

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

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84A TEST SET

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1. GENERAL

1.01 This section describes the 84A Test Set (Cableman's Talking Set) and the superseded D161013 and D177697 Test Sets used in splicing and testing toll cables.

1.02 The 84A set has both high and low impedance circuits. The D161013 set has only the high impedance, and the D177697 set only the low impedance circuit.

1.03 The high impedance circuit of the 84A set is intended for use on repeatered cableman's talking circuits so that it will not cause repeater singing regardless of the point at which the set is connected to the talking circuit; the low impedance circuit is used on non-repeatered cableman's talking circuits.

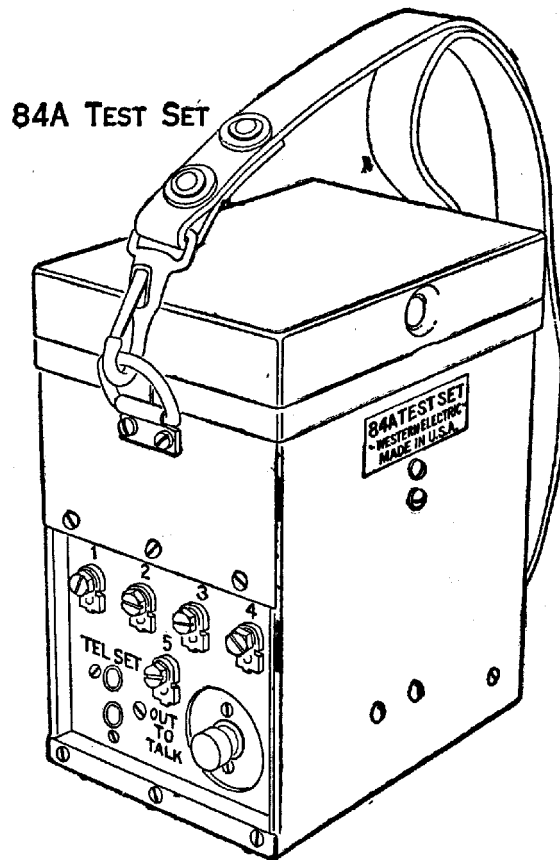
1.04 The high impedance D161013 can be used on repeatered or non-repeatered circuits but its efficiency on non-repeatered circuits is low. The low impedance D177697 set should be used only on non-repeatered circuits.

1.05 Information on the use of the sets is covered in other sections.

2. DESCRIPTION

2.01 The 84A Test Set, illustrated below, is contained in a metal case 6-7/8 inches long, 5 inches wide and 8-3/8 inches high having a gray enamel finish. The jacks, key and binding posts are mounted on an insulating panel accessible at one end of the case. The binding posts are designed to permit firm attachment of test clips. Space is provided in the case for the 63A Test Set or 52A Head Telephone Set, the test cords

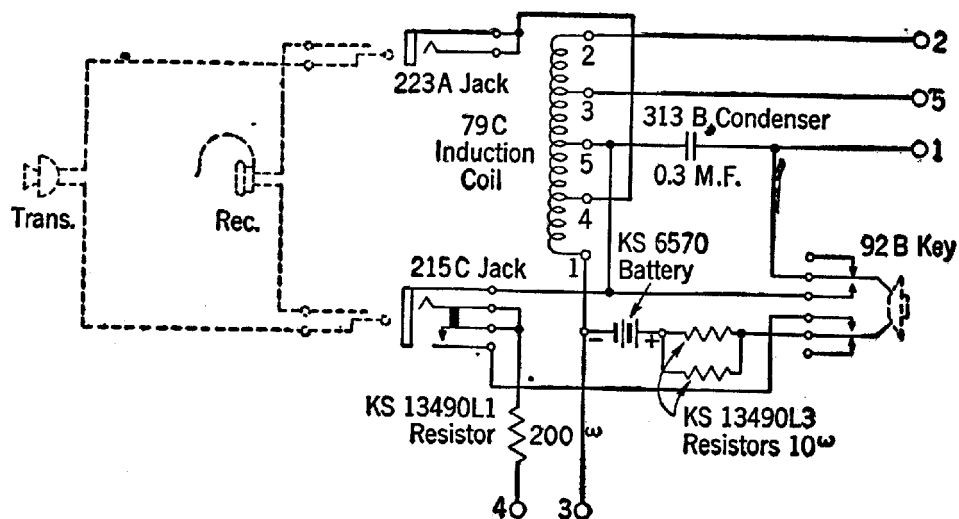
and the KS-6570 battery. The set weighs about six pounds exclusive of 63A set and battery. The D161013 and D177679 sets are similar in appearance to the 84A set except that the former sets do not have the No. 5 binding post.



2.02 The W2BH Cord is provided for connecting the test set to the talking pair. The cord is six feet long, one end is equipped with special test clips for making connection to the talking pair and the other end is equipped with 128 cord tips for making connection to the binding posts on the test set. The W2CN Cord is provided for interconnecting the set to an amplifier. This cord is six feet long, has No. 27 "Universal" test clips at one end and the other end is equipped with a No. 310 Plug.

2.03 On repeated circuits, the line should be connected to Terminals 1 and 2 and on non-repeated circuits it should be connected to Terminals 1 and 5. In making two-set continuity tests, the line should be connected to Terminals 1 and 5.

2.04 The circuit diagram of the 84A Test Set is shown below.



3. MAINTENANCE

3.01 The battery should be replaced when the voltage is less than 3-1/2 volts, with the talking set (63A) plugged into the jack and the key in the talking position.