BELL SYSTEM PRACTICES
Outside Plant Construction and Maintenance

SECTION G63.206.2
Issue 1, November, 1952
AT&T Co Standard

ELECTROLYSIS TESTING
KS-14416 TEST SET

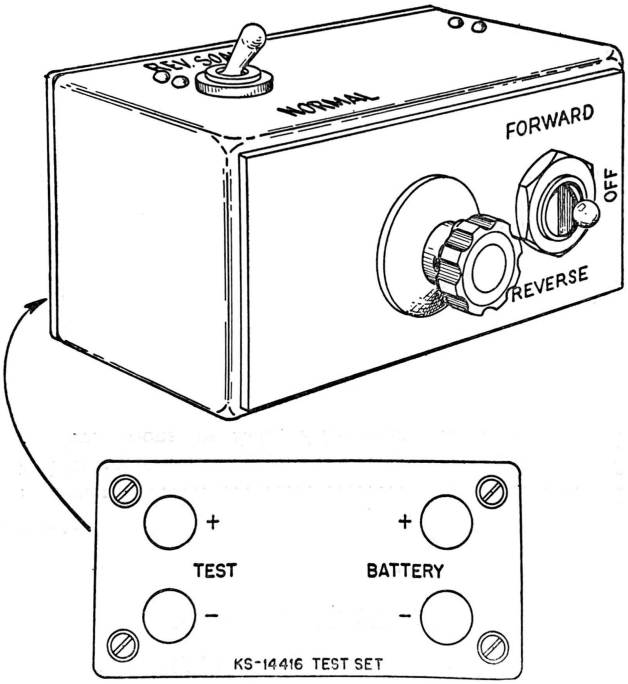
Contents **Page**

1. GENERAL

1.01 This section outlines the use of the KS-14416 Test Set in adjusting electrolysis switch relays.

1.02 A sketch of the test set is shown below.

KS-14416 TEST SET



2. DESCRIPTION

2.01 The KS-14416 Test Set is small enough to be conveniently carried in one hand. It is contained in a small metal case and the over-all dimensions are approximately 4-3/4" x 3-1/4" x 4-1/4".

2.02 There are two binding posts in the set for making connections to an external battery which consists of two No. 6 dry cells. There are two additional binding posts for connections to a voltmeter and to the electrolysis switch under test.

2.03 The test set is equipped with a potentiometer which permits ten full turns of the adjusting knob to travel full range.

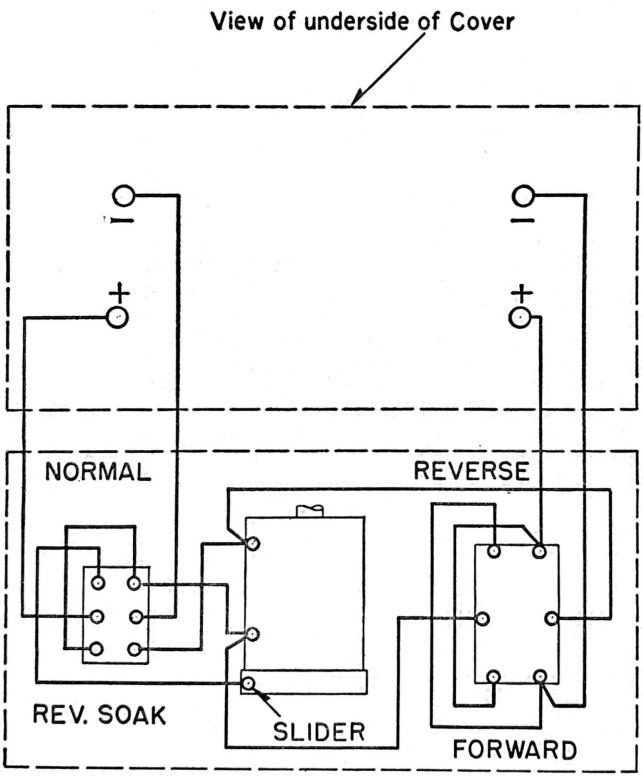
2.04 A 3-position switch provides for turning the battery current on or off and in forward or reverse directions through the test circuit.

2.05 A double-pole, double-throw switch provides for applying current to the relay winding in normal direction or in reverse for soaking. When thrown to reverse full battery voltage is applied to the test circuit.

2.06 Any voltmeter, of a type usually carried by an electrolysis tester, with a millivolt range from 0 to 3 volts is satisfactory for use with the set.

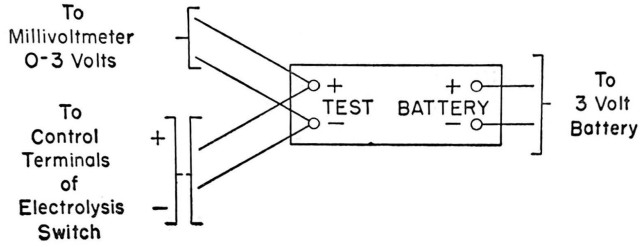
2.07 A schematic diagram of the test set is shown below.

WIRING DIAGRAM
OF
KS 14416 TEST SET



3. CONNECTIONS FOR RELAY ADJUSTMENTS

3.01 Connect the battery, voltmeter and electrolysis switch to the test set as illustrated below.



3.02 Specific instructions for the adjustments of relays of the KS-14385, KS-8274 and older types of electrolysis switches are covered in other sections of the Bell System Practices.