

SD-32128-01	1D99	
		AT&TCO STANDARD
Step By Step Systems		A&M ONLY FOR SD-356AB35E97
NO.1, 350A, 355A, 356A, OR 35E97 CONNECTOR BANK MULTIPLE CIRCUIT		
	(2)	SD-32128-01
BELL TELEPHONE LABORATORIES INCORPORATED	65	4 SHEETS PRINTED IN U.S.A.

EQUIPMENT NOTES:

201. THE CROSS CONNECTING ARRANGEMENTS FOR PBX GROUPS OF MORE THAN 10 TRUNKS ARE COVERED ON SD-30324-01 (MFR DISC.) AND SD-31270-10.
202. ON ISSUE 3D, FIGS. 58 AND 59 WERE ADDED.
203. FOR 20 PTY 2 TPL WITH BRIDGED RINGING THE CONNECTOR BANK MULT APPEARANCE FOR STATIONS 1 TO 10 SHALL APPEAR ON ONE LEVEL AND STATIONS 11 TO 20 ON ANOTHER LEVEL, SINCE THE STATIONS ON ONE LEVEL (1-10) WILL BE RUNG WITH CODES 1 TO 10 AND THE STATIONS ON THE OTHER LEVEL (11-20) WILL BE RUNG BY THE SAME IDENTICAL 10 CODES EXCEPT THEY WILL BE PRECEDED BY A "PRE-RING" CONTROLLED BY A NORMAL POST RINGING WHICH OPERATES ONLY WHEN THE LEVEL IN WHICH STATIONS 11 TO 20 ARE LOCATED IS DIALED.
204. IN THE CASE OF OVERFLOW ROTARY HUNTING CONNECTOR SHELVES IN NO. 1 OFFICES THAT ARE ON A SEPARATE FRAME FROM THE FRAME ON WHICH THE INITIAL SHELF OF THE GROUP IS LOCATED, AND WHERE THIS SEPARATE (OVERFLOW) FRAME IS ASSOCIATED WITH A DIFFERENT CONNECTOR TEST LINE THAN THE INITIAL FRAME, THE "PRE-RING" LEADS OF THE MULTIPLE CABLE TO THE PRECEDING SHELF FOR THE "90" CONNECTOR TEST LINE TERMINAL SHALL BE LEFT UNCONNECTED AT THE BANK TERMINAL STRIP OF THE FIRST SUCH OVERFLOW SHELF ON THE FRAME, AND THE MULTIPLE CONNECTION MADE INSTEAD TO THE CONNECTOR TEST LINE TERMINAL (99 OR 90 AS REQUIRED) OF THE NEAREST SHELF NORMALLY ASSOCIATED WITH THE CONNECTOR TEST LINE ON THIS OVERFLOW FRAME. IF INITIALLY, THERE IS NO OTHER SHELF ON THE OVERFLOW FRAME THAN SUCH OVERFLOW ROTARY HUNTING CONNECTOR SHELVES, THE ABOVE MULTIPLE OF THE "90" TERMINALS OF THE OVERFLOW