

MAINTENANCE



Battery Performance

The leftmost LED serves as constant power indicator. When the instrument is turned on, the LED should be lit. If the light is dim, or not on, then recharge the batteries, using the recharger.

NOTE: Each battery in your ACT8080A is a unique Ni-Cad cell. Use only ACT8080A4 replacement batteries. Any other typical Ni-Cad battery will not function correctly.

To Recharge Batteries

With the tool switched off, plug your recharger into the jack on the back on the instrument and plug it into an electrical outlet in a non-hazardous area; See Warnings and Cautions on p.2.

SPECIFICATIONS



| | |
|---------------------------------------|--------------------------------------|
| For the SAFT Ni-Cad batteries: | (2) 2.4v/.75 ampere hour |
| Continuous Operation Time: | Approximately 4 hours |
| Power Supply: | 4.8v; Ni-Cad Rechargeable batteries |
| Sensitivity: | Variable, as low as 5ppm (gasoline) |
| Operating Temperature Range: | 32° to 125° F (0° to 52° C) |
| Duty Cycle: | Continuous; no limitation. |
| Response Time: | Instantaneous |
| Warm-Up Time: | Approximately 30 seconds |
| Weight: | 16 ounces (450 grams) |
| Dimensions: | 8" x 3" x 1.8" (20.3 x 7.6 x 4.6 cm) |
| Probe Length: | 15" (38 cm) |

REPLACEMENT PARTS

| | |
|---|--|
| ACT8080A1: Sensing Tip | ACT8080A4: (2)2.4V Ni-Cad Batteries |
| ACT8080A2: 115V Battery Recharger | ACT8080A5: 220V Battery Recharger |
| ACT8080A3: 12V Cigarette Lighter Recharger | ACT8080A6: Carrying Case |

WARRANTY & REPAIR



Limited Warranty and Repair/Exchange Policy

This instrument has been designed and manufactured to provide unlimited service. Should the unit be inoperative, after performing the recommended maintenance, a no charge repair or replacement will be made to the original purchaser if the claim is made within three years from the date of purchase. This warranty applies to all repairable instruments that have not been tampered with or damaged through improper use. This warranty does not cover batteries, or any other materials that wear out during normal operation of the instrument.

Returning Your Unit For Repair

Before returning your instrument for repair please make sure that you have carefully reviewed the Unit Maintenance section of this manual to determine if the problem can be easily solved. If the instrument still fails to work properly return the unit to your Snap-on distributor.

ZACT8080A

Rev.04032000

Snap-on® ACT8080A Combustible Gas Detector

Owner's Manual



WARNING:



EXPLOSION

Keep flames and sparks away from combustible gases. Read and follow instructions.



FIRE

Flammable liquid; do not expose to flames, sparks, or other sources of ignition. Ignited liquid and fumes can cause injury.



FACE SHIELD

Flammable liquid and fumes can ignite. Wear safety shield (user and bystanders). Use in well-ventilated area. Do not breathe combustible vapors.

Snap-on

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For additional help or troubleshooting call our tech hotline toll free at 1-800-464-1922

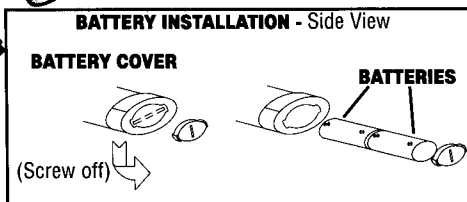
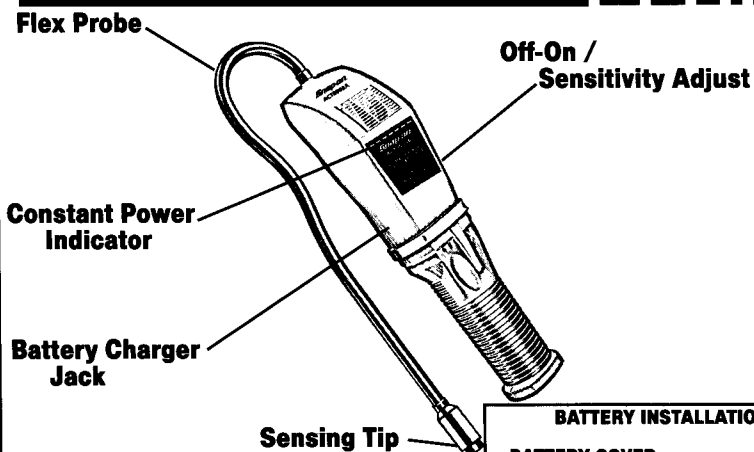


