

## **MODEL 88 LOAD COIL DETECTOR**

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### **1. GENERAL**

1.01 This section covers the description and use of the Model 88 Load Coil Detector manufactured by Progressive Electronics, Inc.

1.02 The Model 88 is designed to indicate the presence and number of load coils on active or dead telephone pairs.

### **2. DESCRIPTION**

2.01 The Model 88 is housed in a black, high impact, plastic case measuring 4"x 2¼"x 1½". It weighs 4 ounces including the 9V NEDA type 1604 battery that powers the unit for 100 hours of operation.

2.02 A single control for on/off and frequency adjustment is provided. Test and battery condition indications are displayed on an analog meter. Connection to the pair is by red and black leads with insulated test clips.

### **3. OPERATION**

3.01 The battery should be tested before the test clips are connected to the pair. Turn the control knob clockwise to the "on" position. A less than full scale meter reading indicates battery replacement. See section 4.

3.02 Connect the test clips to the pair under test. Polarity is not important. Active, dead, terminated and open pairs can be tested. However, the Model 88 produces a variable frequency tone that may be objectionable on busy lines.

3.03 Note the meter reading with the control knob in the minimum "on" position (counterclockwise). Slowly rotate the knob clockwise. Any upscale reading of the meter indicates a load coil. Continue to rotate the knob to the fully clockwise position. An upscale reading will be followed by a downscale reading. Each upscale reading indicates a load coil.

3.04 An unloaded line will produce a continuous downscale indication on the meter as the control is rotated clockwise.



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3.05 Tests can be made from either end of the pair. Coils at the end of the pair will be indicated only if the test is made from the coil end or the coil end is shorted and the test is made from the opposite end.

3.06 A maximum of four load coils can be indicated from one test location. If a pair has more than four load coils, the additional coils can be indicated by testing the pair from an access point past the fourth coil.

3.07 Pairs should be tested every two or three miles for the best results.

### **4. MAINTENANCE**

4.01 Battery replacement is the only field maintenance required. To replace the battery, remove the four screws on the back of the unit. Remove the cover and replace the 9V NEDA type 1604 battery. Replace the cover and the four screws. Do not overtighten the screws.