systems. However, the signal strength meter continues to react immediately to X-band signals to keep you quietly informed. The city mode has no effect on K, Ka, laser, or road hazard signals.

To select the city mode, press **CTY** until the C indicator turns on.

The highway mode provides maximum sensitivity for open-road driving.

To select the highway mode, press **CTY** until the C indicator turns off.

AUDIO MODES

Note: Laser alerts are not affected by the audio modes.

While the audio alert is sounding a radar or road hazard alert, you can press **AUD** to temporarily silence the detector. The detector returns to normal operation after the radar signal stops.

13
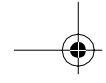
You can change the alert pattern to sound several X, K, or Ka tones followed by muted clicking by pressing **AUD** when no alert is sounding. The clicking becomes more rapid as the radar signal strength increases.

RECEIVING AND IDENTIFYING RADAR, LASER, AND ROAD HAZARD SIGNALS

When you turn on your detector, it sounds alert tones in the following order: laser, Ka, K, X, and road hazard.

Your detector gives different audible alarms for each signal. In addition, the alert tone pulse rate increases with signal strength.
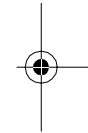
When your detector senses instant-on radar, it sounds an intense, 2-second X, K, or Ka burst and flashes all signal strength and laser indicators.

When your detector senses a road hazard transmitter, it flashes all indicators and sounds the road hazard alert.

Note: Your detector does not detect X, K, Ka, or laser signals when it is sensing a VG-2 radar-detector detector.

14
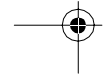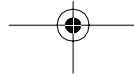
TROUBLESHOOTING

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

If the detector does not turn on:

• Be sure all power connections are secure.

• Check the fuse that controls power to the cigarette-lighter socket. See your vehicle's owner's manual.

• Check the fuse in the cigarette-lighter plug. See "Replacing the Fuse."

• The cigarette-lighter socket might be dirty. Clean it to give a good, clean connection.

   Caution: Do not place any metal object other than the cigarette lighter or a cigarette-lighter plug in the cigarette-lighter socket. Doing so could blow a fuse in your vehicle or cause the metal object to become very hot.

If the detector gives a false alert when the vehicle hits bumps in the road:

• Check the power connections.

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If the detector gives a false alert when you use accessories such as power windows, motorized mirrors, brakes, and so on:

- Check the vehicle's electrical system, including the main battery cable and alternator connections.

- Install a filter capacitor (1,000 µf, 35 volts, such as Cat. No. 272-1032) on the back of the cigarette-lighter socket, across the power connections.

If 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, or might be using instant-on radar and not have the radar gun triggered (see the separate booklet *Questions and Answers About Vehicle Speed Detection*).

- Police might be using VASCAR-type speed detection (see the separate booklet *Questions and Answers About Vehicle Speed Detection*).

If the detector has poor laser detection range:

- Be sure the laser detection lenses are not blocked.

- Use lens-cleaning solution to clean the laser detection lenses.

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REPLACING THE FUSE

If the detector stops operating, check the fuse in the DC power cord's cigarette-lighter plug. If it has blown, follow these steps to replace it.

1. Carefully unscrew the tip of the cigarette-lighter plug.

2. Remove the tip from the cigarette-lighter plug, then remove the old fuse.

    Note: The tip is in two pieces. Take care not to lose either piece or the spring inside the holder.

3. Replace the fuse with a 1-Amp, 5×20 mm, fast-acting fuse (Cat. No. 270-1049).

    Caution: Using a fuse that does not meet these ratings or defeating the fuse protection can damage your detector or the vehicle's electrical system.

4. Press the cigarette-lighter plug's tip down into the body, then screw it back in.

    Caution: Be sure you press the cigarette-lighter plug's tip down before screwing it in, or you might damage the plug.
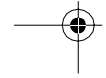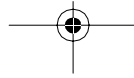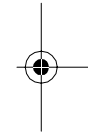
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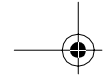
PATENTS

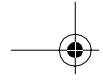This radar/laser detector is protected under the following patents.

United States:	4,572,593
	4,630,054
	4,961,074
	4,952,936
	5,402,087

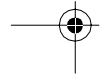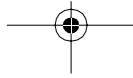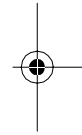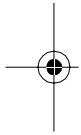| Canada:	1,187,586
	1,187,602
	1,295,714
	1,295,715

Other patents pending.
Tracor Aerospace patents pending.

18

NOTES

RADIO SHACK LIMITED WARRANTY

This product is warranted against defects for 1 year from date of purchase from Radio Shack company-owned stores and authorized Radio Shack franchisees and dealers. Within this period, we will repair it without charge for parts and labor. Simply **bring your Radio Shack sales slip** as proof of purchase date to any Radio Shack store. Warranty does not cover transportation costs. Nor does it cover a product subjected to misuse or accidental damage.

EXCEPT AS PROVIDED HEREIN, RADIO SHACK MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WAR-RANTIES CONTAINED HEREIN. Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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