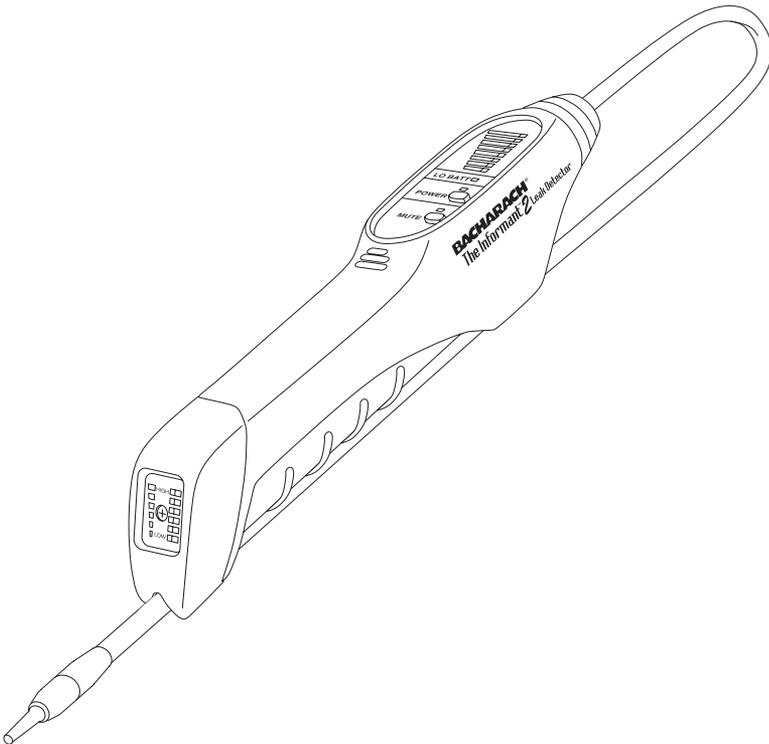


# The Informant<sup>®</sup> 2

## Refrigerant / Combustibles Leak Detector

Instruction 19-9211  
Operation & Maintenance

Rev. 4 – January 2009



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### Declaration of Conformity

Manufacturer's name:	Bacharach, Inc.
Manufacturer's address:	621 Hunt Valley Circle New Kensington, PA 15068
European operations:	Bacharach Europe Sovereign House, Queensway Leamington Spa Warwickshire CV31 3JR United Kingdom
Product name:	The Informant 2 Leak Detector conforms to the following specifications: European Directive 89/336/EEC EN 50081-1: 1992 (Emissions) EN 50082-1: 1998 (Immunity) EN 61000-4-2: 1995 (Electromagnet) EN 61000-4-3: 1995 (Electromagnet)

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# Contents

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<b>Introduction .....</b>	<b>1</b>
<b>Features .....</b>	<b>2</b>
<b>Technical Characteristics.....</b>	<b>3</b>
<b>Operation .....</b>	<b>5</b>
Battery Installation .....	5
Installing the Sensor .....	6
Refrigerant Sensor Installation .....	6
Combustibles Sensor Installation .....	6
Turning the Detector ON / OFF .....	8
Low Battery Indication .....	9
Audible Indicator Mute .....	9
Procedure for Locating a Gas Leak .....	9
Sensor Failure Indication .....	10
False Refrigerant Indication .....	11
Refrigerant Sensor Flooding Indication .....	11
SAE Refrigerant Leak Detection Tips .....	11
<b>Maintenance.....</b>	<b>13</b>
Routine Maintenance .....	13
Probe Filter Replacement .....	13
Sensor Replacement .....	14
Probe Assembly or Fan Replacement.....	15
<b>Troubleshooting Guide.....</b>	<b>19</b>
<b>Parts &amp; Service .....</b>	<b>21</b>
Complete Kits .....	21
Optional Accessories .....	22
Replacement Parts .....	22
Sales/Service Centers.....	23

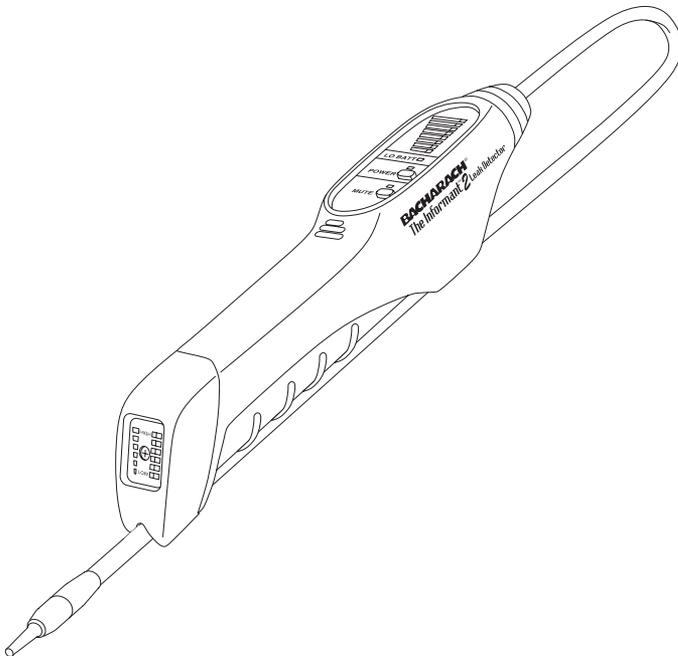
**Notes:**

# Introduction

The Informant 2 Dual Refrigerant / Combustibles Leak Detector (Figure 1) is a portable, battery powered instrument designed to pinpoint the location of either refrigerant or combustible-gas leaks using separate, interchangeable sensors. The type of gas detected depends on the sensor installed.