SHELVES SHALL BE MULTIPLIED WITH THE CONNECTOR TEST LINE TERMINAL OF THE NEAREST SHELF OF AN ADJACENT FRAME, AND A MULTIPLE SET OF (90/99) JACKS OF THE CONNECTOR TEST LINE FOR THAT FRAME PROVIDED ON THE OVERFLOW FRAME. IF THE CONNECTOR TEST LINE EMPLOYED IS THE ONE THAT WOULD NORMALLY BE USED FOR THE OVERFLOW FRAME, THE ABOVE CONNECTIONS MAY BE LEFT PERMANENTLY IN PLACE.
205. THE UNUSED LEVELS OF THE TEST CONNECTOR BANK MULTIPLE ASSOCIATED WITH PLUGGING-UP LINES MAY BE ASSIGNED FOR LINE INSULATION TEST CONTROL PURPOSES, PER FIG. 63 OR 68 THESE LEVELS, IF SUFFICIENT IN NUMBER TO MEET JOB REQUIREMENTS, ARE ASSIGNED TO THE LINE INSULATION TEST CONTROL CKT (ONE LEVEL PER TEST DISTRIBUTOR UP TO A MAXIMUM OF 5) TO BE ASSOCIATED WITH A PARTICULAR LINE INSULATION TEST FRAME. LEADS DESIGNATED "TI-" ARE NUMBERED CONSECUTIVELY FROM "T1" TO "T5" ONE FOR EACH TEST DISTRIBUTOR ASSIGNED.
206. WHEN A BANK TERMINAL STRIP ON TEST CONNECTOR SHELF FOR PLUGGING-UP LINES IS NOT PROVIDED, STRAPPING OF THE BANK TERMINALS FOR LINE INSULATION TEST CONTROL SHALL BE IN ACCORDANCE WITH THE TYPICAL PATTERN SHOWN ON SD-30399-01.
207. WHEN PLUGGING-UP LINE TEST CONNECTOR HAS INSUFFICIENT LEVELS TO BE USED FOR LINE INSULATION TEST CONTROL PURPOSES, A TEST TRUNK AND SELECTOR CKT MAY BE PROVIDED FOR LINE INSULATION TEST CONTROL, MOUNTED ON A RELAY RACK MOUNTED SELECTOR SHELF WITH BANK MULTIPLE TERMINAL STRIP WIRED TO AGREE WITH FIG. 63 OR 68 BY THE INSTALLER.
208. THE CABLING DIAGRAMS OF FIGS. 51 TO 55, INCL, AND FIG. 63 & 68, SHOW THE ORIENTATION OF PUNCHINGS OF TERMINAL STRIPS USED ON SHELVES ACCOMMODATING SOLDERED TYPE CONNECTIONS. FOR SHELVES USING SOLDERLESS WRAPPED CONNECTIONS ON THE MACHINE CLINCHED TYPE BANK MULTIPLE TERMINAL STRIPS, THE PUNCHINGS ARE ORIENTED AS DEPICTED IN FIG. 64.

