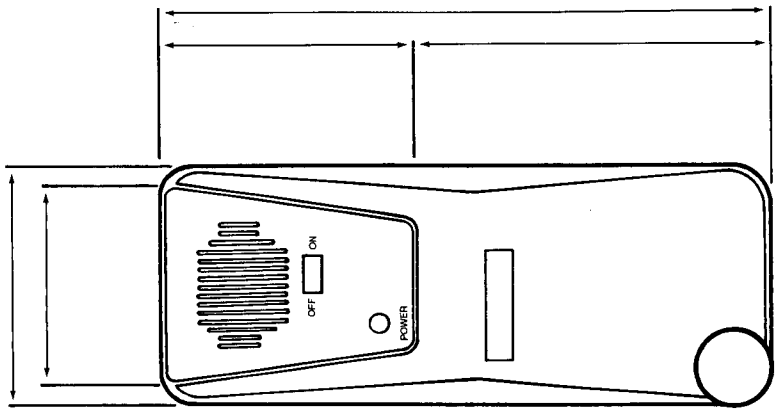
tif 5000

Automatic Halogen Leak Detector

OWNERS MANUAL



CLASS I DIVISION 2 GROUPS A, B, C & D HAZARDOUS LOCATIONS HAND HELD GAS DETECTOR CLASSIFIED BY UNDERWRITERS LABORATORIES, INC.® AS TO FIRE, ELECTRICAL SHOCK AND EXPLOSION HAZARDS ONLY. READ OWNERS MANUAL BEFORE OPERATING.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DE-ENERGIZE UNIT BEFORE REPLACING SENSING TIP OR SERVICING UNIT. USE ONLY WITH 1.5V ALKALINE BATTERIES SIZE C.

General Description

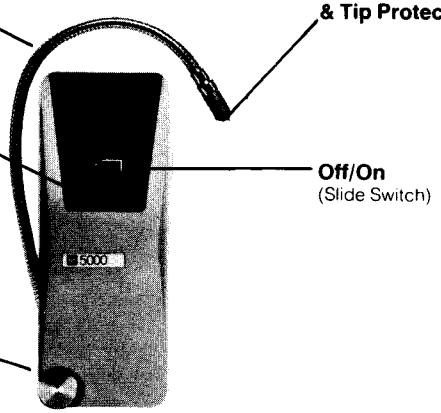
The TIF5000 combines all of the features of TIF's HLD 440 with an automatic ambient control.

This new feature adjusts and corrects for the atmospheric ambient refrigerant in the vicinity of the tip. Entirely automatic, only a simple on-off switch is required. A computer-like beeping sound increases in both speed and frequency as you approach the leak.
Built for the service engineer demanding the last word in electronic leak detection methods.

Features of the 5000 Automatic Halogen Leak Detector

- No calibration required.
- Finds leaks in contaminated atmospheres.
- Super-sensitive: responds to minute traces of R12 (50PPM), ½ oz. yr. leak-rate using LS-20 leak standard.
- Auto-set control: re-sets to any ambient level.
- Cordless: operates on two C cells.
- Sensor not poisoned by large doses of refrigerant.
- Instant on—no warm up.
- Constant power indication.
- No dangerous or poisonous gases are generated.
- Long flexible stainless probe for hard-to-reach areas.
- Made in U.S.A.

The 5000 Automatic Halogen Leak Detector



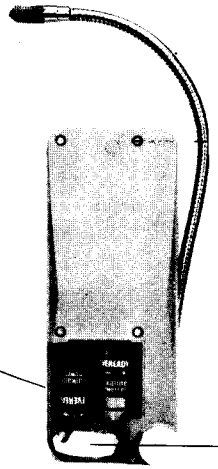
Flexible Probe

Sensing Tip & Tip Protector

Power On Signal
Red L.E.D.

Off/On
(Slide Switch)

Probe Knob
Before rotating flex probe, loosen probe knob 2 full turns counterclockwise.



2 "C" Cell Alkaline Batteries
Remove battery cover and install batteries as indicated in the battery compartment.

Spare Sensing Tip, Tip Protector & (6) Filter Cloths

Operating Instructions

1. Move slide switch to ON position.

2. Begin searching for leaks. The tone frequency and beep rate will increase when halogen gas is detected.

Leak Detection Techniques

1. In areas contaminated by refrigerant turn instrument off and on. The instrument will automatically set itself to the new level.

   Note: The instrument's automatic sensitivity adjustment is entirely controlled by the single on-off switch.

2. In windy areas, a large leak can be extremely difficult to find, because the escaping gas is rapidly carried away from the leak source. Under these conditions, it may be necessary to shield the potential leak area.

3. In a situation when large leaks mask the presence of very small leaks, locate and repair large leaks first. Finding the small leaks will then become an easy task.

