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BEFORE THE PUBLIC SERVICE COMMISSION

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PUBLIC SERVICE
COMMISSION

In the Matter of:

B.T.U. GAS COMPANY, INC.

CASE NO. 2007-00403

Alleged violations of administrative regulation
807 KAR 5:006, 807 KAR 5:022,
807 KAR 5:027 and 49 CFR 191-192

THIRD RESPONSE TO INFORMAL CONFERENCE MEMORANDUM

B.T.U. Gas Company, Inc. files the following information as agreed to
during the informal conference held on July 17, 2008:

Manual and model number of the equipment used for leak surveys.



KAREN CHRISMAN
McBrayer, McGinnis, Leslie & Kirkland
Whitaker Bank Building, Suite 300
P.O. Box 1100
Frankfort, Kentucky 40602-1100
(502) 223-1200
Fax 502 227-7385

CERTIFICATE OF SERVICE

I certify the foregoing Second Response to the Informal Conference
Memorandum has been served by hand delivery, this the 13th day of November,
2008 upon the following:

Stephanie Stumbo
Executive Director
P.O. Box 615
Frankfort, KY 40602-0615

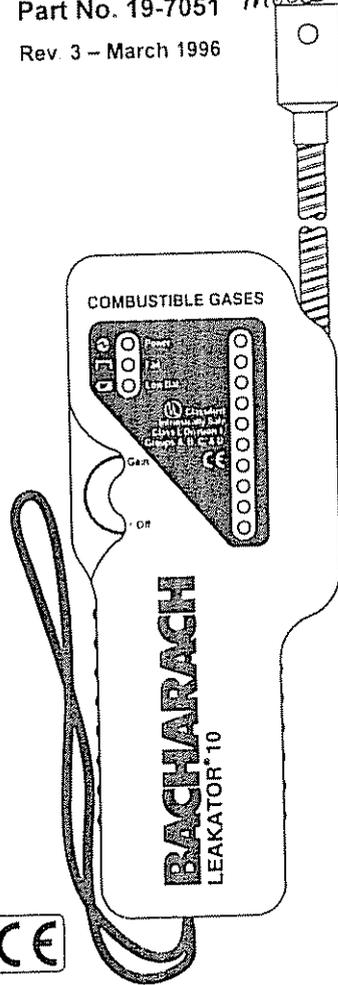


KAREN CHRISMAN

BACHARACH®

LEAKATOR® 10

INSTRUCTION 19-9167
COMBUSTIBLE GAS DETECTOR
Part No. 19-7051 *Model #*
Rev. 3 - March 1996



Holland Supply

520 Enterprise Drive

(614) 888-8727 Westerville, Ohio 43081 Fax: (614) 888-3227

Printed in U S

WARRANTY

Bacharach, Inc warrants to Buyer that at the time of delivery this Product will be free from defects in material and manufacture and will conform substantially to Bacharach Inc's applicable specifications. Bacharach's liability and Buyer's remedy under this warranty are limited to the repair or replacement, at Bacharach's option, of this Product or parts thereof returned to Seller at the factory of manufacture and shown to Bacharach Inc's reasonable satisfaction to have been defective; provided that written notice of the defect shall have been given by Buyer to Bacharach Inc. within one (1) year after the date of delivery of this Product by Bacharach, Inc.

Bacharach, Inc. warrants to Buyer that it will convey good title to this Product. Bacharach's liability and Buyer's remedy under this warranty of title are limited to the removal of any title defects or, at the election of Bacharach, to the replacement of this Product or parts thereof that are defective in title.

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A

Regulator
Declaration

Manufacturer's name:
Manufacturer's address:

European operations:

Product name:

EMC:

Because this instrument contains conditions which are listed to personnel and property understood and utilized properly and is both used and operated by unqualified personnel. A serious and potentially hazardous situation may occur if the instrument is operated and maintained by unqualified personnel.

If, after reading the instructions regarding the operation and maintenance of this instrument, the user requires factory assistance in the

Instruction 19-9167

Leakator 10

Regulatory Information (Europe) Declaration of Conformity

Manufacturer's name: Bacharach, Inc.
Manufacturer's address: 625 Alpha Drive
Pittsburgh, PA 15238

European operations: Bacharach Instruments International
Kongensgade No. 58
DK-6070 Christianfeld
Denmark

Product name: Leakator® 10

conforms to the following product specifications:

EMC: European Directive 89/336/EEC
EN 50081-1 (Emissions)
EN 50082-1 (Immunity)

WARNING!

Because this instrument is used to detect and monitor materials and conditions which are listed by OSHA or others as potentially hazardous to personnel and property, the information in this manual must be fully understood and utilized to ensure that the instrument is operating properly and is both used and maintained in the proper manner by qualified personnel. An instrument that is not properly calibrated, operated and maintained by qualified personnel is likely to provide erroneous information, which could prevent user awareness of a potentially hazardous situation for the instrument user, other personnel and property.

If, after reading the information in this manual, the user has questions regarding the operation, application or maintenance of the instrument, supervisory or training assistance should be obtained before use. Factory assistance is available by calling (412) 963-2157.

