SWITCH TEST STANDS
AND
BENCH BATTERY SUPPLY
STEP-BY-STEP OFFICES

1. GENERAL

1.01 This Section describes the method of modifying the switch test stand ED-30712-30, G1 in the field and the method of providing battery supply outlets at the work bench.

1.02 Switch test stands modified in accordance with this Section are intended for use in adjusting and testing linefinders, trunkfinders, selectors, connectors, test distributors and reverting call selectors. Switches with or without condensers on the rear may be placed on this stand. A key is provided in order to set up the correct connections according to the type of switch under test. Repeaters and toll transmission selectors will continue to be tested in unmodified test stands.

1.03 The bench battery supply outlets described in this Section are intended to supplement the existing facilities, in order to provide battery supply to such test sets as the Relay Timing Test Set, the Pulse Repeating Test Set, etc., when these test sets are used in addition to the Current Flow Test Set, which is plugged into the jack on the test stand.

1.04 New test stands having the above features may be obtained by ordering "Switch Test Stand ED-30712-30 G1 modified as per ED-3217-30 Group 1".

2. METHOD

2.01 Switch Test Stand. The method of modifying the test stands in the field is shown on Drawing ED-3217-30, Figures 1 and 3. The material required, may be obtained by ordering, for each stand to be modified, one set of modification details per Group 1, ED-3217-30. Drill the two verticals of the stand to provide mounting holes for the three added mounting plates.

Figure 1 of this Section illustrates the added mounting plates and apparatus.

2.02 Wiring to be added is shown in Figure 3 of Drawing ED-3217-30 and in Figure 2 of this Section. The existing wiring on the stand is shown in dotted lines.