Troubleshooting Hints

Erratic Beeping (Check the following)
- Replace tip.
- Look for a source of contamination.
- Follow instructions carefully.
- Red battery indicator light should be lit.

Steady Beeping—but will not pick up leak source.
- Replace tip.
- Check power on indicator.
- If unit still does not pick up leak source, return to factory for repairs.

Batteries
- When your leak detector is turned on, the power on indicator should be lit.
- If the red light is not on, install fresh size "C" alkaline batteries. If the light is on and the unit fails to operate properly, turn the detector off and replace the sensing tip. Remember cold temperature will affect battery strength. If the unit is still erratic return to the factory for repairs.

Applications of the 5000

The 5000 Automatic Halogen Leak Detector may be used on air conditioning and refrigeration systems.

Always be sure your instrument is off when changing tips. To change the sensing tip, turn the tip counter-clockwise. Attach a new tip by turning clockwise on the connector. Do not operate your leak detector until the sensing tip is screwed on finger tight. Use care not to catch perspiration, or grease such as hand cleaner in the slots, while attaching the tip.

Minimize tip contamination from dust and grease by utilizing the tip protector and filter cloth.

Always change filter cloth when new tip has been installed (see Fig. 1).

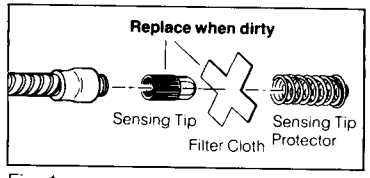


Fig. 1

A spare sensing tip for your 5000 has been supplied and is located in the lower section of the battery compartment. Should you experience any problem in the performance of this instrument, please try changing the tip before sending the instrument back for repair.

To install batteries remove the battery cover on the back of the instrument. Be sure to install batteries as indicated in the battery compartment.

Batteries affect performance. When your leak detector is turned on, the red power indicator should be **lit**. If the red L.E.D. is not on, install fresh and/or tested Size "C" Alkaline batteries. Remember, cold temperatures will affect battery strength.

If the red L.E.D. is on, and the unit fails to operate properly, turn instrument off and replace the sensing tip. If the unit still does not function correctly, return it to the factory for repairs.

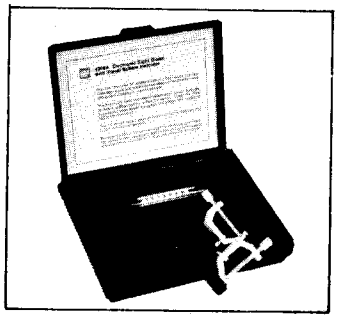
Price Includes	**Part No.**
Carrying Case Extra Sensing Tip, Tip Protector & 6 Filter Cloths 2 "C" Cell Batteries	Part #547
Optional Accessories	
Maintenance Kit (Includes): 2 Sensing Tips 2 Sensing Tip Protectors	Part #544

Other TIF Products

Combustible Gas Detector

This instrument is excellent for pinpointing combustible gas leaks as small as 50-1000PPM. As the combustible gas or vapor source is approached, a "geiger counter" signal increases in frequency and the red lights illuminate in sequence to show the intensity of the leak. It comes with a carrying case, rechargeable batteries and battery charger.

Model No. TIF8800A



Electronic Sightglass with Visual Bubble Indicator

Astounding is what this superb instrument has been called by top air conditioning experts. It's a remarkable new method of determining how to fill a system precisely. It couldn't be easier to use. Automatically tells you when system is full or needs refrigerant.

Model No. TIF4000A

U.S. Patent #4,138,879

Specifications

Power Supply:
Two size "C" Alkaline batteries.
Sensitivity: Automatically set on turn-on.
Operating Temperature Range:
30° to 100°F.
Battery Life:
Approximately 70 hours, normal usage (Alkaline batteries).
Duty Cycle: Continuous, no limitation.
Response Time: Instantaneous.
Warm-up Time: Instantaneous.
Weight:
28 ounces (79 kilograms) with batteries.
Dimensions: 8" x 3" x 1.8"
(20.32 cm x 7.62 cm x 4.57 cm)
Probe Length: 12.5" (31.75 cm)

Limited Warranty and Repair/Exchange Policy

This instrument is designed and produced to provide unlimited service. Should it become inoperative after the user has performed the recommended maintenance, a no-charge repair or replacement will be made to the original owner within one year of the date of purchase. This applies to all repairable instruments which have not been tampered with or damaged. This warranty does not cover consumable items such as batteries, tips and fuses, nor physical damage and wear to components such as probes, sensors and adaptors. For repair service send your tool to the factory address on the back of the Owner's Manual. Repaired or replaced tools will carry a 90-day warranty.