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1.0 INTRODUCTION

The Leakator 10 is an i portable instrument desig combustible-gas leaks. Pl heating service contractor who are interested in pin appliances in residential. o tions.

The instrument is supplie case, earphone, 20" probe

The Leakator 10 features:

- Ten bright-red LEDs an visual and audible indic

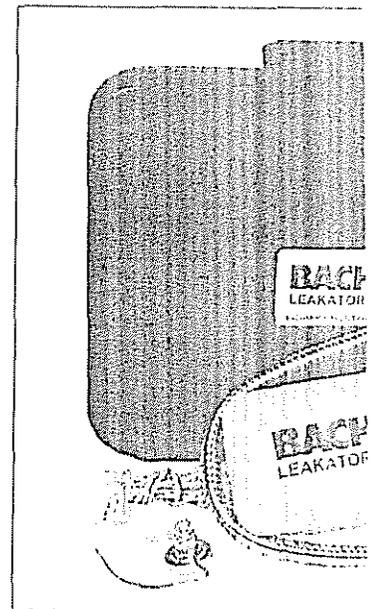


Figure 1 Leaka

1.0 INTRODUCTION

Page

The Leakator 10 is an intrinsically safe, battery-powered portable instrument designed to primarily detect the source of combustible-gas leaks. The instrument is ideally suited for heating service contractors, utility personnel, and other users who are interested in pinpointing gas leaks, and testing gas appliances in residential, commercial and industrial installations

The instrument is supplied with a durable plastic carrying case, earphone, 20" probe and instruction manual

The Leakator 10 features:

- Ten bright-red LEDs and a speaker that provide both a visual and audible indication to the presence of gas

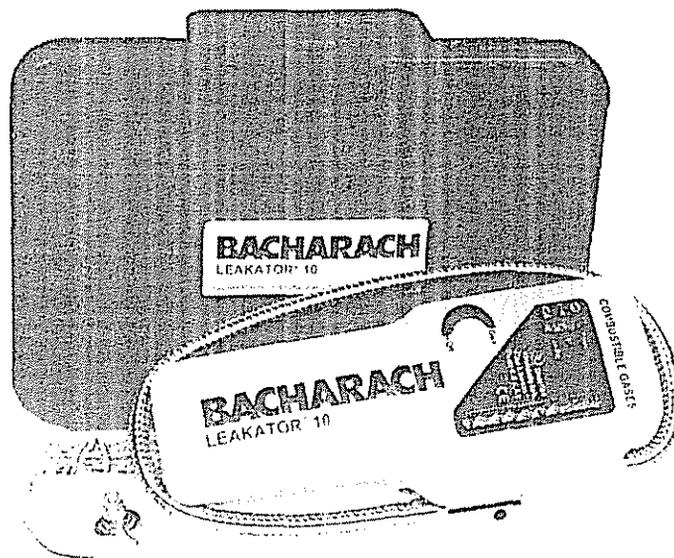


Figure 1 Leakator 10 and Accessories

- Three operation-status LEDs that show power on, sensor operation, and low battery.
- A 20-inch flexible probe.
- Simple thumb wheel on/off and gain control allowing one-handed operation.
- A solid-state sensor that has a typical life of 5 years.
- A battery capacity of 30 hours under normal use conditions.
- The ability to detect natural gas (methane) in concentrations as low as 20 ppm. In addition, the following gases and vapors are also detectable:

| | | |
|-----------|----------------|---------------------|
| Acetone | Ethanol | Industrial Solvents |
| Acetylene | Ethylene Oxide | Paint Thinners |
| Ammonia | Gasoline | Propane |
| Benzene | Hexane | Naphtha |
| Butane | Hydrogen | |

WARNINGS!

For safety reasons, the Leakator 10 must only be operated and serviced by qualified personnel. Read and understand the contents of this instruction manual before operating or servicing.

To prevent ignition of a hazardous atmosphere, do not perform any maintenance work, such as replacing the instrument's batteries, sensor, or sensor-matching resistor, in an area classified as being hazardous.

2.0 TECHNICAL C

Power

Battery Life

Sensor:
Type

Probe

Response Time

Sensitivity

Warm-Up Time

Duty Cycle

Gas Indication

Status LEDs

2.0 TECHNICAL CHARACTERISTICS

Power Five C-size Alkaline Batteries.

Battery Life Approximately 30 hours of continuous operation under normal-use conditions.

Sensor:

Type Solid State, plug-in replacement.

Life Expectancy Typically 5 years.

Calibration No user calibration required.

Probe Self storing 20" (51 cm) flexible probe, includes integral sensor.

Response Time Less than 3 seconds to full scale indication.

Sensitivity 20 ppm Methane.

Warm-Up Time Approximately 10 seconds.

Duty Cycle Continuous with no limitation.

Gas Indication Visual: 10 red ultra-bright LEDs.
Audible: Variable speed ticking sound (earphone provided for use in noisy environments).

Status LEDs Power On (green)
Sensor Failure (yellow)
Low Battery (yellow)

Power on, sensor

allowing one-

5 years

use conditions.