The detector is designed to be quickly responsive, even when high levels of background vapors or gases are present. No manual sensitivity adjustments are necessary during the inspection process.

The Informant 2 is suitable for HVAC Service Technicians, Gas Utility Personnel, Automotive Service Facilities, and Plant Maintenance Departments who are in need of a small, lightweight and rugged instrument that is capable of pinpointing small to large refrigerant leaks as those found in air-conditioning units, and automobile engine compartments, as well as locating combustible gas leaks in residential appliances and furnaces, industrial heating units, and gas distribution equipment.



**Figure 1. The Informant 2 Leak Detector**

# Features

- Detects the presence of either refrigerants or combustible gases (with appropriate sensor installed)
- Sensors that represent the latest advancements in sensor technology
- Microprocessor-controlled circuitry that guarantees accuracy and reliability
- Dual bar-graph LED's provide visual indication of the refrigerant/combustibles level from a wide variety of viewing angles
- Audible refrigerant/combustibles level indicator with mute feature
- Flashing probe tip whose flash rate varies in accordance with changes in the detected refrigerant/combustibles level
- Automatic zero and background compensation that allows a leak to be quickly found in contaminated atmospheres without requiring manual sensitivity adjustments
- Flexible probe that allow it to be either “docked” in its storage position for close-up leak testing, or unfolded to its maximum length of 20 inches (508 mm) for locating leaks in hard-to-reach areas
- Long-life fan provides positive airflow past sensor resulting in a faster response time
- Filter in probe tip prevents water from reaching sensor
- One-handed operation
- No calibration required
- Batteries included
- Optional protective rubber boot, includes a cavity that accommodates a Maglite® flashlight
- One year warranty
- Extended warranty available
- Made in U.S.A.

# Technical Characteristics

Power .....	Four 'AA' Alkaline Batteries
Warm-Up Time .....	10 seconds
Gases Detected:	
Refrigerants .....	All CFC, HCFC and HFC refrigerants including: R-12, R-22, R-123, R-134a and blends R-404A, R-408A, R-409A, and R-410A (i.e., any refrigerant containing Chlorine, Fluorine or Bromine gas)
Combustibles .....	All combustible gases and vapors
Response Time .....	0.2 second
Sensitivity:	
Refrigerant .....	0.5 oz/year (14 g/yr) of R-134a (hardest to detect refrigerant) as detected by moving probe tip at 2" (50 mm) per second, 0.1" (3 mm) above leak source. A leak rate of less than 0.25 oz/year (7 g/yr) can be detected when probe tip is held steady over leak source for at least 5 seconds.
Combustibles .....	50 ppm Methane, minimum
Sensitivity Adjustment .....	Automatic
Battery Life .....	4–5 hours, under typical intermittent operation
Sensors:	
Combustibles .....	Semiconductor type with a typical 5 year life span, plug-in replacement
Refrigerant .....	Heated Diode type with a typical life span of 150 hours or 1 year of normal use, plug-in replacement
Probe .....	Flexible gooseneck, 20 inch (508 mm) maximum length [reduces to 3 inches (76 mm) when wrapped around instrument], includes integral sensor, filter, and LED

Visual and Audible Indicators:

- Power On..... Green LED
- Low Battery ..... Red LED
- Mute ..... Amber LED
- Relative Gas Level..... The detector responds to increasing gas levels by activating its visual and audible indicators as follows:

**Visual** – Dual LED bar-graphs (located on the top and rear of the detector) begin to progressively glow in series. In addition, an LED located in the probe tip begins to increase its blink rate from an idle rate of once-per-second.

**Audible** – The audible indicator’s tick rate begins to increase from its idle rate of one-tick-per-second.

- Sensor Failure ..... The middle gas-level LED glows steady

Switches:

- Power ..... Toggles detector ON/OFF
- Mute ..... Toggles audible indicator ON/OFF

Sampling System Flowrate ..... 40 to 50 cc/min with sensor installed

Weight ..... 0.86 lb (0.39 kg) w/ batteries

Size (excluding probe) ..... 1.75W x 9.62L x 2.25H inches  
(44.5 x 244.3 x 57.2 mm)

Operating Environment:

- Position ..... Any
- Temperature ..... 32 to 122 °F (0 to 50 °C)
- Humidity ..... 15 to 90% RH, non-condensing

Approvals:

- Refrigerant ..... UL listed in accordance to SAE J1627
- Combustibles ..... MET lab certified to UL913, intrinsically safe for use in Class I, Division 1, Group D hazardous areas

CE Mark ..... Independently tested

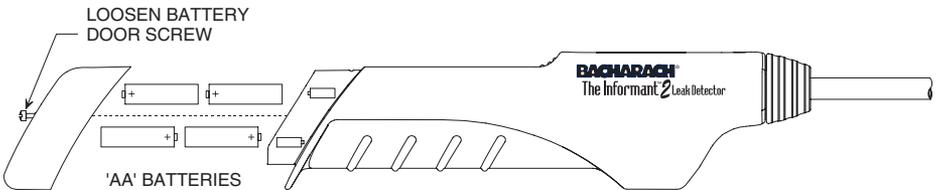
# Operation

## Battery Installation

**WARNING!** *Explosion hazard. To reduce the risk of igniting a flammable atmosphere, batteries must only be changed in an area known to be non-flammable.*

**Note:** *To maintain agency approval, use only the following types of 'AA' batteries: Energizer E91; Duracell MN1500; Rayovac 815; and Panasonic AM-3PI.*

1. See Figure 2. Using a #1 Phillips screwdriver, first loosen the battery door screw located at the rear of the detector; then remove the door.
2. Install four 'AA' alkaline batteries into the detector, observing the polarity markings that are molded on the side of the case.
3. Reinstall the battery door and tighten its screw.



