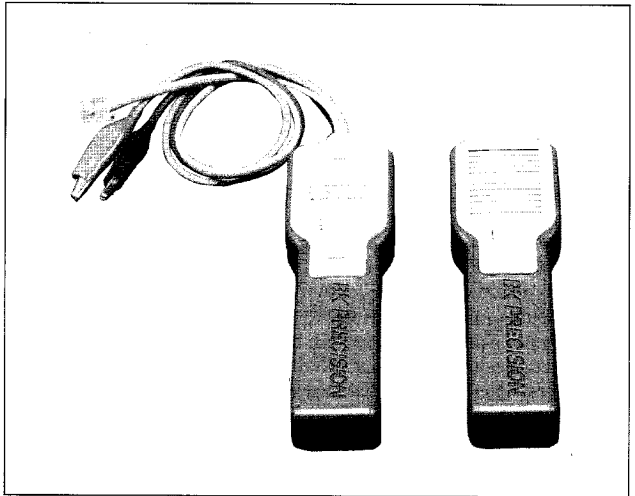


# **T**Equipment USA **.NET**

An Interworld Highway, LLC Company

## **BK PRECISION<sup>®</sup>**

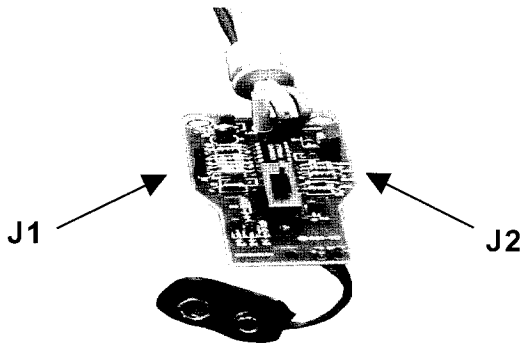


**Model 262 Tone Generator & Cable Tracer Kit**

### Changing the Frequencies Produced by the Tone Generator

Follow these instructions if you wish to change the frequencies the Tone Generator will produce. You can see the frequencies available in the Jumper Chart in the Tone Generator Specifications section.

1. Remove the three screws in the back of the case and carefully separate the two pieces of the case.
2. Disconnect the battery.
3. Remove the single screw that holds the Printed Circuit Board (PCB) to the top of the case.
4. Turn the case over and with a small flat head screwdriver (or something similar) and carefully lift the slide switch cover (the plastic cover that slides up and down to select the three different modes).
5. Now you should be able to pull the PCB away from the case (note: The strain relief for the three cables slides into the top of the case and it may be holding the PCB in place. If so slide the strain relief away from the case).
6. Now you have access to the two Jumper connectors on the left and right side of the board. Refer to the Jumper Chart in the Tone Generator Specification section to figure out the Jumper combination for your desired frequency. Note Fig. 1 for location of J1 and J2.
7. Now reverse directions 5 through 1 to reassemble the Tone Generator. It is usually easier to start by aligning the strain relief into the case slot, and then **be sure to fit the LED into the window (display area) of the front of the case.**



### Features

#### Cable Tracer:

- Hi-gain, Hi-impedance amplifier
- Capable of identifying tones up to 12 inches away (under ideal conditions)
- Rugged, moisture resistant, Mylar cone speaker

#### Tone Generator:

- Generates Warbled Tone
- LED indicates continuity when in CONTINUITY mode
- LED indicates positive polarity when in POLARITY mode
- Provides talk current on a dead line
- Check line Polarity

### Tone Generator Specifications

Tone Output Level: Approximately 8 vp-p (+3dBm, 600Ω)

Tone Output Current: Approximately 4 mA

Tone Frequency:

#### Jumper Chart

J1 Jumper	J2 Jumper	Tone Frequency	Switching Frequency
J1 connected	J2 connected	1.4KHz to 1KHz	14Hz
J1 disconnected	J2 connected	0.84KHz to 0.7KHz	14Hz
J1 connected	J2 disconnected	1.4KHz to 1KHz	7Hz
J1 disconnected	J2 disconnected	0.84KHz to 0.7KHz	7Hz

Continuity / Talk Test: 35mA (leads shorted), approximately 6.5 VDC (leads open)

Dimensions (H x W x D): 7" x 1.87" x 1.12" (177.8 x 47.5 x 28.4 mm)

Weight: 5.8 oz. (164.4 g)

Power: Standard 9-volt battery

### Cable Tracer Specifications

Dimensions (H x W x D): 7.37" x 1.87" x 1.12" (187.1 x 47.5 x 28.4 mm)

Weight: 4.9 oz. (138.9 g)

Power: Standard 9-volt battery

### Features

Cable Tracer:

- Hi-gain, Hi-impedance amplifier
- Capable of identifying tones up to 12 inches away (under ideal conditions)
- Rugged, moisture resistant, Mylar cone speaker

Tone Generator:

- Generates Warbled Tone
- LED indicates continuity when in CONTINUITY mode
- LED indicates positive polarity when in POLARITY mode
- Provides talk current on a dead line
- Check phone line polarity
- Selectable test frequencies