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Weight 17.8 oz (0.5 kg) (w/o batteries)

3.0 BATTERY INFO

Dimensions: 8.5" x 2.25" x 1.75"
(21.6 x 5.7 x 4.4 cm)

Do not replace

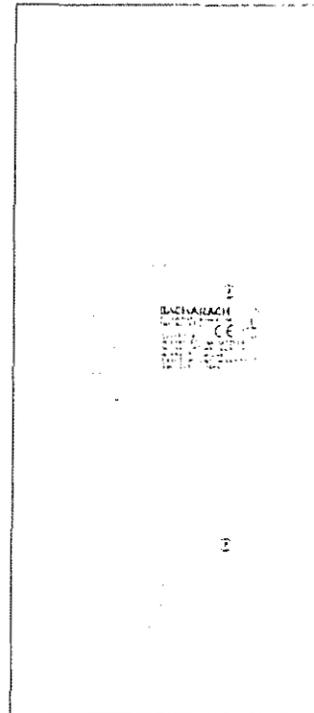
Operating Environment:

Position Any
Temperature 23° to 130°F (-5° to 54°C)
Humidity 10% to 90% RH, non-condensing

*To maintain
NEDA-14A type*

Safety Approvals UL approved, Intrinsically Safe for use in Class I, Division 1, Groups A, B, C and D. CE Mark.

Remove battery cover
C-size alkaline batteries.
ity. Then reinstall batteries.



Figure

10-1

3.0 BATTERY INSTALLATION

WARNING!

Do not replace batteries in a hazardous area.

CAUTION:

To maintain agency approval, use only NEDA-14A type batteries or equivalent

Remove battery cover. Install five (non-rechargeable) 1.5V C-size alkaline batteries per Figure 2 – observe proper polarity. Then reinstall battery cover

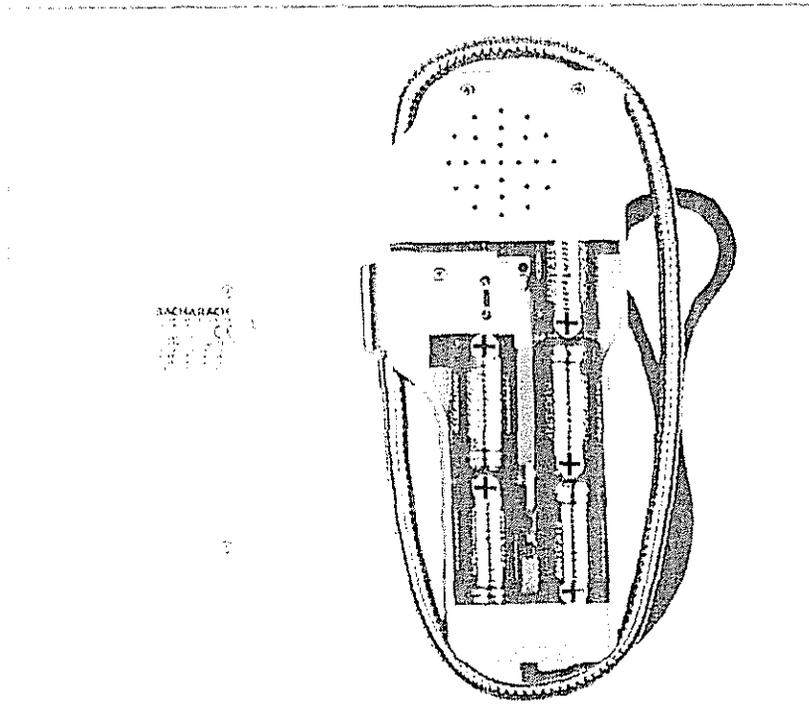


Figure 2 Battery Installation

4.0 OPERATION

4.1 Turning ON the Instrument

Turn ON the instrument by rotating its thumb-wheel switch (Fig 3) clockwise until a click is heard. Observe the following:

- The Power LED lights.
- The Fail LED will light, but should turn off in a few seconds if the sensor is good and properly seated in its socket.
- If the Low Bat. LED is on, replace the batteries per Section 3.0 *Battery Installation*.

After the instrument stabilizes, rotate the Gain control in the direction necessary to cause the bottom Gas Level LED to just turn off. Be sure to always set this control in the same environment you intend to test in.

The instrument is now ready for use.

4.2 Taking a Gas Reading

To verify that the instrument is operating, sample a known combustible gas (e.g., a gas-air mixture from an unlit burner of a natural-gas range). If no response is observed or heard, refer to Section 6.0 *Troubleshooting*.

Important! *The sensor becomes less sensitive after being exposed to an excessive amount of gas. Therefore, after testing the instrument as described above, leave it on for several minutes to restabilize the sensor.*