**Figure 2. Battery Installation**

## Installing the Sensor

Before leak testing can begin, the appropriate sensor must be installed. If you have a combustibles-only or refrigerant-only detector, then simply install the sensor that was supplied with the detector. If, however, you have a dual detector, then install the sensor that corresponds to the gas that will be detected during the inspection process.

For the detector to maintain agency approval, the blue probe tip must be used with refrigerant sensor 19-0510, while the red probe tip must be used with combustibles sensor 19-0499.

The color-coded probe tips allow an operator to easily identify which sensor is installed — “blue” for refrigerants, and “red” for combustibles.

Note that for dual detectors, the red probe tip will not screw onto a probe that has a refrigerant sensor installed. This feature is to safeguard against the possibility of an operator mistakenly thinking that a detector with a refrigerant sensor is configured to detect combustibles. Refer to the WARNING below.

### **Refrigerant Sensor Installation**

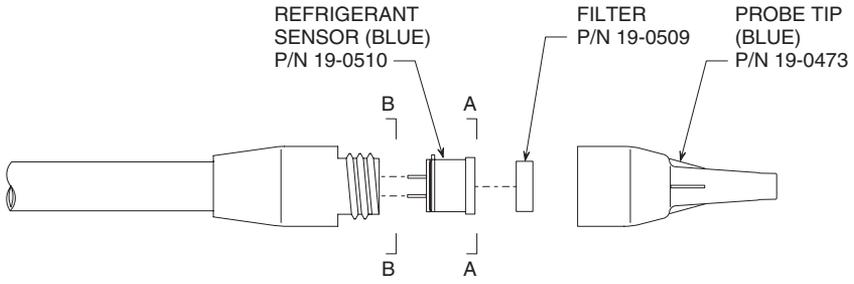
Install the refrigerant sensor, filter, and “blue” probe tip onto the end of the detector’s flexible probe as shown in Figure 3. Observe the blue color coding on both the sensor and probe tip.

**WARNING!** *Explosion hazard. DO NOT use the Informant 2 with its **refrigerant** sensor installed in an area that is classified by the National Electrical Code as being a hazardous location where a potential for explosion or fire exist because of flammable gases or vapors in the atmosphere.*

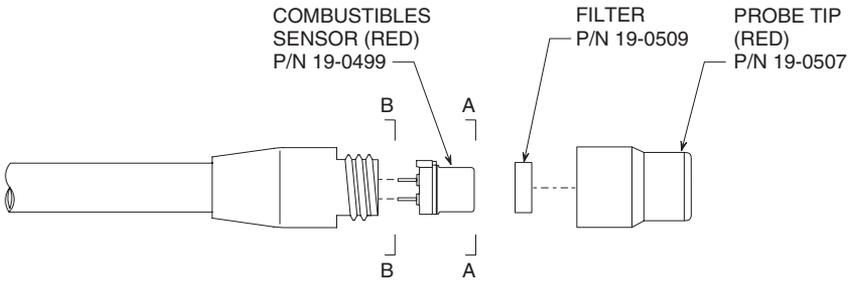
### **Combustibles Sensor Installation**

Install the combustibles sensor, filter, and “red” probe tip onto the end of the detector’s flexible probe as shown in Figure 3. Observe the red color coding on both the sensor and probe tip.

**Note:** *The Informant 2 is intrinsically safe only when its combustibles sensor is installed.*



REFRIGERANT SENSOR



COMBUSTIBLES SENSOR

LINE UP TAB ON  
SENSOR WITH  
NOTCH IN SENSOR  
HOUSING

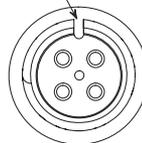
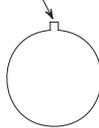