FIG. 51
(FOR FIGS. 1 & A)
NO. 1, 350A, 355A, 356A, OR 35E97
SEE NOTES 104, 208

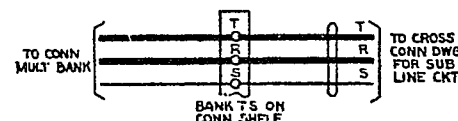


FIG. 52 (MFR DISC.)
(FOR FIGS. 1, 3, A & B)
NO. 353A
WHEN LINE CKTS AND CONNECTORS ARE CROSS CONNECTED AT SW PRS
SEE NOTE 208

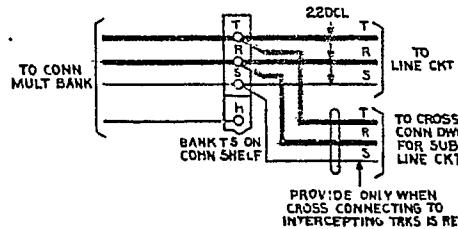


FIG. 53
(FOR FIGS. 2 & C)
NO. 1, 350A OR 355A
SEE NOTE 208

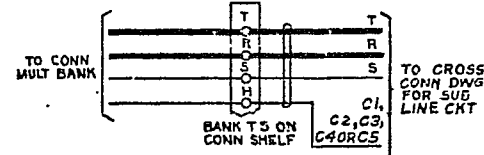


FIG. 54
(FOR FIGS. 2 & D)
NO. 355A
SEE NOTE 208

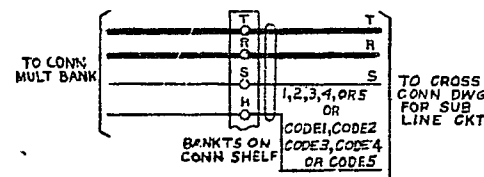


FIG. 55
(FOR FIGS. 2 & F)
NO. 1, 350A OR 355A
SEE NOTE 208

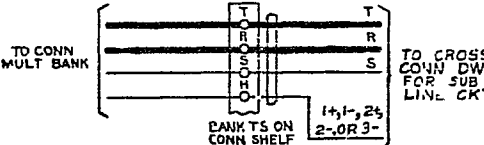


FIG. 56 (MFR DISC.)

