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COMMON SYSTEMS
LOCAL FRAME LINE CIRCUIT

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 Figure 1 is changed to provide for connection to the 17B Toll Testboard and to the Teletypewriter Switchboard No. 6A.

D.2 Titles and connecting information of cross connection Figures 54, 56, 57 and 58 were changed and Figure 60 is added to reflect the above.

D.3 Note 102 was changed in reference to the above and to add Figure 2 at relay rack bays as required.

1. PURPOSE OF CIRCUIT

1.1 This circuit is used for communication between various frames, and relay racks and between the switchboards, testboards or operating room desks and the frames or relay racks.

2. WORKING LIMITS

2.1 None.

3. FUNCTIONS

3.1 Provides talking connection between frames and relay racks and between frames or relay racks and the switchboards, testboards or operating room desks.

3.2 Provides talking battery for the telephone set transmitter at the frames or relay racks.

3.3 Provides condensers for blocking the flow of direct current between the switchboards or testboards and the frame line circuit.

4. CONNECTING CIRCUITS

When this circuit is listed on a keysheet the connecting information thereon is to be followed.

4.01 Crossbar Systems No. 1. Miscellaneous Circuit for Relay Rack Bays - SD-25440-01.

4.02 Panel System. Miscellaneous Circuit for Incoming Selector Frames - SD-21229-01.

4.03 Crossbar Systems Tandem. Miscellaneous Circuit for Tandem Trunk Frame - SD-25370-01.

4.04 Toll Switching System No. 4 Miscellaneous Circuit for Block Relay Frame - SD-68024-01.

4.05 Toll Switching System No. 4 Miscellaneous Circuit for Automatic Test Frame - SD-68209-01.

4.06 Miscellaneous Circuit for A-C Key Pulsing Frame - SD-95303-01.

4.07 "A" Switchboard OGT With Sleeve Resistance Fig. 4 - SD-96164-01.

4.08 Toll Testboard No. 17C. Jack Circuit With No Lamp - SD-67122-01.

4.09 Telephone Circuit for Make Busy Frame - SD-21638-01.

4.10 Toll Testboard No. 17C Cord Circuit - SD-68092-01.

4.11 Toll Testboard No. 17C Position Circuit - SD-68093-01.

4.12 Crossbar No. 5. Master Test Frame Telephone, Key and Lamp Circuit - SD-25744-01.

4.13 Crossbar No. 5. Miscellaneous Circuits for All Frames - SD-25574-01.

4.14 Crossbar No. 5. OGT Jack Ckt. In 3C Switchboard - SD-64545-01.

4.15 Toll Testboard No. 17B or 18B Jack Circuit - SD-64545-01.

4.16 Toll Testboard No. 18B Secondary Cord Circuit - SD-55033-01.

4.17 Toll Testboard No. 18B Secondary Position Circuit - SD-55034-01.

4.18 Trunk Auto. Test Ckt. Arranged for AMA - SD-25960-01.

4.19 Sender Test Ckt, for P.C.I. Tandem Senders Arranged for AMA - SD-25963-01.

4.20 Traffic Register Cabinet Circuit - SD-95531-01.

4.21 Teletypewriter Switchboard No. 6A Jack and Lamp Circuit - SD-71015-01.

4.22 Toll Testboard No. 17B Position Circuit - SD-64616-01.

4.23 Toll Testboard No. 17B (Typical Cord Circuit) - SD-64613-01.

4.24 The circuits listed above are typical and this circuit may be used with other similar circuits.

DESCRIPTION OF OPERATION

5. Communication between frames or relay racks served by this frame line circuit may be established by plugging operator's telephone sets into the jacks at the different frames or relay racks. For communication between a frame or relay rack the "A" switchboard or 3C switchboard, the operator's telephone set at the switchboard is connected to the frame line by means of a regular cord, which is plugged into the frame line jack appearing in the O.G.T. multiple. When the frame line appears on the sender make-busy frame, the master test frame, the tandem office sender test frame arranged for AMA or the tandem office trunk automatic test frame arranged for AMA, the telephone set is connected to the frame by means of a key.

For communication between a frame or relay rack and the toll testboard No. 18B, the operators telephone set at the testboard is connected to the frame line by means of the test cord which is plugged into the frame line appearing in the trunk jacks.

For communication between a frame or relay rack and the operating room desk, the maintenance man's telephone set is connected to the frame line by means of a double jack shown in Fig. 2 which is located at the desk and at the frame or relay rack bay.

When this circuit connects to a 3C or 3CL switchboard or toll testboard No. 17B or 18B, "V" wiring and apparatus is furnished to provide the proper sleeve condition.

When this circuit connects to a toll testboard No. 17C "W" wiring and apparatus is furnished to properly function the position circuit for the No. 17C toll testboard.

The retardation coil supplies battery for the various telephone sets, except those at the switchboards, the sender make-busy frame, the master test frame, the tandem office sender test frame arranged for AMA or the tandem office trunk automatic test frame arranged for AMA, which contain their own transmitter battery feed. The frame line has no means for signaling.

A varistor is connected across the receiver circuit of the frame line to reduce the intensity of loud clicks occurring on the line.

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