Figure 3. Sensor Installation

# Turning the Detector ON / OFF

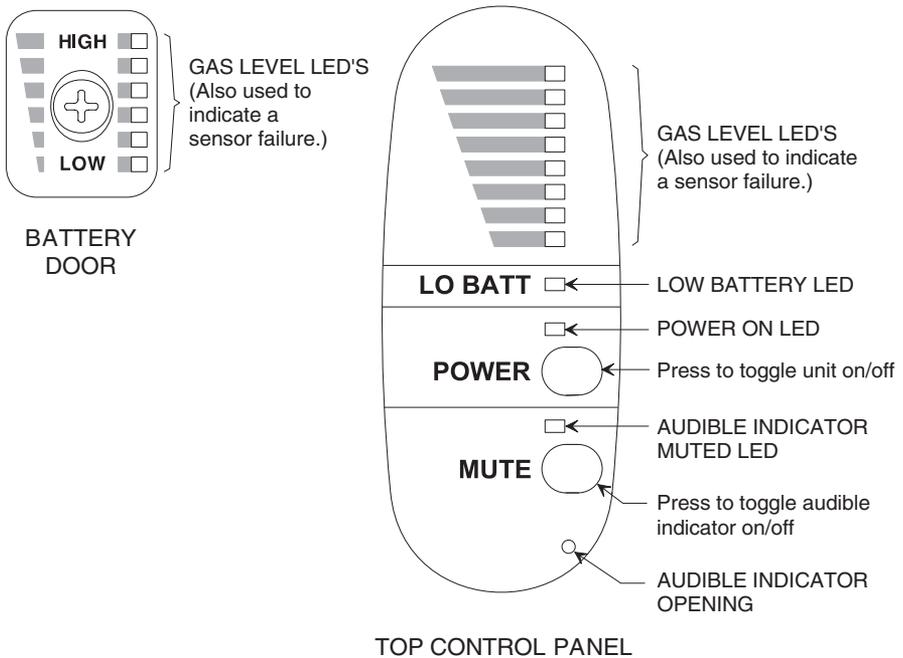
See Figure 4. The detector is toggled ON and OFF by pressing the **POWER** button.

When first turned on, observe that the Power LED glows and that all other LED's are tested by being turned on for 1 second.

The detector requires 10 seconds to warm up. After which time all LED's should be off except for the Power LED, along with the probe tip blinking and audible indicator ticking at approximately once-per-second.

Note that during the warm-up period, the detector has zeroed out any background concentration of vapors or gases that were present in the area.

After the detector is turned on and allowed to warm up, it is ready to perform leak testing as described in Section *Procedure for Locating a Gas Leak*.



**Figure 4. Controls and Indicators**

## Low Battery Indication

A low-battery condition is indicated when the **LO BATT** LED glows. There will be approximately 20 minutes of full operation time remaining from the time this LED first turns on; after which, the intensity of all LED's and audible output will gradually diminish.

When a low-battery indication occurs, replace the batteries as described under the previous Section *Battery Installation*.

## Audible Indicator Mute

The audible indicator's ticking sound is toggled on and off by pressing the **MUTE** button. Observe that the **MUTE** button's amber LED glows when the audible indicator is turned off.

## Procedure for Locating a Gas Leak

After the detector is turned on and allowed to warm up, observe that none of the gas-level LED's should be glowing. Also note that both the probe tip should be blinking and the audible indicator ticking once per second. All of these indicators show that the detector is currently *not* detecting a *change* in gas concentration.

**Important:** *The detector's function is to detect a **change** in gas levels, and not to make a quantitative measurement of the level. The technique of locating a leak by detecting a change in level allows an operator to quickly locate the source of a leak without making manual sensitivity adjustments, or being concerned about the background vapor or gas level in the surrounding area.*

Leak testing can be performed with the probe either “docked” in its storage position for close-up leak testing, or unfolded to its maximum length of 20 inches (508 mm) for locating leaks in hard-to-reach areas.

Begin leak testing by slowly moving the probe toward the area to be tested. If surfaces are dirty or wet, wipe them off with a clean shop towel to prevent the filter from clogging. Avoid allowing water to enter the probe tip.

When the detector first “sees” an increased gas level, all gas-level LED's immediately glow along with the probe tip blinking and audible indicator ticking at a very rapid rate. If movement of the probe is stopped for more

than 10 seconds, the detector's automatic self-zero feature will cause all gas-level LED's to turn off, along with decreasing the blinking and ticking rate of the probe tip and audible indicator, respectively.

Once the presence of gas has been determined and the detector allowed to self zero, moving the probe *toward* the source of the leak will once again cause the detector to respond in a positive manner. After which, if the probe is moved away from the leak source, the detector will respond with a lower gas-level indication.

**Caution:** *When using the refrigerant sensor, note that exposing this sensor to a steady stream of highly concentrated refrigerant will severely reduce sensor life or damage the sensor. Sensor life is directly proportional to the amount of refrigerant that passes through the sensor.*

*As for the combustible sensor, exposing it to a high concentration of combustible gas may temporarily make the detector less responsive to lower gas levels. If this occurs, move the detector to an area of fresh air for several minutes to purge the sensor of gas.*

Use the following general procedure to pinpoint the source of a leak:

1. Move the probe tip along the lines that are carrying gas and around the fittings until the detector responds in a positive manner.
2. Continue moving in the same direction as long as the detector's gas-level LED's remain at full scale. This indicates that the gas concentration is increasing.
3. Once the source of the leak has been passed, the detector's gas level indicators will all begin to decrease. At this point, reverse the direction of probing. As the probe tip is moved back and forth across the leak, the detector will automatically adjust its sensitivity to allow the user to pinpoint its source.

## Sensor Failure Indication

A sensor failure is indicated by the middle gas-level LED on both displays glowing steady.

Refer to the *Troubleshooting Guide* Section of this manual for information on how to clear this condition.

## False Refrigerant Indication

False refrigerant indications are usually caused by abnormal changes in sensor temperature. These temperature changes are typically due to a sudden change in air flow past the sensor, or the sensor being heated by an outside source. To avoid false refrigerant indications, DO NOT . . .

- allow the probe tip to become clogged with dirt,
- allow the probe's filter to become covered with water,
- use the detector in windy areas,
- move the probe tip back and forth faster than 2" per second,
- allow the probe tip to contact a hot surface.

