

MODEL 200FP FILTER PROBE INDUCTIVE AMPLIFIER (WITH VOLUME CONTROL)

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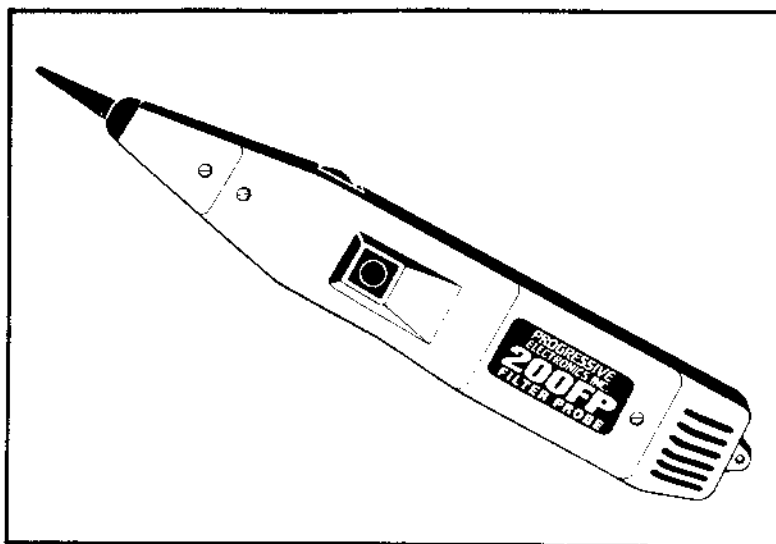


Figure 1. Inductive Amplifier Model 200FP.

1. GENERAL

1.01 This section provides information on the Model 200FP Inductive Amplifier, manufactured by Progressive Electronics, Inc. (See Figure 1)

2. DESCRIPTION

2.01 The Inductive Amplifier is designed to identify and trace wires or cables within a group without damaging the insulation. The 200FP has been specifically designed to filter out all power related noise to eliminate "Power Line Hum." The unit is constructed of durable ABS plastic, weighs approximately 5 ounces and measures 9½ inches long. Power supply is any 9 volt battery with a life of approximately 100 hours. Optional belt-hung leather carrying case, 200C, available.

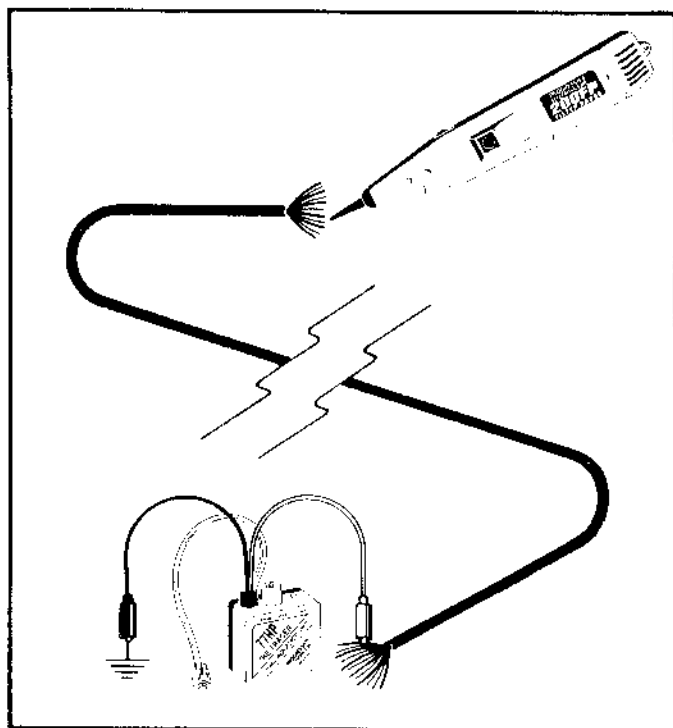


Figure 2. Tone Source Connection.

3. OPERATION

3.01 Identification by induction is accomplished by:

- (a) Connecting the tone generator.

In working cables that are terminated:

Connect one lead of a Progressive Electronics tone test set to a terminated wire and the other test lead to earth or equipment ground. (See Figure 2)

In non-working or unterminated cables:

Connect one test lead of a Progressive Electronics tone test set to an unterminated wire and the other test lead to another unterminated wire (i.e., tip and ring of an open pair).

- (b) To activate the 200FP, depress and hold the square on/off spring-loaded button.
- (c) Changes in temperature and battery power can alter the frequency of tones produced by any given tone generator. Under certain conditions, a tone test set may produce frequencies that fall into a range that will be blocked by the 200FP in the "FILTER" mode.

Prior to locating the tone at the far end of the conductor, confirm proper operation of the 200FP at the tone source. With the probe in the filter mode, depress the button and listen for a solid single tone or a complete warble tone at the tone generator. If no tone or only "half" of a warble tone is detected, use the 200FP in the "NORMAL" setting or replace the battery in the tone generator.

- (d) Once activated, the volume control switch can be adjusted to suit the environment. Reception of the tone can be increased to overcome noise (i.e., vehicular traffic, airplanes or engine room), or decreased to reduce interference or when working in noise sensitive environments.
- (e) The Model 200FP is equipped with recessed ports for connecting a lineman's handset. Attaching the handset automatically activates the amplifier. The handset must be in the TALK position.
- (f) To activate the 200FP without depressing the on/off button, connect a jumper wire to each terminal in the recessed ports.
- (g) Touch the tip of the 200FP to the insulation of each suspect conductor.
- (h) Reception of tone will be loudest on the subject wire. (Reception of the tone may be improved by separating the wires from the group.)

4. MAINTENANCE

4.01 The 200FP is maintenance free except for battery replacement. Remove the screw from the battery compartment, replace the 9 volt battery and reassemble. **DO NOT OVERTIGHTEN SCREW.** (See Figure 3)

4.02 Tips for the 200FP can be changed or replaced by removing the screw nearest the tip, then lifting off the access cover. Replace tip and reassemble. Use Progressive Electronics' part number **RPT-1 Replacement Plastic Tips** only. **DO NOT OVERTIGHTEN SCREW.**

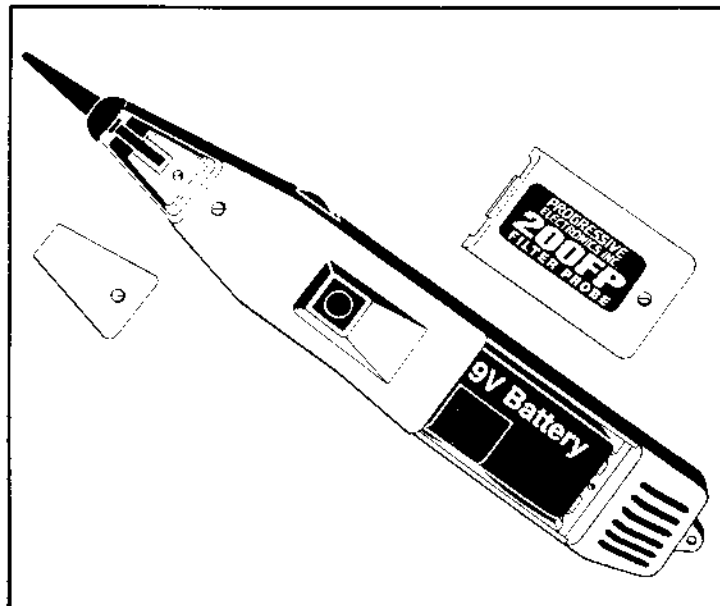


Figure 3.
Maintenance.