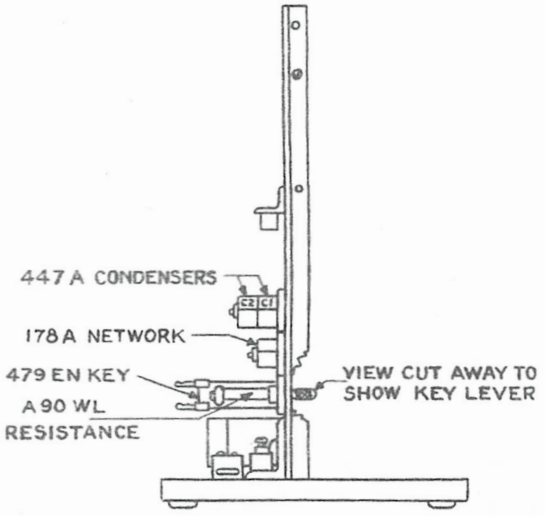

Fig. 1 - Modification of Test Stand

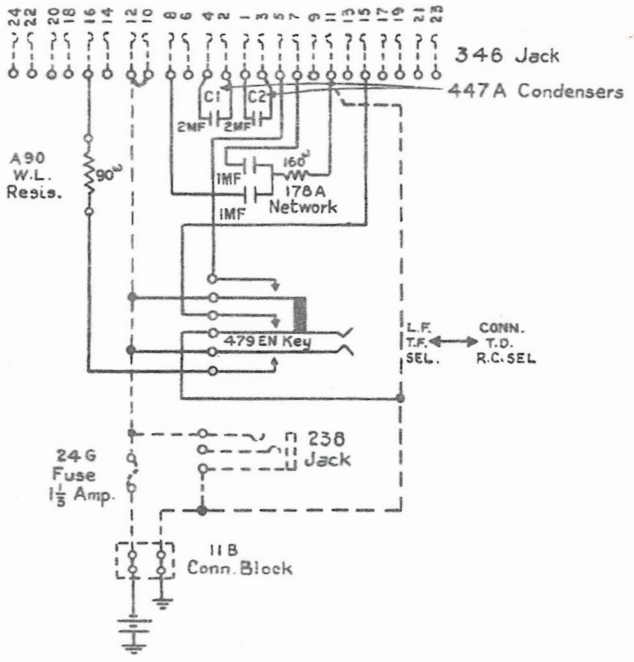

Fig. 2 - Wiring of Test Stand

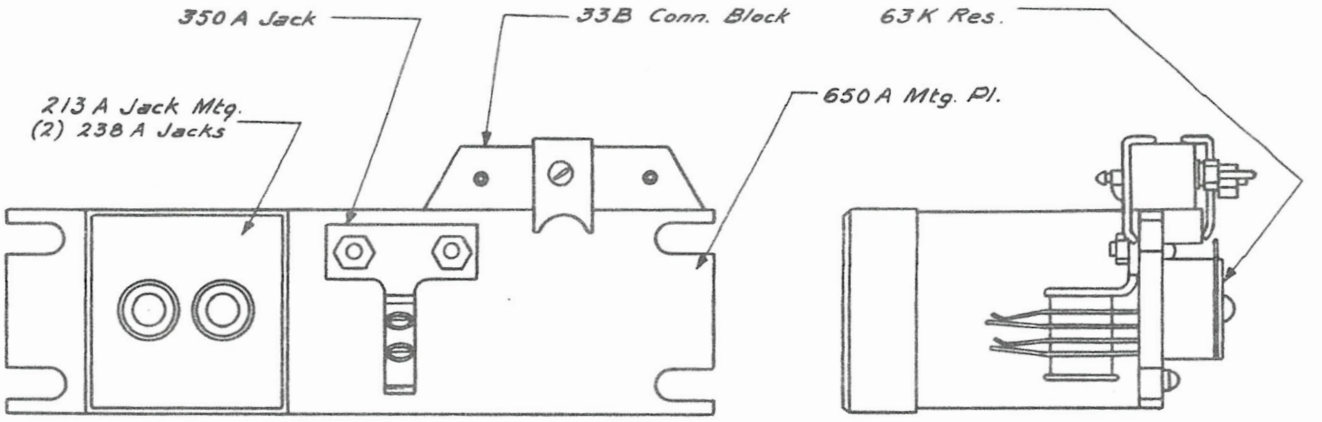

Fig. 3 - Bench Battery Supply Jacks

2.03 Bench Battery Supply. The bench battery supply jacks as shown in Figure 3 of this Section are covered by Figures 2 and 4 of Drawing ED-3217-30. The material required for each position on the work bench may be ordered as Group 2, ED-3217-30. The lengths of wire and cable required must be ordered separately. Locate the mounting plate conveniently, either on the top of the table at the rear, or under the table at the end, above the extension, if the table is so equipped. Drill two holes in the table to mount the two brackets.

2.04 Wiring. The wiring, which is shown in schematic form in Figure 4 of this Section is covered by Drawing ED-3217-30, Figure 4.

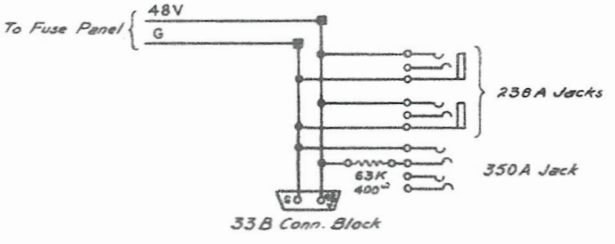

Fig. 4
Wiring of Bench Battery Supply Jacks

3. DESCRIPTION

3.01 Switch Test Stands. The test stand modification described herein provides a means of testing at the bench as many varieties of switches as practicable. As covered in paragraph 1.02, linefinders, trunkfinders, selectors, connectors, test distributors and reverting call selectors with or without condensers on the rear coverplate may be placed on this stand. In addition to this stand, two unmodified stands will be required, one for repeaters and another for toll transmission selectors.

3.02 A two-position switching key (479 type) is designated to show the key position for the different types of switches. In the normal position, the key prepares the test stand for operating connectors, test distributors and reverting call selectors. In the operated position the key prepares the test stand for operating linefinders trunk finders and selectors, excluding toll transmission selectors and reverting call selectors.

3.03 A 90 ohm Ward-Leonard resistor under control of the switching key is intended to limit the current to the C relay of certain digit absorbing selectors.

3.04 Spark absorbing networks independent of the switching key are provided to protect the relay contacts.

3.05 The 2MF condensers are provided to permit connectors without condensers on the rear to be pulsed on the stand under shelf conditions.

3.06 Bench Battery Supply. One set of battery supply jacks as shown in Figs. 3 and 4 is intended for each bench position and an individual fuse and separate cabling is provided for each Fig. 4 in order to limit the voltage drop. When more than one Fig. 4 is provided, one pair of battery supply leads must be run for each figure.

3.07 Two 238 type jacks are provided for use with test set cords to supplement the jack on the test stand. The 350 type jack is intended for use with a test lamp (using a switchboard type lamp), the cord of which is terminated on a 240 type plug and the 33B connecting block is for use with cords having test clips.