## Refrigerant Sensor Flooding Indication

When the refrigerant sensor becomes flooded with a high concentration of gas, observe that the gas-level LED's quickly light full scale and then all turn off, leaving both the audible tick rate and probe tip blink rate at elevated levels. When this condition occurs, move the detector to an area of fresh air until all indicators return to their idle state.

## SAE Refrigerant Leak Detection Tips

The following was derived from SAE Surface Vehicle Standard J1628, Technician Procedure for Using Electronic Refrigerant Leak Detectors for Service of Mobile Air-Conditioning Systems:

- The electronic leak detector shall be operated in accordance with the equipment manufacturer's operating instructions.
- Leak test with the engine not in operation.
- The air conditioning system shall be charged with sufficient refrigerant to have a gauge pressure of at least 340 kPa (49 psi) when not in operation. At temperatures below 15 °C (59 °F), leaks may not be measurable, since this pressure may not be reached.
- Take care not to contaminate the detector probe tip if the part being tested is contaminated. If the part is particularly dirty, it should be wiped off with a dry shop towel or blown off with shop air. No cleaners or solvents shall be used, since many electronic detectors are sensitive to their ingredients.

- Visually trace the entire refrigerant system, and look for signs of air-conditioning lubricant leakage, damage, and corrosion on all lines, hoses, and components. Each questionable area shall be carefully checked with the detector probe, as well as all fittings, hose-to-line couplings, refrigerant controls, service ports with caps in place, brazed or welded areas, and areas around attachment points and hold-downs on lines and components.
- Always follow the refrigerant system around in a continuous path so that no areas of potential leaks are missed. If a leak is found, always continue to test the remainder of the system.
- At each area checked, the probe shall be moved around the location, at a rate no more than 25 to 50 mm/sec (1 to 2 in./sec), and no more than 5 mm (0.2 inch) from the surface completely around the position. Slower and closer movement of the probe greatly improves the likelihood of finding a leak.
- An apparent leak shall be verified at least once by blowing shop air into the area of the suspected leak, if necessary, and repeating the check of the area. In cases of very large leaks, blowing out the area with shop air often helps locate the exact position of the leak.
- Leak testing of the evaporator core while in the air conditioning module shall be accomplished by turning the air conditioning blower on high for a period of 15 seconds minimum, shutting it off, then waiting an additional 15 seconds minimum for the refrigerant to accumulate in the case, then inserting the leak detector probe into the blower resistor block or condensate drain hole if no water is present, or into the closest opening in the heating/ventilation/air conditioning case to the evaporator, such as the heater duct or a vent duct. If the detector activates, a leak apparently has been found.
- Following any service to the refrigerant system of the vehicle, and any other service which disturbs the refrigerant system, a leak test of the repair and of the service ports of the refrigerant system shall be done.

# Maintenance

By following the procedures outlined below, The Informant 2 Leak Detector will provide many years of trouble-free and dependable operation.

## Routine Maintenance

- Replace the batteries per Section *Battery Installation* when the **LO BATT** LED glows.
- Periodically check the detector's sensitivity by exposing the sensor to a source of its corresponding gas (either a refrigerant or combustible gas). **DO NOT**, however, check the sensitivity of the refrigerant sensor by cracking open a bottle of refrigerant or Schrader valve and exposing the sensor to a stream of pure refrigerant. This will severely reduce sensor life or damage the sensor.
- Routinely check the probe filter. A dirty filter will lengthen the detector's response time, or prevent the detection of gas if the filter has become clogged with dirt or covered with water. A dirty filter will also shorten the life of a refrigerant sensor, as the result of not allowing enough air to pass over the sensor to keep it cool. Replace a dirty or clogged filter per Section *Probe Filter Replacement*.
- Keep the detector case and probe clean by wiping them with a shop towel. If necessary, moisten the towel with a mild detergent solution. Avoid using any type of solvents that may either attack the detector's ABS plastic case, or leave behind a hydrocarbon residue that may desensitize the sensor.

## Probe Filter Replacement

The probe filter is designed to keep dust, dirt, and water from entering into the sensor area.

Replace the filter whenever it becomes clogged as evidenced by the detector not responding in a positive manner to a known source of gas. If the filter is covered with water, simply remove the filter and dry it off.

Replace the probe filter as follows (refer back to Figure 3):

**Material Required:**

- Probe Filter (refer to Section *Replacement Parts*)

**Procedure:**

1. Turn OFF detector.
2. Unscrew probe tip.
3. Remove filter following the appropriate procedure below:
  - a. *Refrigerant Sensor* — Remove filter from top of sensor.
  - b. *Combustibles Sensor* — Remove filter from probe tip (use a straightened paper clip to poke out filter).
4. Insert replacement filter.
5. Reinstall probe tip.

## Sensor Replacement

Over time a sensor will become less response to gas as it nears the end of its useful life. (The combustibles sensor has a life expectancy of approximately 5 years. The refrigerant sensor's life expectancy is approximately 150 hours or 1 year of normal use, but will vary depending on the amount of refrigerant that passes through the sensor.)

Replace the sensor as follows (refer back to Figure 3):

**Material Required:**

- Sensor (refer to Section *Replacement Parts*)

**Procedure:**

1. Turn OFF detector.
2. Unscrew probe tip.
3. Pull out sensor from its socket and discard.

4. Plug in new sensor, making sure its tab lines up with notch in sensor housing.
5. If necessary, install a new filter per Section *Probe Filter Replacement*); then reinstall probe tip.
6. Turn ON the detector and check that it responds in a positive manner to a source of its corresponding gas.

