



### Features

- Three different tones selected from front panel
- Tone can be added in any status – allows test sets without monitor feature to pick up tone
- Easy to change battery – no tools needed
- Separate Talk Battery status for increased voltage and power for test sets
- Auto-OFF of tone after three hours to conserve battery life
- Constant tone amplitude over life of battery
- Two tone amplitude – normal and half
- No power draw in continuity status with leads open
- RJ jack allows use of modular cable or alligator clips
- Low battery LED indicates when to change battery
- 9 Volt battery included

### Warning!

Do not attach to live AC circuits. This could cause an extreme shock hazard and damage to the Tone Generator. When connecting to unknown circuits, always start in the OFF Status. If either or both status LEDs light, there is voltage present. The CONT and TALK BATT status modes should NOT be used with voltage present.

### Instructions for Use

**To send a tone for tracing** Caution: Do not connect to an active AC circuit exceeding 24V in this mode

1. Move slide switch to "OFF" Status position
2. Connect black lead to Tip/positive/white striped conductor.
3. Connect red lead to Ring/negative/solid colored conductor
4. PRESS and RELEASE Tone Button to generate FULL Strength tone
5. PRESS and RELEASE Tone Button again to generate HALF-Strength tone
6. PRESS and HOLD Tone Button to cycle through three available tones: warble, pulse and steady
7. Use IDEAL Amplifier Probe (62-164) to receive tone. Reception of tone will be strongest on the subject wires. In cases of ready access to bare conductors, a handset may be used to receive tone.
8. To turn tone generator off, PRESS and RELEASE Tone Button until LEDs do not glow.

### Application Tips

- For the strongest possible tone strength, it is recommended to connect one lead to a conductor and the other lead to a ground. If no ground is available, dangle the second lead as close to earth as possible. (See Fig. 1)
- With Tone on, the CONT status mode can be used to verify the correct pair at the remote end.
- To confirm correct pair at the remote end, short out the pair with the strongest tone received by touching the leads together. The tone will "cancel" out or stop, and the REV LED will light on the tone generator indicating continuity.

**To check continuity** Caution: Do not connect to live AC circuits

- 1) Move slide switch to "CONT" position
- 2) Connect leads to subject pair
- 3) Red LED indicates continuity, no LED indicates open or line resistance over 10,000 ohms.
- 4) Move slide to "OFF" Status to avoid draining battery of leads touch during storage

**Providing Talk Power** Caution: Do not connect to live AC circuits

1. Move slide switch to "TALK BATT" position
2. Connect tone generator in series with one test set at each end of a dead pair, creating a closed loop.
3. Place both test sets "off hook" or TALK position to establish communication. (See Fig. 2)

**Analog Telephone Line Testing** (Central Office Battery must be present to perform tests) Caution: Do not connect to live AC circuits

### Telephone Line Polarity

1. Move slide switch to "OFF Status" position
2. Connect black lead to Tip/positive/white striped conductor.
3. Connect red lead to Ring/negative/solid colored conductor.
4. If NRM LED glows, polarity is correct. If REV LED glows, polarity is reversed.

### Telephone Line Status

1. Move slide switch to "OFF Status" position
2. Connect black lead to Tip/positive/white striped conductor.
3. Connect red lead to Ring/negative/solid colored conductor.
  - a. If NRM or REV LED is bright, the line is not in use
  - b. If NRM or REV LED is dim, the circuit is in use
  - c. If both LED's are flashing, ringing current is present
  - d. If both LED's glow, AC Voltage is present

### Modular Testing

All above tests are available through the modular plug for Line 1 only – red and green wires / blue pair

### Coax Testing

1. To test unterminated coax, connect red to outer shield and black to center conductor OR red to outer shield and black to ground
2. To test terminated coax, connect red to connector housing and black to center pin OR red to connector and black to ground

### Battery Replacement

1. Remove black rubber battery cap by pulling or prying off with hand (See Fig. 3)
2. Remove and replace battery
3. Snap rubber battery cap into place

### Specifications

Power requirements	One 9 Volt battery
Battery Life	70 hours typical
Tone Frequencies	Dual/1116 and 919 Hz, Single/919 Hz
Tone Power into 600 ohms	HI=7dBm, LO=1dBm
Voltage Protection	OFF Status – DC=58 volts continuous, AC=300Vpeak, 2 seconds Continuity and Talk Battery into 600 ohms – DC=52 volts
Talk Battery into 600 ohms	6.0 VDC
Dimensions	2.7 x 2.6 x 1.1 inches (67 x 66 x 28 mm)
Weight	4 oz with battery (113 grams)

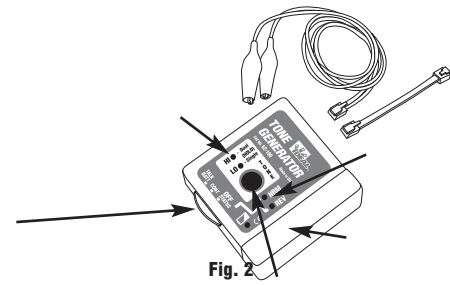


Fig. 2

Fig. 3