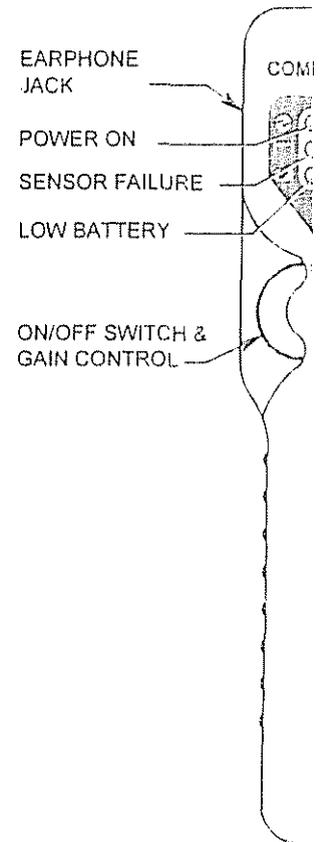


Figure 3. Jack, Co

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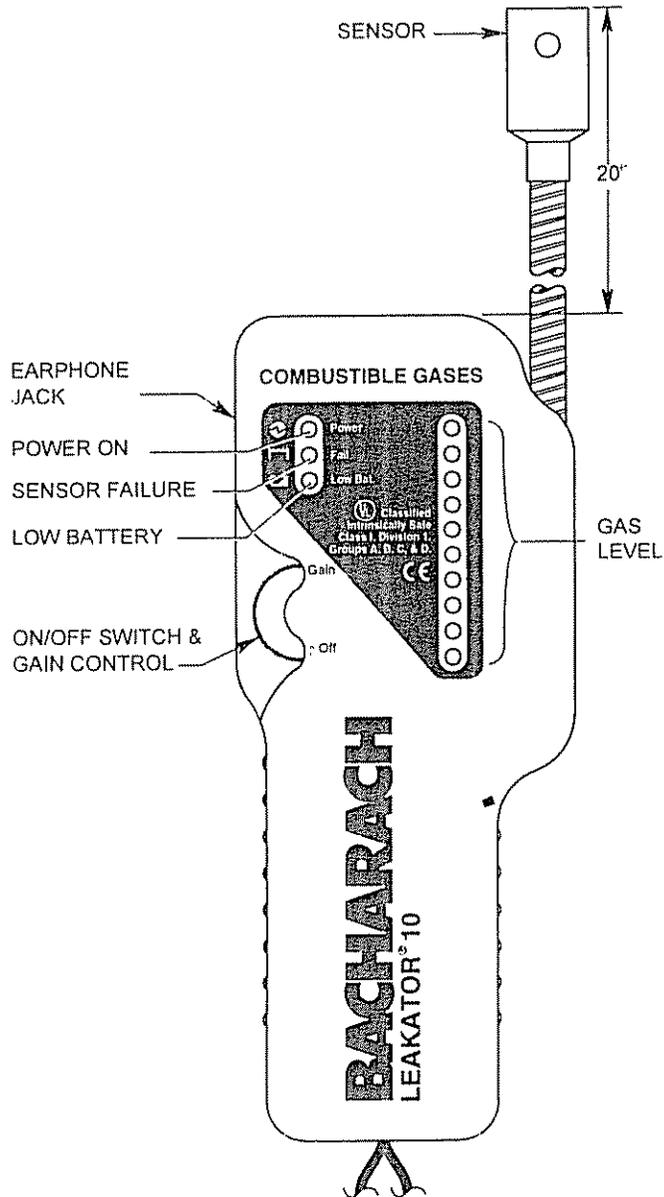


Figure 3. Jack, Control, and Indicators

Take a gas reading by positioning the end of the instrument's flexible probe near the area to be sampled.

The presence of a combustible gas is indicated by a column of ten red LEDs and a speaker. The number of lighted LEDs gives visual indication of the relative gas level, while the speaker produces clicking sounds, similar to a Geiger counter, that increase in repetition rate as the gas concentration goes up in relation to the instrument's gain setting.

The instrument's sensitivity to gas concentrations is adjusted by means of its thumb-wheel Gain control. Clockwise rotation increases sensitivity, while counterclockwise rotation decreases sensitivity. The Gain control is useful in pinpointing large leaks by starting with the control set to light 1 or 2 LEDs, and then gradually rotating the control counterclockwise as the probe gets closer to the leak.

4.3 Using the Earphone

The earphone accessory provides private monitoring of the Leakator 10, and is recommended for use in high-noise environments. The earphone plugs into the left-hand side of the instrument, just above the thumb-wheel control.

4.4 Turning OFF the Instrument

Turn OFF the instrument by rotating the thumb-wheel control counterclockwise until a click is heard. There is no need to purge the instrument with fresh air before turning it off.

5.0 MAINTENANCE

*Do not replace
matching resistors.*

Since the Leakator 10 requires very little maintenance in working order,

If the instrument fails, you may wish to turn it off for a few minutes to keep the

If a problem should occur, see Section 6.0 *Troubleshooting*.

Detailed procedures for replacing components in the instrument are given in

5.1 Replacing the Sensor

Replacement sensors are available for the Leakator 10, and are used to ensure the sensor's sensitivity, and are used to ensure the sensor's sensitivity. A 100-ohm resistor be used in the circuit of the sensors.

Items required:

- Small and medium size screwdriver
- Wire cutter
- Replacement sensor

5.0 MAINTENANCE

WARNING!

Do not replace the batteries, sensor, or sensor matching resistor in a hazardous area.

Since the Leakator 10 does not require calibration at regular intervals, very little needs to be done to maintain the instrument in working order.

If the instrument has not been used for more than 3 months, you may wish to turn it on and let it run in fresh air for several minutes to keep the sensor at peak sensitivity.

If a problem should occur with your instrument, refer to Section 6.0 *Troubleshooting*.