## Probe Assembly or Fan Replacement

Replace the probe assembly or fan as follows (see Figures 5 thru 8):

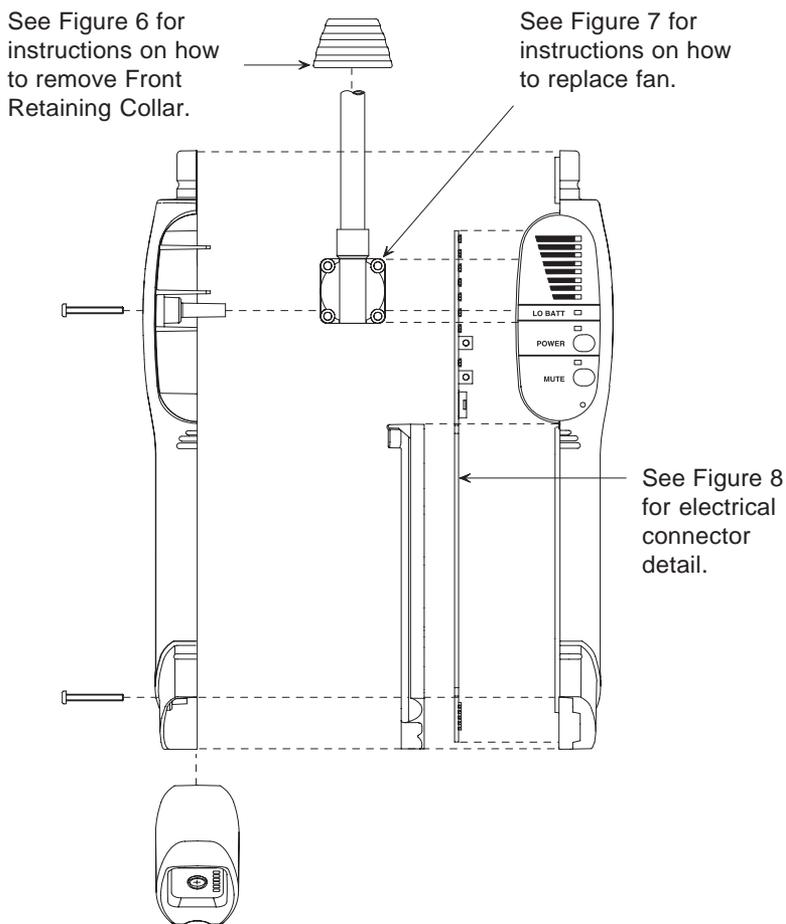
### Material Required:

- Probe Assembly or Fan (refer to Section *Replacement Parts*)
- #1 Phillips screwdriver
- Medium flat blade screwdriver

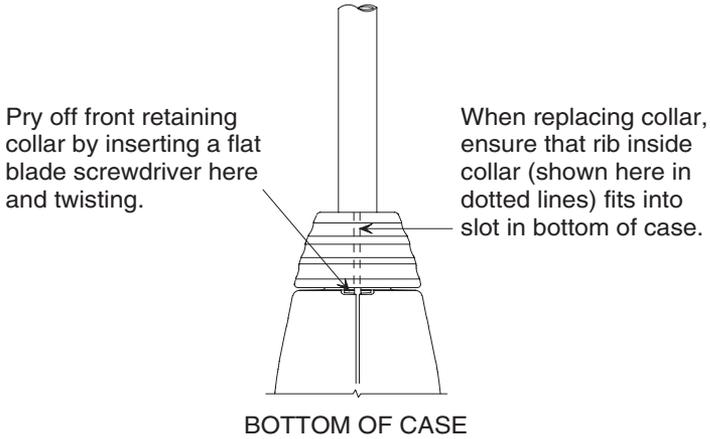
### Procedure:

1. Turn OFF detector; then remove the battery door and batteries.
2. Unscrew probe tip and lay aside.
3. Using a medium flat-blade screwdriver, first pry off the front retaining collar as shown in Figure 6. Then, remove the two case screws and pull the case halves apart.
4. Unplug both the probe and fan connectors from the printed circuit board, **being very careful not to damage the pins on the connector**; then remove the probe assembly from the detector.
5. Remove fan from probe assembly by removing its three screws as shown in Figure 7.
6. Depending on whether the fan or probe assembly is being replaced, perform one of the following:
  - a. *If the fan is being replaced* — Discard the old fan and install a new one using the screws removed in Step 5.
  - b. *If the probe assembly is being replaced* — Install the old fan onto the new probe using the screws removed in Step 5. Also, install the sensor from the old probe assembly into the replacement probe assembly per the previous Section *Sensor Replacement*.

