

LEAKTRONICS

ELECTRONIC LEAK DETECTION EQUIPMENT



818-436-2953 | www.leaktronics.com | info@leaktronics.com

USERS MANUAL FOR THE PLUMBERS KIT



TABLE OF CONTENTS

1. SAFETY AND CARE
2. LT1000 - NOISE REDUCING METERED AMPLIFIER
3. PRESSURE RIG
4. LISTENING DISC
5. DECKPLATE
6. MULTI-PURPOSE SOIL PROBE
7. TROUBLESHOOTING
8. WARRANTY INFORMATION



SAFETY AND CARE

PLEASE NOTE:

- **USE CAUTION WHEN PRESSURE TESTING:**
Never inflate to more than 15 PSI.
Do NOT stand in front or above a compression plug, or any plug, when under pressure.
- It is extremely important to always turn down the volume, remove headphones, use the MUTE button or turn down the volume on the amplifier when moving the Multi-Purpose Soil Probe, DeckPlate or Listening Disc from one location to another. **FAILURE TO DO SO CAN CAUSE SERIOUS HEARING INJURY.**
- Avoid storing cables with tangles or knots. Always store cables in a loosely wrapped coil. Please use extreme care and keep a printed copy of this manual available for all users.
- When treated with care, your Plumbers Kit will last for many years. Each unit is made in-house at LeakTronics. Hand assembled in the USA. While all components are constructed to withstand use in harsh environments, the LT1000 Amplifier, Listening Disc, Multi-Purpose Soil Probe and DeckPlate can never be submerged. Doing so will void the products warranty.
- **ALL PRODUCTS SHOULD BE WIPED DOWN WITH A DRY RAG BEFORE STORING.**



IMPORTANT INFORMATION REGARDING THE LT1000 NOISE REDUCING METERED AMP

AMPLIFIER REQUIRES TWO (2) AA BATTERIES TO FUNCTION.

Thank you for purchasing your new LT1000. the LT1000 is the only state of the art amp made specifically for the leak detection industry. THE LT1000 can be used in conjunction with the Slide Mic, Pool Scope, DeckPlate, Pipe Mic, Listening Disc, Soil Probe and all LeakTronics brand listening equipment.

SPECIFICATIONS:

Input

- *Connector:* XLR Female Unbalanced
- *Noise:* EIN better than -107 dBV.
- *Input Impedance:* 3.3k Ω nom.
- *Plug-In-Power:* 12V maximum via 4.7k Ω resistor.
- *Filter Switch:* Filter capabilities below 700Hz.
- *Compatible Accessories:* LeakTronics – PipeMic, SlideMic, Soil Probe, Listening Disc, Flash, Pool Scope, DeckPlate. (SEE THESE ITEMS AT WWW.LEAKTRONICS.COM)

Headphone Output

- *Connector:* 3.5mm
- *Gain:* -inf to 66dBV nom.
- *Output impedance:* 41.7 Ω .
- *Distortion:* 0.1% no load, 2% at full load.
- *Mute Switch:* Attenuation better than 60 dB when switch is ON.

Auxiliary Output

- *Connector:* 2.5mm
- *Gain:* 30 dBV constant.

Meter

- *Sense Switch:* Select high sensitivity (10:1 power ratio) or low sensitivity (1000:1 power ratio).
- *Meter Null:* Set needle to center of meter to gauge baseline noise.
- *Sensitivity:* -80 dBV.

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Power

- *Batteries:* 2x AA battery.
- *Minimum voltage:* 2.25V.
- *Run Time:* Better than 8 hours.
- *Change batteries with #2 Phillips screwdriver*

Power ON/OFF, LED display:

Power ON & OFF is a simple toggle switch. Up is power on, down is power off. The LED will light up when amp is turned on and will flash when battery power is low. When battery power is very low light will go off, however amp will work. At this point, battery must be replaced as soon as possible. *****PLEASE NOTE: Mute button MUST be in on position (up) when powering LT1000 amplifier on.**

Battery installation and type:

We highly recommend using high quality alkaline battery, Energizer max or Duracell Coppertop are recommended. To install battery, remove one set screw and pivot door open by loosening other screw. Hold amp upside down, tap lightly and battery holder should pop out. If it does not come out easily, grab with fingers and edge it out, being careful not to pull too hard on two wire leads which attach battery compartment to amp. Using a flat head screwdriver, pop batteries out of holder and replace properly as marked. Gently push battery compartment back into amp, DO NOT FORCE IT. Pivot battery door closed and retighten screws.