(FOR FIGS. 3, A, B, E, & G)
NO. 1, 350A OR 355A
CONN MULT FOR PBX GRPS OF NOT MORE THAN 10 TRKS
SEE NOTE 201

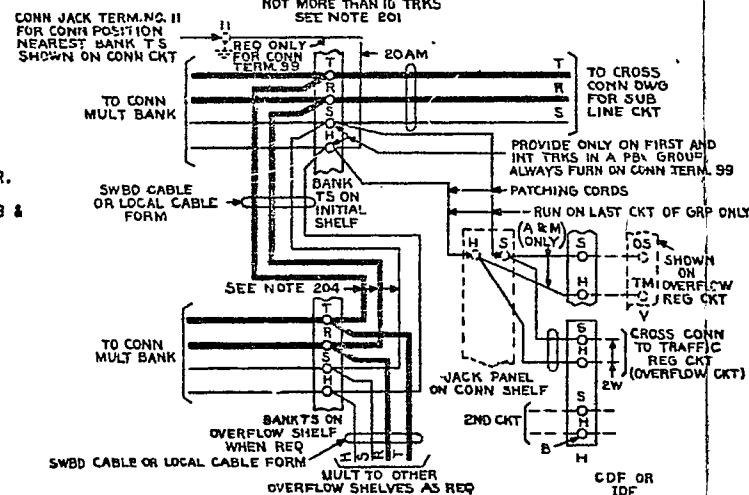


FIG. 57 (A & M ONLY)
(FOR FIGS. 3 & E)
NO. 1 OR 350A

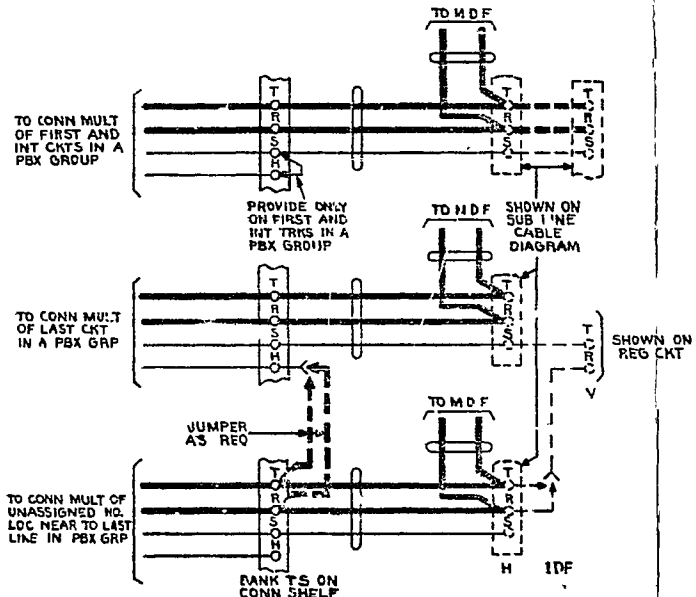


FIG. 58
(FOR FIGS. 3, A, & B)
NO. 356A
INITIAL FRAME CONN BANK MULT
FOR 1-10 GROUPS OF NOT MORE THAN 10 TRKS

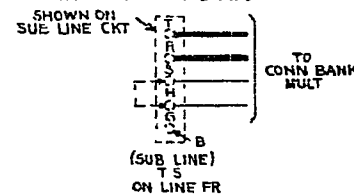


FIG. 59
(FOR FIGS. 1 & A)
NO. 356A
SUPPLEMENTARY FRAME CONN BANK MULT

