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**INSTRUCTIONS FOR LEVITON MODEL 49560 TONE TEST SET
FOR USE WITH LEVITON 49561 SPEAKER PROBE.**

WARNING! HAZARD OF ELECTRIC SHOCK. NOT INTENDED FOR USE ON ENERGIZED WIRING OR CIRCUITS. To avoid electric shock, disconnect all sources of electric current before testing. If you are unfamiliar with electrical wiring, consult a qualified electrician or other professional. Check local codes and requirements before working on electrical or communications wiring circuits.

BATTERY

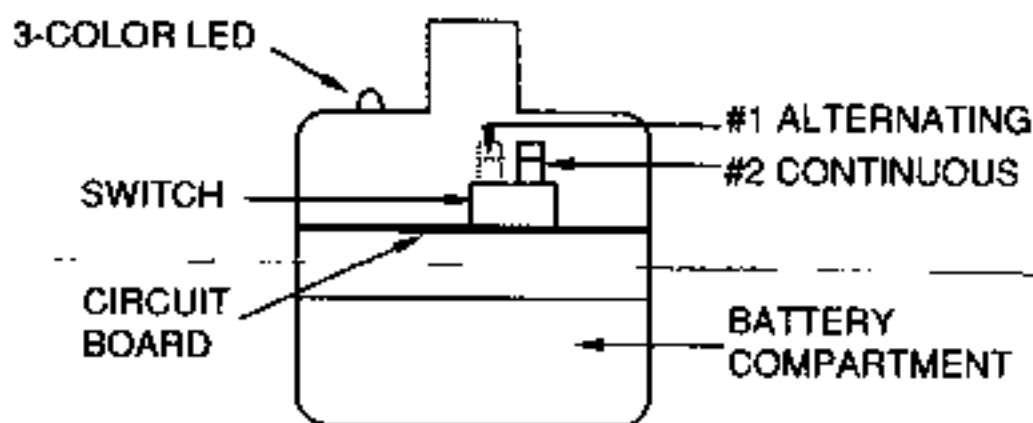
The Model 49560 Tone Test Set uses a NEDA type 1604 9-Volt replacement battery such as an Eveready® 216, RCA VS323, 006P import or equivalent.

NOTE: The Model 49560 Tone Test Set comes with a 9-Volt battery installed.

TONE GENERATOR

The model 49560 Tone Test Set generates two distinctive audio tones (500/1000 Hz alternating or 1000 Hz continuous). To select tone type, remove cover and set the switch to the alternating or continuous tone position to suit your needs. Many technicians use two tone units; by setting each unit to a different tone, you can trace two circuits simultaneously. The Tone Test Set is an ideal tone source for use with the Leviton 49561 Speaker Probe.

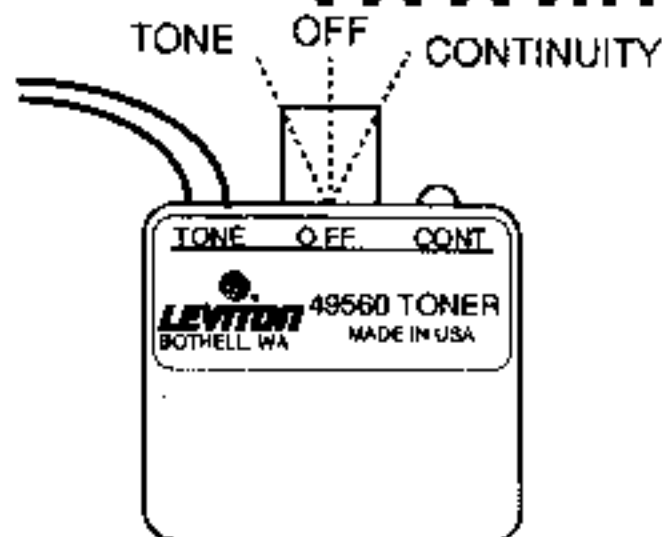
MODEL 49560 TONE TEST SET WITH COVER REMOVED



- For 500/1000 Hz alternating tone, set the internal switch in position #1.
- For 1000 Hz continuous tone, set the internal switch in position #2.
- NOTE: The Model 49560 Tone Test Set is set at the factory for an alternating tone.

LOCATING WIRE PAIRS

Nearly any type of unenergized wire and cable including telephone, audio or alarm wiring can be traced in walls or can be isolated from a group of wires using the Tone Test Set. To trace wiring, place the on/off switch to the "TONE" position (toward the test set leads) and connect the clips or modular jack to the wires/circuit to be traced. The tone generator emits a signal detectable by the Leviton Model 49561 Speaker Probe. Broken wires can be traced in the same manner, however, the tone level will be reduced as the point of the break is passed.



CONTINUITY POSITION

Checks for shorts or opens using a long-life, tri-color, light-emitting diode (LED). The LED will illuminate bright green when the red and black test leads or modular jack leads are shorted. The LED is dimmer if there is resistance in the circuit across the test leads.

HAND SET TALK CURRENT

The Continuity position also provides talk power for telephone sets or lineman's test sets between two points on an un-used pair. Connect the lineman's test set in series with one of the Tone-Test Set leads at one end of the pair, and a second lineman's test set across the pair at the other end. The LED will illuminate green when both sets are off hook in the talk mode.

WARNING! HAZARD OF ELECTRIC SHOCK! The following tests are made on an energized telephone line. Extreme caution should be exercised to avoid physical contact with bare conductors or terminals, as ringing voltage could be in excess of 100 volts AC. Never attempt repair, installation, or modification of telephone equipment or wiring systems if you wear an electronic heart regulation device. If you are unfamiliar with telephone wiring, consult a qualified technician. For more information, refer to Leviton's Telephone Wiring System Troubleshooting Guide.

TIP AND RING IDENTIFICATION

To identify the ring side of a telephone line, simply turn the test set to the off position and connect the black lead to ground, then probe both sides of the line with the red lead. When the red test lead is connected to ring side of the circuit, the indicator LED lights bright green. When no ground is available, connect leads across the wire pair. If the indicator lights bright red, the test leads or the line is reversed. When ring is on the red side and tip is on the black side, the indicator will light bright green. (NOTE: This test set will only work if talk battery is present on the line.)

LINE CONDITION INDICATION

Connection of the red test lead to the ring side and black to the tip side will indicate the line condition as follows:

- CLEAR LINE—Bright green indicator lamp
- BUSY LINE—Dim green indicator lamp
- RINGING LINE—Brightly flashing yellow lamp

(NOTE: Connecting in reverse polarity for the ring check will result in a dimly flashing lamp when the line rings. Connecting before the line has started to ring will result in the calling party receiving a busy signal and the called line receiving no ring.)

LINE VERIFICATION

The Model 49560 Tone Test Set can easily be used for positive line verification by ringing the line to be verified. When the line has started to ring, connect red lead to ring and black lead to tip. The lamp will flash yellow if line is ringing. To positively identify ringing line, now switch set to continuity mode. This will terminate the ring. So, by listening to your handset when you terminate with the Tone Test Set, you can verify the line as the one you just rang.