Detailed procedures of how to replace the sensor and other components in the instrument are provided below.

5.1 Replacing the Sensor

Replacement sensors are classified at the factory according to sensitivity, and are shipped with a matching resistor that ensures the sensor will function properly when installed in your instrument. It is important that the sensor and its resistor be used together – DO NOT intermix resistors and sensors.

Items required:

- Small and medium flat-blade screwdrivers
- Wire cutter
- Replacement sensor with matching resistor (P/N 19-0398)

instrument's

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lighted LEDs
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ns is adjusted
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the 1 or 2 LEDs,
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etc. is no need
turning it off

Procedure:

1. Turn OFF instrument.
2. Pry sensor out of its socket using a small flat-blade screwdriver (Fig 4) and discard.
3. Remove battery cover.
4. Remove old matching resistor (Fig 5) and discard.
5. Locate new sensor's matching resistor; then cut and bend the resistor leads using the forms that are molded into the battery cover (Fig 6). *Note that If the resistor leads are cut too short, the instrument may not function.*
6. Insert new matching resistor into printed circuit board, and plug new sensor into socket at end of probe. *Notice that the sensor's six pins and the socket are symmetrical and not keyed, thus permitting the sensor to be plugged in two ways. The socket, however, is wired so that it doesn't matter which way the sensor is installed.*
7. Install battery cover.
8. Test instrument response (refer to Section 4 2).

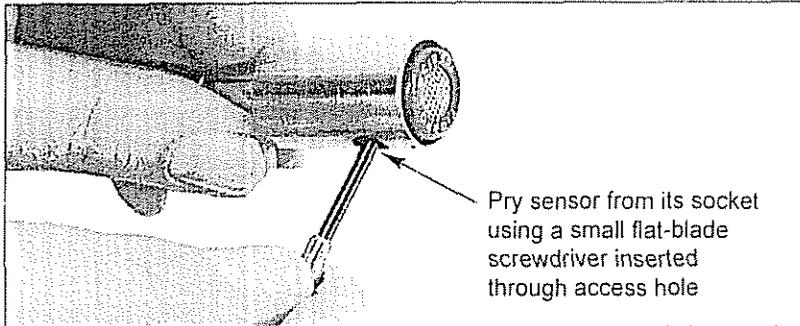


Figure 4. Removing Sensor

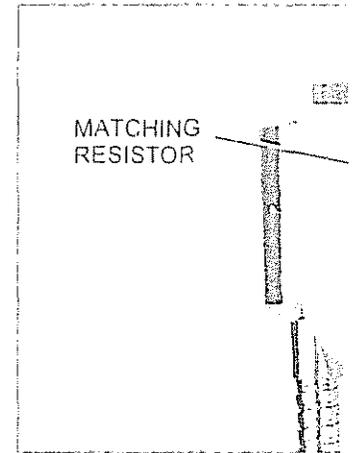


Figure 5. Locating Matching Resistor

Cut Matching Resistor leads to correct length by inserting each lead into form as shown and cutting here

NOTE: The plastic clip guide length represents minimum lead length. If the resistor leads are cut too short, the instrument may not function. Optimum lead length is 11/16"

After cutting resistor leads use this form to bend leads as shown

Figure 6. Cutting and Bending Resistor Leads Using Molded Form

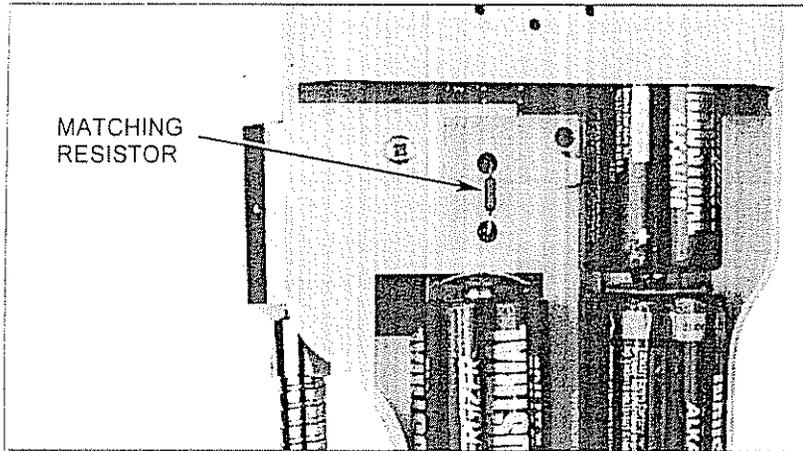


Figure 5. Location of Matching Resistor

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 leads are cut

circuit board,
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 n two ways.
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2)
 is socket
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Cut Matching Resistor leads to correct length by inserting each lead into form as shown and cutting here

NOTE: The plastic clip guide length represents the minimum lead length. If the resistor leads are cut too short, the instrument may not function.
 Optimum lead length is 11/16"