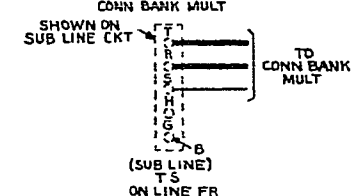


FIG. 60
(FOR FIGS. 1 & A)
NO. 356A
10 PTY TPL OR 20 PTY 2 TPL
DIVIDED RINGING
RELAY RACK CONN BANK MULT

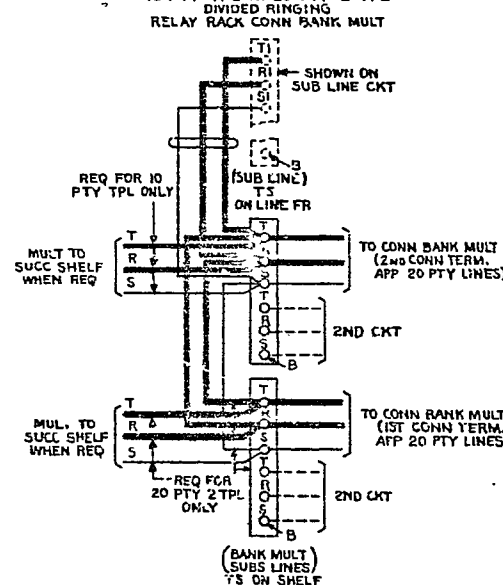


FIG. 61
(FOR FIGS. 1 & A)
NO. 356A
10 PTY TPL OR 20 PTY 2 TPL
BRIDGED RINGING
RELAY RACK CONN BANK MULT
SEE NOTE 203

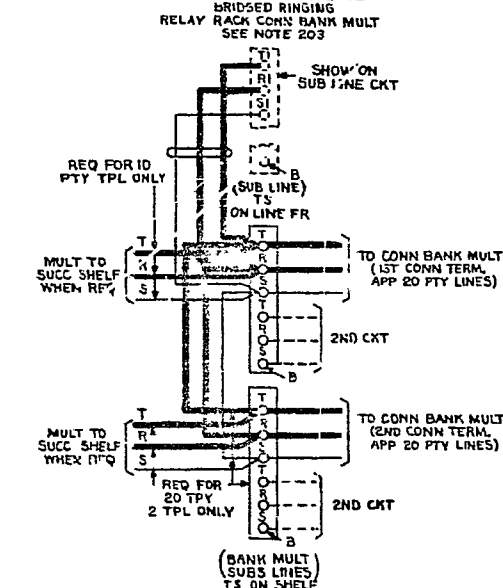


FIG. 62
(FOR FIGS. 1 & A)
NO. 356A
RELAY RACK CONN BANK MULT

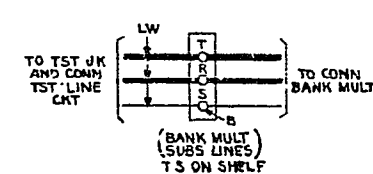
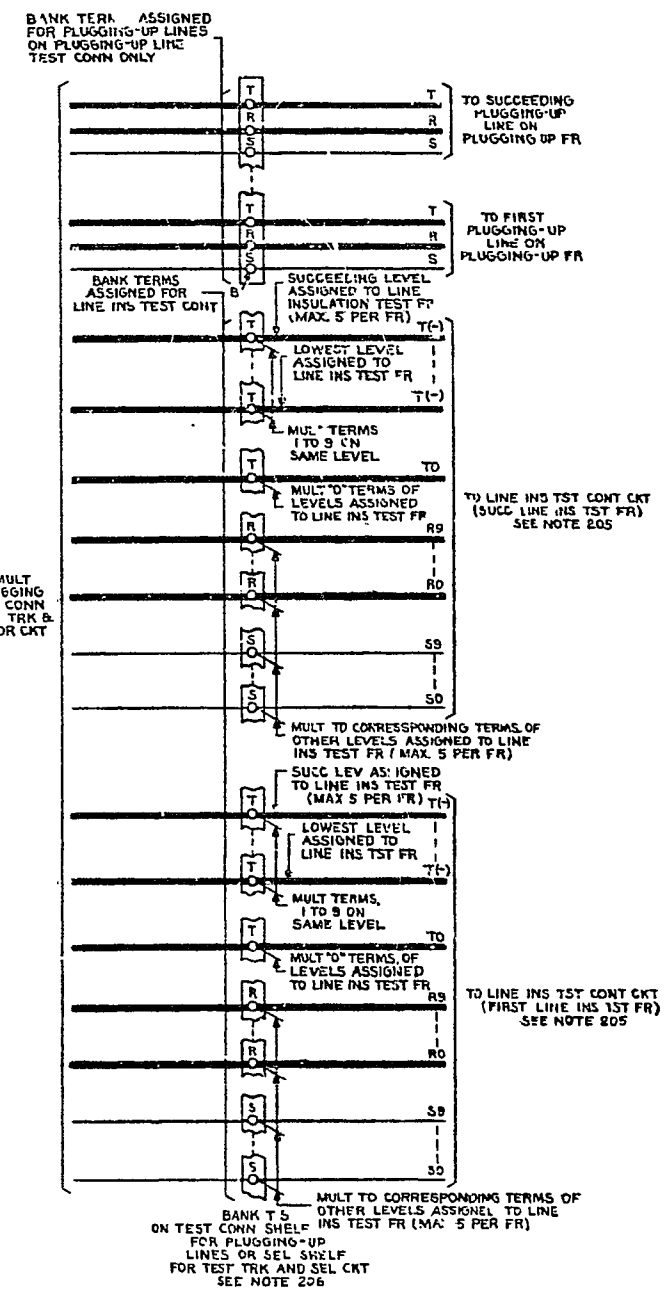