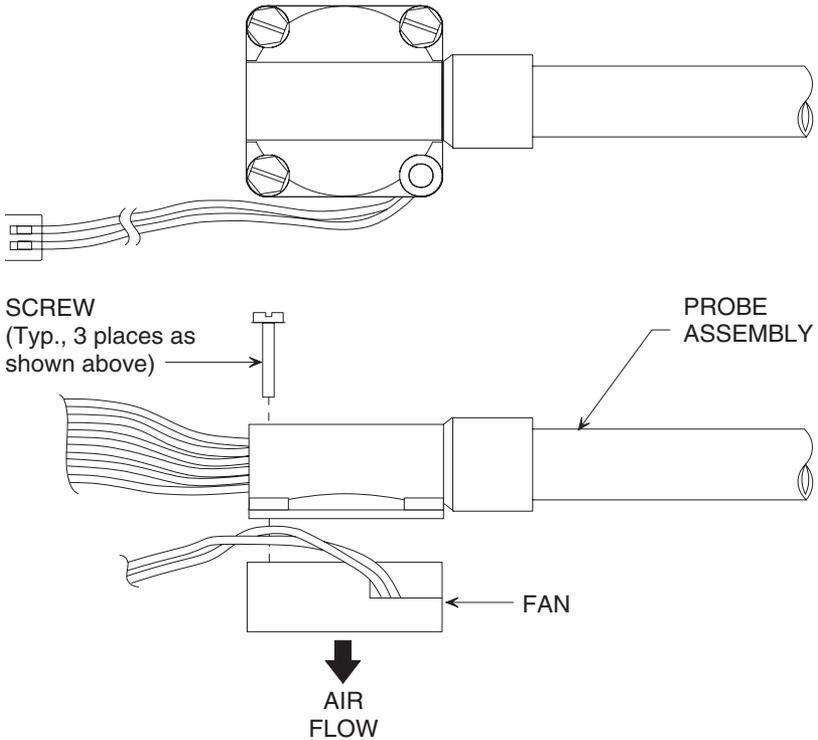
7. Plug both the probe and fan connectors onto their respective header holes on the printed circuit board as shown in Figure 8.
8. Position the probe assembly between the two case halves, routing the fan wires through the notches in the case as shown in Figure 8. Then reassemble the case; push on the front retaining collar; screw on the probe tip; and reinstall the batteries.
9. Turn ON the detector and check that it responds in a positive manner to a source of its corresponding gas.



**Figure 5. Assembly of The Informant 2**



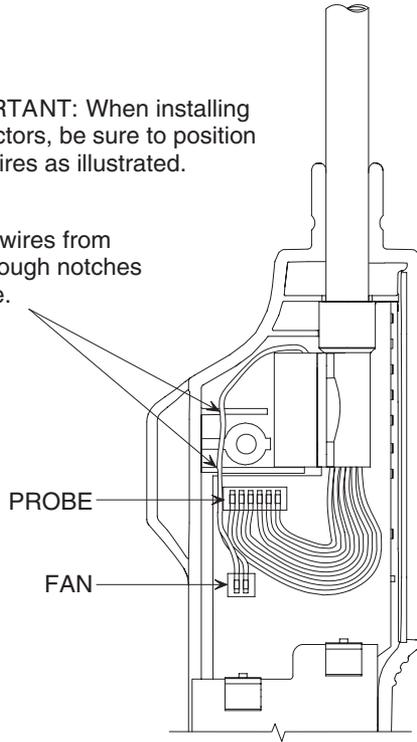
**Figure 6. Front Retaining Collar Installation**



**Figure 7. Fan Installation**

IMPORTANT: When installing connectors, be sure to position their wires as illustrated.

Route wires from fan through notches in case.



**Figure 8. Connector Locations on Printed Circuit Board**

# Troubleshooting Guide

The following table lists the causes and remedies for the most common problems that may occur with the detector.

If the information in Table 1 does not solve the problem, or for help with any problem that is not listed, please contact one of the Bacharach Sales/Service Centers listed in Section *Parts & Service*.

**TABLE 1. TROUBLESHOOTING GUIDE**

<b>Symptom</b>	<b>Probable Cause &amp; Remedy</b>
Instrument does not turn on.	<ul style="list-style-type: none"> <li>a. Batteries are dead or installed backward. Install four fresh ‘AA’ alkaline batteries per Section <i>Battery Installation</i>.</li> <li>b. Possible faulty refrigerant sensor. Remove refrigerant sensor and turn on detector. If detector now turns on, and after warmup shows a bad sensor (see sensor failure indication below), replace sensor per Section <i>Sensor Replacement</i>.</li> <li>c. Loose printed circuit board connector. Disassemble detector and ensure that all connectors are securely attached to the printed circuit board. See Figure 8.</li> </ul>
The middle gas-level LED on both displays glows steady.	Sensor depleted or faulty. Replace per Section <i>Sensor Replacement</i> .
All gas-level LED’s momentarily light full scale and then turn off, leaving both the audible tick rate and probe tip blink rate at elevated levels.	Refrigerant sensor “flooded” with refrigerant. Move the detector to an area of fresh air for about 1 minute, or until all indicators return to their idle state.
Short refrigerant sensor life.	<ul style="list-style-type: none"> <li>a. Probe filter dirty, thus not allowing enough air to flow over the sensor to keep it cool. Replace filter often per Section <i>Probe Filter Replacement</i>.</li> </ul>

**TABLE 1. TROUBLESHOOTING GUIDE (Cont.)**

<b>Symptom</b>	<b>Probable Cause &amp; Remedy</b>
Short refrigerant sensor life (Cont.).	b. Sensor has often been exposed to high concentrations of refrigerant. Avoid sampling pure refrigerant for long periods of time.
Slow gas response time.	a. Probe filter clogged. Replace filter per Section <i>Probe Filter Replacement</i> . b. Sensor nearly depleted or faulty. Replace sensor per Section <i>Sensor Replacement</i> . c. Crack in rubber sheathing that covers the probe’s flexible tube, allowing air to enter through the crack. Replace probe assembly per Section <i>Probe Assembly or Fan Replacement</i> . d. Internal fan defective. Replace fan per Section <i>Probe Assembly or Fan Replacement</i> .
Erratic gas indication.	a. Sensor faulty. Replace sensor per Section <i>Sensor Replacement</i> . b. Loose sensor. Unscrew probe tip and ensure that sensor is being held firmly in socket. c. Loose printed circuit board connector. Disassemble detector and ensure that all connectors are securely attached to the printed circuit board. See Figure 8.