After cutting resistor leads, use this form to bend leads as shown

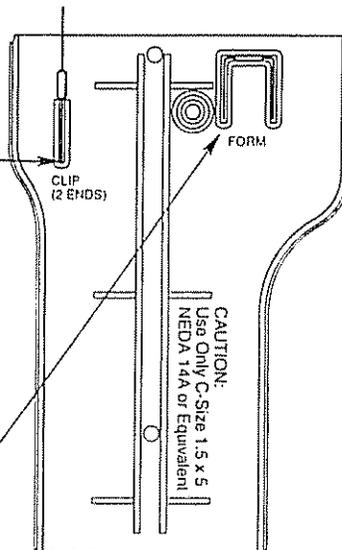


Figure 6. Cutting and Bending Resistor Leads using Forms Molded into Battery Cover

5.2 Replacing the Printed Circuit Board

Items required:

- Medium flat-blade screwdriver
- Medium Phillips screwdriver
- Replacement printed circuit board (P/N 19-0418)

Procedure:

(See Figure 7)

1. Turn OFF instrument and lay it face down on work area.
2. Remove battery cover and batteries.
3. Remove sensor-matching resistor.
4. Remove four screws securing rear case.
5. Carefully lift rear case and flexible arm assembly away from instrument, being careful not to pull wires attached to printed circuit board. Lay rear case face down on work area.
6. Carefully remove printed circuit board from front case.
7. Unplug connectors J2 and J3 from printed circuit board.
8. Plug connectors J2 and J3 into new printed circuit board; then install board into front case.
9. Install flexible arm assembly and rear case using the screws that were removed in Step 4.
10. Replace sensor-matching resistor
11. Replace batteries and battery cover.
12. Test instrument response (refer to Section 4.2)

5.3 Replacing the

Items required:

- Medium flat-blade screwdriver
- Medium Phillips screwdriver
- 1/32" Nut driver
- Replacement speaker

Procedure:

(See Figure 7)

1. Turn OFF instrument and lay it face down on work area.
2. Remove battery cover and batteries.
3. Remove sensor-matching resistor.
4. Remove four screws securing rear case and flexible arm assembly, being careful not to pull wires attached to printed circuit board. Lay rear case face down on work area.
5. Carefully remove printed circuit board from front case; then unplug speaker connectors J2 and J3.
6. Remove two nuts and washers from rear case; then remove speaker.
7. Install new speaker and washers that were removed from rear case. *Do not over-tighten the nuts!*
8. Replace flexible arm assembly and rear case using the screws that were removed in Step 4.
9. Replace sensor-matching resistor
10. Replace batteries and battery cover.
11. Test instrument response (refer to Section 4.2)

Circuit Board

5.3 Replacing the Speaker

Items required:

- Medium flat-blade screwdriver
- Medium Phillips screwdriver
- 1¹/₃₂" Nut driver
- Replacement speaker (P/N 19-0400)

Procedure:

(See Figure 7)

1. Turn OFF instrument; then remove battery cover and batteries.
2. Remove sensor-matching resistor.
3. Remove four screws securing rear case; then carefully lift rear case and flexible arm assembly away from instrument, being careful not to pull wires attached to printed circuit board. Lay rear case face down on work area.
4. Carefully remove printed circuit board from front case; then unplug speaker connector J2 from printed circuit board.
5. Remove two nuts and washers securing speaker to rear case; then remove speaker.
6. Install new speaker and secure in place using the nuts and washers that were removed in Step 5. *CAUTION! Do not overtighten the nuts!*
7. Replace flexible arm assembly and rear case using the screws that were removed in Step 3.
8. Replace sensor-matching resistor.
9. Replace batteries and battery cover.
10. Test instrument response (refer Section 4.2).

5.4 Replacing the Flexible Probe Assembly

Items required:

- Medium flat-blade screwdriver
- Medium Phillips screwdriver
- Replacement flexible probe assembly (P/N 19-3091)

Procedure:

(See Figure 7)

1. Turn OFF instrument and lay it face down on work area.
2. Remove battery cover and batteries.
3. Remove sensor-matching resistor.
4. Remove four screws securing rear case.
5. Carefully lift rear case and flexible arm assembly away from instrument, being careful not to pull wires attached to printed circuit board. Lay rear case face down on work area.
6. Carefully remove printed circuit board from front case.
7. Unplug sensor connector J3 from printed circuit board.
8. Remove flexible probe assembly and remove sensor.
9. Plug connector on new flexible probe assembly into printed circuit board connector J3.

10. Replace printed circuit board, and rear case using the Step 4.

11. Replace sensor

12. Replace sensor-matching resistor

13. Replace batteries and battery cover

14. Test instrument response

Flexible Probe Assembly

driver
screwdriver
probe assembly (P/N 19-3091)

and lay it face down on work area.

Remove batteries.

Remove resistor.

Remove the rear case.

Remove the flexible arm assembly away from the rear case face down on work area.

Remove the circuit board from front case.

Remove J3 from printed circuit board.

Remove the assembly and remove sensor.

Insert the flexible probe assembly into printed

10. Replace printed circuit board, new flexible probe assembly, and rear case using the screws that were removed in Step 4.
11. Replace sensor.
12. Replace sensor-matching resistor.
13. Replace batteries and battery cover.
14. Test instrument response (refer to Section 4.2).

6.0 TROUBLESHOOTING

WARNING!

Do not perform any maintenance work in a hazardous area.