FIG. 63 (A & M ONLY)
(FOR FIGS. 1 AND A, FOR ITEMS 14 AND 15, NOTE 101)
SEE NOTE 208



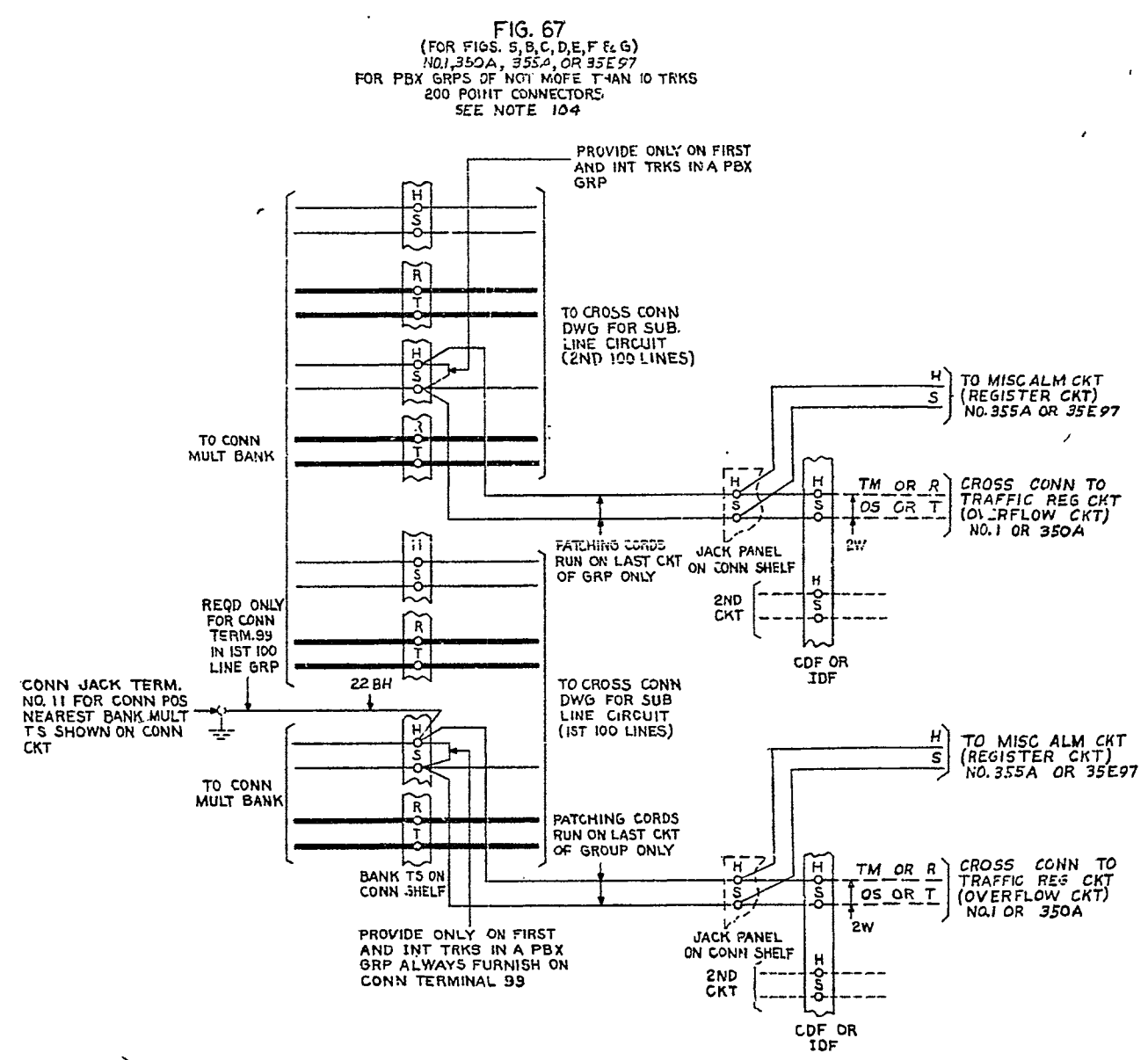