Mute button makes it easy to go from on location to another without having to adjust volume or meter null. By placing the mute toggle switch in the up position, all sound will be muted out, until it is switched off (put in the down position).

Meter Null / Sensitivity / Meter

Meter null is an adjustment knob which is used to get a baseline for background noise. In order to use properly, with the sensitivity switch down, choose the listening device, start listening and watch the meter to see if there is any background noise. A 100 reading indicates that what you're hearing is inundated with background noise, or you're hovering over the leak itself. Starting with the meter null notch facing up, turn the null to the left to establish a noise baseline (low). You can then turn the meter to the right to get a noise baseline (high). Turning the sensitivity switch on (up) will allow for a higher and lower range.



Always be sure to turn the volume on the amplifier to the left (lowest setting) prior to each use or to powering on.

Volume

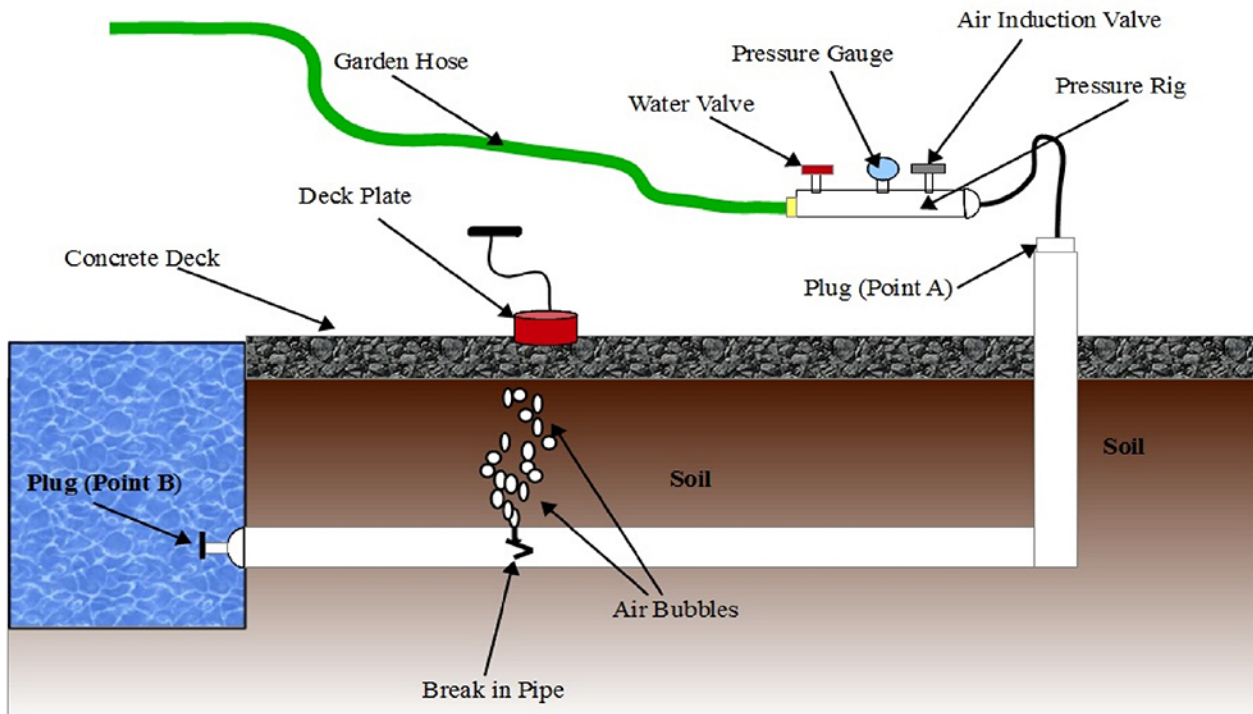
Turn to the right to increase volume, turn to left to decrease.

