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CIRCUIT DESCRIPTION SYSTEMS DEVELOPMENT DEPARTMENT PRINTED IN U.S.A. CD-21485-01 Issue 2-D September 26, 1935 (2 Pages) Page 1

PANEL SYSTEM MISCELLANEOUS CIRCUIT FOR TIMING UNIT RELAY RACK FOR LINE FINDER AND DISTRICT CIRCUITS MODIFIED FOR ZONE AND OVERTIME REGISTRATION

B. CHANGES IN APPARATUS

B.1 Added.

One 238 Type (E) Jack (Fig. 7)

B.2 Superseded

Superseded By

Two 221 Type (TEL) Jacks, (Fig. 1) Two 223 Type (TEL) Jacks, (Fig. 1)

- D. DESCRIPTION OF CIRCUIT CHANGES
- D.1 Fig. 7 is added to provide for remote control line to third automatic test circuit for subscribers district selectors having access to districts served by the rack.
- D.2 Circuit Notes 105 and 106 are added.
- D.3 Table showing assignment of jacks is removed.
- D.4 Fig. 7-K is added to provide cross-connections for Fig. 7 as covered under D.1.

All other headings, no change.

DEVELOPMENT

1. PURPOSE OF CIRCUIT

1.1 These circuits provide the talking jacks and miscellaneous test jacks for the timing unit relay rack.

2. WORKING LIMITS

2.1 None.

OPERATION

3. FUNCTIONS

- 3.1 To provide a frame line for talking between frames and to the "A" switchboard.
- 3.2 To provide miscellaneous testing jacks as specified on the drawing.

4. CONNECTING CIRCUITS

4.1 Automatic district test circuit.

4.2 Frame line circuit.

DETAILED DESCRIPTION

5. FRAME LINE BETWEEN FRAMES (FIG. 1)

Communication may be established with the "A" switchboard by inserting the plug of an "A" board cord in the "A" board jack and plugging an operator's telephone set into the frame jacks. Connection may be made between two or more frames by plugging operators' telephone sets into the frame line jacks at these frames. Talking battery is supplied to the line through the connecting circuit. No signaling is provided.

6. FRAME TEST BATTERY (FIG. 2)

Connecting blocks with four terminals each are provided on the front and the rear of the frame to supply 24 volt battery, 48 volt battery, ground and ground through 12,000 ohms resistance for testing purposes. Ground and 48 volt battery are connected to the sleeve and tip respectively of jack (A) into which the plug of a test set cord may be inserted.

7. TEST BATTERY SUPPLY (FIG. 3)

The battery fuses and resistances required for Fig. 2 are supplied by this figure.

8. SPARE JACK (FIG. 4)

Jack (B) is provided to meet possible future requirements for miscellaneous jacks. It is cabled to the I.D.F.

9. REMOTE CONTROL LINE (FIGS. 5, 6 AND 7)

Jacks (C), (D) and (E) are provided to extend the function of the (CA) key in the automatic district test circuit to the timing unit relay rack.

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