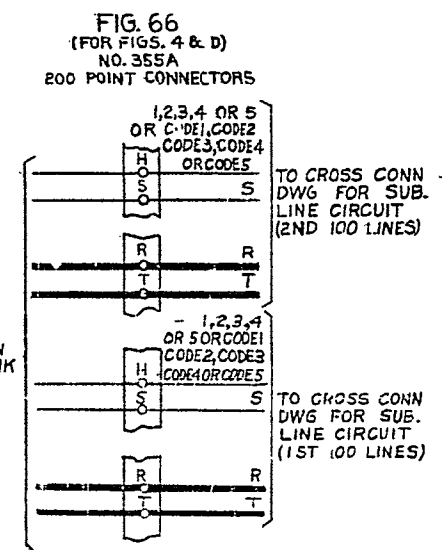
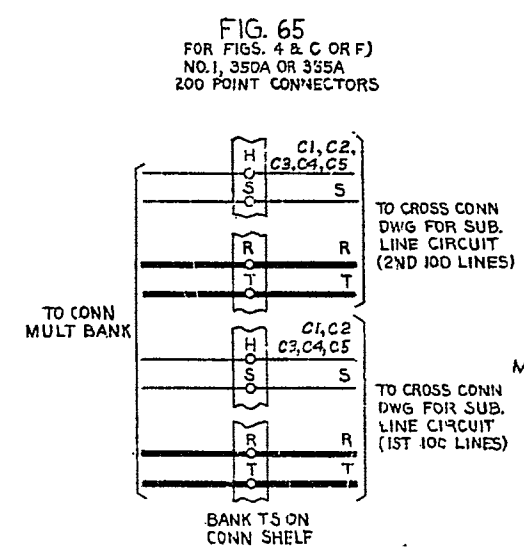
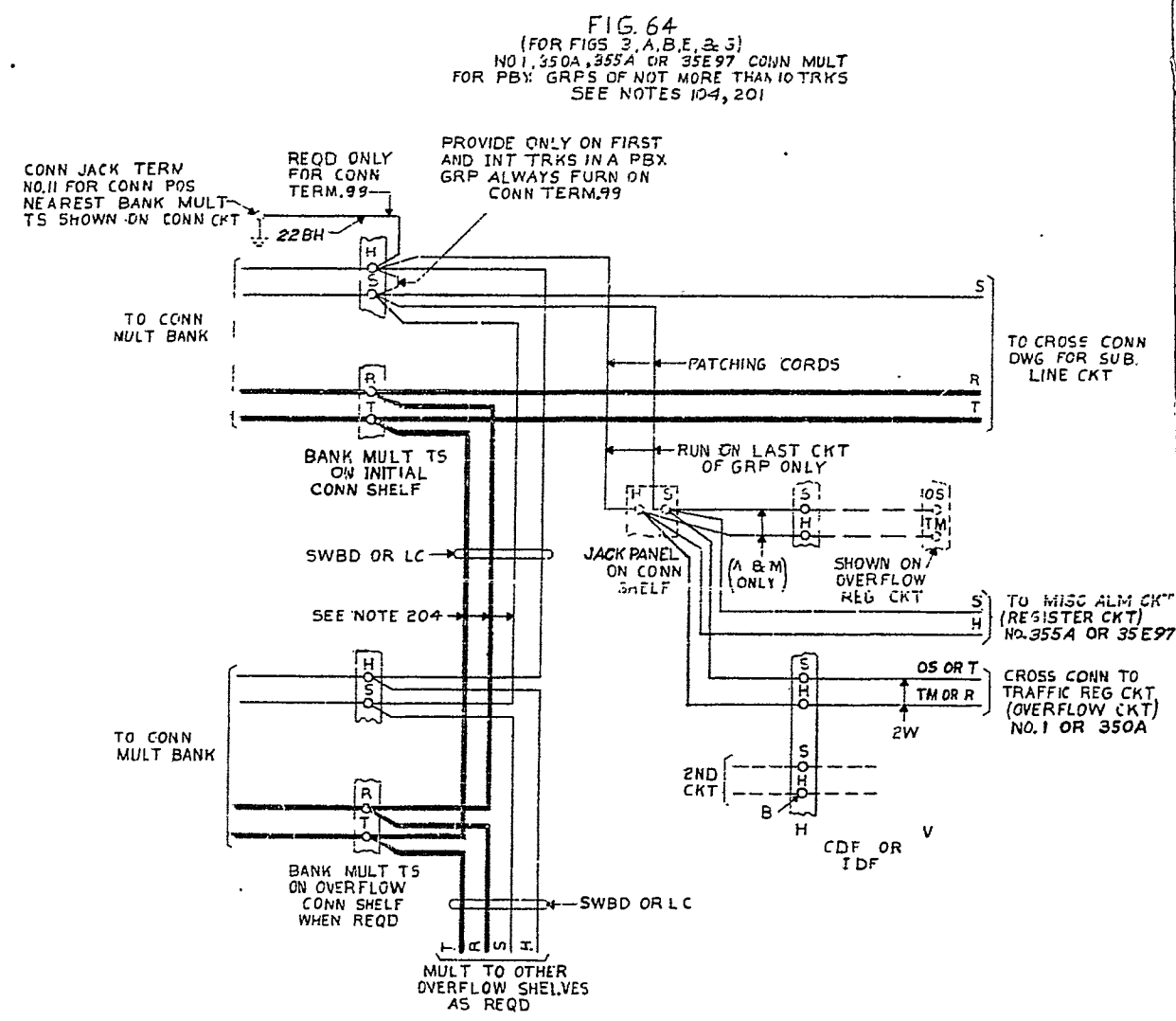
CONNECTOR BANK MULTIPLE CIRCUIT