Because of the Leakator 10's advanced design, trouble with the instrument can usually be diagnosed by looking at the LEDs as seen through the front-case. See Figure 3.

If the *Fail LED* lights, check that the sensor is seated and J3 is connected to the printed circuit board. If still no change, replace the sensor per Section 5-1 *Replacing the Sensor*.

If the *Low-Bat. LED* lights, replace the batteries per Section 3.0 as soon as possible. The instrument should operate, however, for several hours before the batteries go dead.

If the instrument doesn't respond to a combustible gas, perform the following in the order presented until the problem is corrected:

- First ensure that all connectors are securely in place on the printed circuit board, and that the sensor is firmly seated into its socket.
- Replace sensor, even though the *Sensor-Fail LED* isn't on, per Section 5.1 *Replacing the Sensor*.
- Replace circuit board per Section 5.2 *Replacing the Printed Circuit Board*.

7.0 PARTS/SERVICE

7.1 Parts List

Replacement Parts (See Figure 3)

| Item | Description |
|------|---|
| 1 | Battery Cover (2 Screws) |
| 2 | Nut, Palmnut Fastener |
| 3 | Flexible Probe Assembly |
| 4 | Front Case |
| 5 | Printed Circuit Board |
| 6 | Rear Case |
| 7 | Replacement Sensor Matching Resistor |
| 8 | Screw, #1-20 x 3/4" th |
| 9 | Speaker Assembly |
| 10 | Washer, #10 Plain |
| 11 | Wrist Strap |
| --- | Instruction Manual |

- * Call factory if your battery won't hold.
- ** Call factory if your probe is noisy.
- *** Available only as a maintenance kit.

Accessories

Description

Carrying Case
Earphone

7.0 PARTS/SERVICE

7.1 Parts List

Replacement Parts (See Fig 7)

| Item | Description | Part No. |
|------|---|----------|
| 1 | Battery Cover (2 Screws)* | 19-0405 |
| 2 | Nut, Palnut Fastner | 102-3736 |
| 3 | Flexible Probe Assembly (4 Wire)** | 19-3091 |
| 4 | Front Case | 19-0392 |
| 5 | Printed Circuit Board Assembly | 19-0418 |
| 6 | Rear Case | 19-0449 |
| 7 | Replacement Sensor with Matching Resistor*** | 19-0398 |
| 8 | Screw, #4-20 x 3/4 thd. forming | 102-1976 |
| 9 | Speaker Assembly | 19-0400 |
| 10 | Washer, #10 Plain | 02-4140 |
| 11 | Wrist Strap | 19-0443 |
| --- | Instruction Manual | 19-9167 |

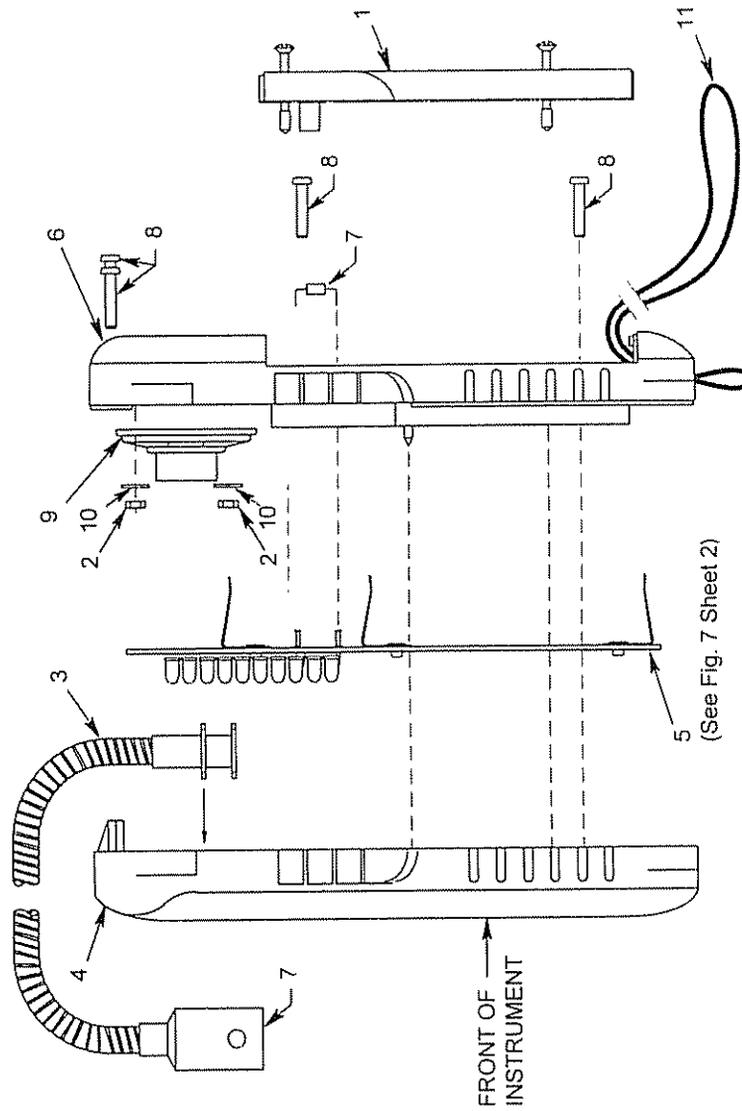
* Call factory if your battery cover has only 1 screw.

