Introduction

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NOTE Some states prohibit the use and/or possession of the radar detection units. Check local laws before installation or traveling.

This manual contains important information regarding the proper installation, safe operation and maintenance of your Fair Warning radar detector. We urge you to read this manual completely, understand all components of your detector.

CAUTION Does not mean that there is the possibility of damage to the radar detector and related components.

NOTE Indicates points of particular interest for more efficient and convenient installation and operation.

First, we recommend that as you unpack your radar detector, use pages 3 and 4 to study and recognize the various components.
Part Identification

1. RADAR DETECTOR
2. SWITCH & LIGHT PLATE
3. HORN
4. HARD TONNEAU COVER FOR RADAR
5. HORN BRACKET
6. GASKET
7. LOCK ASS'Y
8. KEY
9. CABLE CLAMP
10. IN-SPLICE
11. TWO-IN-ONE SPADE CONNECTOR
12. THUMB SCREW
13. AZTEC WASHER
14. MOTORCYCLE CABLE
15. CAR CABLE
16. HORN ATTENUATOR CAP

Replacement Parts
TONNEAU COVER ........... 11 022 01 76
RADAR DETECTOR .......... 13 004 00 16

The Fair Warning detector is totally automatic and has no range/gain control. It has only four functions which you must be familiar with. (Illus. a)

1. Pilot Lamp (green)
2. Alarm Lamp (red)
3. Control Switch (left-city; right-highway; center-off)

The control switch moved to the CITY mode causes the ALARM lamp to go on for about one second. After the alarm passes only the PILOT lamp will remain glowing. The same events occur when the detector is placed into the HIGHWAY mode by moving the switch to the extreme right except that the alarm is given for about three seconds.

HIGHWAY mode: Long test; CITY mode: Short test. These events are a self-test feature that tests many of the internal circuits, and gives you reasonable assurance that the detector is functioning properly.

Installation

NOTE: All fairings are supplied with the necessary wires (Windjammer III, SS, IV, Vindicator, II and Kawasaki by Vetter fairings).

1. Located in the left pocket you will find the cigarette lighter hook-up. Remove the fuse from the fuse holder to prevent a possible short during the power hook-up.

2. Disconnect the short red power wire from the cigarette lighter (if lighter is installed).

3. Install the provided inline splice as illustrated (mid-way between spade and fuse cap). Snap the connector closed with pliers making sure the insulation on the two wires have been cut through. (Illus. b)
4. Reconnect the short section to the cigarette lighter (if the lighter is installed).

5. Hook up the fairing's ground wire at the side of the cigarette lighter using the provided two-in-one spade connector. (If no cigarette lighter is used simply connect the terminals together using the two-in-one connector and cover with tape.) (Illus. d)

6. Route the power cable from the left pocket to the right through the front of the fairing.

7. Replace the fuse and hook up the fuse cap to the fuse holder.

8. Plug detector into the power cable.

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**Final Adjustments**

1. Check radar detector unit/tonneau cover for proper fit.
   - Slide the hard tonneau cover down into place (cover clip will snap down snug into fairing).
   - When locking the cover, there should be moderate key movement resistance. Too much or too little resistance indicates a need for lock cam adjustment. (Illus. d)

2. Check the thumb screw on the top of the tonneau pocket for tightness (don't overtighten). Periodically check for tightness.

3. Use only powdered graphite in the lock itself for lubricant.

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**Removal**

The Fair Warning detector is removable from the tonneau cover and can be used in your auto also. Please use the following instructions for removal.

1. Remove the hard tonneau cover from the fairing. Unplug detector power cable.

2. Remove the black thumbscrew from the tonneau cover.

3. Push the detector unit out of the tonneau cover (it is held securely by a foam gasket).

4. Lift the bracket and remove the horn.

5. Use the provided horn attenuator cap on the horn to reduce its volume in your auto.

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**NOTE** The detector should function the same as when used in your fairing.
6. Mount the detector in your auto by setting it on the dash or using the provided threaded inserts (1/4" x 20) Molly nuts) on the sides of the can. Bolts need not extend more than 1/4" into the can.

7. The detector needs a clear unobstructed view (metal disrupts antenna reception). Use the provided automobile power cable and plug the detector into the cigarette lighter.

8. When remounting the detector into the tonneau cover:
   - Lift the bracket and replace horn, pressing it firmly into the foam gasket.
   - Route the short cable under the bracket (away from the front of the antenna).
   - Firmly press the detector into the foam gasket and carefully thread the black thumb-screw into the can. Tighten, but do not overtighten.

A motorcycle with an angular fairing, like a Windjammer is actually less visible to radar than a motorcycle without a fairing. Thus the motorcycle with the fairing must be closer to the same radar trap before its speed may be read than a motorcycle without a fairing. (Illus. e)

NOTE With the new police pulsed radar, detection can possibly be avoided. Decrease your speed rapidly at the first warning at approximately 3 (or more) miles per hour per second to a legal speed limit. Always be aware of all traffic around you.

It is not uncommon for the most conscientious and safety minded motorcyclist to slip over the speed limit after many hours of drudgery freeway driving and then get nailed in a radar trap. Hopefully the Fair Warning detector will minimize this type of mishap. (Illus. f)

Approaching motorcycle with detector can detect radar trap over a mile away. (Poor conditions).