GENERAL INFORMATION

The ACT8080A is a broad-band, battery operated, solid state electronic combustible gas detector.

The instrument provides a "geiger counter" ticking signal which increases in frequency as the source of combustible gas or vapor is approached. It is excellent for pinpointing the location of combustible gas and exhaust system leaks as minute as 5 PPM. This unit includes a carrying case, rechargeable batteries and recharger.

PARTS & CONTROLS



SET UP

Before using your new instrument, it is necessary to install and charge the supplied Ni-Cad Batteries. **NOTE:** The Warnings and Cautions on page 2.

1. To install batteries, unscrew and remove the battery cover (see figure above). Be sure to install batteries as indicated in the battery compartment. Remove the battery compartment door located on the bottom of the unit by inserting a coin and rotating counter-clockwise 1/4 turn, as shown in Fig above. Install batteries, Positive Polarity towards the inside of the unit.

2. Place the unit in a non-hazardous location and plug the charger into an electrical outlet.

3. Insert the plug into the jack on the left side of the instrument.

NOTE: Initially it is necessary to charge the batteries for 24 hours. Subsequent recharges can normally be done in approximately 12-16 hours.

CAUTIONS & PRECAUTIONS

Caution:

- The unit should always be switched on and calibrated in non-contaminated atmosphere in order to insure correct operation and indication.
- Approach suspected hazardous areas with the unit on.
- Always check the instrument on a known combustible leak source before using.

Caution:

- Batteries must only be changed or recharged in an area known to be non-hazardous. To avoid damage to the recharger or unit, make sure the recharger plug is completely plugged into the unit and the batteries are installed in the correct orientation.
- After the automatic warm-up period, move the sensitivity adjustment through its complete range. A change in the ticking rate should be heard ascending from a ticking sound to a siren. If this does not occur, do not use the instrument! Recharge the batteries and/or replace sensing element. Repeat the above described test procedure. If this does not correct the problem, the instrument should be returned for repair.

OPERATING INSTRUCTIONS

Once the batteries are fully charged, the instrument is ready to use (before use, carefully read and understand the Warning and Cautions above).

1. Turn the instrument on in a non-contaminated atmosphere by moving the adjustment knob upwards. The power light should be lit. No sound will be heard.
 2. The leftmost LED will illuminate to show that the unit is switched on.
 3. After the automatic warm-up period is completed, about 30 seconds, a ticking sound will be heard.
 4. Move control upwards until a rapid ticking signal is heard (Hi sensitivity)
 5. The frequency of the tick is an indication of the sensitivity. Move the adjustment knob until the ticking is rapid, for Hi sensitivity, or slow, for Lo sensitivity.
- NOTE:** If a steady tick rate cannot be maintained, it is indicative that the batteries may need to be recharged.
6. Search the general area of the leak. When a detectable compound enters the tip, the tick rate speeds up.

In conjunction with the increased tick rate, the LEDs will light from left to right as a combustible is detected. The larger the concentration, the more LEDs will light.

7. In most cases, it will not be necessary to adjust the sensitivity of the unit. However, if the siren sounds before a possible leak source can be found it is likely that the air is contaminated with heavy concentrations of gas. Therefore, you may desensitize the instrument by moving the adjustment control downwards to Lo sensitivity (slow ticking).
8. If you are searching for extremely small leaks, make certain the control knob is in the Hi sensitivity position (rapid ticking).