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COMMON SYSTEMS
MISCELLANEOUS CIRCUIT
FOR
AUXILIARY SENDER FRAME
PANEL AND NO. 1 CROSSBAR

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 CAD 1 is changed to bring it into agreement with Bell System Practices which specify that on a "D" type terminal strip all pairs or triples should terminate on the same horizontal row.

TELEPHONE LABORATORIES, INCORPORATED

2311-DEW-MFF-DB

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CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 Provision is made for remote control facilities for each test frame having access to the auxiliary senders mounted on the frame by providing one "SDT" jack per test frame up to a maximum of four.

D.11 The SDT jack is removed from App. Fig. 1 and is added as App. Fig. 2.

D.12 App. Fig. 2 is added to notes 102 and 104.

D.13 Note 105 is added to indicate that prior to issue 4-B Fig. 2 was part of Fig. 1.

D.14 FS 5 is changed to show that the "T", "R" and "S" leads connect "to SDT jacks in other auxiliary sender miscellaneous circuits associated with same sender test frame".

BELL TELEPHONE LABORATORIES, INCORPORATED

DEPT. 2311-DEW-MFF-BT

CIRCUIT DESCRIPTION

CD-96491-01
Issue 1
Appendix 2-D
Dwg. Issue 3-D

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D. DESCRIPTION OF CIRCUIT CHANGES

D.1 On Sheet 2, locations C5, C8, E5 and E8, terminal numbers are added to the 223A and 238A Jacks to bring them into agreement with the standard terminal numbering practice for jacks.

All other headings, no change.

BELL TELEPHONE LABORATORIES, INCORPORATED

DEPT. 5241-ESS-AFB-F5

COMMON SYSTEMS
MISCELLANEOUS CIRCUIT
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CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 Spare jack - FS6, leads to MDF are designated for No. 1 Crossbar, or IDF for Panel.

D.2 Sheet 3, CAD2 and CAD3 bottom of terminal strips were designated HMDF. Now designated HMDF - No. 1 Crossbar,

VIDF - Panel. CAD1 is changed to agree with standard manufacturing information.

D.3 Supporting Information, Sheet 1 is changed to read - Equipment Design Reg. Aux. Sdr. Frame - J95103. Equipment Dwg. Aux. Sdr. Frame - J95103A ().

D.4 Resistor 20A of FS1 is now designated PF.

All other headings, no change.

BELL TELEPHONE LABORATORIES, INCORPORATED

DEPT. 2314-MBC-CGM-HA

COMMON SYSTEMS
MISCELLANEOUS CIRCUIT
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PANEL AND NO. 1 CROSSBAR

SECTION I - GENERAL DESCRIPTION

This circuit is designed for use in Crossbar #1 and Panel offices. It provides the miscellaneous apparatus mounted on the Auxiliary Sender Frame, and includes frame test battery, fuse alarms and limited facilities for testing.

SECTION II - DETAILED DESCRIPTION

1. FUSE ALARM - FS1, FS2

The operation of the 20 amp feeder fuse followed by the operation of the parallel 1-1/3 amp pilot fuse, or the operation of any 1-1/3 amp circuit fuse, (FS2), connects -48 volt battery through the operated contact of the fuse, through the FA resistor to the "F" lead of the Floor Alarm Frame Fuse and Time Alarm Circuit. The FA lamp lights from ground in the floor alarm frame fuse and time alarm circuit. The lamp is extinguished when the operated fuse is removed.

The 20 amp feeder fuse shall be replaced before its associated pilot fuse is replaced.

The 1075 ohm resistor shunting the FA lamp is used to prevent an open alarm circuit in case the FA lamp is removed. The 220 ohm series resistor is used to protect the alarm lead between the FA lamp and the -48 volt source in case of a trouble ground. Resistor 20A, 220 ohms, is used to protect the pilot fuse.

2. -48 VOLT FRAME TEST BATTERY - FS3

Test terminals are furnished on the frame to supply -48 volt battery, direct ground and high resistance ground, (through a 12,000 ohm resistor), for testing purposes. Test battery jack A is provided for use with test sets.

3. FRAME LINE BETWEEN FRAMES - FS4

Communication may be established between two or more frames by plugging operator telephone sets into the TEL jacks at these frames. Talking battery is supplied

through the connecting circuit. No arrangement for signaling is provided.

4. SENDER TEST CIRCUIT REMOTE CONTROL JACK - FS5

The SDT jack is connected to the sender test circuit to control the testing of the subscriber and auxiliary sender circuit.

5. SPARE JACK - FS6

Jack B is provided to meet possible future requirements for jacks.

SECTION III - REFERENCE DATA

1. WORKING LIMITS

None

2. FUNCTIONAL DESIGNATIONS

TBS - Test Battery Supply

3. FUNCTIONS

3.1 To provide visual and audible signals when a frame fuse operates.

3.2 To provide battery and ground terminals for testing purposes.

3.3 To provide a frame line for talking between frames.

3.4 To provide remote control jacks for the sender test circuit.

3.5 To provide a spare jack for patching between frames.

4. CONNECTING CIRCUITS

4.1 Power Battery Distributing Circuit - SD-80909-01.

4.2 Local Frame Line Circuit SD-96379-01.

4.3 Sender Test Circuit SD-25221-01.

4.4 Floor Alarm Frame, Fuse and Time Alarm Circuit SD-24046-01.