** Call factory if your probe assembly has 3 wires.

*** Available only as a matched set.

Accessories

| Description | Part No. |
|---------------|----------|
| Carrying Case | 19-0397 |
| Earphone | 04-9910 |



J1
EARPHONE
JACK

Figure 7. Leakator 10 Part Locations (Sheet 1 of 2)

Figure 7. Leake

Instruction 19-9167

Instruction 19-9167

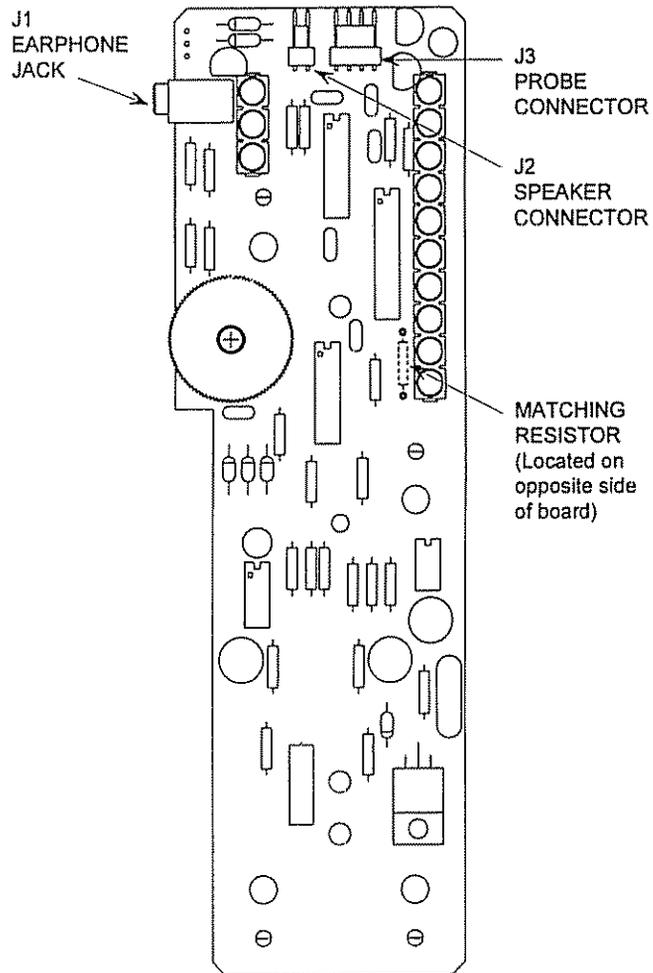
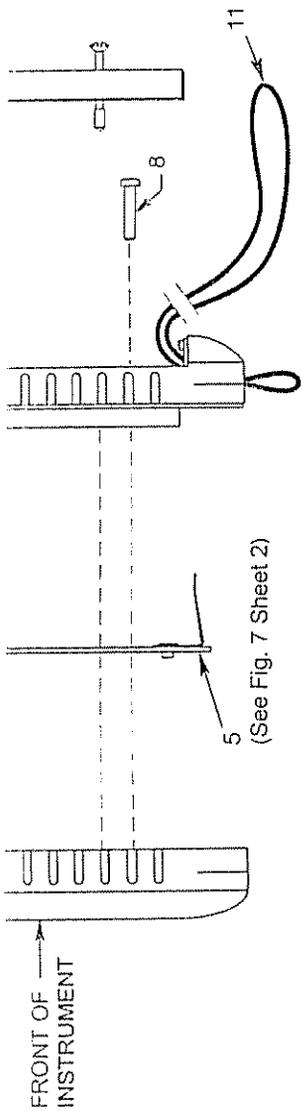


Figure 7. Leakator 10 Part Locations (Sheet 2 of 2)

7.2 Bacharach Sales/Service Centers

United States

Bacharach S/S Center
625 Alpha Drive
Pittsburgh, PA 15238
Phone: (412) 963-2157/2164
FAX: (412) 963-2640

Bacharach S/S Center
7300 Industrial Park
Rt. 130, Bldg. 22
Pennsauken, NJ 08110
Phone: (609) 665-6176
FAX: (609) 665-6661

Bacharach S/S Center
8618 Louisiana Place
Merrillville, IN 46410
Phone: (219) 736-6178
FAX: (219) 736-6269

Bacharach S/S Center
5151 Mitchelldale, B-4
Houston, TX 77092
Phone: (713) 683-8141
FAX: (713) 683-9437

Bacharach S/S Center
7281 Garden Grove Blvd.
Suite H
Garden Grove, CA 92641
Phone: (714) 895-0050
FAX: (714) 895-7950

Canada

Bacharach of Canada, Inc.
101 Amber St. Unit #1
Markham, Ontario
L3R 3B2 Canada
Phone: (905) 470-8985
FAX: (905) 470-8963

Denmark

Bacharach, Inc. Int'l.
P.O. Box 44
58 Kongensgade
DK 6070 Christiansfeld
Denmark
Phone: 45 (74) 563171
FAX: 45 (74) 563178