### Tone Generator Specifications

Tone Output Level: Approximately 8 vp-p (+3dBm, 600Ω)

Tone Output Current: Approximately 4 mA

Tone Frequency:

#### Jumper Chart

J1 Jumper	J2 Jumper	Tone Frequency	Switching Frequency
J1 connected	J2 connected	1.4KHz to 1KHz	14Hz
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J1 connected	J2 disconnected	1.4KHz to 1KHz	7Hz
J1 disconnected	J2 disconnected	0.84KHz to 0.7KHz	7Hz

Continuity / Talk Test: 35mA (leads shorted), approximately 6.5 VDC (leads open)

Dimensions (H x W x D): 7" x 1.87" x 1.12" (177.8 x 47.5 x 28.4 mm)

Weight: 5.8 oz. (164.4 g)

Power: Standard 9-volt battery

### General Description

The Tone Generator is a hand-held, battery-powered instrument designed to perform a variety of tests on telephone lines. Alligator clips and standard RJ11 plug allow the tone generator to be connected to stripped wires, a terminal panel, wall plates, or modular single line jacks quickly.

The Line Tracer is a hand-held inductive tracer that will help to identify wires without piercing the insulation. It can trace Tone Generator signals through dry wall, wood and many other non-metal surfaces (under ideal conditions).

### Tone Generator Operation

#### OFF / POLARITY

When the slide switch is in this position the unit will be powered off. While in this mode the unit can test a phone lines polarity. With the unit plugged into the line outlet receptacle a lit LED indicates that that line has "normal polarity", if the LED does not light (and you know the line is good, and the Generators batteries are good) then that outlet has reversed polarity.

#### TONE

When the side switch is in this position the unit will generate the selected tone on all three lines (phone line, red wire, & green wire).

#### CONTINUITY / TALK

When the side switch is in this position the unit will apply approximately 6.5 VDC to the both the red wire with the alligator clip and the red wire of the RJ11 connector. If there is continuity between the red and green wires then the LED will light. This mode also supplies talk power on a dead line.

### Cable Tracer Operation

Pressing the push button and then tracing the tip of the probe over the wires to be tested is the correct operation of the Cable Tracer. If there is a wire carrying the frequencies generated by the Tone Generator you will be able to hear the tones from the speaker of the Cable Tracer. The closer the tip of the cable tracer is to the wire/wires carrying the Tone Generators frequencies the louder the Cable Tracers speaker will become.

### Replacing the Battery

Follow these instructions to change the batteries in either unit.

1. Remove the three screws in the back of the case and carefully separate the two pieces of the case.
2. Disconnect the battery from the connector.
3. Attach the new battery to the connector.
4. Place the new battery into the case.
5. Put the two case halves together and insert the three screws and tighten them.

## Limited One-Year Warranty

B&K Precision Corp. warrants to the original purchaser that its product and the component parts thereof, will be free from defects in workmanship and materials for a period of one year from the date of purchase.

B&K Precision Corp. will, without charge, repair or replace, at its' option, defective product or component parts. Returned product must be accompanied by proof of the purchase date in the form a sales receipt.

To obtain warranty coverage in the U.S.A., this product must be registered by completing and mailing the enclosed warranty card to B&K Precision Corp., 1031 Segovia Circle, Placentia, CA 92870 within fifteen (15) days from proof of purchase.

**Exclusions: This warranty does not apply in the event of misuse or abuse of the product or as a result of unauthorized alternations or repairs. It is void if the serial number is alternated, defaced or removed.**

B&K Precision Corp. shall not be liable for any consequential damages, including without limitation damages resulting from loss of use. Some states do not allow limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific rights and you may have other rights, which vary from state-to-state.

Model Number: \_\_\_\_\_ Date Purchased: \_\_\_\_\_

## Service Information

**Warranty Service:** Please return the product in the original packaging with proof of purchase to the below address. Clearly state in writing the performance problem and return any leads, connectors and accessories that you are using with the device.

**Non-Warranty Service:** Return the product in the original packaging to the below address. Clearly state in writing the performance problem and return any leads, connectors and accessories that you are using with the device. Customers not on open account must include payment in the form of a money order or credit card. For the most current repair charges contact the factory before shipping the product.

Return all merchandise to B&K Precision Corp. with pre-paid shipping. The flat-rate repair charge includes return shipping to locations in North America. For overnight shipments and non-North America shipping fees contact B&K Precision Corp..

B&K Precision Corp.  
1031 Segovia Circle  
Placentia, CA 92870  
Phone: 714- 237-9220  
Facsimile: 714-237-9214  
Email: [service@bkprecision.com](mailto:service@bkprecision.com)

**Include with the instrument your complete return shipping address, contact name, phone number and description of problem.**



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1031 Segovia Circle  
Placentia, CA 92870-7137  
TEL: 714-237-9220  
FAX: 714-237-9214  
[www.bkprecision.com](http://www.bkprecision.com)