The Fair Warning detector is not intended to assist you in breaking the law by assisting you in avoiding detection by police radar. It is intended to remind you to control your speed as you descend hills or approach curves where the police often set up radar traps.

Police radar have 1/4 mile range (good conditions).

Patrol car equipped with radar.
The radar transmitting antenna spreads out in a cone shape of about 30°. This means that the radar receiver is getting echoes from all traffic within 30°. Thus, the target which has the greatest reflectivity and the largest optical size at a given range will have its speed recorded as it returned the strongest echo. Thus, radar does not necessarily record the speed of the closest target.

(ILLUS. 9)

Radar energy is like light and travels in a straight line. Many people are under the illusion that radar traps cannot be detected before cresting a hill or rounding a curve. As indicated by Illustration b, this is found to be false. The explanation for this is Scatter. Scatter is the process where the microwave energy, like light, hits particles of dust in the air and is bounced back (scattered) in all directions at greatly reduced energy levels.

It has been found that police radar directed straight up in to the sky can be detected by the Fair Warning system up to a mile away.

Troubleshooting and Maintenance

If your problem is electrical, check your color code to ensure the proper wires have been connected. If no power is getting to the detector (green light should light), check to see that the wiring harness is making a good connection. If still no power is getting to the detector, check the motorcycle's owner's manual for determining the cause of possible fuse failure before replacing the fuse. The next step is to check the in-line splice for a good contact. This is done by reversing the steps to connect it. Check the wire to make sure the tab has cut through the insulation to the wire itself. Resnap the connector. A loose spade connector can be improved by unplugging the connector and making the female smaller by the use of pliers then reconnecting it.

CAUTION

The Fair Warning detector is weather resistant, but we advise you to remove the detector and replace the original tonneau cover while washing your fairing.

NOTE

Any obstruction in front of the Fair Warning detector will reduce its range. Metal or metallic substances will block radar wave detection. Do not store tools or silver objects (with metallic pigments) in front of the Fair Warning detector.

Customer Service

If there are any problems that cannot be solved by yourself, contact your dealer. If your dealer is unavailable, contact the Customer Service Department, Rantoul, IL 61866 (217) 893-3900.
Limited Warranty

This warranty applies to products manufactured or distributed by Vetter Corporation, Rancho, IL 60662, and sold by authorized dealers within the United States, Puerto Rico, and the Virgin Islands. It is given to the first retail purchaser only and is not transferable to subsequent owners.

WARRANTY OBLIGATION: Vetter Corporation warrants that its products, or one of its authorized dealers, will repair or, at its option, replace any part proven to be defective in materials or workmanship within six (6) months (limiting mileage) of the date of purchase. Parts repaired or replaced under this warranty are warranted only during the balance of the original warranty period. This warranty does not include any labor charges for removing damage, repair, removal or installation.

EXCLUSIONS: This warranty is void if a product has been misused, neglected, damaged by an accident, altered, damaged by exposure to gasoline, brake fluid, or any other substance which will damage the product. This warranty does not cover failure or damage due to alteration, repair, or installation of parts not manufactured by Vetter Corporation or any other person or company.

DISCLAIMER OF CONSEQUENTIAL DAMAGES AND LIMITATIONS: Vetter Corporation shall not be liable under any circumstances for any consequential damages, loss of use, commercial loss or loss of goodwill caused by any product failure. The use of any part not manufactured by Vetter Corporation will void this warranty. The warranty is limited to the replacement of the original part and does not cover labor or transportation costs.

IMPORTANT: Some states do not allow disclaimer of consequential damages or limitation of implied warranty. In these states, this warranty gives you specific legal rights and you may also have other rights which vary from state to state.

To Obtain Warranty Service: Information you must provide when filing claim 1. Name, mailing address and telephone number. 2. Selling dealer's name and address. 3. Serial number on serialized products. 4. Model and year of motorcycle. 5. Date product was purchased. 6. Date and mileage at failure. 7. Description of the problem.

Steps to Take: 1. Contact or take your product to an authorized dealer (preferably your selling dealer) at your expense. 2. If you are unable to obtain warranty service, or should your warranty claims be denied for reasons that you consider unjustifiable, contact the dealer or Vetter Corporation at 60662, (575) 937-8000. At this point, you must be prepared to return the part in question to the dealer for evaluation.

Your warranty is subject to the terms and conditions specified in this warranty statement. Any attempt to alter, modify, or tamper with any part of your motorcycle, or failure to follow the instructions provided in this manual, will void this warranty.

September 30, 1979
Vetter Corporation

WARNING

INSTALLATION — Improper installation can cause an accident. See your Owner's Manual and Mounting Instructions.

MODIFICATIONS — To the fairing or mounting hardware may render your motorcycle unsafe.

PROTECTION — This fairing is designed to provide maximum protection to you from the elements. It is not intended to protect you in an accident.

WINDSHIELD — All windshields can break, which may result in injury. Replace a cracked windshield before riding your motorcycle.

NOTE: Since your tonneau cover was removed with the fairing's maintenance decal we have reprint it here for your reference.

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