SD-32128-01-2

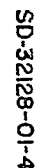
BELL TELEPHONE LABORATORIES

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BANK TERM. ASSIGNED
FOR PLUGGING-UP LINES
ON PLUGGING-UP LINE
TEST CONN ONLY



TO PERMANENT SIG HOLDING TRK. CKT

T	T	T
R	R	R
S	S	S

TO CONN. BANK-MUL. CKT

CROSS CONN TO RCT L-2 PORT CKT. OR AUX. LINE CKT

SHOWN ON SUB LINE CABLE DIAGRAM

H IDF OR COF

BANK T'S ON SHELF

TO CONN BANK MULT.

Diagram illustrating the wiring for a 22BH connection terminal block, showing connections for traffic, auxiliary, and overflow services.

Top Section:

- CONN JACK TERM NO.11 FOR CONN POS NEAREST BANK MULT T.S. SHOWN ON CONN CKT** (Terminal 11)
- 22BH** (Terminal 22BH)
- REQD. ONLY FOR CONN TERM. 99** (Terminal 99)
- CROSS CONN TO TRAFFIC REG. CKT. (NO.1 OR 350A OR TO MISC. AL M. CKT. (REG CKT.) (NO.355A OR 35E97))** (Cross connection to traffic register circuit)
- CROSS CONN TO AUX. LINE CKT. ARRANGED FOR MEASURED RATE INWATS SERVICE (SEE NOTE 104)** (Cross connection to auxiliary line circuit for measured rate service)
- PROVIDE ONLY ON FIRST AND INT TRKS IN A PBX GRP ALWAYS FURN ON CONN TERM 99** (Provide only on first and intermediate trunks in a PBX group, always furnished on connection terminal 99)

Middle Section:

- TO CONN BANK MULT** (To connection bank multiple)
- BANK MULT TS ON INITIAL CONN SHELF** (Bank multiple terminals on initial connection shelf)
- SWBD OR LC** (Switchboard or local connection)
- SEE NOTE 204** (See note 204)
- TO CONN BANK MULT** (To connection bank multiple)
- BANK MULT TS ON OVFL CONN SHELF WHEN REQD** (Bank multiple terminals on overflow connection shelf when required)
- SWBD OR LC** (Switchboard or local connection)
- MULT TO OTHER OVERFLOW SHELVES AS REQD** (Multiple to other overflow shelves as required)

Bottom Section:

- HCDF OR HIF** (Half circuit direct flow or half circuit indirect flow)
- TM** (Terminal 11)
- OS** (Terminal 11)
- 2W** (Two-wire connection)
- 3W** (Three-wire connection)
- TS** (Terminal 11)
- R** (Terminal 11)
- T** (Terminal 11)

TO CROSS CONN DWG FOR SUB LINE CIRCUIT (LEVELS : TO 800 2ND 100 LINES)

TO CROSS CONN DWG FOR SUB LINE CIRCUIT (LEVELS : TO 800 1ST 100 LINES)

TO CONN BANK MULT

TO CONN BANK MULT

BANK TS ON CONN SHELF

HCDF OR HIDEF

HCDF OR HIDEF

TM OS 2W

S R T 3W

TM OS 2W

S R T 3W

PROVIDE ONLY ON FIRST AND INT TRKS IN A PBX GRP

CROSS CONN. TO TRAFFIC REG. CKT (NO. 1 OR 350A OR TO MISC. ALM. CKT (REG. CKT.) (NO. 355A OR 35E97)

CROSS CONN. TO AUX. LINE CKT ARR FOR MEASURED RATE INWATS SERVICE (SEE NOTE 104)

PROVIDE ONLY ON FIRST AND INT TRKS IN A PBX GRP ALWAYS FURNISH ON CC TERMINAL 9

NOTE.

1. CONN JACK TERM. NO.1: FOR CONN POS.NEAREST BANK MULT T.S.SHOWN ON CONN CKT. REQD ONLY FOR CONN TERM 99 IN FIRST 100 LINE GRP.