USEFUL TIPS: The LT1000 comes with 2 round rings located on either side to be used with the strap (included). It is important to use this feature when using around construction sites and wet locations to avoid dropping and becoming damaged.

Always carry a supply of fresh batteries. Once the batteries fall below the required voltage, the signal to the headphones will cut out intermittently and/or distort. This is an indication that the batteries should be replaced. All troubleshooting should begin by replacing batteries with new, high quality alkaline batteries. If using noise reducing headphones, always keep replacement batteries. As the batteries in noise reducing headphones (such as Bose or JBL) expire, the signal heard will be intermittent and distorted.

Pressure Rig

The most effective method for pressure testing and pinpointing leaks involves using the Leaktronics Pressure Rig along with our various components, i.e. deck plate, soil probe, listening disc, and slide mic. The LeakTronics Pressure Rig was designed to induce both air and water. This mixture is combined at the rig and evenly flows through the line being tested. When water alone is used, it is virtually impossible to hear this distinct sound. The combination of air and water is what enables the sound to be heard clearly.



Please visit the LeakTronics website to view video instructions on the proper way to use the LeakTronics Pressure Rig.

Listening Disc

The LeakTronics Listening Disc is an ideal tool to be used with the LT1000 Amplifier for listening in interior cabinetry, drywall, ceilings, concrete walls, etc. It's size and shape make it ideal for listening in hard to reach places. Use the disc by plugging it into the LT1000 amp, raising the volume (being sure to lower the volume on the headphone cables whenever moving from one location to another). Lines and leaks could be listened to through house or building pressure, or ideally, if pressured up with our pressure rig and air to create a distinct boiling noise. Always wipe off unit with dry rag before restoring, always recoil wires neatly.

Deckplate

The LeakTronics Deckplate is ideal for listening through concrete slabs or raised concrete walls where distinct noises are created by either house, building, or swimming pool existing pressure, or ideally using our pressure rig combo kit (using air and water to create a distinct boiling noise). With line under pressure with air, water or both, listen at 2 foot

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intervals, making sure to lower the volume in the headphone line, in between moving the deck plate. When leak gets louder, you can start maneuvering at smaller intervals to pinpoint leak where loudest. The Deckplate should always be wiped off with a dry rag when storing and wire should be recoiled neatly.

Soil Probe

The LeakTronics Soil Probe is ideal for listening through grassy, rocky, or dirt areas. Assemble by screwing threaded rod into coupler ***PLEASE NOTE: Pointed end points *away* from coupler. ALSO NOTE: The soil probe does not need to be inserted into ground by more than an inch. **DO NOT INSERT FULLY INTO GROUND, DO NOT FORCE SOIL PROBE INTO GROUND.** The Soil Probe should always be wiped off with a dry rag when storing, disassembled, and wire should be recoiled neatly.

Troubleshooting

In the case that the DeckPlate, Listening Disc or Soil Probe begin to not function properly or if you experience problems, always replace the batteries in the LT1000 Amplifier with new high quality AA batteries. If you are using noise canceling headphones always replace with new batteries if you begin to experience problems. As the batteries power fades, the signal will become intermittent and subject to interference. New batteries will solve the problem. If problems persist, test the unit with a new or another set of headphones. If a different set of headphones corrects the problem, then the headphones or headphone cable are faulty. Replace headphones. If the problem continues after replacing the headphones, contact LeakTronics for assistance.

Warranty

LeakTronics warrantys it's products from defects in workmanship for a period of two years following the date of purchase. Warranty claims or repairs can be made directly through LeakTronics. Shipping costs to LeakTronics are the responsibility of the user.