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COMMON SYSTEMS  
PATCHING JACK CIRCUIT  
FOR CALL THRU TEST SET  
AND FOR CROSSBAR OFFICE NO. 1 OR 5  
M.D.F. INTERMITTENT TROUBLE  
TEST TRUNK CIRCUITS  
FROM LOCAL TEST DESK NO. 14

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 Wirings in figures 1 and 5 now designated "G" and "M" were not so designated prior to this issue.

D.2 Options G and M are added to notes 106 and 105.

D.3 Options used table is added.

D.4 The phrase "for use with call thru test set" is added in note 101.

D.5 Reference to figure 2 is added in note 107 and in note 108 where figs. 15, 17 and 18 are referred to, fig. 15 only was referred to.

All other headings, no change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 3310-MHK-RLI-GJ

REPRODUCED BY THE HAWTHORNE PRINT SHOP

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M.D.F. INTERMITTENT TROUBLE  
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CHANGES

B. CHANGES IN APPARATUS

B.1 Added

B.1.1 3P34A patching cord equipped with a 324A plug and a 351A plug for connecting from the jack in the miscellaneous circuit to the line switch. (Fig. 18)

B.1.2 238 Jack (TL) Fig. 17.

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 "M" lead designation in Fig. 1 changed to "S or M".

D.2 Reference to note 108 added in Figures 1 and 15. Figure 15 title extended to include crossbar No. 5.

D.3 Note 108 added.

D.4 Figs. 17 and 18 added.

D.5 Note 105 changed to include crossbar No. 5.

All other headings under "Changes", no change.

1. PURPOSE OF CIRCUIT

1.1 The purpose of this circuit is to provide ease and facility in connecting the call through test set to various line groups. By the simple use of patching cords in connecting certain jacks at this jack panel, any of the ten test lines may be connected to any line group in a dial office.

1.2 In Crossbar Office No. 1 or Crossbar No. 5, an additional purpose for this circuit is to provide patching facility for patching the sleeve lead of M.D.F. intermittent trouble test trunk from the (LTD) jack at the jack panel to the line under test at the crossbar switch, via the (TL) jack at the line link frame.

2. WORKING LIMITS

2.1 None.

3. FUNCTIONS

3.1 Provides a test set jack or jacks for each test line from the test set.

3.2 Provides a test line jack or jacks for each test line to a line group.

3.3 Provides a test jack for each M.D.F. Intermittent Trb. trunk at jack panel.

3.4 Provides patching cords to interconnect various combinations of these three groups of jacks.

3.5 Provides test cord and plug for connecting the test line to line circuits at the line link frame in crossbar offices.

3.6 Provides means for cross-connecting for testing two party lines.

3.7 Provides for patching to message rate lines using 50 point line finders in step-by-step offices.

4. CONNECTING CIRCUITS

4.1 Call through test set circuit, SD-96063-01.

4.2 Subscriber line circuit at the I.D.F. in panel offices, SD-21712-01.

4.3 Misc. circuits for line link frame, crossbar No. 1 SD-25060-01, Crossbar No. 5, SD-25745-01.

4.4 Test Trk. Ckt. at M.D.F. for testing Intermittent Tbl. in crossbar offices, SD-25505-01.

DESCRIPTION OF OPERATION

5. CIRCUIT OPERATION

5.1 When the Call Through Test Set is to be used in any panel, step-by-step or crossbar office it is necessary to make use of the jack panel to connect the test set lines to the subscriber lines in the various line groups. Ten lines connecting the Call Thru Test Set to the patching jack panel terminate

in the (TS) or (TSR) jacks. Subscribers lines terminate on the (TL) or (TLR) jacks in the jack panel. In crossbar offices the (TL) jack on the panel is wired to the (TL) jack on the Line Link Frame whence it is patched to the subscribers line on the crossbar switch. In panel and step-by-step offices the (TL) jack on the panel is wired to the line circuit, thru the I.D.F. Having determined the ten groups of lines in which calls are to be originated for through calling tests, the test man will use ten patching cords at the jack panel to associate each of the ten desired line groups with a particular test set line. The particular jacks supplied are determined by the type of office and the service provided in that

office as indicated by Notes 101 to 103, inclusive and 108. Upon completion of the proper patching, the call through test set may be used for through calling tests. When Figure 9 is used, patch jacks (TS) and (TSR) for tip party and jack (TS) alone for individual or ring party message rate line.

5.2 When Intermittent Trouble Trunk Circuits are used in crossbar offices the "S" lead of the trunk terminates at the (LTD) jack on the patching jack panel. The (LTD) jack is patched to the (TL) jack associated with the line group having the intermittent trouble. The associated (TL) jack on the Line Link frame is then patched to the desired line.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 3340-MEK-AJB

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