PANEL SYSTEM
LINE CIRCUIT
TRAFFIC RECORDER'S TALKING LINE
FOR USE BETWEEN THE TRAFFIC REGISTER RACK AND A POINT SPECIFIED BY THE TELEPHONE COMPANY

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 Rating of drawing is changed from "A.& M. Only" to "Mfr. Disc."

D.2 Replacement note "Replaced by SD-21661-01" is added.

All other headings, no change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 332

LBS)
WLF) SH

CIRCUIT DESCRIPTION
BELL TELEPHONE LABORATORIES, INC.,
SYSTEMS DEVELOPMENT DEPT., NEW YORK.
PRINTED IN U.S.A.

PANEL SYSTEM
LINE CIRCUIT
TRAFFIC RECORDER'S TALKING LINE
FOR USE BETWEEN THE TRAFFIC REGISTER RACK AND A POINT SPECIFIED BY THE TELEPHONE COMPANY

CHANGES

A. CHANGED AND ADDED FUNCTIONS

A.1 None.

B. CHANGES IN APPARATUS

B.1 None.

C. CHANGES IN CIRCUIT REQUIREMENTS OTHER THAN THOSE APPLYING TO ADDED OR REMOVED APPARATUS

C.1 None.

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 The rating has been changed from "Standard" to "A & M Only".

D.2 Prior to issue 5-D the 221 type jacks in figures 1 and 2 and note 107 were 221C.

D.3 Prior to issue 5-D the resistance of the induction coil windings 1 and 2 and 3 and 4 were 14 and 9 respectively.

D.4 Prior to issue 5-D the first line of the title was "Panel Machine Switching System".

D.5 Prior to issue 5-D note 105 was as follows:- A 534-A subscribers set may be substituted for the 46 induction coil and 1 M.F. condenser.

DEVELOPMENT

1. PURPOSE OF CIRCUIT

1.1 No change.

2. WORKING LIMITS

2.1 No change.

OPERATION

3. FUNCTIONS

3.1 No change.

4. CONNECTING CIRCUITS

4.1 No change.

DETAILED DESCRIPTION

5. No change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 332-A

EBS)
WHM) FF

PANEL MACHINE SWITCHING SYSTEM
LINE CIRCUIT
TRAFFIC RECORDER'S TALKING LINE
FOR USE BETWEEN THE TRAFFIC REGISTER RACK AND A POINT SPECIFIED BY THE TELEPHONE COMPANY

CHANGES

A. CHANGED AND ADDED FUNCTIONS

A.1 None.

B. CHANGES IN APPARATUS

B.1 None.

C. CHANGES IN CIRCUIT REQUIREMENTS OTHER THAN THOSE APPLYING TO ADDED OR REMOVED APPARATUS

C.1 None.

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 Formerly, connection between Figs. 1 and 2 was not shown optional and connection to outgoing trunk circuit was not shown for Fig. 1.

D.2 Circuit notes 108, 109 and 110 were added. Reference to notes 106, 108, 109 and 110 was added in Fig. 1. Reference to note 110 was added in Fig. 2.

D.3 Circuit note 104 was changed to indicate that this note applies to Fig. 2.

DEVELOPMENT

1. PURPOSE OF CIRCUIT

1.1 This circuit is for use in transmitting the traffic register readings to a recorder who may be located at a distant point.

2. WORKING LIMITS

2.1 Maximum resistance of trunk 750 ohms.

OPERATION

3. FUNCTIONS

3.1 To provide an individual talking circuit between the traffic register rack and a point specified by the telephone company.

3.2 To furnish talking battery to both parties on the line when the circuit is used as a direct talking line.

4. CONNECTING CIRCUITS

4.1 Operator's telephone circuits.

4.2 Outgoing trunk circuits.

DETAILED DESCRIPTION

5. When a direct talking line between the traffic register rack and the traffic recorder's desk is required, Figs. 1 and 2 are used. Both ends of the line are equipped with jacks. The talking circuit is complete as soon as operator's telephone sets are plugged into the jacks at both ends of the line. Battery is supplied to the set at the rack end through the 12-L retardation coil, and to the set at the distant end through the 54-J retardation coil. No signaling is provided.

When a talking line arranged for switchboard connection is required, Fig. 1 is furnished at the traffic register rack and also at the traffic recorder's desk. These circuits terminate in outgoing trunk jacks at the M.S. "A" switchboard. A standard M.S. "A" cord circuit is used to establish the connection, talking battery being supplied by the cord circuit.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 332-A

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