



## **Pro220K Advanced Tone and Probe Kit Operating Instructions**

The model Pro-220K Advanced Tone and Probe kit is designed to find and identify wires and their terminating point. It consists of the Pro110 Tone Generator, the Pro210F Advanced Tone Probe, and the Pro21 Carrying Case.

Features on the Pro110 Tone Generator include;

- Tone Transmit Indicator LED
- AA Battery Powering
- Heavy Duty Strain Relief
- Short Circuit LED with Audible Alarm
- Heavy Duty, Water-resistant Case
- Loop for Hook or Lanyard Hanging

Features on the Pro210F Advanced Tone Probe include;

- Bright LED Headlight
- Wrist Strap
- Headset Jack
- AC interference Rejection
- Volume Control

### **Battery Installation**

The models Pro110 Tone Generator and Pro210F Advanced Tone Probe each require four AA (LR6) batteries (not included). Remove the battery compartment cover on the back of each unit and install, being careful to match the correct polarity of the battery and the units. If the batteries have been installed correctly and turned on, LEDs will light.

### **Operation – Tone Generator**

**WARNING** - Never connect to live wires greater than 60 volts including 115 or 230 volt AC service.

Connect the model Pro110 Tone Generator to the wire you wish to trace using one of the red or black alligator clips and leads. When using the clips, you may either connect to a single wire of a pair with each clip that run together or 1 clip to a wire and one to earth ground. Results vary with each method so experiment. You can connect to a wall jack using a modular adapter.

The black slide switch on the side of the Pro110 operates the unit. Place the switch in the TONE position (slide it down), to send a tracing tone down the connected wire. The LED should blink green, indicating a tone signal is being sent. You are now transmitting a tracing tone.

To check for short circuits, place the black slide switch in the SHORT position (slide it upward). Connect it to the circuit you wish to test. If the circuit is shorted, the LED will light solidly red and an audible alarm will come on.

To turn the unit OFF, slide the black switch to the center or OFF position.

## **Operation – Probe**

To activate the model Pro210F Advanced Tone Probe, push and hold the black on/off button. Releasing the black button will turn the unit off. To change the volume level, utilize the black wheel found on the right side of the unit.

The Pro210F Advanced Tone Probe has 2 modes of operation: normal and rejection modes. For normal mode, do nothing after turning the unit on. The Pro210F automatically defaults to normal mode. For AC rejection mode (limiting background AC interference), push the on/off button again and green rejection LED will light, indicating that the rejection circuitry has been activated.

With the probe activated in either mode, attempt to get as close as possible to the far end of the wire that the tone generator is connected to. The wire emitting the loudest tone is almost always the one the tone generator is connected to and therefore the one you are seeking. In addition, the second LED on the probe will light green the closer you are to the target wire. If this light is red, you have a weak battery.

The rear of the model Pro210F is equipped with a headset jack. If desired, you may insert a headset into the jack and receive the audio response in that manner.

## **General**

Both the model Pro110 and Pro210F have lanyard capability. For the Pro110, install a string or cord through the loop at the top and use the strap to hang on a nail or peg. Use this when the unit is suspended in use to keep the clips from becoming detached. For the Pro210F, use the strap around the wrist in case the unit is dropped.

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