# Parts & Service

## Complete Kits

**Dual Refrigerant/Combustibles Informant 2 Kit:** includes detector, refrigerant and combustible gas sensors, color-coded probe tips, 5 probe filters, instruction manual, 4 ‘AA’ batteries, and a soft carrying case ..... 19-8042

**Dual Deluxe Refrigerant/Combustibles Informant 2 Kit:** includes detector, refrigerant and combustible gas sensors, color-coded probe tips, 5 probe filters, instruction manual, 6 ‘AA’ batteries, soft carrying case, protective rubber boot, and a MagLite®, all packaged in a hard carrying case ..... 19-8045

**Refrigerant Only Informant 2 Kit:** includes detector, refrigerant sensor, color-coded probe tip, 5 probe filters, instruction manual, 4 ‘AA’ batteries, and a soft carrying case ..... 19-8040

**Deluxe Refrigerant Only Informant 2 Kit:** includes detector, refrigerant sensor, color-coded probe tip, 5 probe filters, instruction manual, 6 ‘AA’ batteries, soft carrying case, protective rubber boot, and a MagLite®, all packaged in a hard carrying case ..... 19-8043

**Combustible Gas Only Informant 2 Kit:** includes detector, combustibles sensor, color-coded probe tip, 5 probe filters, instruction manual, 4 ‘AA’ batteries, and a soft carrying case ..... 19-8041

**Deluxe Combustible Gas Only Informant 2 Kit:** includes detector, combustibles sensor, color-coded probe tip, 5 probe filters, instruction manual, 6 ‘AA’ batteries, soft carrying case, protective rubber boot, MagLite, all packaged in a hard carrying case ..... 19-8044

## Optional Accessories

<b>Deluxe Upgrade Kit:</b> includes protective rubber boot, MagLite, 2 ‘AA’ batteries, and a hard carrying case .....	19-8037
<b>Combustible Gas Upgrade Kit:</b> upgrades a refrigerant-only Informant 2 to a dual sensing instrument. Includes a combustible gas sensor, color-coded probe tip, and 5 probe filters .....	19-8047
<b>Refrigerant Upgrade Kit:</b> upgrades a combustible-gas-only Informant 2 to a dual sensing instrument. Includes a refrigerant gas sensor, color-coded probe tip, and 5 probe filters .....	19-8046
<b>Protective Rubber Boot:</b> provides a protective cover for the Informant 2 that includes a MagLite® flashlight cavity (MagLite not included) .....	19-0497
<b>Hard Carrying Case:</b> provides storage for all Informant 2 components .....	19-0501

## Replacement Parts

Fan .....	19-0502
Filter (pack of 5) .....	19-0509
Front Retaining Collar .....	19-0488
Probe Assembly (excluding fan, probe tip, sensor & filter) .....	19-0481
Probe Tip:	
Refrigerant, Blue .....	19-0473
Combustibles, Red .....	19-0507
Screw, Battery Door .....	102-1043
Screw, Case .....	02-7727
Screw, Fan .....	02-2143
Sensor:	
Refrigerant .....	19-0510
Combustibles .....	19-0499
Soft Carrying Case .....	19-0491
Battery Door Assembly .....	19-0591

## Sales/Service Centers

Replacement parts and service can be obtained by contacting one of the following Bacharach Sales/Service Centers:

### United States

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Bacharach, Inc.  
621 Hunt Valley Circle  
New Kensington, PA 15068  
Phone: 724-334-5051  
Fax: 724-334-5723  
Email: help@bacharach-inc.com

### Canada

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Bacharach of Canada, Inc.  
250 Shields Court Unit #3  
Markham, Ontario L3R 9W7  
Canada  
Phone: 905-470-8985  
Fax: 905-470-8963  
Email: bachcan@idirect.com

### México

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Bacharach de México  
Playa Regatas No. 473 Tercer Piso  
Col. Militar Marte  
Delegación Iztacalco, 08830  
México D.F.  
México  
Phones: +52-555-634-7740  
+52-555-634-7741  
FAX: +52-555-634-7738  
Email: bacharachservicio@bacharach.com.mx  
Website: www.bacharach-mexico.com

### Europe

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#### European Headquarters

Bacharach Instruments  
Sovereign House, Queensway  
Royal Leamington Spa  
Warwickshire CV31 3JR  
United Kingdom  
Phone: +44-1926-338111  
Fax: +44-1926-338110  
Email: sales@bacharach-europe.com



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621 Hunt Valley Circle, New Kensington, PA 15068

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Website: [www.bacharach-inc.com](http://www.bacharach-inc.com) • E-mail: [help@bacharach-inc.com](mailto:help@bacharach-inc.com)